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\$61,700,000 RECOMMENDED FOR CALIFORNIA
HIGHWAYS

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HOLDS ANNUAL MEETING

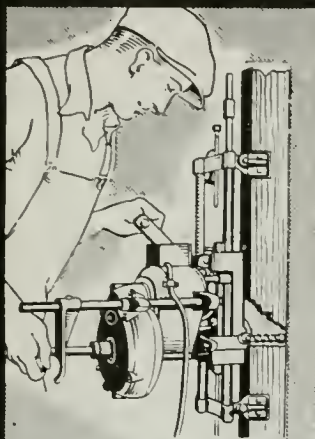
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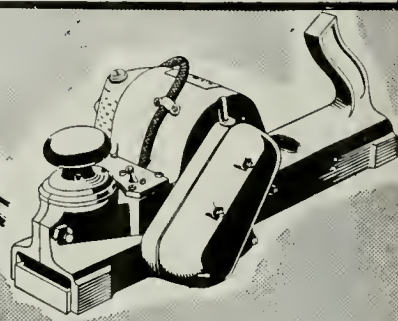
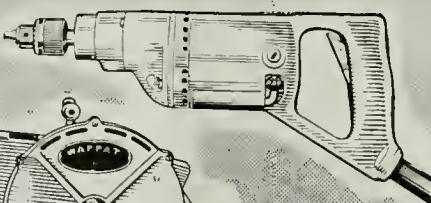
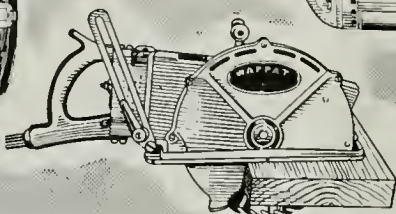
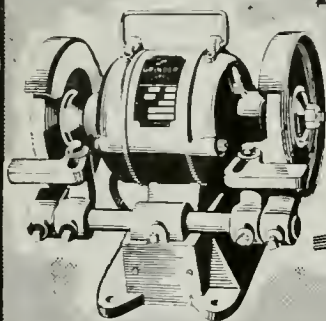
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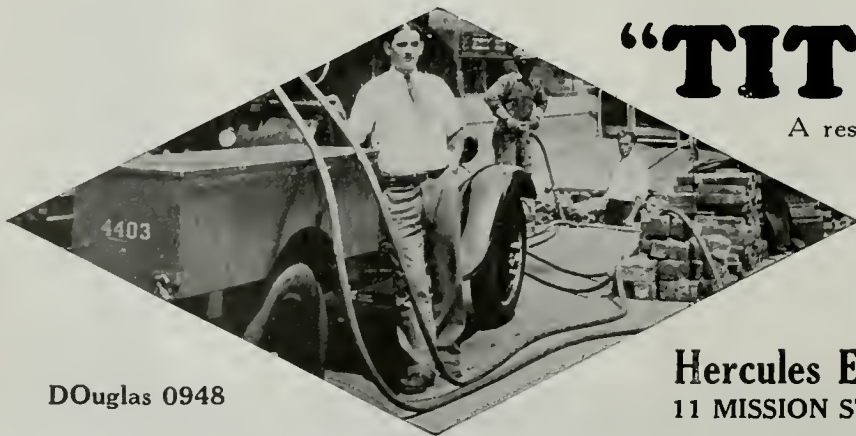
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No. 1

Editorial Comment

MOTORISTS OPPOSE GAS TAX DIVERSION

Determined opposition to the proposal that \$8,500,000 of gasoline tax income be diverted from the highway fund to the state general fund each biennium is to be made by organized motorists at the present session of the Legislature. That such a stand has the backing of the general public is evidenced by the vote on State Proposition No. 4, which was defeated at the November election. In addition, resolutions opposing diversion of highway funds have been adopted by the Motor Car Dealers Association, California State Federation of Labor, and various chambers of commerce and other civic and official bodies.

E. B. DeGolia, president of the California State Automobile Association, in a statement reviewing the position of organized motorists regarding the proposed gasoline tax diversion, said:

"By a vote of 1,103,891 to 544,222, or more than two to one, the people of California have forcefully declared that they will not tolerate diversion of highway funds to any other purposes than those to which the funds are especially pledged and dedicated. That vote was cast against State Proposition No. 4 at the recent election. Proposition No. 4 involved depriving the highways of only a comparatively small sum of money, too small to have been alone responsible for the emphatic defeat which the proposal received.

"The successful campaign which organized motorists conducted against that proposition dealt mainly with the dangers of setting a precedent for diversion of highway funds. The overwhelming 'No' vote clearly expressed a determination that highway funds shall not be made a convenient grab bag for the bolstering of the state general fund.

"It might have been hoped that in the light of this definite expression of popular will there would be an end to such attempts to raid highway funds. But the lesson of the election is being ignored by the persistence of a proposal that the huge sum of \$8,500,000 each biennium be taken from the gasoline tax revenues and placed in the state's general fund.

"The plan is sought to be justified on the ground that the amount is the same as is required to be paid out of the general fund for interest and capital payments on old highway bonds.

"While the proposal is being made with a show of plausibility in the claim that the money thus diverted would be applied to highway purposes, any honest approach to the question quickly challenges the fairness of that argument.

"Those old highway bonds were voted by all the people for the development and economic welfare of the state, thus justifying the provision that the bonds were to be retired out of the state general fund.

"Subsequently the motorists of California willingly assented to gasoline taxes for further highway development, also benefitting the entire state.

"The gasoline taxes were levied with the distinct and specific pledge that they would be used for new additions and improvements to the highway system, over and above those provided for by the bond issues.

"In the face of that fact there is little justice in the claim that the proposed diversion of gasoline tax revenues would be for highway purposes. The motoring public would simply be singled out for a discriminatory share of general State expenses."

FEDERAL HIGHWAY FUNDS ENDANGERED

"The majority members of the national House of Representatives are a singular set of individuals," comments the Reno Evening Gazette, in an editorial pointing out that federal highway work will be suspended on July 1 unless the construction policy adopted by the federal government is supported by a new appropriation.

The editorial continues:

Last summer, just prior to adjournment, the Senate passed a bill authorizing the appropriation of \$130,000,000 for highway construction during the year beginning July 1, 1933. The Democratic leaders in the House refused to let it pass in that chamber. However, they gave their approval to the Garner bill, which would have erected useless postoffices all over the land, and blamed the Republican administration then, and afterward during the campaign, for not authorizing the expenditure of billions of dollars for all sorts of public works.

As matters stand there are virtually no Federal funds available for highway work in the States for the year beginning July 1 next and ending June 30, 1934. The House committee this week not only eliminated the usual \$100,000,000 to \$130,000,000 for Federal aid construction, but eliminated the usual appropriations for forest highways and the one for highway construction over the public lands under the Oddie-Colton law. It is possible, of course, that when the Agricultural Department bill, in which highway funds are carried, reaches the Senate, the latter will amend it to provide proper highway funds, but there is no certainty that the House will accept it.

The situation is one of great seriousness, particularly for the Far Western States with small population. Most of their highway funds are derived from the Federal government. If these funds are not forthcoming for the next fiscal year they will be compelled to reduce their programs more than one-half, which will result in throwing thousands of persons out of work. It is not a reassuring outlook.

\$61,700,000 Recommended For California Roads in Biennium

CALIFORNIA will spend \$61,700,000 on its highway systems in the next biennium if the recommendation of the State Highway Commission is adopted at the current session of the legislature. This total includes:

- \$23,800,000 for new construction.
- \$14,190,000 for reconstruction.
- \$13,540,000 for maintenance.
- \$2,170,000 for administration.

Major projects in the 1933-35 budget include 77 items of improvement in the northern counties and 74 items in southern counties. The total mileages involved are 360 miles in the north and 507 miles in the south. Of the mileage in the south, 265 miles are financed from reconstruction funds and 245 miles from new construction and general funds. Of the mileage in the north, 130 miles are financed from the reconstruction fund and 230 miles from construction and general funds.

Director of Public Works Earl Lee Kelly said in making recommendations for the proposed budget a determined effort has been made to use the utmost economy in providing for and maintaining adequate traffic service over the entire system of highways and to apply funds where most urgently needed.

Under the existing statutory allocation of revenues state motor vehicle taxes, highway transportation taxes and gasoline taxes are used to maintain and extend the road system. One cent of the fuel tax is apportioned to construction of primary and secondary roads by the state. Half

of the balance of the three-cent gasoline tax and the other revenues, less costs of collection and costs of operating the California highway patrol also is expended by the state for highway maintenance and reconstruction. The other half is apportioned to the 58 counties for road purposes.

The construction fund, supplied by collection of one cent per gallon of motor fuel sold, is divided between primary and secondary construction in a ratio of 3 to 1. The funds for construction of primary highways are divided between the northern 45 counties and the southern 13 counties in proportion to the mileage of primary highways in each section. In the north section primary mileage is 2341 miles and in the south 1920 miles. This gives a ratio of 54.9 percent for the northern counties and 45.1 percent for the southern counties.

The funds for construction of secondary highways are equally divided between the north and south. Ten percent of the secondary highway construction fund is appropriated for state cooperation in joint highway districts.

Federal aid funds go into the highway general fund and are also divided between the north and south in proportion to the mileage of primary roads. Approximately \$8,000,000 was received by the state from the federal government in the last biennium. No federal aid appropriations have been made for work after July 1, 1933.

Below are summarized the principal highway projects scheduled in the highway commission budget now before the state legislature:

PRINCIPAL PROJECTS IN 1933-35 CALIFORNIA HIGHWAY BUDGET

ALAMEDA COUNTY

Grading, paving and bridge, 1.3 miles, Oakland to 1.3 miles south, \$104,300.

ALPINE COUNTY

Grading, surfacing, bridge, 6.6 miles, Centerville Bridge to Markleeville, \$236,000.

BUTTE COUNTY

Grading, 4 miles, Jarboe Pass to Bardees Creek, \$55,000.

Bridge, grading and paving, Pine Creek Bridge and approaches, \$25,300.

CALAVERAS COUNTY

Grading, surfacing, bridges, 9.4 miles, San Andreas to Angels (portion), \$120,000.

COLUSA COUNTY

Grading, paving, bridges, 8 miles, Maxwell to northerly boundary, \$381,000.

DEL NORTE COUNTY

Grading, 9.2 miles Last Chance Slide to Flaangan's, \$656,700.

Surfacing, 4.2 miles, Oregon Mountain Summit to state line, \$37,599.

EL DORADO COUNTY

Grading, 2.2 miles, Fred's Place to 2.2 miles easterly, \$190,000.

Surfacing, 9 miles, Kyburz to Strawberry, \$115,000.

Bridge and grading, Greenwood Creek and approaches, \$7500.

FRESNO COUNTY

Selma to Fowler Switch Canal, 1.3 miles, grading and paving, \$85,300.

HUMBOLDT COUNTY

Grading, surfacing and bridges, 7.5

miles, Benbow to 7 miles north of Garberville, \$575,800.

Grading and surfacing, 2 miles, Jordan Creek to South Scotia Bridge, \$102,100.

Surfacing, 9 miles, Trinidad to Big Lagoon, \$81,000.

Bridge, grading, surfacing, 0.7 mile, Smith Ranch to Twin Trees, \$116,300.

Bridge, grading, surfacing, 0.5 mile, Little River Bridge and approaches, \$73,300.

Sidewalk, Redwood Creek Bridge, \$9000.

HUMBOLDT - SISKIYOU COUNTIES

Grading, bridges, Weitchpec to Happy Camp (portion), \$190,000.

IMPERIAL COUNTY

Triobium Canal to twenty-foot pavement, 3.2 miles, grading and paving, \$80,800.

San Felipe Wash, bridge \$20,000.

Trifolium Canal to north boundary, 33.0 miles, surface shoulders, \$93,000.

Holtville to High Line Canal, 7.0 miles, surface shoulders, \$28,000.

Araz to Yuma, 6.1 miles, surface shoulders, \$6100.

East High Line Canal to Sand Hills, 21.0 miles, grading, paving, surface shoulders, \$590,000.

Arroyo Salado, Tule and Campbell washes, San Felipe sand dunes, grading, paving, bridges, \$80,700.

INYO COUNTY

South limits of Bishop to Birchim Canyon, 13.1 miles, grading and surfacing, \$170,000.

KERN COUNTY

Haypress Canyon to Bear Mountain ranch, 6.0 miles, grading and surfacing, \$490,000.

Mariposa to west boundary, 10.5 miles, grading and surfacing, \$250,000

One mile to two miles south of Delano, grading and paving, \$37,000.

South boundary to Oak Glen, 6.8 miles, grading, paving, bridges, \$752,000.

LAKE COUNTY

Middletown to 4 miles northerly, grade, surface bridges, \$223,500.

LOS ANGELES COUNTY

Grading, paving, bridges, 3.2 miles, near Newhall to Saugus, \$75,000.

.6 mile, Saugus to William's ranch (portions), \$37,000.

Grading, paving, 3.3 miles, Calabasas to west boundary (portions), \$132,000.

1.4 miles, William's ranch to Seeley's ranch (portions), \$70,000.

Paving, 10.6 miles, The Oaks to Acton road, \$152,000.

Grading, paving 24 miles, Lancaster to Mojave, \$220,000.

Grading, paving, bridges, 3.3 miles, Big Tujunga wash to Tujunga, \$114,000.

Grading, paving, bridges, 10.8 miles, Winter canyon to Ramirez canyon and Encinal canyon to west boundary, \$821,500.

8.8 miles Ramirez canyon to Encinal canyon and Las Flores canyon to Winter canyon, \$502,500.

Grading, paving, 5.4 miles, Santa Clara river to Castaic school, \$150,000.
Grading, paving, structures, .6 mile, Los Angeles west city limits to Beverly Blvd., \$100,000.

.02 mile, West Channel road to Santa Monica, \$20,000.

Grading, surfacing, 4.0 miles, Colby canyon to Mt. Wilson Road, \$420,000.
Co-operative grading (state share), San Gabriel canyon, \$113,000.

Grading, paving, 4 miles, Orange Ave., to Barranca St., \$180,000.

Grade separation, El Monte, \$90,000.

LOS ANGELES-KERN COUNTIES.
Lancaster to Mojave, 24.0 miles, grading and paving, \$220,000.

MADERA COUNTY

Bridge, Ash Slough, \$40,000.

MARIPOSA COUNTY

Surfacing, 15 miles, Orange Hill School to Mariposa, \$275,000.

MENDOCINO COUNTY

Bridge, grading, surfacing, 0.6 mile, Rattlesnake No. 3 Bridge and approaches, \$66,800.

Grading, surfacing, bridges, Macdonald to Navarro (portions), \$60,000.

MENDOCINO - HUMPOLDT CO.

County line bridge and approaches, 1.2 mile, bridge, grading and surfacing, \$211,900.

MERCED COUNTY

Grading, surfacing, 3.3 miles, West Boundary to foot Pacheco Pass Grade, \$260,000.

Bridge, grading, paving, Santa Rita Slough and approaches \$29,000.

MOFOC COUNTY

Grading and surfacing, 2.6 mile, Alturas to Cedarville (portions), \$81,000.

MONO COUNTY

Yosemite Park boundary to Mono Lake (portions), 15.3 miles, grading, \$243,125.

Crest View to point 2.2 miles south of Rush Creek, 9.5 miles, grading and surfacing, \$181,900.

Mono Inn to point 2.7 miles south, grading and surfacing, \$63,500.

Sherwin Hill to Wiskey Creek, 3.5 miles, grading and surfacing, \$35,000.

Point Ranch to Dressler's Corner, 6.2 miles, grading, surfacing, structures, \$117,180.

MONTEREY COUNTY

Grading and paving, 11.1 miles, King City to Greenfield, \$369,000.

Grading, paving, and bridges, 5.6 miles, from 6 miles south of San Ardo to Bradley \$339,500.

Grading and paving, 11 miles, Chualar to 6 miles south of Gonzales, \$361,000.

Grading, 1.5 miles, Carmel to Carmel River, \$59,000.

Grading, 4.7 miles, Big Sur to Molera Ranch, \$170,000.

Grading, 9.1 miles, San Lorenzo Creek to Priest Valley School (portions), \$150,000.

Bridges, South Boundary to Molera Ranch, \$307,500.

NEVADA COUNTY

Grading and surfacing, 5 miles, Hinton to 5 miles easterly, \$100,000.

Grading and surfacing, 4.7 miles, west end Donner Lake to Route 38, \$160,000.

Surfacing, 7.4 miles, from one mile west of Washington Rd. to 0.5 mile east of Summit, \$110,000.

NEVADA-PLACER COUNTIES

Surfacing, 11 miles, Yuba River to Soda Springs, \$25,000.

Grading and surfacing, 4.1 miles, Spaulding Canal to Route 37, \$190,000.

ORANGE COUNTY

Trabuco Creek, bridge, \$26,000.

Santa Ana Canyon (portions), grading and paving, \$209,000.

PLACER COUNTY

Bridge and grading, Ward Creek and approaches, \$14,000.

PLACER-NEVADA COUNTIES

Grading and surfacing, 4.1 miles, Spaulding Canal to Route 37, \$190,000.

PLUMAS COUNTY

Bridge, North Fork Feather River, \$32,600.

RIVERSIDE COUNTY

Black Butte to Blythe, 9.2 miles, grading and surfacing, \$52,000.

South boundary to Corona, 45 miles, surface shoulders, \$45,000.

Elsinore to Box Springs, 25 miles, surface shoulders, \$25,000.

South boundary to Avenue 62, 14.3 miles, surface shoulders, \$14,500.

Near Shavers Summit, westerly, 12 miles, oil surface, \$20,000.

Indio to 12.5 miles easterly, grading and surfacing, \$200,000.

Colorado River bridge interest purchase of bridge (State's share), \$1688.

Beaumont to Riverside, (portions), 19 miles, grading, surfacing, structures, \$601,500.

Banning to Whitewater, 12.1 miles, repair dips, \$70,000.

SACRAMENTO COUNTY

Bridges, Sacramento to McConneil, \$27,000.

SAN BERNARDINO COUNTY

San Timoteo Creek, grading, paving, bridge, \$35,000.

Camp Cajon to west boundary, 18 miles, grading and surfacing, \$240,000.

Sierra Ave. to Colton, 5.8 miles, grading and paving, \$200,000.

Ontario to Pomona, 2.1 miles, grading and paving, \$110,000.

Fawnskin, easterly, 1 mile, grading and surfacing, \$25,000.

San Bernardino to Arrowhead Springs, 1 mile, grading and surfacing \$40,500.

SAN DIEGO COUNTY

Del Mar to Oceanside, 16.4 miles, grading, paving, bridges, \$535,000.

Oceanside to San Mateo Creek, 18 miles, grading, paving, bridges, \$479,000.

Santa Margarita River bridge, \$200,000.

National City to San Ysidro, 10 miles, grading and paving, \$285,000.

El Cajon, easterly 1.2 miles, grading and paving, \$28,000.

SAN FRANCISCO-ALAMEDA CO.

Grading and paving, San Francisco Bay Bridge approaches, \$1,500,000.

SAN JOAQUIN COUNTY

Paving, 3.5 miles, French Camp to McKinley Ave., \$122,000.

Grading and paving, 4.4 miles, Lodi to Waterloo Road, \$121,000.

SAN LUIS OBISPO COUNTY

Pismo to San Luis Obispo (portions), 2.1 miles, paving, \$77,500.

SAN MATEO COUNTY

Grading and paving, 4.9 miles, San Mateo to Redwood City, \$485,000.

Grade separation, South San Francisco, \$150,000.

SANTA CRUZ COUNTY

Grading, surfacing, 6.7 miles, Inspiration Point to Scott Valley, \$277,000.

Grading, surfacing, 3.9 miles, Scott Valley to one mile north of Santa Cruz, \$300,000.

SHASTA COUNTY

Bridge, grading, surfacing, 1 mile, Redding to Sulphur Creek, \$253,000.

Surfacing, 16.2 miles, Diddy Hill to Montgomery Creek, \$55,000.

SISKIYOU COUNTY

Grading, surfacing, 0.3 mile, Big Canyon, \$56,500.

SANTA BARBARA COUNTY

Santa Ynez River and approaches, 1.4 miles, bridge and grading, \$150,000.

Santa Barbara to San Marcos Pass, 5.7 miles, grading and structures, \$500,000.

Arroyo Hondo to Gavilota, 5.3 miles, grading and paving, \$315,000.

Tajiguas to Arroyo Cuemado, 1.1 miles, grading and paving, \$60,000.

Nojoqui grade, 3.7 miles, grading, paving, bridge, \$479,000.

Richfield Tower to Santa Maria, 1.5 miles, grading and paving, \$62,000.

Santa Maria to Santa Maria River, 0.7 mile, grading and paving, \$27,000.

Hollister Avenue, subway to Santa Barbara, 1.6 miles, grading and paving, \$113,800.

Ortega Hill and San Ysidro Road to Santa Barbara 1.9 miles, grading and paving, \$147,000.

SOLANO COUNTY

Grading, paving, bridge, 3.3 miles, from 5.5 miles north of Fairfield to one mile south of Vacaville, \$172,000.

Grading, 11 miles, Benicia-Vallejo Road to Cordelia, \$400,000.

Grading, 1.5 miles, one mile north of Carquinez Bridge to Valley-Benicia Road, \$59,000.

Grading, surfacing, 0.7 mile, at Fairfield, \$20,000.

SONOMA COUNTY

Grading, surfacing, 0.9 mile, Foster line change, \$60,000.

SONOMA-MENDOCINO COUNTIES

Grading, paving, bridges, and grade separations, 13.8 miles, Cleverdale to Hopland, \$652,500.

SPANISLAUS COUNTY

Grading and paving 1.3 miles, 1/2 mile south to 3/4 mile north of Turlock, \$65,000.

TEHAMA COUNTY

Grading, surfaced shoulders, 26.5 miles, South Boundary to Red Bluff, \$250,000.

Grading and surfacing, 13.8 miles, Red Bluff to Dales, \$485,000.

TRINITY COUNTY

Grading and surfacing, 10.3 miles, South Fork to Burnt Ranch (portions) \$123,500.

TULARE COUNTY

Grading, over Oregon St., \$100,000.

Visalia to Merryman, 9.9 miles, grading, paving, bridges, \$340,000.

VENTURA COUNTY

Stallo to Santa Clara River, 3.4 miles, grading and paving, \$72,000.

South boundary to Newberry Park (portions), 1.2 miles, grading and paving, \$40,000.

Ventura to west boundary, 12 miles, grading and paving, \$672,000.

East boundary to Little Sycamore Creek, 1.2 miles, grading, paving, bridges, \$35,000.

Oxnard to Calleguas Creek, 8.1 miles, grading, paving, bridge, \$166,000.

At Big Sycamore Creek, 0.6 mile, grading, paving bridge, \$65,000.

Casitas Pass Road (portions), grading, \$150,000.

YOLO COUNTY

Grading, paving, 3.5 miles, Causeway to M St. Subway, \$122,000.

Grading and paving, 0.1 mile, West Approach to Causeway, \$6000.

YOLO-SACRAMENTO COUNTIES

Bridge at Sacramento, \$433,000.

YUBA COUNTY

Grading, paving, bridges, 2.5 miles, Wheatland to Morrison's Crossing, \$117,000.

MISCELLANEOUS

Prison Labor Camps, \$2,950,000.

Co-operative City Projects, Northern Counties, \$1,432,280.

Northern California Chapter A. G. C. Holds 1932 Annual Meeting

MORE than a hundred members of the Northern California Chapter, Associated General Contractors of America, attended the 1932 annual meeting of the Chapter, held December 22, in San Francisco.

An all-day business session was held in the Sharon room of the Palace Hotel, concluding with a banquet in the evening. State Director of Public Works Earl Lee Kelly was the principal speaker at the banquet. Kelly discussed general features of the Highway Commission budget for the coming biennium and the history of the State's highway development program.

Other speakers at the evening program were: State Senator Roy Fellom; Dr. L. I. Hewes, regional director of the Bureau of Public Roads; State Highway Engineer C. H. Purcell, and President Clyde Wood.

The concluding feature of the day's program was the showing of motion pictures provided by the Six Companies, Inc., depicting the Boulder Dam construction. W. A. Bechtel, president of the Six Companies, and Henry J. Kaiser, chairman of the executive committee of Six Companies, described different features of the work and the plant of the Six Companies as the pictures were shown.

Six resolutions were adopted by the Chapter: (1) Opposing diversion of gasoline tax money for uses other than highway construction, in accordance with the pledge given the automobile owner when the gasoline tax was proposed; (2) endorsing continuation of the Federal aid highway program as an effective measure of unemployment relief, proven by the experience of the past two years; (3) commending the board of directors of the Los Angeles Metropolitan Water District for constructing the San Jacinto Tunnel of the Colorado River Aqueduct under the contract system, and recommending to the Los Angeles Metropolitan Water District that the contract procedure be followed in construction of all other units of the Colorado River project, outlining its advantages over the day labor method; (4) commending the Los Angeles County Flood Control District for advertising and readvertising for bids until satisfactory offers were received on contracts; (5) pointing out that all legislation adopted under stress of present conditions should be regarded as strictly emergency in character, and urging that legislators emphasize the necessity of regarding such acts as temporary; (6) endorsing the appointment of standing committees in both houses of Congress and in the California State Legislature on building and construction legislation; (7) reiterating previous stands opposing the prevailing wage law and opposing the use of convict labor in road construction during present abnormal conditions.

The resolutions were drawn by a committee composed of A. J. Crocker, George Pollock and D. McDonald.

A special resolution, moved by C. V. Isbell, expressed appreciation to the present officers and directors for their services in the past year and congratulated the Southern California Chapter on its reorganization, which was aided by officers of the Northern California Chapter.

Officers for 1933 will be elected at a meeting of the board of directors in San Francisco early in January. Two new members were elected to the directorate at the meeting, and two directors were re-elected. Directors George Pollock of Sacramento and R. D. Watson of Oakland were reelected. A. B. Ordway of the Kaiser

Paving Co., Oakland, and J. E. Bell of Hemstreet and Bell, Marysville, were elected to succeed Directors Adolph Teichert, Jr., and A. J. Crocker, whose terms expired.

The morning meeting of the convention was devoted to committee reports by A. J. Crocker, chairman of the finance committee; K. K. Bechtel, membership committee; R. D. Watson, chairman, highway committee; Adolph Teichert, chairman of the credits committee; George Pollock, public relations committee.

Luncheon was served at the hotel and during the luncheon an address was delivered by J. A. Pettis, counsel and manager for the California Manufacturers' Association on the subject "Government Interference with Private Business."

In the afternoon the following speakers were heard: Frederick J. Koster, chairman of the committee on governmental expenditures of the California State Chamber of Commerce, on "The Statewide Campaign to Control and Reduce the Cost of Government"; W. H. George, president, San Francisco Builders' Exchange, on "Economics of the Prevailing Wage Law"; J. J. Jellick, Portland Cement Association, on "Important Legislation Affecting Our Highway Program."

An open forum discussion by members followed these addresses.

Discussion of the A.G.C. organization was led by Henry J. Kaiser, national president, and George Pollock, vice-president of the Northern California Chapter.

Kaiser told of the work of the national organization, particularly in regard to efforts made to promote national legislation. He said the greatest stumbling block was lack of a congressional committee on construction, authorized to consider the industry's problems.

"As one walks down the halls of the House building," he said, "you see over one door 'Agricultural Committee,' over another 'Labor Committee,' and so on until you finally reach the largest and most sumptuous of all, labeled 'Banking Committee,' but you look in vain for any 'Construction Committee.' The appointment of such a committee will be one of the major aims of the national association during the coming year.

"When the Wagner bill was before the Congress for consideration, one of the committee members told your national officers that he thought it would be impossible to get it reported out, unless some assistance was forthcoming. I asked him if it would help if we had telegrams urging its passage sent to the committee, and he said that telegrams from individuals would not help in the least, but if we could get telegrams signed by organizations it would help immensely. Through your national organization and its affiliations we were able to get several thousand signed messages, which aided greatly in facilitating the reporting of the message and its final passage. Under this bill the Bay District has received \$62,000,000, with more to come, and the southern part of the State has had loans of \$212,000,000 approved.

"We in Washington have discovered a system that might be applied to the State Legislature with equally gratifying results. Whenever a bill affecting legislation in which we are interested has been voted upon, we send a telegram to our representatives asking how he voted, and if he voted yes, why? If he voted no, why? Just a

few days ago, in talking with the gentleman whom I expect to be the next speaker of the House, and by the way, I think he is most admirably fitted for the position, he said that if such a system were more generally adopted it would result in a Congress of which we would be proud."

George Pollock, Chapter vice-president, discussed the benefits of local A.G.C. organizations, saying he had found by experience the advantages of improved relations developed by the Chapter activities between local contractors and engineers, architects and public officials; the establishment of friendly relations with competitors, and the success with which the contractors could campaign cooperatively for public policies beneficial to the construction industry.

The work of the Northern California Chapter was reviewed in the annual report of Secretary-Manager Floyd O. Booe. One of the major problems of the year was that occasioned by the attempt of political bodies to hold wage scales at artificial levels by enactment of the prevailing wage laws, Booe said.

Following is an excerpt from his report commenting on this subject:

"One of the most aggravating problems that has confronted our organization during the past year has been that of the prevailing wage law as it applies nationally, state-wide and locally through municipal ordinances. The original Federal law, known as the Bacon-Davis bill, has proven a tremendous handicap to contracting operations throughout the country and has now reached the point where it seems to be the consensus of opinion of the National A.G.C. that the only remedy left is to carry this law to the Supreme Court of the United States for a final test.

"We have devoted a great deal of time in the endeavor to work out satisfactory and proper wage rates and classifications under the State's prevailing wage law, and innumerable conferences and hearings have been held with State officials in reference to this matter. About the only success we have had has been, after months of effort, to convince most of the officials that the original wages specified have been too high, and there has been a general revision of wage scales downward on most of the projects, particularly of the State.

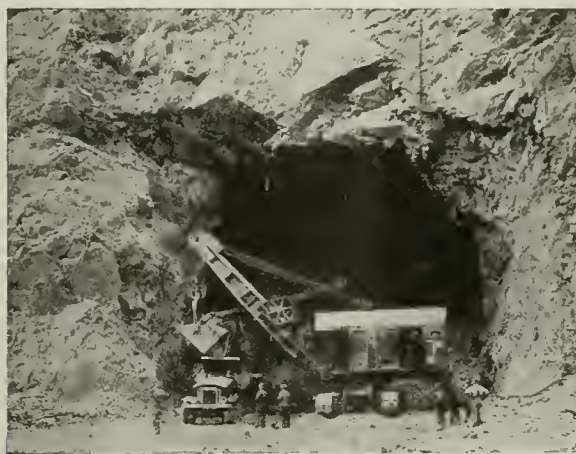
"There can be no doubt that this prevailing wage law is the most detrimental piece of legislation, and the most vicious, that has ever been enacted, so far as the employer of labor on public works is concerned. To date it has served to effectually stifle the legitimate contractor in his efforts to secure public work because of the opportunity it provides for the crooked operator to evade the provisions of the law and thereby under-bid the legitimate operator to such an extent as to eliminate him from the picture. Public officials and engineers, including the Labor Department, are positively helpless in enforcing a law of this kind, and it is so contrary in principle to the laws of supply and demand that it will never successfully function. Organized labor groups in every community in the State are using this law as a club over the heads of the officials to perpetuate wage rates on public work entirely out of line with the readjustments that have taken

place in the economic structure. This pressure is so extensive and so vicious in many respects that every wage established can invariably be termed a political wage rather than a prevailing wage. In every instance, when labor has been dissatisfied with any wage rate established by a public body, they have turned around and coerced and otherwise threatened and enjoined, and done everything possible to compel the officials to recede from their stand. A good example is the action that is pending at this moment against the Metropolitan Water District Board of Southern California.

"Throughout the year we have given wide publicity to the viciousness of this law and its operation, and we believe that most of the important taxpaying groups have finally realized its dire consequences and that there will be a real opportunity for its repeal at the forthcoming session of the Legislature.

"Following the fashion set up by the national and State laws, most of the chartered cities and counties operating under a freeholders' charter have likewise set up prevailing wage ordinances, and we have before us situations such as exist in Los Angeles County, where there are 26 different wage scales established by as many different public bodies."

ELECTRIC SHOVELS AT DAM—About 121 cubic yards (solid measure) per digging hour has been averaged by nine Westinghouse equipped Marion electric shovels operating at Hoover Dam, according to figures received by the Westinghouse factory. Individual records reached 200 cubic yards per hour and as much as 16,000 cubic yards, solid measurement, were removed in one day from the 56-foot diversion tunnels.



Electric Shovels at Hoover Dam

The shovels have been employed in digging the four diversion tunnels, each 56 feet in diameter and with a combined length of 15,909 feet. Electrical and mechanical maintenance on the shovels, including labor and supplies, is figured at approximately 0.6 cents per cubic yard and power consumption is estimated at 0.3 kw.-hr. per cubic yard.

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Specifications for Liquid Asphaltic Road Materials

(Reprinted from pamphlet issued by Asphalt Institute)

THE specifications for liquid asphaltic road materials presented in this pamphlet have been developed as the result of numerous conferences with representatives of the United States Bureau of Public Roads and the various state highway departments, and supersede former Specifications Nos. 1 to 7 inclusive of The Asphalt Institute. They have been prepared to conform with the simplified scheme of analysis developed at these conferences, and cover the great bulk of satisfactory products which are now being furnished by the producers for various classes of highway treatment and construction.

General adoption of the simplified form of specification by the users of liquid asphaltic road materials is to be greatly desired for the following reasons:

1. The simplified form reduces all specifications to a common language by means of which the various products can be correctly compared and evaluated.

2. It eliminates a large number of unnecessary tests heretofore commonly used, with their accompanying variations, and makes possible a clearer interchange of opinions and experiences among consumers and producers.

3. It prevents the unnecessary overlapping in grades of products which are to serve a single purpose, which overlapping has resulted from the variable forms of specifications developed by individual localities.

The simplified scheme embodies the following three fundamental determinations:

1. Determination, by means of a viscosity test, of the consistency or degree of fluidity of the original material at as near normal temperature as practicable, which indicates the suitability of the product from the standpoint of application, for a given type of treatment or method of construction.

2. Determination, by means of the distillation test, of the amount and character of lighter constituents which may be expected to eliminate themselves through volatilization or absorption during manipulation and early use, which indicates the probable rate of curing.

3. Determination, by means of the penetration or float test, of the consistency of the residue from distillation, which indicates the probable extent of curing and the character of the product eventually retained by the mineral aggregate in the highway which has been treated.

In the following tabulated specifications, liquid asphaltic road materials have been grouped under three classifications: R. C., or rapid curing cut-back asphalts; M. C., or medium curing cutback asphalts; and S. C., or slow curing products. Under each classification the individual specifications have been numbered consecutively as the viscosity of the products increases. Numerical values opposite the individual tests, when followed by a + sign, signify not less than the value shown and if followed by a — sign, not more than the value shown.

Following each set of tabulated specification requirements are descriptions of the type of treatment or construction for which materials under each individual specification are best suited. The table of Principal Uses summarizes these descriptions and illustrates the inter-relationship of all of the products specified. Reference to standard tests and descriptions of tests not yet officially adopted as standard, which are embodied in these specifications, are given later in this article.

Specifications For Type R. C. Materials

Specification Designation	RC-1	RC-2	RC-3	RC-4
General Requirement	The material shall be free from water and shall meet the following requirements when tested in accordance with the methods hereinafter enumerated.			
Flash Point (Open Tag.) °F.	80+	80+	80+	80+
Furol Viscosity at 122°F.	80-160	200-400		
" " " 140°F.			275-400	700-1400
Distillation, per cent by volume:				
Total Distillate to 374°F.	5+			
" " " 437°F.	12+	10+	3+	0.5+
" " " 600°F.	25+	20+	14+	7+
" " " 680°F.	40—	35—	30—	25—
Tests on Residue from Distillation:				
Penetration 77°F. 100 g., 5 sec.	60-120	60-120	60-120	60-120
Ductility at 77°F.	60+	60+	60+	60+
Per cent Soluble in Carbon Disulphide	99.5+	99.5+	99.5+	99.5+

Type R. C.-1

It provides for a rapid curing liquid product of low initial viscosity suitable for surface treatment and re-treatment as seal coat, or in the construction of thin bituminous carpet courses with a light cover of suitable mineral aggregate free from dust.

It is not intended for use as a primer on untreated roads as it is apt to harden before it can penetrate the surface. Before application to non-bituminous surfaces the road should preferably be primed with Type M. C.-1 material.

Type R. C.-2

It provides for a rapid curing liquid product of relatively low viscosity, suitable for the preparation of cold-patch mixtures, with open graded mineral aggregate having little or no material passing the 10-mesh and practically none passing the 200-mesh sieve. If the asphaltic material is warmed prior to admixture with the mineral aggregate, suitable precautions should be taken to avoid fire hazard. The mixture should preferably be aged in stock piles for 24 hours or more before use.

This material may also be used in cool weather for the type of construction described under Type R. C.-3.

Type R. C.-3

It provides for a rapid curing product of relatively high viscosity suitable for use in the construction of roller compacted road-mix wearing courses, or for cold-patch mixtures, in which the mineral aggregate is of the open type, consisting principally of crushed fragments, maximum size not over 1½ inches, and practically all of which is retained on a ¼ inch screen. The asphaltic material should be warmed prior to application with suitable precautions to avoid fire hazard. It is not intended for use with aggregate containing a high dust content.

Type R. C.-2 material may be used for this class of construction in cool weather, particularly in cases where the maximum diameter of mineral aggregate particle does not exceed 1 inch.

Type R. C.-4

This specification provides for a rapid curing product of high viscosity suitable for use in the construction of roller compacted cold plant-mix wearing courses in which the mineral aggregate is of the open type, consisting principally of crushed fragments, maximum size not over 1½ inches and practically all of which is retained on a ¼ inch screen. It is particularly adapted for use under conditions where the mixture is to be laid and compacted imme-

diately after mixing. The asphaltic material should be warmed prior to use with suitable precautions to avoid fire hazard.

Specifications For Type M. C. Materials

Spec. Designation	MC-1	MC-2	MC-3	MC-4	MC-5
Gen. Requirement	The material shall be free from water and shall meet the following requirements when tested in accordance with the methods hereinafter enumerated.				
Flash Point (Open Tag.) °F.		150+	150+	150+	150+
Furol Viscosity at 77° F.	40-150				
" " " 140° F.	150-250	300-500	500-800		
" " " 180° F.				170-280	
Distillation, per cent by volume:					
Total Distillate to 437° F.	10-	2-	2-	1-	1-
" " " 600° F.	25+	10-20	8-20	16-	14-
" " " 680° F.	50-	27-	25-	25-	20-
Tests on Residue from Distillation:					
Penetration 77° F., 100 g., 5 sec.	70-300	100-300	100-300	100-300	100-300
Ductility at 77° F.	60+	60+	60+	60+	60+
Per cent Soluble in Carbon Disulphide	99.5+	99.5+	99.5+	99.5+	99.5+

Type M. C.-1

It provides for a liquid product of very low viscosity for cold application, suitable for use as a primer for initial surface treatment of road surfaces preparatory to the construction of bituminous carpet or wearing course. It is readily and completely absorbed by earth, gravel or broken stone surfaces, where it hardens in place. While it develops considerable cementitiousness upon drying, it is not intended to hold a cover of stone chips or gravel.

Type M. C.-2

It provides for a medium curing liquid product of low viscosity suitable for use in the construction of traffic compacted road-mix wearing courses in which the mineral aggregate is densely graded, from a maximum diameter of 1 inch down, with from 35 to 60 per cent of material passing a 10-mesh sieve and from 7 to 14 per cent passing a 200-mesh sieve. This material should ordinarily be warmed before application. Its viscosity increases materially after use so as to develop considerable cementitiousness. It is therefore adapted for the type of construction described, under severe climatic conditions. It does not, however, harden with sufficient rapidity to be used to best advantage as a binder for coarse open mineral aggregates free from dust.

Type M. C.-3

This specification provides for a medium curing liquid product of medium viscosity suitable for use in the construction of traffic compacted cold laid plant-mix wearing courses in which the mineral aggregate is densely graded from a maximum of 1 inch down, with from 35 to 60 per cent of material passing a 10-mesh sieve, and from 7 to 14 per cent passing a 200-mesh sieve.

It is also suitable for use in the construction of roller compacted, road-mix wearing courses in which the mineral aggregate is of the open graded type with a maximum diameter of not over 1 inch, containing little or no material passing the 200-mesh but having a relatively high percentage passing the 10-mesh sieve.

This material should be warmed before application. Its viscosity increases materially after use so as to develop considerable cementitiousness and it is therefore adapted to

both types of construction described, under severe climatic conditions.

Type M. C.-4

This specification provides for a medium curing liquid product of relatively high viscosity suitable for use in the construction of roller compacted, cold laid plant-mix wearing courses, or road-mix wearing courses in hot weather, in which the mineral aggregate is of the open graded type with a maximum diameter of 1 inch, containing little or no material passing the 200-mesh but having not less than 35 per cent passing the 10-mesh sieve. The asphaltic material, and sometimes the aggregate, require warming before mixing.

Type M. C.-5

This specification provides for a medium curing product of high viscosity suitable for use in the construction of roller compacted, cold laid plant-mix wearing courses, in which the mineral aggregate is of the open graded type with a maximum diameter of 1 inch, containing practically no material passing the 200-mesh but having an appreciable percentage passing the 1/4 inch screen. The asphaltic material and usually the aggregate require warming before mixing.

Specifications For Type S. C. Materials

Specification Designation	SC-1*	SC-2	SC-3	SC-4
General Requirement	The material shall meet the following requirements when tested in accordance with the methods hereinafter enumerated.			
Water and Sediment %	2-	2-	2-	2-
Flash Point (Cleveland Open Cup) °F.	150+	200+	200+	250+
Furol Viscosity at 77° F.	20-150			
" " " 122° F.		200-320		
" " " 140° F.			150-300	350-550
Distillation, per cent by volume:				
Total Distillate to 437° F.		2-	2-	2-
" " " 600° F.		15-	10-	8-
" " " 680° F.		25-	20-	18-
Tests on Residue from Distillation:				
Float at 122° F.	50-	25+	25+	25+
Per cent Soluble in Carbon Disulphide	99.0+	99.0+	99.0+	99.0+

* Within the viscosity limits specified, the Pacific Coast Producers will, when required, furnish material with a maximum Furol Viscosity limit of 40 at 77° F., formerly designated 30-40 Road Oil.

Type S. C.-1

It provides for a product of very low viscosity suitable for cold application as a dust layer. It may also be used for initial treatments in the progressive method of mat construction on soils or fine grained aggregates where gradual improvement is to extend over a number of years with subsequent treatments employing more viscous asphaltic road materials. This product is not intended to serve as a hardening or cementing medium.

Application


Type S. C.-1A specification covers material formerly designated in the Pacific Coast territory as 50-60 road oil. It is a non-hardening liquid product of relatively low viscosity which should ordinarily be warmed slightly before application. It does not develop cementitiousness and is generally used for dust laying on traffic bound gravel or macadam roads.

It is used in the initial surface treatment of well-bonded surfaces, for the purpose of laying dust just prior to application of cementitious asphaltic products used in the construction of bituminous carpet costs.

Type S. C.-2

This specification covers material formerly designated in the Pacific Coast territory as 65 + Road Oil.

It provides for a very slow curing liquid product of low viscosity suitable for use in dry climates during cool



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weather in the construction of traffic compacted road-mix wearing courses in which the mineral aggregate is densely graded, from a maximum diameter of 1 inch down, with from 35 to 60 per cent of material passing a 10-mesh sieve and from 7 to 14 per cent passing a 200-mesh sieve. It should ordinarily be warmed before application. As it does not develop high cementitiousness, it cannot be expected to increase appreciably the stability of the aggregate.

This material may also be used in the blotter or mulch treatment of clay roads with a loose or floating cover of gravel aggregate.

Type S. C.-3

This specification covers material formerly designated in the Pacific Coast territory as 72 + Road Oil.

It provides for a very slow curing liquid product of medium viscosity suitable for use in dry climates during hot weather, in the construction of traffic compacted road-mix wearing courses in which the mineral aggregate is densely graded from a maximum diameter of 1 inch down, with from 35 to 60 per cent of material passing a 10-mesh sieve and up to 14 per cent passing a 200-mesh sieve. It requires warming before application. As this type of material does not develop high cementitiousness, it cannot be expected to increase appreciably the stability of the aggregate.

Type S. C.-4

This specification provides for a very slow curing liquid product of relatively high viscosity, suitable for use in dry climates in the construction of cold laid traffic compacted plant-mix wearing courses in which the mineral aggregate is densely graded from a maximum diameter of 1 inch down, with from 35 to 60 per cent of material passing a 10-mesh sieve and from 7 to 14 per cent passing a 200-mesh sieve. The asphaltic material and sometimes the aggregate require heating before mixing. As this material does not develop high cementitiousness, it cannot be expected to increase appreciably the stability of the aggregate.

Methods of Test

FLASH POINT—Open Tag. (Method Approved by the Bureau of Explosives.)

The Tagliabue open cup flash tester shall be used.

The instrument shall set firm and level.

Fill the metal bath cup with water at a temperature of at least 20 degrees F. below the probable flash point of the oil to be tested, leaving room for displacement by the glass oil cup, which is then placed in the bath.

Fill the glass oil cup with the oil to be tested to within $\frac{1}{8}$ inch of its upper level edge. See that there is no oil on the outside of the cup, or upon its upper level edge, using soft paper to clean the cup.

Adjust the horizontal flashing-taper guide-wire in place. Suspend the thermometer, with its bulb well covered by the oil. Heat bath with small flame lamp having the flame so adjusted that it will raise the temperature of the oil not faster than 2 degrees F. per minute, without removing the lamp during the whole operation.

For viscous liquids it is necessary that the liquid be stirred at intervals during the test.

Remove air bubbles, if any, from the surface of the oil before first trial for flash is made.

At the proper trial temperatures, noted below, try for flash with a small (not over $\frac{1}{8}$ inch) bead of flame by drawing it quickly and without pause across the guide wire from left to right.

The temperature at which the first or initial flash is obtained is called the flash point.

Trial temperatures: For materials which may be expected to flash at about 80 degree F. try for flash first at 70 degree F., then at 75, 77, 79, 81, 83 and 85 degrees. For other materials try flash first at a temperature about 20 degree F. below the expected flash point and then try for flash at every 5 degree F.

FLASH POINT (Cleveland Open Cup.) American Society for Testing Materials.—Standard Method D92-24.

FUROL VISCOSITY (Saybolt Furol.) American Society for Testing Materials.—Standard Method D88-30.

Distillation

American Society for Testing Materials.—Standard Method D20-30, with the following exceptions:

Sample distilled shall be 200 cubic centimeters, the weight of this volume to be calculated from the specific gravity at 60 degree F. Bulb of thermometer shall be immersed to a point one-fourth inch above bottom of flask. Condenser shall be water cooled. Distillate shall be collected in 100-cubic-cent. graduated glass cylinders and the amount of distillate shall be reported in percentages by volume of water-free material. Distillation shall be stopped at 680 degree F. and the amount of distillate read to the nearest cubic centimeter after the condenser has been allowed to drain thoroughly into the receiver. The total residue shall then be poured immediately into an 8-ounce tin and allowed to air cool without covering to a temperature below its fuming point suitable for pouring. It shall then be stirred and poured into proper receptacles for additional tests. Temperatures observed in the distillation test shall be corrected for the effect of the altitude of the laboratory in which the test is made. (See A. S. T. M. standard method D86-30.)

FLOAT TEST. American Society for Testing Materials.—Standard Method D139-27.

PENETRATION TEST. American Society for Testing Materials.—Standard Method D5-25.

DUCTILITY TEST. American Society for Testing Materials.—Tentative Standard Method D113-32T.

SOLUBILITY IN CARBON DISULPHIDE. American Society for Testing Materials.—Standard Method D4-27.

WATER AND SEDIMENT. American Society for Testing Materials.—Standard Method D96-30.

STEEL GUARD DESCRIBED—The Tuthill Highway Guard, recently announced by the Tuthill Spring Company, 760 Polk Street, Chicago, Illinois, is described in the new folder recently issued by that company.

Today with modern highways, higher powered automobiles and the public cry for more and more speed, the matter of protecting danger points has become a serious question. The old type wooden rail guard will no longer serve. It has become a menace rather than a safeguard to life and property.

Time after time we hear of wooden rails being driven clear through automobiles, impaling the driver or otherwise injuring the occupant. We hear of terrible disaster wrought by flying splinters or glass from the windshield.

This bulletin tells about a new type of road guard that is designed to deflect rather than to stop vehicles. A guard that sends cars on their way without damage to car or occupants.

A copy of this bulletin will be sent, gratis, upon request.

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(A non-profit, membership owned and operated association affiliated with the National Association of Credit Men)

333 MONTGOMERY STREET, SAN FRANCISCO

F. H. Eichler, Chairman

A. J. McGarry, Mgr.

THE CASH PREMIUM

THAT the cash premium provision in a sales contract, generally designated as the "cash discount," is really a "privilege," from the point of view of the buyer, is easily demonstrated by an examination of figures indicating the annual interest rates to which the usual cash premiums are equivalent. The following will serve as examples:

1/2	per cent	10 days net	30 days	9	per cent	per annum
1	per cent	10 days net	30 days	18	per cent	per annum
1 1/2	per cent	10 days net	30 days	27	per cent	per annum
2	per cent	10 days net	30 days	36	per cent	per annum
3	per cent	10 days net	30 days	54	per cent	per annum

In determining these interest equivalents, the intervening period in days between the optional dates of payment is divided into 360 days (the number of days generally figured in the banking year) and the quotient is multiplied by the rate of discount which applies.

The figures given above are based on the discounting of each bill within 10 days from date of invoice or actual shipment of the goods. The privilege becomes, of course, even more advantageous to the buyer if he is allowed to discount his entire purchase for the month on an end-of-month statement. Under this arrangement, the seller (in order to get statements out promptly) generally closes the business two working days before the end of the month. Shipments made on these two days are treated as part of the next month's business.

In return for this privilege, it is certainly reasonable for the seller to expect the buyer to live up to the terms of the contract and take only such discounts as are actually earned by prompt payment. Cash premium abuse has been, however, one of the worst and most persistent evils that credit executives in manufacturing and wholesaling concerns have had to face since American business began to develop a real credit technique.

This abuse has been vigorously fought by many local and national organizations. The National Association of Credit Men has discussed it frequently in regional conferences and national conventions. The National Wholesale Conference, sponsored by the Chamber of Commerce submitted as part of the report of Committee IV, which dealt with "credits, sales terms and collections:"

"The tendency toward the taking of unearned discounts is one of the serious credit problems wholesalers face. Only united effort will prove effective in defending the sanctity of the contract which exists when goods are sold on clearly stated terms of sale."

If the contract says "ten days," it should mean exactly that, and not fifteen, or twenty, or more. A difference of a day or two is, of course, not important enough to haggle over. Some concerns place a limit of thirteen days on a ten-day premium arrangement, either returning checks received thereafter for correction or writing a letter asking that the matter be properly adjusted. There is also a fairly general practice of giving a few days' extra leeway to buyers located at a considerable distance from the selling center, as, for example, Pacific Coast concerns making purchases from sellers in the East or Mid-west.



O. H. WALKER

Secretary-Manager of Credit Managers' Association
of Northern and Central California

Fortunately, in spite of the frequency with which the premium piracy racket is attempted, the number of buyers who are taking advantage of the premium privilege, and remitting promptly according to stipulated terms, is decidedly on the increase. This is noticeable even during the present business depression, and the reason for it is clear. The buyer has discovered that discounting is one of the most profitable of all of his business operations, and in "hard times" he wants more than ever to do whatever is profitable.

There are, as discriminating buyers well know, many advantages in discounting beside the high rate of interest earned. It reduces bookkeeping and correspondence. It contributes immeasurably to good-will between buyer and seller. It assures prompt attention to orders, with quick and careful shipping of goods. This should not be interpreted as indicating that sellers divide their customers arbitrarily into discounters and non-discounters, with one kind of goods and service for the former and another kind for the latter. But, human nature being what it is, the prompt payer cannot fail to have the advantage in the long run, because the seller will always go out of his way to help him in every possible contingency.

Most important of all discounting is the shortest and surest way to a sound credit standing. It speaks volumes in a credit interchange report or in a roundtable exchange of credit information. The seller is bound to have more than a passive perfunctory interest in his discounting customers. His attitude towards them is one of active, persistent cooperation. And this attitude is contagious. It spreads from one seller to another, sometimes directly and personally and sometimes anonymously, so to speak, through the impersonal interchange report. The effect on the buyer's credit reputation is tremendous, as his credit title is his one best bet. Without it he cannot possibly do business.

Engineering Council Holds Hoover Public Works Plan Aid to Economy

PRESIDENT Hoover's creation of a Division of Public Works will result in a new era of economy in government construction, further the relief of unemployment and improve the Federal administrative organization, the American Engineering Council declares in calling upon Congress and the nation to give unqualified support to the President's program.

The Council, representing 60,000 engineers in this country, asserted the engineering and allied technical professions were in favor of a Division of Public Works because they are convinced it would eliminate archaic practices and call a halt in the duplication of effort, equipment and personnel.

The Division was established in one of a series of Presidential executive orders, issued on December 9, to take effect after sixty days or on February 9, 1933, unless specifically rejected by Congress. The orders now are being studied by the Senate's Special Economy Committee, of which Senator Hiram Bingham of Connecticut is chairman, and the House Committee on Expenditures, of which Representative John J. Cochran of Missouri is the head.

The President designated the Division of Public Works as a part of the Department of the Interior, to be presided over by an under-secretary. Under his program, it would assume control of the office of the Supervising Architect, in charge of all Federal public building construction, now in the Treasury Department; all work on rivers and harbors, heretofore directed by the Engineering Corps of the Army, and the Bureau of Public Roads, at present a division of the Department of Agriculture.

The Council concurred in President Hoover's statement that "these orders constitute the necessary initial action in carrying out the policy which Congress has proclaimed in connection with the reorganization of the executive branch of the Federal government."

Hailing the Hoover plan as a definite reduction in the cost of government, the Council declared:

"The Veterans Administration has clearly shown that such results followed the regrouping of the Veterans Services, and it is reasonable and logical to assume that similar results will follow the establishment of the Division of Public Works.

"A coordination and correlation of the public works functions of the Federal government will result in a greater utilization of the best and latest technical knowledge and methods. Current developments could be more universally observed and applied than is possible under the present divided authority and responsibility.

"The concentration of field services offers a large area of opportunity for reducing expenses. Undoubtedly a major saving could be realized through reducing the number of offices and employees, the amount of travel and equipment required and general overhead expenditures."

Regarding unemployment relief, the Council had this to say:

"There has been a great deal of disappointment because Federal construction has not relieved unemployment to the degree anticipated. This situation has been thoroughly studied by the American Engineering Council and it is convinced that public works can never be made as effective a factor as they might be in the relief of unem-

ployment until there is established a Division of Public Works.

"The work is now so scattered and there is such divided responsibility that there is no means of adequately regimenting public works to be immediately effective in times of emergency. Under a central authority, public works can be made a potent influence in relieving unemployment."

A complete plan of control for the Division of Public Works is another point in the Council's list of recommendations regarding the Hoover plan.

"With a Division of Public Works cooperating with the Bureau of the Budget and the Federal Employment Stabilization Board," it was said, "there would result a complete coordination and correlation of the planning, timing and financing of public construction.

"This would result in major economies and at the same time make public construction fit more adequately and effectively into our national economy."

The Council warned that "there is now a tax revolt in the country" and that the citizens "are going to see to it that taxes are reduced and that government expenses decrease—which, if not done wisely and methodically will be done unwisely and peremptorily."

"The construction industry," the Council added, "is the one great industry of the country in which government—Federal, state, county and municipal—take a large part. For more than thirteen years, public works has never been below twenty per cent of the entire industry in any one year, has been as much as fifty per cent some years and has averaged thirty-eight per cent.

"Public works comprise all kinds of construction. It is well known that in our governmental agencies engineers have charge by and large of public works. Hence their obligation and duty to make themselves heard in no uncertain terms with respect to this question."

Taking up the possibility of resistance to the Hoover program, the Council commented:

"Self-preservation is said to be the first law of nature and no act of Congress or any other legislative body can change it. The general theory of efficiency and economy resulting from consolidation of public work functions can hardly be refuted by any one. They seem obvious.

"Their obviousness, however, does not look so good to the particular individual in a Federal bureau. He prefers for his bureau to be let alone where it is. It is believed that the principal resistance to the establishment of a Division of Public Works comes from the activity in Washington of Federal employees in the several bureaus whose status, if not their jobs, are always in jeopardy when such a consolidation is brought about."

LETOURNEAU EQUIPMENT SALES—New LeTourneau heavy grading equipment purchased within the past few weeks is now at work on or on the way to construction jobs from Washington to Arizona, with one shipment going to Mississippi, for use on new levees.

The Washington shipment consisted of two 7-yard scrapers with double power control units to be used on the Elliott & Co. contract, at Seattle. The L. E. Dixon Company in Arizona bought a second bulldozer and double power control unit and has ordered two LeTourneau rooters. They already are using one bulldozer bought some time ago.

Cloverdale-Hopland Relocation to Straighten 17-Mile Roadway

Although their contract does not call for completion of the work until the summer of 1933, Granfield, Farrar & Carlin, San Francisco, are already nearing completion of grading for the Cloverdale-Hopland relocation of the Redwood Highway.

This new construction, when bridges and paving have been completed, will eliminate the old "Cloverdale grade" which has slowed down traffic in this section for many years. The new road will eliminate three miles of distance in the 17-mile stretch and will substitute for the 276 curves of the old route, many of which were of less than 100 feet radius, 49 long easy ones, none having less than 1,000 feet radius.

Notable improvements in grade will also be attained. Except for one short stretch the new road will have no grades as steep as 6 percent; the old road has five miles of 7 per cent grade and an additional three and a half miles of 6 per cent grade. The total rise and fall is also reduced from 3670 feet to 1,000 feet.

Crossing the Russian river a short distance north of Cloverdale, the new route follows the eastern bank of that stream practically all the way to Hopland. It is the only stretch of the Redwood Highway which does approach this stream's course and the state, in order to provide space for campsites and recreation areas, has extended the right-of-way purchases to the river's edge wherever possible. Some of the country traversed is quite rugged and extremely beautiful, and it is expected that this will become one of the most popular parts of the state with outdoor recreationists.

The contract involved 1,250,000 yards of excavation and 5,496,825 station yards of overhaul. Owing to the necessity for locating the road on the eastern bank of the river a great many slides were encountered, as this region is one of volcanic overflow over the bedrock formation and in certain sections, where this overflow is a porous tufa nature, it becomes very unstable when wet.

However, as the eastern bank was already occupied by the Northwestern Pacific railroad, the engineers had no choice but to place the highway on the opposite one. This has necessitated the drainage or destruction of the collecting reservoirs above each slide, where water gathered and caused the soil to become unstable.

Of the many slides encountered, the worst was opposite Squaw Rock, a practically vertical cliff on the west bank of the river about halfway between Cloverdale and Hopland. Here a bridge spanning the slide area is to be built and the slide eventually sluiced down, if necessary.

As the relocation lies quite close to the river at many points along the route, much flood-protection work was necessary and was included as part of the grading contract. For this work rock was taken direct from the river bed. The usual method was to cut a construction road from grade down to the stream and then place a power shovel directly in the bed of the river where it could pick up the required rock. This was hauled to place in either trucks or LeTourneau dumpcarts which were backed down the construction road to within reach of the shovel.

The specifications called for placing this protective

rockwork in neat lines and for grouting where necessary, so that the roadway, when complete, will be well protected from damage due to flood waters.

As about 60 percent of the grading work was in rock, considerable quantities of explosives were used. In the grading power shovels, a LeTourneau roter and powder were used, according to circumstances, to break up the material to be removed and then either trucks, LeTourneau scrapers or LeTourneau carts used to haul it away. Bulldozers on Allis Chalmers tractors were used to spread the material dumped from carts, but the scrapers spread the spoil so that no further work was necessary except to compact it with a LeTourneau sheepfoot roller. The fills were further compacted by the passage over them of the heavy LeTourneau carts and their loads, sometimes as much as 15 yards, of dirt or rock.

The grade is being finished to a minimum width of 37 feet. It is to stand through the winter for settlement and to permit any further possible slides to develop under the influence of the winter rains.

Beside the elimination of curves, many of them extremely abrupt, and the levelling out of grades, the new road has a distinct safety advantage over the existing route in that it does not cross any summits where fog is prevalent. The present road traverses seven of these, all of which are frequently blanketed by fog in winter.

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Executive Office—995 Market St., San Francisco



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Some Phases of the 1932 Federal Income Tax Law

FRANK T. ANDREWS, *Certified Public Accountant; Associate Member, Associated General Contractors*

The following is the fourth of a series of eight articles outlining Income Tax Regulations of interest to every contractor.

THE taxation of sales or exchanges of capital assets is a matter of considerable importance to the contractor. Capital assets means, for income tax purposes, property held by an individual taxpayer or partnership for more than two years, but excluding property such as supplies or merchandise for sale, which should properly be included in an inventory at the end of a year. The principal capital assets held by contractors are machinery and equipment, real estate and stocks and bonds.

Upon the sale or exchange of capital assets the income tax regulations allow some concessions to individuals and impose some restrictions. The concessions and restrictions apply only to the method of taxation and not to the computation of gain or loss.

In view of the increased rates of taxation under the 1932 Act a great many individual taxpayers will pay a tax in excess of 12½% of their net income. It is to this particular class of taxpayers that the capital net gain or loss provisions apply.

If it appears that due to the sale of capital assets the tax computed at the ordinary rates is in excess of 12½% of the total net income, at the election of the taxpayer, the following method of computing the tax may be substituted: The total net taxable income should be reduced by the amount of the capital net gain and the tax should be figured upon the remaining ordinary net income. Then a separate tax must be computed upon the capital net gain at the rate of 12½%. This amount added to the tax upon the ordinary net income will give the total tax.

It must be understood that gains from sale or exchange of capital assets must be considered along with losses from these sources. Although the regulations offer to the taxpayer a concession by way of a 12½% tax limitation on capital net gains, it also imposes a restriction upon capital net losses.

Should the sale or exchange of capital assets, during the year, result in a loss, the taxpayer may not take advantage of the loss in computing his tax beyond 12½% of such loss. This rule is effective when the tax computed in the ordinary manner is in excess of 12½% of the net income excluding the capital net loss. For example: a married man having no dependents and receiving no dividends or exempt interest earns \$40,000 for the year. His earnings consist of \$45,000 from his ordinary contracting business and a loss of \$5,000 from the sale of equipment held for more than two years. The total tax on his net income, computed in the ordinary way, including the loss on equipment, would be \$5,800. This method of figuring the tax is not permitted. The loss on sale of capital assets of \$5,000 must be added back to the ordinary net income and a tax computed on \$45,000 which would amount to \$7,140. From this new tax figure is deducted 12½% of the capital net loss; i. e. 12½% of \$5,000 or \$625. The total tax payable would then be \$7,140 less \$625, or \$6,515, instead of the \$5,800 tax figured in the ordinary manner.

There has been a great deal of misunderstanding about the method of handling an exchange of old machinery or equipment for new machinery or equipment.

The income tax regulations ordinarily hold that upon an exchange of assets the fair market value of the asset exchanged compared with the value of the asset received shall be the basis for determining profit or loss. However, where assets are exchanged upon an equal basis for other assets of like kind, not including stock in trade or securities, no gain or loss is recognized.

The bookkeeping as well as the tax procedure, in some cases, involving exchange is particularly interesting. Let us say that a contractor owns a paver that costs \$10,000 and which had been depreciated to a book value of \$5,000. This contractor exchanges the old paver plus \$7,000 for a new one which has a market value of \$9,000. Since the old paver had a book value of \$5,000 and \$7,000 additional cash was paid for the new one, the sum of these two items is \$12,000. Since the new paver is only worth \$9,000, many contractors would take a loss on their books of \$3,000; the difference between old book value plus cash and value of the new paver. This loss of \$3,000 is not deductible for income tax purposes. The Revenue Bureau has held that in a case like the one just shown, the new equipment should be valued, for the purposes of future depreciation, at the remaining value of the old equipment plus the cash paid out, or \$12,000. Although it would not be good accounting to value the new equipment upon the books at any other figure than its cost, namely \$9,000, in these instances an entry may be made upon the books charging surplus or undivided profits with the \$3,000 loss not allowed, and crediting an account which may be termed "Reserve for Valuation of Machinery and Equipment" with the same amount. As the new paver is depreciated each year upon the books, the aliquot part of each year's depreciation attributable to the \$3,000 may be charged against the "Reserve" and credited back to surplus or undivided profits. In this way, when the fictitious value of the equipment has been fully depreciated, the "Reserve" account will also have been cleared from the books. The transfer from the "Reserve" account to surplus or undivided profits is not taxable.

In order to avoid all of this bookkeeping and income tax trouble, it is suggested that should a contractor desire to turn in old equipment for new equipment, an arrangement be made to sell the old and purchase the new. If this is done the transaction would be a "sale" and not an "exchange." This procedure will require the receipt of cash or a check for the old equipment and the payment in full for the new equipment.

In the case of an exchange, if the book value or depreciated value of the paver referred to were \$1,000, the cash paid out \$7,000 and the value of the new paver were \$9,000, the exchange would result in a taxable profit of \$1,000. In other words, this is another rule which, apparently, works one way only.

Mr. Andrews will gladly answer your income tax questions during the time these articles are appearing in the *Pacific Constructor*. Address your communications to F. T. ANDREWS & CO., Certified Public Accountants, Russ Building, San Francisco.

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

REINFORCED CONCRETE GIRDER BRIDGES--SAN DIEGO COUNTY

SAN DIEGO COUNTY, Cal.—M. H. Golden, 404 California Bank Building, San Diego, at \$44,242.75 submitted low bid Dec. 28 to the State Highway Commission, Sacramento, to construct in San Diego, two reinforced concrete girder bridges on concrete pile bents, one across Cudahy Channel, consisting of thirteen 30-ft. spans; and the other across Tecolet Creek, consisting of four 30-ft. spans, involving:
 (1) 4000 cu. yds. channel excav.;
 (2) 5600 lin. ft. reinf. conc. piles, Inc. test piles;
 (3) 1475 cu. yds. Class A Port. cement

concrete;
 (4) 41 cu. yds. Class E do;
 (5) 327,000 lbs. bar reinf. steel;
 (6) 2945 lbs. bronze expansion plates;
 (7) 1530 lin. ft. traffic stripe;
 (8) 1020 lin. ft. curb strip;
 (9) 1 lot misc. items of work.
 Complete bids follow:
 (A) M. H. Golden, San Diego, \$44,242.75.
 (B) B. O. Larsen, San Diego \$44,604.25
 (C) Walter Trepte, San Diego, \$45,369.00.
 (D) V. R. Dennis Const. Co., San Diego, \$47,037.50.

(E) Frank Doran, San Diego, \$47,414.60.
 (F) M. B. McGowan, San Francisco, \$47,441.00.
 (G) Bodenhamer Const. Co., Oakland, \$47,511.00.
 (H) Oberg Bros., Los Angeles, \$50,705.50.
 (I) W. E. Kier Const. Co., San Diego, \$54,426.15.
 (J) Dimmitt & Taylor, Los Angeles, \$55,428.00.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
(1).....	\$.325	\$.40	\$.30	\$.40	\$.38	\$.40	\$.25	\$.25	\$.35	\$.35
(2).....	2.13	1.75	2.50	1.65	2.20	1.50	2.25	2.05	2.10	2.15
(3).....	11.50	12.75	12.00	13.00	13.75	16.00	13.00	15.50	17.40	18.00
(4).....	45.00	45.00	40.00	60.00	50.00	30.00	45.00	50.00	55.00	55.00
(5).....	.029	.03	.03	.0325	.0295	.03	.035	.035	.032	.03
(6).....	.17	.30	.20	.20	.25	.20	.20	.30	.29	.30
(7).....	.12	.15	.05	.20	.20	.20	.10	.15	.17	.15
(8).....	1.00	1.50	.15	2.00	.23	1.50	.20	.25	1.40	1.50
(9).....	1050.00	200.00	200.00	1000.00	500.00	376.00	500.00	500.00	340.00	700.00

HAMILTON FIELD POST ROADS--GOV'T.—BIDS OPENED

SAN RAFAEL, Marin Co., Calif.—Hutchinson Co., 1450 Harrison Street, Oakland, at \$16,090 submitted low bid to Constructing Quartermaster, Hamilton Field (Marin Meadows Bombing Base) to construct post roads (North Oakwood, South Oakwood and Radio Road) at Hamilton Field, involving:
 (1) excav. earth, per cu. yd.;
 (2) excav., rock, per cu. yd.;
 (3) overhaul, per cu. yd.;
 (4) concrete, inc. forms, per cu. yd.;

(5) reinf. steel, per lb.;
 (6) corr. galv. iron drain pipe, per foot;
 (7) 12-in. do, per ft.;
 (8) terra cotta pipe, per ft.;
 (9) 12-in. do;
 (10) crushed rock or gravel, compacted, per cu. yd.;
 (11) catchbasin castings, per lb.;
 (12) asph. conc. pave., 2-course, per sq. yd.;

(13) oil treatment for gravel base, per sq. yd.;
 (14) concrete gutter, per lin. ft.
 Complete bids follow:
 (A) Hutchinson Co., Oakland, \$16,090.
 (B) Pacific States Const. Co., San Francisco, \$16,716.55.
 (C) V. Maggiora, Sausalito, \$18,211.
 (D) Highway Builders, San Anselmo, \$21,442.40.

Unit bids follow:

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
(A)	\$.40	\$.60	\$.005	\$16.00	\$.04	\$.90	\$1.35	\$.60	\$.90	\$2.10	\$.04	\$.40	\$.022	\$.42
(B) .....	.175	.45	.01	12.00	.045	.90	1.00	.55	.75	2.20	.04	.475	.016	.47
(C) .....	.25	1.75	.02	30.00	.05	1.50	1.90	1.00	1.75	3.25	.05	.63	.025	.50
(D) .....	.35	.50	.02	15.00	.035	1.12	1.25	.75	.90	3.31	.035	.526	.02	.60

LEAD-COVERED CABLE — LOS ANGELES

LOS ANGELES, Cal.—Bids for furnishing lead-covered cable under Spec. No. 2955 were received by City Purchasing Agent, A. J. Holm, Dec. 27. The items are:

- (1) 20,000 ft. 5-conductor, 19 strands, No. 22 A.W.G. insulated, lead-covered cable;
- (a) f.o.b. cars Davies Extension Spur, S. P. delivery, Los Angeles;
- (b) f.o.b. trucks, Dept. of Water and Power warehouse, 257 E 3rd St., Los Angeles;
- (c) f.o.b. cars bidder's factory with full freight allowed to L. A.;
- (d) f.o.b. cars bidder's factory with full freight allowed to L. A.;

(2) 11,000 ft. 9-conductor, 19 strands of No. 22 A.W.G. rubber insulated, lead-covered cable:
 (a) (b) (c) and (d) as above.

Bidders follow:
 (A) General Electric Company.
 (B) John A. Roebling Sons Co.
 (C) Simplex Wire Cable Co.*
 (D) General Cable Corp.
 (E) Columbia Steel Company.
 (F) Okonite Company.
 (G) Crescent Insulated Wire & Cable.
 (H) Anaconda Wire & Cable Co.
 (I) Graybar Electric Company.
 All terms 1/2 of 1%, 10 days.
 *Bid based on carload shipment.
 Unit bids follow:

	(1a)	(1b)	(1c)	(1d)	(2a)	(2b)	(2c)	(2d)
(A)	\$107.00	\$130.00	\$97.00	\$182.00	\$195.00	\$164.00		
(B)	145.00	123.80	123.80	108.00	216.80	192.15	192.15	172.50
(C)	99.00			95.40	165.00			159.50
(D)	105.05	104.15	104.15	94.70	171.02	169.14	169.14	154.63
(E)			115.45	93.85			182.95	152.75
(F)			108.50	97.00			169.00	153.50
(G)		118.00		103.00		179.00		158.00
(H)	97.20			87.77	151.55			137.09

MISCELLANEOUS CONSTRUCTION

Contract Awarded.
MAUSOLEUM Cost, \$15,000
 PALO ALTO, Santa Clara Co., Cal.
 Alta Mesa Memorial Park.
 One-story reinforced concrete mausoleum (60x80 ft.) to contain crematorium, columbarium and chapel, iron grilles doors, decorative tile, provision for 90 crypts.
 Owner—Alta Mesa Improvement Co., Palo Alto (Professor W. H. Sloan, Pres.), Stanford University, Palo Alto.
 Architect—Birge M. Clark, 310 University Ave., Palo Alto.
 Contractor—Carl Lindholm, Mountain View.

Plans Completed.
CREMATORIUM Cost, \$150,000
 VANCOUVER, Wash.—Evergreen Highway; 10-acre tract.
 Reinforced concrete crematorium (180 by 50).
 Owner—Columbia Memorial Co. (Mayor J. P. Higgins, vice-president).
 Architect—Day W. Hilborn, Vancouver.

GRADE SEPARATIONS—LOS ANGELES—BIDS OPENED

LOS ANGELES, Cal.—R. E. Campbell, Central Bldg., Los Angeles, submitted low bid to board of public works, Dec. 28, at \$209,960.01 (without structural steel and ornamental lighting system, and based on the lowest possible combination of alternatives) for the construction of the Sunset Blvd. and Silver Lake Blvd. and the Silver Lake Blvd. and Temple Street Grade Separations, under cash contract.

Consolidated Steel Corp., 6500 East Slauson Ave., Los Angeles, was the lowest bidder on structural steel at \$53,400. This figure was a combination of \$20,323 on Unit No. 2, \$33,458 on Unit No. 4, less a deduction of \$381 for combined award.

W. H. Rumble, 6507 Haas Ave., submitted low bid on the ornamental lighting system (Unit No. 5) at \$28,980. See note below in connection with H. H. Walker, Inc. bid, which offers to substitute Lalux for Marbelite, deducting \$6000, making a total of \$27,000.

The total of the bids, using the lowest possible combinations, amounts to \$292,340.01.

For further details of the various combinations, refer to the tabulations printed below.

The items bid on are as follows:

Separation, complete in place, except structural steel:

- (1) reinf. steel, lump sum;
- (2) 2300 cu. yds. Class F concrete;
- (3) 100 cu. yds. Class G concrete;
- (4) reinf. conc. piles, lump sum;
 - (a) pre-cast;
 - (b) cast in place;
- (5) grading, lump sum;
- (6) pavements, lump sum;
- (7) 1338 lin. ft. curb;
- (8) 850 sq. ft. concrete gutter;
- (9) 9050 sq. ft. cement walk;
- (10) sanitary sewer, lump sum;
- (11) storm drains, lump sum;
- (12) brickwork, lump sum;
- (13) ornamental iron railings, lump sum;
- (14) lighting system, lump sum.

Unit II—Structural steel in Sunset Blvd. and Silver Lake Blvd. Grade Separation, complete in place, lump sum.

Unit III—Silver Lake Boulevard and Temple St. Grade Separation, complete in place, except struc. steel:

	(A)	(B)	(C)	(D)	(E)	(F)
(1)	\$12,505.00	\$12,400.00	\$13,075.00	\$14,292.00	\$13,710.00	\$17,683.00
(2)	15.75	15.00	16.60	20.42	17.94	14.68
(3)	14.00	6.30	9.45	6.76	15.26	8.00
(4a)	44,000.00	38,000.00	37,170.00	35,502.00	40,375.60	44,232.00
(4b)	38,465.00	41,000.00	37,065.00	34,969.00	38,880.00	44,232.00
(5)	11,910.00	12,000.00	9,450.00	12,210.16	14,638.00	6,465.00
(6)	6,335.00	6,600.00	6,976.00	5,500.00	8,531.60	5,558.00
(7)	.42	.50	.45	.40	.45	.41

UNIT NO. 1

(8)	.20	.25	.20	.20	.25	.20
(9)	.10	.15	.125	.12	.12	.12
(10)	1,074.00	1,100.00	1,105.00	1,200.00	1,182.00	893.00
(11)	1,028.00	1,400.00	1,400.00	1,500.00	954.00	1,250.00
(12a)	1,400.00	2,500.00	2,475.00	3,209.00	3,082.00	2,728.00
(12b)	1,300.00	2,400.00	2,390.00	3,134.00	2,997.00	3,028.00
(13)	1,727.00	2,800.00	2,415.00	2,918.00	2,867.00	2,355.00
(14)	1,066.00	500.00	570.00	890.00	690.00	616.00

UNIT No. 3

(1)	8,207.00	8,000.00	8,650.00	9,370.00	9,017.00	10,648.00
(2)	14.75	15.35	18.70	16.87	17.94	17.08
(3)	13.00	6.30	9.45	6.76	15.26	8.00
(4a)	42,800.00	37,000.00	37,375.00	36,472.00	39,329.60	43,766.00
(4b)	38,714.00	39,000.00	37,270.00	35,195.00	37,695.00	43,766.00
(5)	11,560.00	8,300.00	6,750.00	11,393.05	19,911.00	5,960.00
(6)	3,353.00	4,500.00	4,193.00	3,850.00	4,539.76	3,779.00
(7)	.42	.50	.55	.65	.45	.60
(8)	.10	.15	.11	.12	.12	.12
(9)	1,244.00	2,000.00	1,155.00	1,975.00	1,748.00	1,831.00
(10)	797.00	1,200.00	1,100.00	1,419.00	1,846.00	807.00
(11)	881.00	1,000.00	1,210.00	1,592.00	1,486.00	784.00
(12)	630.00	625.00	390.00	650.00	562.00	422.00

- (2) 2015 cu. yds. Class F concrete;
- (3) 100 cu. yds. Class G concrete;
- (4) reinf. conc. piles, lump sum;
 - (a) pre-cast;
 - (b) cast in place;
- (5) grading, lump sum;
- (6) pavements, lump sum;
- (7) 690 lin. ft. curb;
- (8) 5912 sq. ft. cement walk;
- (9) sanitary sewers, lump sum.
- (10) ornamental conc. handrails and pylons, lump sum;
- (11) orn. iron railings, lump sum;
- (12) lighting system, lump sum.

Unit IV—Structural steel in Silver Lake Blvd. and Temple St. Grade Separation, complete in place, lump sum.

Unit V—Ornamental street lighting system in Silver Lake Blvd. between Glendale Blvd. and Virgil Ave. and in West Silver Lake Drive bet. Blamer Drive and Silver Lake Blvd.

Unit VI—Deduction, lump sum, if Units I and II are awarded in one contract.

Unit VII—Deduction, lump sum, if Units III and IV are awarded in one contract.

Unit VIII—Deduction, lump sum, if Units I and III are awarded in one contract.

Unit IX—Deduction, lump sum, if Units II and IV are awarded in one contract.

Unit X—Deduction, lump sum, if Units I, II, III and IV are awarded in one contract.

Unit XI—Deduction, lump sum, if Units I, II, III, IV and V are awarded in one contract.

The proposed structures will be of the steel deck girder span type. One structure which will be built at Sunset Blvd. will consist of an 85-ft. span 100 ft. wide, the other will carry Silver Lake Blvd. under Temple Street and will be 80 ft. in width with a 100-ft. span. Ornamental lighting system in Silver Lake Blvd. bet. Glendale Blvd. and Virgil Ave. will involve 135 Marbelite standards. The estimated cost of the project is \$350,000.

The unit prices, with bidders designated by letters, follow:

- (A) R. E. Campbell,
- (B) Oberg Brothers,
- (C) J. E. Haddock, Inc.
- (D) P. J. Akmadzich,
- (E) Artukovich Brothers,
- (F) Engineer's estimate.

PIPE LINES, WELLS, ETC.

SEATTLE, Wash.—Thomas Scalzo, 50th SW and W Stevens, Seattle, at \$217,631 awarded contract by the city council to construct 45,000 ft. 17th Ave. NE pipe line, using electric welded steel pipe. L. Coluccio, Ellensburg at \$170,051, submitted low bid for wood stave pipe. Complete bids on welded steel pipe follow:

Thomas Scalzo	\$217,631
Bayley Hipkins	223,431
Felix Arcorace	224,025
P. N. Badolato Co.	225,113
Lawlor Woodward	229,052
Puget Sound E. & D. Co.	231,817
L. Coluccio	234,086
General Const. Co.	243,277
Seattle Boiler Works	249,138
L. Romano Eng. Co.	249,599
Teufel & Carlson Co.	251,848
Mocerri Brothers	270,110

VENTURA, Cal.—Lyon Bros., 1363 Carmona St., Los Angeles, submitted low bid to City Council Dec. 27, at \$5363.93 for drilling a 20-in. water well on property located on Front St. between Figueroa and Walnut Sts. The proposed well will require a 22-ft. starter with 16-in. casing, and will be drilled to a depth of approximately 300 feet. The well will be designed to accommodate an 18-in. deep well pump. The other bids are:

Rosece Moss Co., \$5963.95; alternate \$5439.

W. A. Hood, \$6020, alternate \$6065.

Saunders Bros., \$6214.08.

Barber & Bridge Drilling Corp., \$6470.55, alternate \$6214.08.

Newton Palm, \$6863.97.

Western Pipe & Steel Co. submitted a bid of \$3976.55 for materials only. All bids were taken under advisement.

MODESTO, Stanislaus Co., Calif.—Osterberg Bros., Route 4, Box 738, Modesto, at \$865.10 submitted low bid to city council to drill water well, furnish and install casing, sand pumping and developing said well, involving:

- (1) drill 14-in. well, first 50 ft.;
- (2) do, second 50 ft.;
- (3) do, third 50 ft.;
- (4) do, fourth 50 ft.;
- (5) do, next 25 ft. or fraction thereof;
- (6) furnish and drive 14-in., 14-ga., 24.1 double casing;
- (7) furnish and drive special 12-inch perf. casing;
- (8) 1 14x6x3/4-in. steel driving shoe;
- (9) sand pump and develop well (per hour).

Complete bids follow:

(A) Osterberg Bros., Modesto...\$865.10

(B) O. K. Pemberton, Linden... 960.65

	(A)	(B)
(1)	\$ 1.00	\$ 1.50
(2)	1.50	1.50
(3)	2.00	1.50
(4)	2.50	1.50
(5)	3.00	1.50
(6)	1.94	1.69
(7)	4.67	4.95
(8)	18.00	20.70
(9)	2.50	2.50

WATERWORKS

LOS ANGELES, Cal.—General Elec. Supply Corp. awarded contract by the City Purchasing Agent, A. J. Holm, at \$75,000 (estimated amount) for furnishing fibre conduit and fittings under Spec. No. 2960.

RIO VISTA, Solano Co., Cal.—Pacific Coast Engr. Co., foot of 14th St., Oakland, at \$6817.50 submitted low bid to U. S. Engineer Office, Sacramento, to furnish 270 lengths shore

pipe in 16-ft. lengths. Complete unit and total bids follow:

Pacific Coast Engr. Co., \$25.25; \$6.-\$17.50.

California Steel Products Co., San Francisco, \$25.83; \$6974.10.

Steel Tank & Pipe Co., Oakland, \$27.50; \$7425.00.

Western Pipe & Steel Co. San Francisco, \$31.04; \$8380.80.

Montague Pipe & Steel Co., S. F., \$31.30; \$8424.00.

Bids held under advisement.

LOS ANGELES, Cal.—Bids for furnishing about 180 miles of 5-in., 6-in., and 8 in. light weight O. D. steel gas line pipe for the construction of a water supply system of the Colorado River Aqueduct, were opened by the Metropolitan Water District Dec. 27. Bids were taken as follows:

The items are:

- (1) 20,000 ft. 8-in. plain end pipe, weighing 18.23 lbs. per ft.;
- (2) 43,000 ft. 8-in. plain end pipe, weighing 13.23 lbs. per ft.;
- (3) 23,000 ft. 6-in. plain end pipe, weighing 14.64 lbs. per ft.;
- (4) 249,000 ft. 6-in. plain end pipe, weighing 8.76 lbs. per ft.;
- (5) 619,000 ft. 5-in. plain end pipe, weighing 6.96 lbs. per ft.

Delivery shall be as follows:

Delivery of the following lot of pipe shall be commenced within five days after receipt of the District's order and shall be completed within forty days thereafter provided that the shipment shall be not less than 150 tons net week at any time, and that all six-inch pipe of 8.76 lbs. per foot shall be shipped first. It is further provided, however, that in the event the manufacturer's plant is located within 600 miles of Garnet, California, delivery of the following quantities shall be commenced within twenty-one days after receipt of the order and shall be completed within fifty days after receipt of such order.

85,000 feet of 5-inch—6.96 lbs per linear foot.

70,000 feet of 6-inch—8.76 lbs; per linear foot.

20,000 feet of 6-inch—14.64 lbs. per linear foot.

17,000 feet of 8-inch—13.23 lbs. per linear foot.

20,000 feet of 8-inch—18.23 lbs. per linear foot.

Delivery of the remaining quantity required by the Bidding Schedule shall be as required by the District at any time within eighteen months after receipt of the order provided that such remaining shall be ordered in lots of approximately 500 tons each and that for each such lot the delivery time shall be the same as required for the schedule herein above mentioned.

As an alternative to a portion of the foregoing material, bids were also taken on 85,000 lin. ft. or less of used rotary drill pipe of approximately 5.5 inches outside diameter and for 90,000 lin. ft. or less of used rotary drill pipe of approximately 6.6 inches outside diameter.

Unless otherwise noted, prices are f.o.b. cars at manufacturer's plant.

The bids were:

Hillman-Kelly, Inc.—lap welded—(1) \$.4914 ft., (2) \$.3364 ft., (3) \$.3504 ft., (4) \$.2262 ft., (5) \$.1794 ft Total, \$200,584, net. Will protect district on prices.

Duncommun Corp.—elec. resist weld pipe—52 to 42 ft. lengths—(1) \$49.14 per C ft., (2) \$35.64, (3) \$35.04, (4) \$22.62, (5) \$17.94. Total, \$200,584.80, net. Alt. (1) 19,569 lbs. per ft., 48.75c ft. Will protect district on prices.

California Hardware Co.—f.o.b. manufacturer's plant—lap welded pipe—

			UNIT NO. 5		
(1)	37,293.00		31,000.00		35,311.00
			UNIT NO. 8		
(1)	2,000.00		1,750.00	5,000.00	5,500.00
			Unit No. II—Engineer's estimate (1) \$18,172.00.		
			Unit No. IV—Engineer's estimate, (1) \$33,047.00.		
			No bids on Units VI, VII, IX, X, and XI.		

The bids on the lighting system were:

W. H. Rumble—Unit No. 5, \$28,980; Pual Constr. Co., \$30,864; H. H. Walker, Inc., \$33,000. (If Lalux may be used in lieu of Marbelite, deduct \$6000).

Conduit Constr. Co., \$30,843; Newbey Electric Corp., \$30,888; Engineer's estimate, \$35,311.

The bids on the structural steel were:

Consolidated Steel Corp.—Unit No. 2, \$20,335, Unit No. 4, \$32,458. Minneapolis Moline Power Implementation Co.—No. 2, \$21,243, No. 4, \$34,870. McClinton-Marshall Co.—No. 2, \$20,660 No. 4, \$34,185.

Engineer's estimate—No. 2, \$18,172; No. 4, \$32,047.

For the benefit of comparison, the totals, with the various combinations

are shown below as follows:

- (1) Precast piles and aluminum plaques;
- (2) Precast piles and terra cotta plaques;
- (3) Cast in place piles and aluminum plaques;
- (4) Cast in place and terra cotta plaques;
- (5) Precast piles;
- (6) Cast in place piles;
- (7) Precast piles and alum. plaques;
- (8) Deduction for combination;
- (9) Precast piles and terra cotta plaques;
- (10) Deduct for combination;
- (11) Cast in place piles and aluminum plaques;
- (12) Deduct for combination;
- (13) Cast in place piles and terra cotta plaques;
- (14) Deduct for combination.

	(A)	(B)	(C)	(D)	(E)
(1)	\$120,206.96	\$114,669.09	\$115,664.35	\$126,654.26	\$130,718.89
(2)	120,706.96	114,569.00	115,579.35	126,579.36	130,633.80
(3)	114,771.96	117,669.00	115,559.35	126,121.36	129,223.20
(4)	114,671.96	117,569.09	115,474.35	126,046.36	129,138.20
			UNIT NO. III		
(5)	101,374.05	95,416.75	100,478.16	102,547.80	117,134.16
(6)	97,288.05	97,416.75	100,373.10	101,270.80	115,499.56
			UNIT NO. VIII (Single Contract for I and III)		
(7)	221,581.01	210,085.75	216,142.45	229,202.16	247,852.96
(8)	2,000.00		1,750.00	5,000.00	5,500.00
Net	219,581.01	210,085.75	214,392.45	224,202.16	242,352.96
(9)	221,581.01	209,985.75	216,057.45	229,127.16	247,767.96
(10)	2,000.00		1,750.00	5,000.00	5,500.00
Net	219,581.00	209,985.75	214,367.45	224,127.16	242,267.96
(11)	212,066.61	215,085.75	215,932.45	227,356.16	244,722.76
(12)	2,000.00		1,750.00	5,000.00	5,500.00
Net	216,066.61	215,085.75	214,824.52	222,356.16	239,222.76
(13)	211,960.00	214,985.75	215,847.45	227,317.16	214,637.76
(14)	2,000.00		1,750.00	5,000.00	5,500.00
Net	209,960.01	214,985.75	214,097.45	222,317.16	239,137.76

SAN GABRIEL RIVER BRIDGE—L. A. COUNTY

LOS ANGELES, Cal.—E. S. McKittrick Co., Inc., and J. E. Burrell, 5905 Pacific Blvd., Huntington Park, submitted low bid to county supervisors December 19, at \$26,702, for the construction of a concrete bridge across San Gabriel river at Second St. in Long Beach, involving:

- (1) 12,000 cu. yds. excavation;
- (2) 1750 tons furnishing and placing rock rip-rap;
- (3) 6720 lin. ft. furnishing and driving pre-cast concrete piles;
- (4) 26 M.B.M. placing deck lumber;
- (5) 600 cu. yds. placing class A concrete;
- (6) 50 cu. yds. placing class B coner.;
- (7) 19,100 sq. ft. placing asphalt concrete wearing surface, including furnishing of all materials;
- (8) 27 M.B.M. placing Wakefield sheet piling.

The proposed bridge will be 390 ft. long, with a 50-ft. roadway and two 6-ft. walks. The super-structure will rest upon 14 pile bents. E. C. Eaton, 202 N. Broadway, County Flood Control Engineer.

Complete bids follow:

- (A) E. S. McKittrick Co. and J. E. Burrell\$26,702.00
- (B) Contracting Engrs., Inc. 30,015.50
- (C) John Strona 30,329.30
- (D) R. H. Travers 30,596.10
- (E) R. R. Bishop 31,116.00
- (F) C. W. Pettifer Co. 32,183.50
- (G) Merritt, Chapman, Scott 32,763.40
- (H) Lynch-Cannon Eng. Co... 34,310.00
- (I) M. Baruch Corp., Robinson-Roberts Co. 34,519.50
- (J) Clark & Campbell..... 35,739.00

Unit bids follow:

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A)	\$.22	\$2.08	\$1.20	\$ 6.90	\$11.50	\$34.50	\$.069	\$ 23.00
(B)	.298	1.50	1.30	17.00	10.60	40.00	.085	25.00
(C)	.19	1.49	1.79	6.40	12.67	27.58	.07	53.00
(D)	.032	1.95	1.90	7.00	9.25	20.00	.066	35.00
(E)	.30	1.80	1.70	7.00	11.40	40.00	.07	35.00
(F)	.20	1.60	1.80	9.50	13.50	28.00	.075	55.00
(G)	.23	1.38	1.47	11.60	13.64	65.00	.10	50.00
(H)	.25	1.50	1.25	13.00	20.00	25.00	.05	100.00
(I)	.25	1.95	1.40	14.00	14.70	50.00	.09	70.00
(J)	.40	1.50	1.60	13.00	17.50	35.00	.07	85.00

HOSPITAL BUILDINGS—FORT MILEY—GOVT. WORK

WASHINGTON, D. C.—Following is a complete list of the bids received by Veterans' Administration, Washington, D. C., for the construction of a six-story reinforced concrete hospital to contain 300 beds; a 3-story concrete administration bldg., nurses' home, garage, storehouse, laundry, etc. at Fort Miley, San Francisco.

General Work

- (a)* K. E. Parker, S. F. \$815,000
- (b) H. M. Baruch Corp., L. A. 843,660
- (c) Robt. E. McKee, L. A. 862,900
- (d) Dinwiddie Const. Co., S. F. 883,600
- (e) Anderson & Ringrose, S. F. 884,000
- (f) MacDonald & Kahn, S. F. 889,988
- (g) Walsh Const. Co., Davenport, Iowa 895,000
- (h) Clinton Const. Co., S. F. 913,000
- (la) Officers' duplex quarters, Bldg. 9;
- (lb) do, Bldg. No. 10;
- (lc) Managers' residence, Bldg. No. 11
- (ld) Garage and attendants' Bldg. No. 12;
- (le) Storehouse, Bldg. No. 14;
- (lf) Revision officers' apt. bldg.;
- (lg) do officers quarters bldgs.;
- (lh) compressed asphalt tile;
- (ha) deduct from general construction price;

- (hb) deduct from Item (ld);
- (li) fluted concrete panels;
- (lj) steel casement windows;
- (lk) colored Keene's cement;
- (ka) deduct from general construction price;
- (kb) deduct from Item (la);
- (kc) deduct from (lb);
- (kd) deduct from Item (lc);
- (ke) deduct from Item (ld);
- (li) moving, etc. existing bldg., No. 4A;
- (lm) steel frame screens;
- (ma) deduct from general construction price;
- (mb) deduct from Item (la);
- (mc) deduct from Item (lb);
- (md) deduct from Item (lc);
- (me) deduct from Item (ld);
- (in) steel frame screens with (lj);
- (lo) bronze or al. frame screens;
- (oa) deduct from general construction price;
- (ob) deduct from Item (la);
- (oc) deduct from Item (lb);
- (od) deduct from Item (lc);
- (oe) deduct from Item (ld);
- (ip) bronze or al. frame screens with Item (lj);

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
(la)	\$11,000	\$13,700	\$15,200	\$16,800	\$17,000	\$16,750	\$17,200	\$16,400
(lb)	11,000	13,700	15,200	16,800		17,170	17,200	16,500
(lc)	9,500	10,410	11,800	13,200		12,500	13,700	11,600
(ld)	22,000	21,500	24,000	27,560		25,500	21,300	24,800
(le)	16,000	18,800	21,300	20,350		24,200	21,800	21,000
(lf)	2,000	9,800	10,700	12,680		19,250	15,200	12,300
(lg)	12,000	23,000	38,700	49,960		60,000	50,000	30,500
(ha)	2,000	1,000 no ch'ge		2,870	1,000	1,200	500	1,200
(hb)	1,000	100				200	100	
(li)	2,000	12,900	24,000	2,300	23,000	30,000	2,150	23,000
(lj)	1,000	11,000	16,000	4,700	4,000	20,000	6,000	19,000
(ka)	2,000	4,000	2,600	3,000	25,000	6,000	3,000	2,400
(kb)	200	100	100	100		100	40	
(kc)	200	100	100	100		100	40	
(kd)	200	50	60	100		60	15	
(ke)	400	100	150	100		150	20	
(li)	250	1,500	2,500	3,500	2,000	150	2,100	2,000
(ma)	300	500	600	270	350	5	3,200	400
(mb)	50		100	100		8	35	
(mc)	50	100	100	100		5	35	
(md)	50	100	50	100		25	24	
(me)	100	100	80	100			7	
(ln)	1,000	5,500	800	550	400	82	4,000	
(oa)	1,500		3,500	3,600	4,500	2,600	900	34,000
(ob)	50	5,000 no ch'ge		100		65	15	
(oc)	50	100	200	100		49	15	
(od)	50	100	100	100		36	15	
(oc)	100	100 no ch'ge		100		4	20	
(ip)	1,000	500	500	2,400	3,500	3,225	2,000	28,000

PLUMBING, HEATING, ELECTRIC

- (2a) Officers' Duplex Quarters Bldg. No. 9;
- (2b) Officers' Duplex Quarters, Bldg. No. 10;
- (2c) Manager's Residence, Bldg. No. 11
- (2d) Garage and Attendants' Bldg. No. 12;
- (2e) Storehouse Bldg. No. 14;
- (2f) Officers' Apartment Building, existing No. A23-24;
- (2-g) Relocate Officers' Quarters buildings;
- (2-h) Plumbing if (li) is accepted;
- (A) Bryce Plumbing & Heating Co., Florence, So. Carolina. \$227,950
- (B) C. A. Hooper Co., Madison, Wisconsin 236,800
- ((C) Alta Electric & Mechanical

- Co., San Francisco. 238,900
- (D) Butte Electric & Equipment Co., San Francisco. 249,455
- (E) A. H. Walsh Co., Salt Lake City 251,000
- (F) Lohman Bros., L. A. 251,500
- (G) Redmon Heating Co., Louisville, Ky. 252,923
- (H) E. J. Young, Chicago 253,700
- (I) F. W. Snook Co., S. F. 255,213
- (J) Herman Lawson Co., S. F. 256,000
- (K) Mechanical Contracting Co., San Francisco 269,400
- (L) Anderson & Rowe, S. F. 266,870
- (M) J. A. Nelson, Inc., S. F. 274,177
- (N) Scott Co., San Francisco. 277,777
- (O) Howe Bros., Los Angeles. 279,100
- (P) J. H. Pinkerton Co., S. F. 294,312

	(2)	(2a)	(2b)	(2c)	(2d)	(2e)	(2f)	(2g)	(2h)
(a)	\$227,950	\$3983	\$5840	\$3381	\$4923	\$3100	\$5683	\$16,479	\$411
(b)	236,800	3650	5000	3200	4800	2900	5500	14,000	140
(c)	238,900	3180	4480	3080	4380	2480	5680	15,900	450
(d)	249,455	2803	5390	3760	5503	3088	5218	16,366	256
(e)	251,000	3420	4505	2897	5280	2590	4870	14,115	180
(f)	251,500	3540	3910	3130	4468	2832	5240	15,018	245
(g)	252,923	3545	5170	3000	4665	3090	4850	12,575	300
(h)	253,700	3750	4400	3300	4950	2800	5400	14,500	400
(i)	255,213	4000	5300	3344	5310	3600	5300	15,780	
(j)	256,000	3523	5012	3200	5700	3100	5300	15,250	300
(k)	269,400	3800	5500	3460	5040	3260	6240	13,600	360
(l)	266,870	3527	5026	3251	5217	3045	4945	16,274	347

(1) 49.14c, (2) 35.64c, (3) 35.04c, (4) 22.62c, (5) 17.94c. Total, \$200,584.50, net. Will protect district on prices.

Whiting-Mead Co.—lap welded pipe—30 to 38 ft. lengths—(1) \$49.14 per c ft., (2) \$35.64, (3) \$35.04, (4) \$22.62, (5) \$17.94. Total, \$200,584.50, net. Will protect district on prices. Alternate—(1) 19.569 lbs. per ft., \$48.75 net per c ft. Will protect district on prices.

Republic Steel Corp.—elec. resist welded pipe—32 to 42 ft. lengths—(1) 49.14c, (2) 35.64c, (3) 35.04c, (4) 22.62c, (5) 17.94c. Total, \$200,584.50 net. Alt., (1) 19.569 lbs. per ft., \$48.75c ft. Will protect district on prices.

Columbia Steel Co.—lap welded pipe—30 to 38 ft. lengths—(1) \$49.14 per c ft., (2) \$35.64, (3) \$35.04, (4) \$22.62, (5) \$17.94, f. o. b. Pittsburgh. Total, \$200,584.50, net. Alternate bids, (1) 18.28 lbs. seamless f.o.b. Pittsburgh, \$51.87 per c ft.; f.o.b. Chicago, \$55.51; 15.414 lbs. per ft. Pittsburgh \$43.39 f. o. b. Chicago \$46.97; 19.56 lbs. per ft. lap welded Pittsburgh, \$48.75; f.o.b. Chicago, \$52.65; 8-in., 19.56 lbs. per ft. seamless Pittsburgh \$51.67, Chicago \$55.57; 8.58 in. 18.25 lbs. per ft. seamless; Pittsburgh \$51.87, Chicago \$55.51; 8-in. 13.23 lbs. per ft. seamless Pittsburgh \$37.62, Chicago \$40.26. Alt. item (2): 6-in. 14.64 lbs. per ft. seamless Pittsburgh \$37.23, Chicago \$40.15; 6-in. 9.75 lbs. per ft. lap welded Pittsburgh \$25.22, Chicago \$27.16; 6-in. 9.75 lbs. per ft. seamless, Pittsburgh \$26.67, Chicago \$28.61; 6-in. 11.63 lbs. per ft. lap welded, Pittsburgh \$30.16, Chicago \$22.45; 11.63 lbs. per ft. seamless Pittsburgh \$31.90, Chicago \$34.22; 6-in., 13.5 lbs. per ft. lap welded Pittsburgh \$32.40, Chicago \$35.10; 6-in., 13.50 lbs. per ft. seamless Pittsburgh \$34.42, Chicago \$37.12. Alt. item (4): 8.76 lbs. per ft., Pittsburgh \$23.92, Chicago \$25.66. Alt. to No. (5): 6.96 lbs. per ft. seamless Pittsburgh \$18.97, Chicago \$20.35; lap weld: Pittsburgh \$19.48, Chicago \$19.32. Will protect district on prices but reduction applies only on material unshipped.

Pacific Southwest Pipe Co.—lap weld—30-38 ft. lengths—(1) \$49.14, (2) \$35.64, (3) \$35.04, (4) \$22.62, (5) \$17.94; total, \$200,584.50, net. Will protect district on prices. Prices are f.o.b. Youngstown, all rail. If rail and ocean via Panama, allow 3c cwt. on freight.

Pacific Coast Steel Co.—lap weld—30 to 38 ft. lengths—(1) \$54.41, (2) \$39.46, (3) \$39.27, (4) \$25.14, (5) \$19.94; total, \$222,999.10, net. Will protect district on prices. Prices f.o.b. Sparrows Point, Maryland.

Republic Supply Co.—lap weld—30 to 38 ft.—(1) 49.14c, (2) 35.64c, (3) 35.04c, (4) 22.62c, (5) 17.94c; total, \$200,584.50, net; all rail shipment. Alternate, if shipped by rail and ocean—(1) 48.59c, (2) 35.24c, (3) 34.61c, (4) 22.36c, (5) 17.73c. Will NOT protect district on prices.

California Pipe & Supply Co.—(Youngstown Steel Products construction pipe)—lap weld—30 to 38-ft. or over—(1) \$49.14, (2) \$35.64, (3) \$35.04, (4) \$22.62, (5) \$17.94; total, \$200,584.50 net. Will protect district on prices.

Acker Pipe & Supply Co.—lap weld—30 to 40-ft. lengths—(1) 49.14c, (2) 35.64c, (3) 35.04c, (4) 22.62c, (5) 17.94c; total, \$200,584.50, net. F. o. b. Pittsburgh. Will protect the district as to prices, but not as to unshipped material.

Smith Booth Usher Co.—lap weld—30 to 38 ft.—(1) \$51.41, (2) \$39.46, (3) \$39.27, (4) \$25.14, (5) \$19.94; total, \$222,999.10, net. Will protect district as to prices.

Naylor Pipe Co.—spiral weld—28 ft. lengths—(1) 13.8 lbs. ft., 46.09c ft., (2) 12 lbs. per ft., 42.6c ft., (3) 10.35 lbs.

ptr ft., 46.9c ft., (4) 95 lbs. per ft., 34.8c ft., (5) 7.2 lbs. per ft., 29.2c ft.; total, \$306,315, net. Alternate: (1) 13.8 lbs. ft., 46.9c, (2) 12 lbs. ft., 43.6c ft., (3) 1.5 lbs. ft. 34.8c ft., (4) 6.8 lbs. ft., 29c ft., (5) 7.2 lbs. ft., 29.2c ft.; total, \$289,090, net. Will protect district as to prices.

Petroleum Equipment Co.—lap weld—30 to 38-ft. lengths—(1) 49.14c, (2) 35.64c, (3) 25.64c, (4) 22.62c, (5) 17.94c; total, \$200,584.80, net. Will protect district as to prices.

Grimmell Co.—lap weld—30 to 38-ft. lengths—(1) 49.14c, (2) 35.64c, (3) 25.64c, (4) 22.62c ft., (5) 17.94c; total, \$200,584.80, net. F. o. b. Pittsburgh. Will protect district as to prices.

Jones-Laughlin Steel Corp.—lap weld—buyer's choice of lengths—(1) 49.14c, (2) 35.64c, (3) 25.64c, (4) 22.62c, (5) 17.94c; total, \$200,584.80, net. Will protect district as to prices.

Frick-Reid Supply Co., 555 S. Flower St.—lap weld—buyer's choice of lengths—(1) 49.14c, (2) 35.64c, (3) 25.64c, (4) 22.62c, (5) 17.94c; total, \$200,584.80, net. F. O. B. Jones & Laughlin mill. Will protect district as to prices.

Santa Fe Pipe & Supply Co., Inc.—lap weld—37ft. average length—(1) 18.28 lbs. ft. 57.38c, (2) 15.52 lbs. ft. 51.19c ft., (3) as per spec. 36.25c ft., (4) 10.22 lbs. ft. 32.81c ft., (5) 7.87 lbs. ft. 25c ft.; total, \$278,272.10, 2% 30 days after delivery. Manufactured by Allegheny Steel Co., Breckenridge, Pa. Will not protect district as to prices.

National Supply Co. of Cal.—lap weld—37 ft. lengths—(1) 49.14c ft., (2) 35.64c ft., (3) 25.64c ft., (4) 22.62c ft., (5) 17.94c ft.; total, \$200,584.80, net. Will protect district as to prices.

Midwest Pipe & Supply Co.—lap weld—37-ft. average lengths—(1) 49.14c, (2) 35.64c, (3) 25.64c, (4) 22.62c ft., (5) 17.94c; total, \$200,584.80, net. Will protect district as to prices.

Union Hardware & Metal Co.—lap weld—30 to 38-ft. lengths—(1) 49.14c, (2) 35.64c, (3) 25.64c, (4) 22.62c, (5) 17.94c; total, \$200,584.80, net. Will protect district only on unshipped portion.

Kelly Pipe Co.—lap weld—37-ft. lengths—(1) 49.11c, (2) 35.64c ft., (3) 25.64c ft., (4) 22.62c ft., (5) 17.94c ft.; total, \$200,584.80, net. Will protect district as to prices.

California Corrugated Culvert Co.—43,000 ft. spiral butt welded—f.o.b. Garnett—(2) 13.23 lbs. ft., 51.5c ft., (4) 6-in. O. D., 6.88 lbs. ft., 38-ft. lengths, 29c ft. Prices net.

Coast Engineering & Equipment Co.—lap welded—37 ft. lengths—(1) 49.14c ft., (2) 25.64c ft., (3) 35.64c ft., (4) 22.62c ft., (5) 17.94c ft.; total, \$200,584.80, net. Will protect district as to prices.

Standard Pipe & Supply Co., Inc.—lap weld—30 to 38-ft. lengths—(1) 49.14c, (2) 35.64c, (3) 25.64c, (4) 22.62c (5) 17.94c; total, \$200,584.80, net. Alt. on (1) 8-in. 19,569 lbs. ft. 43.75c ft. Will protect district on prices. Net cash 30 days.

Griffith Pipe & Supply Co., Inc.—lap weld—30 to 38 ft. lengths—(1) 49.14c, (2) 35.64c, (3) 25.64c, (4) 22.62c, (5) 17.94c, total, \$200,584.80 net cash 30 days. Will protect district as to prices.

South Chester Tube Co.—lap weld—37 ft. 6 in. to 38 ft. lengths—(1) 57.38c, (2) 15.52 lbs. ft. 51.19c, (3) 41.87c, (4) 22.81c, (5) 25c; total, \$279,564.70, 2% 30 days after receipt of invoice. Will not protect district on prices.

Buck & Stoddard, Inc. (Nayvor Spirai steel pipe)—rail and ocean f.o.b. Wilmington or Terminal Island—(2) 13.8 lbs. ft. 55.96c ft., (4) 9.5 lbs. ft. 41.02c,

(m)	274,177	3935	5882	3798	4610	3464	5490	16,503	644
(n)	277,777	3904	5660	3497	5422	3558	5441	16,383	452
(o)	279,100	3510	5160	3280	6100	3380	5550	14,970	95
(p)	294,342	3486	5373	3275	6072	3141	4572	16,490	646

Electric and Hydraulic Elevators
Otis Elevator Co., Washington, D. C., \$31,289.

Westinghouse Electric Elevator Co., Chicago, \$31,987.

Pacific Elevator Co., San Francisco, \$32,112.

Refrigeration and Ice Making Plan

Kohlenberger Engr. Corp., Fullerton, Calif., \$18,510.

York Ice Machine Co., York, Pa., \$19,475.

Volter Mfg. Co., Milwaukee, \$20,242.

Pennsylvania Engr. Co., Philadelphia, \$20,955.

Baker Ice Machine Co., Los Angeles, \$24,000.

*An amended bid was wired by K. E. Parker Co. raising their bid \$112,000, which if accepted will leave the Baruch Corporation low.

PROPOSED 1933 CONST.—METRO. WATER DISTRICT

LOS ANGELES, Calif.—During the year 1933, a total of \$17,600,000 will be expended by the Metropolitan Water District for tunnel and miscellaneous construction on the Colorado River Aqueduct, according to an estimate prepared by district engineers. The

total cost of the work for which work will be started probably within the first six months of 1933, amounts to \$78,742,000. These figures include engineering and administrative expense.

The table follows:

TABLE OF PROBABLE EXPENDITURES 1933
COLORADO RIVER AQUEDUCT
METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

Items or Units	Cost of Unit	Date of	Prob. Est. Expenditure		Year 1933
			1st half	2nd half	
Rights of Way.....	\$ 500,000	Jan. 1	\$ 250,000	\$ 250,000	\$ 500,000
Roads, includ. maintenance	1,027,000	Jan. 1	500,000	450,000	950,000
Construction water supply..	750,000	Jan. 1	450,000	300,000	750,000
Construction power system	3,000,000	Jan. 1	2,000,000	1,000,000	3,000,000
" telephone system	350,000	Jan. 1	275,000	75,000	350,000
Permanent buildings	750,000	Jan. 1	200,000	100,000	300,000
San Jacinto tunnel.....	11,250,000	Jan. 1	1,200,000	1,000,000	2,200,000
Valverde-Bernasconi tun'ls	7,000,000	Feb. 1	500,000	500,000	1,000,000
West Coachella tunnel.....	10,330,000	Mar. 1	900,000	1,000,000	1,900,000
East Coachella tunnel.....	10,480,000	Mar. 1	600,000	1,000,000	1,600,000
Hayfield-Cottonwood do.....	3,803,000	May 1	300,000	600,000	900,000
Mecca Pass-Coxcomb do.....	3,775,000	May 1	400,000	500,000	900,000
Whipple Mt.-Colo. river do..	7,002,000	July 1	.....	700,000	700,000
Iron Mt. Tunnel	5,000,000	July 1	.....	750,000	750,000
Whipple Mt. - Vidal conduit and siphon	5,230,000	July 1	.....	600,000	600,000
Red Butte-Shaver do.....	4,361,000	July 1	.....	600,000	600,000
Morongo-San Jacinto do.....	4,134,000	July 1	.....	600,000	600,000
Totals	\$78,742,000		\$7,575,000	\$10,025,000	\$17,600,000

BRIDGE MEADOW VALLEY WASH—LINCOLN CO. NEV.

LINCOLN COUNTY, Nevada—A. O. Thorn, Strong & Grant, Springfield, Utah, at \$15,806.75 awarded contract by the State Department Highway to construct steel and concrete bridge over Meadow Valley Wash, one mile west of Caliente, Route 7, Section E-2, involving:
(1) 660 cu. yds. struc. excav.;
(2) 260 cu. yds. select borrow;
(3) .02 mi. subgrade;
(4) 52 cu. yds. lead. haul and spread gravel;
(5) 185 cu. yds. class A concrete;
(6) 1736 lin. ft. untreated piling;
(7) 1488 lin. ft. drive piles;
(8) 13,020 lbs. reinf. steel;
(9) 124,000 lbs. struc. steel;

(10) 3100 lbs. expansion rockers and plates;

(11) 3100 lbs. expansion rockers and
(12) 28 MFEM untreated Douglas fir;
(13) 372 sq. qds. asphalt plank wearing surface;

Complete bids follow:

(A) A. O. Thorn, Strong & Grant, \$15,806.75.

(B) Utah Constr. Co., Ogden, \$16,835.90.

(C) Dodge Eros., Inc., Fallon, \$16,832.40.

(D) Jas. J. Burke Co., Salt Lake City \$18,732.52.

(E) Engineer's estimate, \$18,863.00.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)
(1)	\$ 1.00	\$ 2.50	\$ 1.00	\$ 3.50	\$ 2.00
(2) .....	.50	.30	.60	.40	.50
(3)	200.00	100.00	500.00	1000.00	200.00
(4)	1.00	.80	1.00	1.00	.75
(5)	16.75	19.00	20.00	11.00	18.00
(6) .....	.25	.30	.40	.30	.30
(7) .....	.50	.50	.50	.44	.60
(8) .....	.05	.06	.05	.09	.05
(9) .....	.556	.645	.06	.07	.075
(10) .....	.15	.12	.15	.12	.20
(11)	200.00	50.00	500.00	1000.00	100.00
(12)	60.00	60.00	50.00	57.00	60.00
(13)	2.50	2.00	2.25	3.00	1.00

6.7-MI. GRADE & CEM. CONC. PAVE.—ALAMEDA CO.

ALAMEDA COUNTY, Calif.—Union Paving Co., 624 Call Bldg., San Francisco, at \$338,450.15 submitted low bid Dec. 21 to State Highway Commission, Sacramento for about 6.7 miles between Dublin and Castro Hill—4.4 mi. to be graded and paved with Portland cement concrete and about 2.3 miles to be graded and surfaced with bituminous treated crushed gravel or stone surfacing (plant mix).

Complete bids follow:

- (A) Union Paving Co., San Francisco, \$338,450.15.
 - (B) Fredrickson & Watson, Oakland, \$338,676.07.
 - (C) Basich Bros., Torrance, \$359,365.35.
 - (D) N. M. Ball, Porterville, Jack Casson, Hayward, and Hemstreet & Bell, Marysville, \$390,612.22.
 - (E) C. W. Wood Stockton, \$418,545.80.
 - (F) M. J. Bevanda, Stockton, \$446,841.20.
- The quantities are:
- (1) 8 acres clear and grub;
 - (2) 150 remove trees, size 1;
 - (3) 530 remove trees, size 2;
 - (4) 80 remove trees, size 3;
 - (5) 35 remove trees, size 4;
 - (6) 457,900 cu. yds. rdwy. excav., unclassified;
 - (7) 11,750 cu. yds. channel excav.;
 - (8) 3,548,700 sta. yds. overhaul;
 - (9) 4,500 M. gals. water (embank);
 - (10) 7900 cu. yds. struc. excav.;
 - (11) 54,500 tons crushed run base;
 - (12) 7800 tons crushed gravel or stone bit. treated surface;
 - (13) 400 tons cut-back asph. bit. surf.;
 - (14) 16,350 cu. yds. Class A cem. conc. (pave.);
 - (15) 1100 cu. yds. do (struc.);
 - (16) 452,150 lbs. bar reinf. steel (pave. and struc.);
 - (17) 13 cu. yds. concrete remove from

- exist. struc. and dispose of;
 - (18) 150 tons screenings bit. surface treat.;
 - (19) 900 tons screenings (shoulders & road approaches);
 - (20) 8 tons asph. road oil (bit. surf. treat.);
 - (21) 1245 bbls. heavy fuel oil (shoulders and road approaches);
 - (22) 2028 lin. ft. 8-in. corru. metal pipe
 - (23) 354 lin. ft. 15-in. do;
 - (24) 1677 lin. ft. 18-in. do;
 - (25) 991 lin. ft. 24-in. do;
 - (26) 236 lin. ft. 36-in. do;
 - (27) 20 lin. ft. 48-in. do;
 - (28) 575 lin. ft. 8-in. drain tile, remove and salvage;
 - (29) 284 lin. ft. corru. metal pipe, clean and relay;
 - (30) 1615 lin. ft. 8-in. perf. metal pipe underdrain;
 - (31) 25 culvert headwalls, remove and reset;
 - (32) 400 cu. yds. light rip-rap;
 - (33) 12,310 lin. ft. existing guard rail, remove and reset;
 - (34) 6620 lin. ft. laminated timber guard rail;
 - (35) 260 timber guide posts;
 - (36) 150 culvert markers;
 - (37) 5.07 miles existing property fence, remove and reset;
 - (38) 2.5 miles, new barbed wire fence;
 - (39) 2.5 miles new woven wire fence;
 - (40) 40 fence gates;
 - (41) 10.4 MFBM redwood timber dense sel. all-heart struc. grade;
 - (42) 16 MFBM do, sel. all-heart struc. grade;
 - (43) 354 sta. finish roadway;
 - (44) 144 monuments complete in place.
- State will furnish corrugated metal pipe, perforated metal pipe and spillway assemblies.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)
(1)	\$ 50.00	\$ 90.00	\$ 25.00	\$100.00	\$100.00	\$200.00
(2)	1.00	1.00	1.00	1.50	2.00	1.50
(3)	2.00	1.50	2.00	1.50	4.00	2.50
(4)	3.00	3.00	5.00	2.50	6.00	4.00
(5)	10.00	4.00	10.00	8.00	8.00	7.00
(6)	.214	.20	.20	.21	.29	.25
(7)	.20	.25	.30	.25	.50	.50
(8)	.005	.004	.005	.0025	.003	.005
(9)	.25	1.00	.50	1.00	.50	1.00
(10)	.50	.75	.60	1.00	.50	1.00
(11)	.60	.65	.80	1.31	1.20	1.35
(12)	2.00	2.25	2.35	2.58	1.75	2.45
(13)	12.00	12.60	13.00	12.50	16.00	12.00
(14)	6.50	6.50	6.80	6.95	7.10	7.90
(15)	14.00	13.00	13.50	14.50	13.00	16.00
(16)	.03	.0325	.04	.033	.036	.035
(17)	2.00	2.00	4.00	2.00	3.00	3.00
(18)	1.75	1.60	2.00	2.00	1.50	2.50
(19)	1.50	1.60	1.50	2.00	1.60	1.60
(20)	12.00	12.00	12.50	20.00	14.00	15.00
(21)	1.75	1.75	1.50	1.51	1.50	1.75
(22)	.25	.15	.25	.15	.25	.25
(23)	.25	.15	.30	.18	.25	.30
(24)	.25	.20	.30	.20	.25	.30
(25)	.37	.25	.35	.30	.30	.40
(26)	.45	.40	.50	.50	.50	.50
(27)	.50	.50	.60	.75	1.00	1.00
(28)	.50	.25	.20	.30	.30	.50
(29)	.50	.35	.30	.50	.50	1.00
(30)	.40	.40	.30	.50	.75	1.50
(31)	10.00	8.00	10.00	5.00	8.00	15.00
(32)	3.00	2.00	2.00	1.50	1.00	4.00
(33)	.50	.40	.40	.40	.50	.50
(34)	.75	.75	.70	.80	.80	.90
(35)	2.00	2.00	2.00	2.50	2.75	3.00
(36)	2.00	1.50	1.50	2.50	2.00	2.00
(37)	100.00	175.00	200.00	350.00	250.00	200.00
(38)	250.00	300.00	350.00	400.00	300.00	400.00
(39)	350.00	350.00	500.00	500.00	425.00	500.00
(40)	12.00	10.00	11.00	13.50	15.00	15.00
(41)	65.00	65.00	90.00	70.00	80.00	85.00
(42)	55.00	70.00	90.00	70.00	80.00	85.00
(43)	2.00	4.50	6.00	5.00	3.00	6.00
(44)	1.00	2.50	2.00	2.50	2.50	2.50

(G) 7.2 lbs. ft. 33.93c; 2% 10 days. Will not protect district as to prices
BIDS ON USED ROTARY DRILL
PIPE FOLLOW:

Buck & Stoddard, Inc.—used drill pipe—(1) 5.56 in. O. D. 19.59 lbs. ft.—21 ft. 6-in. lengths—\$5,000 ft. at 45c ft. f.o.b. Terminal Island; 2% 15th prox. Does not include loading pipe in cars.
Santa Fe Pipe & Supply Co.—drill pipe—data as follows: (A) 5-in. pipe, 19 lbs. ft. 6-in. 22½ lbs. ft.; (B) 85,000 ft. 5-in. 19 lbs. ft., 90,000 ft. 6-in. 21-23 lbs. ft.; (C) lengths—19 ft. 6-in., (D) guaranteed average weight 5-in. 19 lbs., 6-in. 22½ lbs.; f.o.b. L. A. and Long Beach. Prices: (1) 85,000 ft. 5.5 in. O. D. 26c ft., (2) 90,000 ft. 6-in. O. D. 36c ft.; total, \$54,500. Delivery—start in one day, 5000 ft. and over per day; 2% 30 days.

Imperial Pipe & Supply Co., Inc.—(1) 20,000 ft. 5.6-in. O. D. pipe at 40c ft. Delivery to start in 5 days. Terms 1% 10 days.

Petroleum Equipment Co.—(1) and (2): (A) wt. per ft. 5-in. (4.313-in.) 19 lbs., 5-in. (4.955 in.) 16 lbs. per ft.; 6-in. (5.939 in. I. D.) 22.5 lbs. ft.; (B) 6-in. 70%/16 lbs., 30% 19 lbs.; (C) average lengths 19 ft. 6-in., none under 18 ft., (D) guaranteed average weight: 5-in. to 4.813 in. 18 lbs. ft.; 4.955-in. 15 lbs. ft.; 5.939-in. 21 lbs. ft. Will supply pipe from sources as follows: General Petroleum Corp.—15,000 ft. 5-in. and 20,000 ft. 6-in. Vernon, Calif. Midway Supply Co., 60,000 ft. 5-in. and 20,000 ft. 6-in. Long Beach; Standard Supply Co.; 5000 ft. 5-in. and 25,000 ft. 6-in. at Los Angeles; 5000 ft. 5-in. and 25,000 ft. 6-in. from Los Angeles and contiguous points. Prices: (1) 5.5-in. at 27½c ft., (2) 6.6-in. pipe at 37c ft.; total, \$56,675.

Pacific Oil Well Supply Co., Ventura 7000 ft. 5 9/16-in. I. D.—30 ft. lengths—45c ft. f.o.b. yard at Piru; 7000 ft. 3½-in. seamless—30 ft. lengths—25c ft. f. o. b. yard, Piru.

SAN FRANCISCO.—U. Peira, 165 Howth St., San Francisco, submitted low bid to S. J. Hester, secretary, Department of Public Works, to improve connecting street between Laidley and 30th, and west half of Daidley bet. Noe and 30th, involving:

- (1) 450 cu. yds. excavation;
- (2) 3 brick catchbasins;
- (3) 1 brick manhole;
- (4) 45 10-in. V.C.P. culverts;
- (5) 70 ft. 6-in. do;
- (6) 420 ft. armored conc. curb;
- (7) 5350 sq. ft. 6-in. Class E concrete pavement;
- (8) 1160 sq. ft. 1-course concrete sidewalks.

Complete bids follow:

(A) U. Peira	\$1834.23
(B) Eaton & Smith	2223.00
(C) E. J. Treacy	2276.55
(D) Fay Imp. Co.	2369.75
(E) Theo. Cohn	2382.45

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)
(1)	\$.45	\$.75	\$.75	\$.82	\$ 1.00
(2)	60.00	80.00	60.00	73.00	80.00
(3)	40.00	60.00	90.00	64.00	70.00
(4)	.90	1.00	1.25	1.10	1.25
(5)	.60	.75	.80	.98	.90
(6)	.60	.65	.80	.66	.70
(7)	.1775	.20	.20	.219	.20
(8)	.11	.125	.13	.13	.12

SAN FRANCISCO.—Until Jan. 11, 1:45 P. M., informal bids will be received by S. J. Hester, secretary, Department of Public Works, to repair pumping station at Fitzgerald Avenue and Griffith; estimated cost, \$165.

ENGINEERING NEWS

BRIDGES

PORTLAND, Ore.—Until Jan. 9 2 P. M., bids will be received by Lee A. Baumhover, city purchasing agent, room 208, City Hall, to wreck and remove timber trestle at Fourth and Sheridan Sts. Certified check 10% required with bids. Specifications obtainable from above office.

SAN DIEGO COUNTY, Cal.—M. H. Golden, 404 California Bank Bldg., San Diego, at \$44,242.75 awarded contract by State Highway Commission, to construct in San Diego, two reinforced concrete girder bridges on concrete pile bents, one across Cudahy Channel, consisting of thirteen 30-ft. spans; and the other across Tecolote Creek, consisting of four 30-ft. spans.

WOODLAND, Yolo Co., Cal.—Rocca & Caletti, P. O. Box 243, San Rafael, at \$136,988.15 submitted low bid to Joint Highway District No. 12, Second and C Sts., Yuba City, to construct Knights Landing drawbridge across the Sacramento river. Bridge will be of the double-leaf bascule type with a 200-ft. opening. Each leaf to be 111-ft. long, 24-ft. roadway, 3½-ft. sidewalk on each side of bridge, involving:

- 380 tons structural metal;
- 29 tons machinery;
- 3420 cu. yds. concrete;
- 112 tons reinforcing steel;
- 13,500 lin. ft. untreated timber piles;
- 5,600 lin. ft. treated timber piles;
- 43 M. ft. b.m. timber;
- 600 cu. yds. embankment;
- 375 sq. yds. concrete paving;
- 2 machinery houses;
- 2 electric operating motors;
- 2 gasoline engine units;
- various items of electrical equipment and wiring.

Bids were taken as follows:

PART NO. 1—Manufacture and delivery of structural metal, machinery, and electrical equipment.

PART NO. 2—Erection and installation thereof together with all other work at site.

PART NO. 3—Project as a whole.

Complete bids follow:

- Rocca & Caletti, San Rafael, (3) \$136,988.15.
 - M. B. McGowan, San Francisco, (2) \$85,888.00 (3) \$139,569.00.
 - Lord & Bishop, Sacramento, (2) \$93,318.00 (3) \$148,279.00.
 - Fredrickson & Watson, Oakland, (3) \$154,247.50.
 - Bodenhamer Const. Co., Oakland, (3) \$154,802.75.
 - Healy-Tibbitts Const. Co., S. F., (3) \$156,755.75.
 - Ward Eng. Co., San Francisco, (3) \$164,573.00.
 - Moore Dry Dock Co., San Francisco, (1) \$53,419.00.
 - Virginia Bridge & Iron Co., Los Angeles, (1) \$54,220.50.
 - Minneapolis Steel & Machinery Co., Los Angeles, (1) \$55,661.00.
- Bids held under advisement until Friday, January 6.

SANDPOINT, Idaho.—As previously reported, Geo. L. Arnett & Son, Sandpoint, at \$27,140 for labor only awarded contract by Bonner County Commissioners to construct new Sandpoint bridge. Plans provide for the construction of 10,000-ft. of timber pile trestle, the county to furnish the material and hardware. Lumber con-

tracts amounting to \$50,649 have been awarded.

SAN FRANCISCO.—Until Jan. 16, bids will be received by W. H. Kirkbride, chief engineer, Southern Pacific Co., 65 Market St., San Francisco, to construct substructure only for bridge across the San Joaquin river. Bridge is to be 235 ft. long with provision made for two 100-ft. channel spans—will be steel swing type on creosoted pile and concrete foundations, involving:

- (1) 525,000 lbs. struc. steel;
- (2) 18,000 lin. ft. creosoted piling;
- (3) 109 cu. yds. reinf. concrete;
- (4) 30 ft. trestle;
- (5) lump sum, certain amount of center pier protection.

Specifications obtainable from the above office.

LOS ANGELES, Cal.—John Strona, Pomona, submitted low bid to County Supervisors Dec. 27, at \$4452, for constructing a steel and concrete bridge to be built on Central Ave. over the Little Santa Anita Wash in the City of Arcadia. The bridge will consist of one 34-ft. span with 40-ft. roadway. It will have concrete abutments steel girders, concrete slab and concrete rail. W. B. Armstrong, 12th floor Hall of Records, County Bridge Engineer. The other bids were:

J. B. McIntosh	\$4601
Wm. T. Loesch & Son	4749
Atlas Const. Co.	4765
W. A. Taylor & Sons	4780
James Noon	4870
S & W Const. Co.	4884
Johnson Const. Co.	5187
Anton Johnson Co., Inc.	5220
Hess Const Co.	5311
W. J. Distell	5358
Carl Hallin	5380
N. I. Fadel	5900
Chas. W. Pettifer	6170
R. G. Whinery	6224
W. H. McCune, Jr.	6370

LOS ANGELES, Cal.—Atlas Const. Co., 39 Congress Street, Pasadena, awarded contract by County Supervisors Dec. 27 for the construction of a reinforced concrete bridge on Pomona Blvd. over Eaton Wash. The proposed structure will be a concrete slab bridge of two spans, with pipe railing. It will be 62 ft. in length and 70 ft. in width. W. B. Armstrong, 12th floor Hall of Records, Bridge Engineer. Bids opened Dec. 19.

WASHINGTON STATE.—Until Jan. 24, 10 A. M., bids will be received by Samuel J. Humes, Director of High-

ways, Olympia, for bridge construction as follows:

Okanogan County—Construct reinforced concrete arch bridge, 118 feet long over Bonapart Creek on the Tanasket easterly section of State Road No. 4, E. C. H. Proj. No. E-65, consisting of one 88-ft. arch span and three 9-ft. approach spans.

Okanogan County—Construct reinforced concrete girder bridge 100-feet long over Griggs Canyon on State Rd. No. 10, between Pateros and Brewster Flats, E. C. H. Proj. No. E-145-I, consisting of one 40-ft. and two 30-ft. spans.

Specifications obtainable from above office on deposit of \$2, returnable. Certified check 5% payable to State Treasurer required with bid.

SAN FRANCISCO.—Until Feb. 28, 2 P. M., bids will be received by the Department of Public Works, San Francisco-Oakland Bay Bridge, Assembly Chamber of the State Capitol, Sacramento, to construct first five piers, substructures for the West Bay Crossing from the San Francisco shoreline to Yerba Buena Island, involving:

- (1) 268,542 cu. yds. caisson work;
- (2) 10,000 cu. yds. add. caisson work;
- (3) 55,000 cu. yds. concrete seal;
- (4) 21,400 cu. yds. conc. foundations, Pier 2;
- (5) 27,000 cu. yds. conc. pier shafts and fenders, Piers 2, 3, 5, 6;
- (6) 60,500 cu. yds. superstructure for Pier 4;
- (7) 3,800,000 lbs. reinf. steel above foundations;
- (8) 300,000 lbs. struc. steel above foundations;
- (9) 1,100 MFBF timber in fenders;
- (10) 450,000 lbs. metal work in fenders;
- (11) alterations to Harbor Pier 24;
- (12) 500 bbls. extra Port. cement.

(San Francisco-Oakland Bay Bridge Office, 500 Sansome St., San Francisco, Chas. H. Purcell, chief engineer).

PHOENIX, Ariz.—The Arizona Highway Commission will seek to obtain sufficient funds from the reconstruction finance corporation to start construction of a bridge across the Colorado River at Parker, Arizona. The commission will ask the eleventh legislature to give the road body authority to enter into negotiations with the finance corporation with a view to borrowing the money. It is proposed to have the California legislature take the same action. Then the highway departments would set up in their annual highway budgets, sufficient money to pay off the loan, extending over a 10-year period. The tenth Arizona legislature appropriated \$75,000 for the purpose of constructing the bridge, contingent on appropriations of \$75,000 each by California and the United States Indian Service. The bridge is entirely on the Colorado Indian bureau declined to consider the project. The proposed site for the River Indian reservation.

DREDGING, HARBOR WORKS & EXCAVATIONS

HONOLULU, T. H.—The War Department has recommended to Congress that an appropriation of \$792,000 be made for the improvement of the Honolulu harbor entrance channel. The department proposes to widen the channel to 500 ft. at a low water depth of 40 ft. Maintenance will cost \$3000 annually.

CAPITAL CITY TITLE COMPANY

▼

J. C. PALEN,
Manager

▼

914 Seventh Street
Sacramento :: California

SEATTLE, Wash.—Until Jan. 11, 10 A. M., bids will be received by Board of Public Works, room 512, County-City Bldg., to construct riprap bulkhead in Seaview Ave. from W 70th St. to approx. 200 ft. north of W 80th St. Certified check 5% payable to City Comptroller required with bid. Specifications obtainable from above office or from City Engineer.

SALEM, Oregon.—Until Jan. 12, 3 P. M., under Bid No. 33-221, bids will be received by U. S. Engineer Office, 321 Customhouse, Portland, to construct about 1623 lin. ft. of pile likes in Willamette River at eleven different sites located 16.9 to 17.76 miles below Salem, involving:

- (1) 33,700 lin. ft. piling;
- (2) 13 M. ft. b.m. lumber;
- (3) 19,960 lbs. hardware;
- (4) 1,250 cu. yds. stone, shore rock;
- (5) 2,600 cu. yds. stone, water rock;
- (6) 1,130 pile shoes.

Specifications obtainable from above office, or on file in office of Daily Pacific Builder, and may be inspected by those interested.

PORTLAND, Ore.—Hauser Const. Co., Multnomah Hotel, Portland, at \$498,754 submitted low bid to U. S. Engineer Office, Portland, to reconstruct north and south rubble mound jetties at the entrance to Yaquina Bay, Lincoln County, Oregon. Bids were taken on the north and south jetties separately and together, above bid on total for both jetties.

PORTLAND, Ore.—Until January 31, 3 p. m., under Bid No. 33-222, bids will be received by U. S. Engineer Office, 321 Customhouse, Portland, Ore., for dredging approximately 435,711 cu. yds. of material from a channel, and for constructing a dike with about 41,600 cu. yds. of the dredged material, in Willamette River between points about 1 mile and 2¼ miles downstream from Oregon City, Ore., involving:

- (1) 435,711 cu. yds. material dredging and disposal, including dike construction.

LOS ANGELES, Cal.—Contract for construction of the first unit of the new 12,500-ft. breakwater enrockment in Los Angeles Harbor was officially awarded at Washington, D. C., December 30 to the Puget Sound Bridge & Dredging Co. of Seattle. This unit will be 1400 ft. in length and cost \$466,410. Rock will be supplied from the Catalina Quarries.

NOME, Alaska.—Until March 1st, 3 P. M., bids will be received by U. S. Engineer Office, Burke Bldg., Portland for dredging approximately 5100 cubic yards of material from the mouth of the Snake River at Nome. Specifications obtainable from U. S. Engineer office at Seattle.

STREET LIGHTING SYSTEMS

LOS ANGELES, Calif.—Until 10 A. M., bids will be received by board of public works for constructing an ornamental lighting system in Flower St. bet. Washington St. and 38th St., in accordance with Plan No. B-1693 and Standard Plan No. B-1694, involving No. 1860 Southwest Street Lighting Standards. Cash contract.

MACHINERY AND EQUIPMENT

OAKLAND, Cal.—Until Jan. 4, 5:30 P. M., bids will be received by John

H. Kimball, secretary, East Bay Municipal Utility District, 512 16th St., Oakland, to construct and furnish f.o.b. Valley Springs, Calaveras county, one slackline cableway excavator, capacity 26 cu. ft., complete with bucket and carrier blocks, track, tension and hoisting cables and hoisting engine. Specification No. 46 obtainable from above office.

RENO, Nev.—Monarch Gold Ledge Mines, 416 Clay Peters Bldg., Reno, Chas. E. Basso, president and manager, award contracts for mining equipment as follows:

Morse Bros. Machinery & Supply Co., Denver, at \$10,750 to furnish 120-hp. Diesel engine, mining equipment, assay equipment, water supply tank and pump.

Action on balance of equipment deferred until Jan. 20.

RESERVOIRS AND DAMS

PASADENA, Los Angeles Co., Cal.—Pacific Coast Steel Corp., 621 South Hope St., Los Angeles, awarded contract by city board of directors Dec. 27 at \$40,738 for furnishing 2,300,000 lbs. reinf. steel for the Pine Canyon Dam, delivered at dam site Other bids are:

Truscon Steel Co	\$41,014
Concrete Eng Co	43,452
Soule Steel Co	43,622
Blue Diamond Corp., Ltd.	44,192
Los Angeles Iron & Steel Co.....	48,443

LOS ANGELES, Cal.—West Slope Construction Co., Room 1205, 816 So. Spring St., awarded contract by county supervisors Dec. 28, at \$8,600,527, exclusive of steel, cement and valves, for the construction of San Gabriel Dam No. 1. The bid is on the basis of Gunite facing. The proposed dam will be a rock fill structure in San Gabriel Canyon, 2.4 miles downstream from the Forks and 8.6 miles above Azusa. The dam will be 295 feet in height above streambed, 1670 feet in length measured along the road on the crest, and 900 feet thick at the base.

E. C. Eaton, 202 N. Broadway, County Flood Control Engineer, prepared the plans.

The West Slope Construction Co. is composed of the following: Foley Bros., Bates & Rogers Constr. Co., J. C. Maguire, Butte, Mont., and The Lawler Corp., Butte, Mont.

W. A. Rogers is president of the company.

The Chief Engineer's letter, which was also signed by the consulting engineer, submitted to the Board Dec 28 and upon whose recommendation the award was made is printed herewith in full. The letter follows:

Honorable Board of Supervisors,
L. A. County Flood Control District,
501 Hall of Records,
Los Angeles, California.
Gentlemen:

Under date of December 19th, bids were opened for the construction of San Gabriel Dam No. 1.

Seven bids were received on the Alternative Proposals.

The following are the bids on Proposal No. 1:

Bidder	Amount
West Slope Constr. Co.....	\$8,600,527.00
Constructors, Inc.	8,767,415.00
Silas Mason Company.....	8,934,860.00
J. A. McEachern Co. and	
Guy F. Atkinson Co.....	9,052,898.50
Merritt Chapman & Scott ..	9,968,255.00
Walsh Constr. Co.....	10,189,499.75
Rosoff Subway Constr. Co.....	10,220,369.50

The item of Concrete Facing was not bid under the Alternative Proposals and, therefore no direct comparison with the bids under Proposal No. 1 is possible.

For the purpose of making a comparison between the lowest Alternative bids received for all items and Proposal No. 1 the Engineer's Estimate for the unbid item of Concrete Facing has been added to the lowest Alternative bids to make them complete. On this basis the total cost to the District under the Alternative bids would be \$8,532,572 as compared to West Slope Construction Company's bid of \$8,600,527, a difference of about \$68,000 in favor of the Alternative bids. However, under the Alternative bids all risk of damage by floods to any part of the structure must be assumed by the District. Under Proposal No. 1 the Contractor assumes this risk.

Constructing the dam under Alternative Proposals would materially increase the engineering costs to the District and possible settlements of claims due to conflicts between the several contractors would also add to the cost.

For these reasons we recommend that the Alternative bids be not accepted.

It is our opinion that sufficient rock of all classes to build the dam can be obtained from Quarry No. 10.

Excavation at the Pine Canyon Dam site and for the bridge pier of the new high line road up San Gabriel Canyon confirms our opinion that it will be necessary to excavate the entire river bed within the dam site in order to obtain adequate foundation.

Obtaining the entire rockfill from Quarry No. 10, completely excavating the river bed within the limits of the dam and backfilling with rock the West Slope Construction Company's bid is lower than Constructors, Inc., by about \$189,000.

After a careful engineering analysis of all of the bids and after making due allowance of any reasonably possible need of obtaining rock from another quarry, we find the West Slope Construction Company's bid the lowest and subject to legality, recommend its acceptance by your honorable board.

Yours very truly,

E. C. EATON,

Chief Engineer.

LOUIS C. HILL,

Consulting Engineer.

RUSH T. SILL,

Consulting Geologist.

Complete details published in our

SEWERS AND SEWAGE DISPOSAL PLANTS

SAN DIEGO, Cal.—Until 10 A. M., Jan. 9, bids will be received by city council to construct sewer in Florida St. bet. 30 ft. north of University Ave. and 200 ft. south. The proposed work, which is under the 1911 act, involves construction of a cement concrete sewer main, connections, fittings, concrete manholes, concrete dead end and appurtenances. Allen H. Wright, city clerk, H. W. Jorgensen, city engineer.

RANNING, Riverside Co., Cal.—Until 7:30 P. M., January 13, bids will be received by city council for constructing a sewer main from a point 234 ft. east of the center line of San Geronimo Ave. to Hargrave St., to serve the office building of the Metropolitan Water District on San Ger-

gonio Ave. The proposed sewer will include:

- 2419 ft. 8-in. vitrified or cement concrete pipe including 84 wyes, tees, etc.;
- 5 manholes;
- 5 lampholes.

Plans may be seen at the Banning city hall. Certified check, 10%, must accompany the bid. John E. White, city clerk; W. H. Wood, city engi-

MISCELLANEOUS CONSTRUCTION

LOS ANGELES, Cal.—Official estimates of the quantities of the Coachella tunnels to the Colorado River Aqueduct which the board of directors of the Metropolitan Water District on Dec. 21 voted to construct by force account under the direction of the General Manager and Chief Engineer F. E. Weymouth, are shown in the tabulation listed below:

The cost of these tunnels is estimated at \$16,084,300 to which must be added administration and engineering (7½%) amounting to \$1,115,709, and contingencies, \$800,000.

The total length of the east and west tunnels is 175,053 ft. The diameter is 16 ft.

The quantities and estimate follows: 260,000 cu. yds. excavation approaches (west) \$1.25 yd.;

6,200 lin. ft. excav. adits (east) \$40 ft.; 853,000 cu. yds. excav. tunnel (west) \$5.30 yd.;

1,035,000 cu. yds. excav. tunnel (east) \$5.20 yd.;

492,000 cu. yds. concrete lining (east and west) \$7.70 yd.;

500 MBM timber, \$60 M.;

1,000 cu. yds. Gunite, \$20 yd.;

500,000 lbs. place reinf. steel, \$0.02 lb.;

The above items, \$14,336,800.

630,000 lbs. cement, \$2.75 bbl.;

500,000 lbs. reinf. steel, \$0.3 lb.;

Total cement and reinf. steel, 51,747,500.

Total for above items, \$16,084,300.

Administration and engineering, 7%, \$1,115,700.

Contingencies, \$800,000.

Total, \$18,000,000.

The engineers propose to construct the 33 miles of tunnel from 9 camps. Each of these 9 camps is to construct two tunnels driven from an adit or connected by tracks across the washes, so that each tunnel can be alternately drilled and mucked. Three drill shifts and three muck shifts cross shift each other as long as two working places are available, thereby eliminating the delay from interference which may be as much as the time working if both work in a single heading.

The crossing of gravel filled washes is made by tunneling under where rock is available and driving an adit for access. Where rock is not available, the location is made so as to cross by low head syphon and access is provided by a temporary construction track across the wash to connect the two portals facing each other across the wash.

The rock and water conditions appear unusually favorable. The camp and plant requirements are no greater for two tunnels driven by the alternating system than for a single heading driven from a portal. The direct and supporting labor is reduced by the two-tunnel operation, since the drill and muck crews do not conflict and so excavate more tunnel than if both were reduced in the same heading. Four concreting plants will be required. There is generally an economic distance to be driven from each

camp as follows:

Camp	East Ft.	West Ft.	Total Ft.
Yellow Spot	10,200	10,200	20,400
Fargo	11,350	15,000	26,350
Berdoo Canyon	15,780	13,762	29,542
West Rush, Can.	9,989	9,989	19,978
Deception Wash	15,020	9,050	24,070
Wide Canyon	8,800	8,800	17,600
Long Canyon	8,300	8,300	16,600
Blind Canyon	6,800	6,800	13,600
Whitehouse Can.	5,330	1,720	7,050
Total			175,190

STREETS AND HIGHWAYS

CLARK COUNTY, Nevada—As previously reported, until Jan. 11, 2:30 P. M., bids will be received by S. C. Durkee, State Highway Engineer, Heroes Memorial Bldg., Carson City, to construct portion of state highway, 1.607 miles on Fifth St., Las Vegas, to 1650 ft. NE of north city limits; also 1.97 miles Bard to Las Vegas; also 1650 ft. NE of north city limits, Las Vegas to six miles SW of Apex Summit, involving:

- (1) 24,150 cu. yds. rdwy. excav.;
- (2) 3580 cu. yds. struc. excav.;
- (3) 19,939 cu. yds. select borrow.;
- (4) 6881 sta. yds. overhaul.;
- (5) 57,055 sq. yds. subgrade for pave.;
- (6) 11,620 cu. yds. cem. conc. pave.;
- (7) 2 demolish culvert inlets and outlets.;
- (8) 5850 lbs. castings.;
- (9) 252 cu. yds. Class A concrete.;
- (10) 5 cu. yds. Class B concrete.;
- (11) 48 lin. ft. 15-in. corr. metal pipe.;
- (12) 184 lin. ft. 18-in. do.;
- (13) 112 lin. ft. 24-in. do.;
- (14) 42 lin. ft. 30-in. do.;
- (15) 156 lin. ft. 24-in. part circle corrugated metal pipe.;
- (16) 86 lin. ft. 30-in. do.;
- (17) 10,892 lin. ft. 6-in. tile drains.;
- (18) 4284 lin. ft. 8-in. do.;
- (19) 166 lin. ft. 10-in. do.;
- (20) 30 lin. ft. remove pipe culverts.;
- (21) 22 pipe culvert extensions.;
- (22) 259,700 lbs. reinf. steel.;
- (23) 3.91 miles finish roadway.;
- (24) 30 cu. yds. demolish concrete.;
- (25) 2600 cu. yds. gravel backfill.

Specifications obtainable from the above office or from county engineer on deposit of \$15, of which \$10 is returnable. Certified check 5% required with bid.

GLENDALE, Los Angeles Co., Cal.—Southwest Paving Co., 710 Lankershim Bldg., awarded contract by city council Dec. 27 at \$2691.63, for resurfacing Chevy Chase Drive, bet. Walnut and Sinclair Sts., under cash contract, involving:

- (1) 103,100 sq. ft. 1½-in. asph. conc. wearing surface, including bringing sewer manholes to grade.
- (2) 11,750 sq. ft. asphalt conc. wearing surface, variable thickness including bringing sewer manholes to grade.
- (3) 200 tons asphalt concrete base material laid.

J. C. Albers, city engineer. The bidders were: (A) Southwest Paving Co. (B) Oswald Brothers. (C) Griffith Company.

The bids were:

	(1)	(2)	(3)	Total
(A)	\$.02	\$.0175	\$2.12	\$2691.63
(B)	.022	.017	2.10	2887.95
(C)	.024	.017	2.08	3090.15

The bids were opened Dec. 22.

YAKIMA, Wash.—Until Jan. 5, 2 P. M., bids will be received by county commissioners to grade and gravel 2.75 miles of Lateral Highway No. 24, involving: 7,470 cu. yds. excavation;

- 501 cu. yds. struc. excav.;
- 2,360 cu. yds. top course surf.;
- 1,800 cu. yds. base course surf.;
- 240 lin. ft. 6-in. concrete pipe.;
- 120 lin. ft. 8-in. concrete pipe, class 2.;
- 90 ft. 10-in. concrete pipe.;
- 1335 lin. ft. 12-in. pipe.;
- 66 ft. 15-in. pipe.;
- 2 6-in. 45-degree elbows.;
- 1 10-in. 90-degree elbow.;
- concrete pipe increasers.

Specifications obtainable from O. E. Brashears, county engineer, on deposit of \$5, returnable.

SAN MATEO COUNTY, Cal.—Until January 16, 2 P. M., bids will be received by John H. Skeggs, District Engineer, State Highway Commission, 211 State Bldg., San Francisco, to grade and surface with asphaltic concrete 0.2 mile between Lawndale and Baden, involving:

- (1) 2,750 cu. yds. imp. borrow.;
- (2) 800 tons crusher run base.;
- (3) 1,650 tons asph. concrete.;
- (4) 4 tons emulsified asph. road oil.;
- (5) 40 tons screenings.;
- (6) 40 cu. yds. struc. excav.;
- (7) 66 lin. ft. 30-in. corr. metal pipe.;
- (8) 3 cu. yds. Class A Port. cement concrete (struc.).;
- (9) 90 lbs. bar reinf. steel (struc.).;
- (10) 12 sta. finish roadway.

Specifications obtainable from above office. Certified check 10% required with bid.

ARIZONA STATE—Ralph Pleasant Construction Co., Phoenix, Ariz., awarded contract by State Highway Commission, Phoenix, Dec. 28, at \$97,608.46, for highway construction on the Benson-Vail Highway, E-18-D (A.F.E. No. 8052), E-18-E (A.F.E. No. 8019). The work, which begins at the Pima-Cochise County line and extends easterly approximately 933 miles to the west city limits of Benson, consists of grading, draining and placing of subgrade stabilizer in part and oil processing the entire length by the plant mix method, and is to be completed on or before June 15, 1933.

The other bids were: Phoenix-Tempe Stone Co., Phoenix, Arizona, \$99,905.32. Packard & Tanner, Phoenix, Ariz., \$109,864.40. Arizona Sand & Rock Co., Phoenix, \$113,392.25. Heafey-Moore Co. and J. A. Casson, Oakland, \$115,604.62.

ARIZONA STATE — R. H. Martin, Tucson, Ariz., awarded contract by State Highway Commission, Phoenix, Dec. 28, at \$96,230.27 for highway construction on the Benson-Vail Highway E-18-B (A.F.E. No. 8054). The work which begins at the north end of the Cienega Creek Bridge and extends easterly approximately 6½ miles, consists of grading, draining and placing of Subgrade Stabilizer, and is to be completed on or before June 15, 1933.

The other bids were: Skousen Bros., Mesa, Ariz., \$97,673.46. Packard & Tanner, Phoenix, Ariz., \$101,693.83. Orr & Rawls, El Paso, Texas, \$103,412.98. Hodgman & MacVicar, Pasadena, \$167,606.59.

LOS ANGELES COUNTY, Cal.—C. G. Willis & Sons, Inc., 2119 E 25th St., Los Angeles, at \$102,076.50 awarded contract by State Highway Commission to excavate slopes between Santa Ynez Canyon and Santa Monica Canyon, 1.5 miles.

SAN FRANCISCO—L. Sartorio, 2627 Lombard St., at \$736 awarded (informal) contract by Department of Public Works to construct stairway on Douglass and States Sts.

ARIZONA STATE—Until 2 P. M., Jan. 11 bids will be received by State Highway Commission, Phoenix, for highway construction on the Nevada-Utah Highway, E-92 (A.F.E. No. 1601). The work, which is located in the extreme northwestern corner of the state, approximately one mile north-west of the town of Littlefield, consists of the addition of four timber spans to the south end of Beaver Dam Creek bridge, the excavation of a portion of the upstream channel and the placing of steel jetties, and is to be completed on or before March 31, 1933. The principal items are:

- 216 lin. ft. wire mesh and steel hand-rail (C.I.P.);
- 2 squares clearing and grubbing;
- 3000 cu. yds. drainage excavation;
- 1500 cu. yds. approach fill;
- 300 cu. yds. mt. haul of approach fill;
- 27 M.B.B. treated timber (C.I.P.);
- 2 M.B.M. untreated timber (C.I.P.)
- 1010 lin. ft. treated timber piles (C.I.P.)
- 26 lin. ft. treated timber pile cutoff;
- 100 sq. yds. sand asphalt wearing surface (C.I.P. on new extension);
- 604 sq. yds. sand asphalt wearing surface (C.I.P. on old bridge);
- 2 each water barrels (C.I.P.);
- 65 units steel jetties (C.I.P.).

A proposal guarantee in cash or certified check of not less than 5% of the gross amount of the bid is required. T. S. O'Connell, State Highway Engineer.

ALAMEDA COUNTY, Cal.—Union Paving Co., 624 Call Bldg., San Francisco, at \$338,450.15 awarded contract by the State Highway Commission for about 6.7 miles between Dublin and Castro Hill, 4.4 miles to be graded and paved with Portland cement concrete and about 2.3 miles to be graded and surfaced with bituminous treated crushed gravel or stone surfacing (plant mix).

PERSHING COUNTY, Nevada.—As previously reported, until January 11, 2 P. M., bids will be received by S. D. Durkee, state highway engineer, Heroes Memorial Bldg., Carson City, to construct a cement concrete pavement through the city of Lovelock, 1.22 mi., involving:

- (1) 11,529 cu. yds. roadway excav.;
- (2) 1,700 cu. yds. struc. excav.;
- (3) 16,081 cu. yds. select borrow;
- (4) 1,746 sta. yds. overhaul;
- (5) .77 mile subgrade, 10-ft. width;
- (6) .12 mile subgrade, 20-ft. width;
- (7) 12,930 sq. yds. subgrade for pave.
- (8) 2 acres clearing;
- (9) 2684 cu. yds. reinf. cement gravel
- (10) 1600 cu. yds. crushed gravel or crushed rock in place;
- (11) 124 cu. yds. Class A concrete;
- (12) 2 cu. yds. Class B concrete;
- (13) 30 lin. ft. 15-in. corr. metal pipe
- (14) 70 lin. ft. 36-in. do;
- (15) 86 lin. ft. 48-in. do;
- (16) 208 lin. ft. 24-in. part circle c.m.p.
- (17) 1026 lin. ft. 4-in. sewer;
- (18) 450 lin. ft. 6-in. do;
- (19) 1274 lin. ft. 8-in. do;
- (20) 1726 lin. ft. 10-in. do;
- (21) 772 lin. ft. 12-in. do;
- (22) 10 monuments;
- (23) 11,971 gals. asph. fuel oil applied to surface;
- (24) 0.77-mi. mix (10-ft. width);
- (25) 0.12-mi. mix (20-ft. width);
- (26) 1.22-mi. finish roadway;
- (27) 2 removing wooden culverts;
- (28) force account, special detours;
- (29) 42 lin. ft. remove pipe culverts;
- (30) 109,200 lbs. reinf. steel;

- (31) 8,000 lbs. castings;
- (32) 1,574 lin. ft. remove and reset fence;
- (33) 516 lin. ft. construct fence.

Specifications obtainable from the above office and the county clerk's office at Lovelock on deposit of \$15, of which \$10 is returnable. Certified check 5% required with bid.

WASHOE COUNTY, Nev.—As previously reported, until Jan. 11, 3 P. M., bids will be received by S. C. Durkee, State Highway Engineer, Heroes Memorial Bldg., Carson City, for 5.423 miles of grading and asphaltic concrete surface between Reno and Huffakers, involving:

- (1) 10,300 cu. yds. roadway excav.;
- (2) 1,150 cu. yds. struc. excav.;
- (3) 34,057 cu. yds. select borrow;
- (4) 1,786 sta. yds. overhaul;
- (5) 15,100 sq. yds. subgrade for pave.
- (6) 69 demolish culvert inlets and outlets;
- (7) 2,500 sq. yds. demolish conc. pave.
- (8) 14,143 lin. ft. remove fence;
- (9) 4,322 lin. ft. remove and reconstruct fence;
- (10) 14,113 lin. ft. construct fence;
- (11) 2,900 lin. ft. enlarging expansion joint;
- (12) 30,300 lbs. reinf. steel;
- (13) 243 cu. yds. Class A concrete;
- (14) 160 cu. yds. Class B concrete;
- (15) 36 lin. ft. 15-in. corr. metal pipe
- (16) 886 lin. ft. 18-in. do;
- (17) 556 lin. ft. 24-in. do;
- (18) 66 lin. ft. 30-in. do;
- (19) 50 lin. ft. 36-in. do;
- (20) 183 lin. ft. remove pipe culverts;
- (21) 806 lin. ft. remove and reset pipe culverts;
- (22) 842 lin. ft. 24-in. corr. metal siphon pipe;
- (23) 72 lin. ft. 6-in. cast iron pipe;
- (24) 49,000 sq. yd. asph. paint binder;
- (25) 54,784 lin. ft. sideforms;
- (26) 32 cu. yds. riprap;
- (27) 96 lin. ft. timber guard rail;
- (28) 30 monuments;
- (29) 3,300 tons asph. conc. base course
- (30) 7,200 do, leveling course;
- (31) 7,100 do, wearing course;
- (32) 5.42 miles construct shoulders;
- (33) 1 furnish and install posts for F. A. M.;
- (34) 5.42 miles finish roadway;
- (35) 105 tons tread course;
- (36) 4 remove trees;
- (37) 5.42 miles paint center line;
- (38) 20 wooden diversion box.

Specifications obtainable from the above office or from county engineer on deposit of \$15, of which \$10 is returnable. Certified check 5% required with bid.

LOS ANGELES, Cal.—Spencer & Holt, Ltd., awarded contract by City Purchasing Agent, A. J. Holm, Dec. 29, at an estimated total of \$83,160, for furnishing oil and mineral aggregate under Specification No. 2970. The estimate per day is \$660, and per month \$13,860.

STOCKTON, San Joaquin Co., Cal.—Until Jan. 9, 5 P. M., (to be opened at 8 P. M.) bids will be received by B. L. Trahern, city clerk, to gravel certain roads and areas in the vicinity of the turning basin for the Port of Stockton, involving:

- (1) 5,000 cu. yds. grading;
- (2) 10,000 cementing road gravel.

Certified check 10% payable to City Auditor required with bid. Specifications obtainable from City Port Commission, Col. B. C. Allin, port director.

EL DORADO COUNTY, Cal.—MacDonald and Kahn, Financial Center Building, San Francisco, at \$98,935.25 awarded contract by U. S. Bureau of Public Roads for 3.223 miles grading

Section F of Route 32, Placerville-Lake Tahoe National Forest Highway El Dorado National Forest.

ARIZONA STATE—Parkard & Tanner, Phoenix, Ariz., submitted low bid at \$54,990.63 to Arizona State Highway Commission, Phoenix, Dec. 28, for highway construction on the Benson-Vail Highway, E-18-C (A.F.E. No. 8055). The work, which begins at a point about 5 1/2 miles west of the Pima-Cochise County Line and extends easterly to the county line, consists of grading, draining and placing of subgrade stabilizer, and is to be completed on or before May 31, 1933.

ARIZONA STATE—R. H. Martin, Tucson, Ariz., submitted low bid at \$96,256.27 to Arizona State Highway Commission, Phoenix, December 28, for highway construction on the Benson-Vail Highway E-18-B (A. F. E. No. 8054). The work, which begins at the north end of Cienega Creek Bridge and extends easterly approximately six and one-third (6 1/3) miles, consists of grading, draining and placing of subgrade stabilizer, and is to be completed on or before June 15, 1933. Quantities listed in issue of December 17.

ARIZONA STATE—Ralph Pleasant Constr. Co., Phoenix, Ariz., submitted low bid at \$970,608.46 to Arizona State Highway Commission, Phoenix, Dec. 28, for highway construction on the Benson-Vail Highway, E-18-D (A. F. E. No. 8052), E-18-E (A. F. E. No. 8019). The work, which begins at the Pima-Cochise County line and extends easterly approximately 9.33 miles to the west city limits of Benson, consists of grading, draining and placing of subgrade stabilizer in part and oil processing the entire length by the plant mix method, and is to be completed on or before June 15, 1933.

WASHINGTON STATE—Until Jan. 24, 10 A. M., bids will be received by Samuel J. Humes, Director of Highways, to grade and surface 3 miles of State Road No. 4, Section 2 of Tonasket easterly E. C. H. Proj. No. E-65 and E-103 in Okanogan county, involving:

- 29 acres clearing;
- 164,780 cu. yds. excavation;
- 6,480 cu. yds. crushed stone;
- 467 cu. yds. concrete;
- 923 lin. ft. pipe culverts.

Specifications obtainable from office at Olympia on deposit of \$2, returnable. Proposal guarantee, 5%.

LOS ANGELES, Cal.—All bids for constructing about 100 miles of trails in the San Gabriel Watershed, opened Dec. 19, were rejected by the County Supervisors Dec. 27. The work will be done by the district forces.

SEATTLE, Wash.—Until Jan. 11, 10 A. M., bids will be received by Board of Public Works, G. W. Roberge, secretary, to improve Ryan St. and 56th Ave. south by constructing sewers.

Certified check 5% payable to City Comptroller required with bid. Specifications obtainable from above office or from City Engineer.

SALINAS, Monterey Co., Calif.—Until Jan. 16, 7:30 P. M., bids will be received by J. F. Iverson, city clerk, to furnish a hydro-pneumatic pressure system pump, 50-gpm., for 1000-gal. tank, to be installed in Central Park. Estimated cost, \$1500. Sam Davies, city engineer. Certified check 10% required with bid.

BUILDING NEWS

CHURCHES

Preliminary Plans Prepared
CHURCH Cost, \$—
MONTEREY, Monterey Co., Cal.
 One-story frame church.
 Owner—Christian Science Church.
 Architect—Swartz & Ryland, Spazier
 Building, Monterey.

FACTORIES AND WARE- HOUSES

Plans Being Prepared.
EXTENSION Cost, \$—
 Extension of wharf shed for Dock No.
 2 (150x92 feet) steel frame, five
 rolling doors, copper bearing
 monitor sash, copper gutters; out
 side walls of reinforced concrete.
 Owner—United States Government.
 Plans by Constructing Quartermaster,
 Fort Mason, San Francisco.
 Bids will be asked in about thirty
 days.

Plans Being Completed.
DISTRIBUTING PLANT Cost, \$5000
OAKLAND, Alameda Co., Cal. Vic-
 inity of 46th and Clement Sts.
 One-story wood frame and corrugated
 iron distributing plant.
 Owner—Richfield Oil Co., 248 Battery
 St., San Francisco.
 Plans by Eng. Dept. of Owner, P. L.
 Mott, engineer.
 Bids will be asked about Jan. 9.

TUCSON, Ariz.—Oliver M. Preston,
 1603 E. Sixth St., Tucson, has secured
 an option on property located on
 South 25th St., Tucson, where he pro-
 poses erecting a brewery. A 50,000-
 gallon well is located on the site. The
 plant will cost \$250,000, of which \$150,-
 000 has been subscribed, according to
 Mr. Preston.

Contract Awarded.
CANNERY Cost, \$50,000
CHICO, Butte Co., Cal.
 Wood frame and corrugated iron can-
 nery (50x400 ft.) asbestos roof,
 machinery, etc.
 Owner—Western Canning Co., Ltd.
 (George Newman, director).
 Architect—Willis Lowe, 1056 Hubert
 Road, Oakland.
 Contractor—Harry Schuster Co., Ltd.,
 354 Hobart St., Oakland.

GARAGES AND SERVICE STATIONS

Plans Being Figured—Bids Close Jan.
 12.
SERVICE STATION Cost, \$—
PALO ALTO, Santa Clara Co., Cal.
 Service station.
 Owner—Associated Oil Co., 79 New
 Montgomery St., San Francisco.
 Plans by Engineering Dept. of Owner.

GOVERNMENT WORK AND SUPPLIES

WASHINGTON, D. C.—Murch
 Bros. Construction Co., Railway Ex-
 change Bldg., St. Louis, Mo., at
 \$229,000 awarded contract by Treas-
 ury Department for the construction
 of the Federal Building to house the
 U. S. Forest Service Office to be
 erected at Ogden, Utah. Hodgson &
 McClellan, Ogden, Architects.

WASHINGTON, D. C.—George A.
 Whitmayer, Ogden, Utah, at \$52,499
 awarded contract by Treasury De-
 partment, for the construction of the
 Class A Post Office building to be
 erected at Tooele, Utah, for the United
 States Government.

WASHINGTON, D. C.—Herman
 Lawson, 465 Tehama St., San Fran-
 cisco, at \$7980 awarded contract by
 Treasury Dept. for a lawn sprinkler
 system at the Marine Hospital, San
 Francisco.

WASHINGTON, D. C.—As pre-
 viously reported Edwin Guth, Jefferson
 and Washington Aves., St. Louis, Mo.,
 at \$377 submitted low bid to Treasury
 Department for interior Lighting Fix-
 tures for the Post Office building at
 St. Johns, Oregon. M. F. Stokes,
 Commerce Bldg., Portland, Architect.
 Following is a complete list of bids:
 Edwin F. Guth Co., St. Louis, Mo.

.....	\$377
Moe-Bridges, Milwaukee, Wis.....	379
H. A. Framburg Co., Chicago.....	390
Ivanhoe Div. of Miller Co., Meri- den, Conn.....	443
Walter G. Warren Co., Chicago.....	453

Bids held under advisement.

SUNNYVALE, Santa Clara Co., Cal.
 —Until Jan. 25, 11 A. M., bids will be
 received by Bureau of Yards and
 Docks Navy Department, Washing-
 ton, D. C., for nonclimable and field
 wire fencing at the Naval Air Station,
 Sunnyvale. Specification No. 7032.
 Plans and specifications available
 from above office and from the Com-
 mandant, Twelfth Naval District, 100
 Harrison St., San Francisco, upon de-
 posit of \$10.

SUNNYVALE, Santa Clara Co., Cal.
 —Until Jan. 25, 11 A. M., bids will be
 received by Bureau of Yards and
 Docks, Navy Department, Washing-
 ton, D. C., for providing and installing
 door, window and transom screens at
 the Naval Air Station, Sunnyvale.
 Specification No. 7076. Plans and
 specifications available from above of-
 fice or from Commandant, Twelfth
 Naval District, 100 Harrison St., San
 Francisco, upon deposit of \$10.

Commissioned To Prepare Plans.
POST OFFICE Cost, \$144,000
WHITTIER, Los Angeles Co., Cal.
 Class A Post Office.
 Owner—United States Government.
 Architect—R. L. Warren, Emporium
 Bldg., Whittier.

YERBA BUENA ISLAND, Calif.—
 Healy-Tibbitts Const. Co., 64 Pine St.,
 at \$7364 awarded contract by Public
 Works Officer, 12th Naval District for
 extension to Pier No. 2, repairs to
 Pier No. 1 and repairs to salt water
 suction pipe trestle at Yerba Buena
 Island. Spec. No. 7162.

PALO ALTO, Santa Clara Co., Cal.
 —W. B. Baker & Co., Inc., 15 Harriet
 St., San Francisco, at \$848 awarded
 contract by Supervising Superinten-
 dent of Construction, Veterans' Hos-
 pital, Palo Alto, for a ventilating
 system, etc., in the Recreation Build-
 ing at Palo Alto.

SUNNYVALE, Santa Clara Co., Cal.
 —Until January 11, 11 A. M., bids will
 be received by Bureau of Yards and
 Docks, Navy Department, Washing-

ton, D. C., for automatic interior com-
 municating system in hangar at the
 Naval Air Station, Sunnyvale. Spec.
 No. 7137.

Plans will be obtainable from the
 Bureau or from the Commandant, 12th
 Naval District, 100 Harrison St., San
 Francisco, upon deposit of a check or
 postal money order for \$10, payable to
 the Chief of the Bureau of Yards and
 Docks.

WASHINGTON, D. C.—As previous-
 ly reported, H. A. Framburg, Chicago,
 at \$490 submitted low bid to Treasury
 Department, Washington, D. C., for
 fixtures for the post office building at
 Monterey, Calif. W. O. Raiguel, Hot-
 tel Del Monte, Monterey, architect.
 Following is a complete list of the
 bids:

H. A. Framburg, Chicago.....	\$ 490
E. F. Guth Co., St. Louis.....	516
W. G. Warren Co., Chicago.....	572
Moe Bridges, Milwaukee.....	595
Butler-Kohaus.....	1120

Bids held under advisement.
 (32) 1st report Nov. 26; 3rd, Dec. 24,
 1932. 7

Additional Prospective Bidders.
ADDITION Cost, \$50,000
SAN FRANCISCO, Presidio.

Three-story reinforced concrete addi-
 tion to headquarters building (85
 ft.) flat roof, passenger elevator,
 plumbing, hot water heating system,
 to contain the present plant.
 Owner—United States Government.
 Plans by Constructing Quartermaster,
 Fort Mason.

Following are additional prospec-
 tive bidders. Bids open Jan. 17th, 11
 A. M.:

Lynn & Heffernan, 114 Ashton Ave.
 G. W. Williams & Co., Ltd., 315
 Primrose Ave., Burlingame.
 Crown Electric Co., 153 Eddy St.
 W. G. Thompson, 336 Church St.
 D. Phillips, 230 Octavia St.
 Skelly & Kohler, 1342 9th Ave.
 W. H. Epperson, 538 Howard St.
 Thos. R. Smith, 1483 Palm Ave.
 Petersen-Brady Co., 259 Clara St.
 J. S. Hannah, 268 Market St.
 Matson-Seabrooke Co., 4115 Broad-
 way, Oakland.
 J. A. Fazio, 402 Castro St., Oakland.
 Thos. J. Doyle, 1527 17th Ave.
 Robert McCarthy, 1363 14th Ave.
 All bids of San Francisco unless
 otherwise noted.

Commissioned To Prepare Plans.
POST OFFICE Cost, \$99,000
SAN GABRIEL, Los Angeles Co., Cal.
 Post Office.
 Owner—United States Government.
 Architect—Scott Quintin, 418 N. Cali-
 fornia St., San Gabriel.

To Ask Bids About Jan. 15.
FEDERAL BLDG. Total cost \$3,500,000
SAN FRANCISCO, Civic Center.
 Rough excavation for six-story and
 basement reinforced concrete Fed-
 eral Office Building (granite ex-
 terior, terra cotta court lining,
 lead covered copper roofing, ter-
 razzo and premenade tile flooring,
 mastic tile floors in offices, steam
 heat).

Owner—United States Government.
 Architect—Arthur Brown Jr., 251
 Kearny St., San Francisco.
 Mechanical Engineer—Leland & Haley
 58 Sutter St., San Francisco.
 Structural Engineer—C. H. Snyder,
 251 Kearny St., San Francisco.

Bids Wanted—To Close Feb. 15.
POST OFFICE Cost, \$150,000
VISALIA, Tulare Co., Cal. Acequita and Locust Streets.
 One-story and basement Class A concrete and steel post office (brick, granite and terra cotta exterior, concrete floors and roof slabs).
 Owner—United States Government.
 Architect—W. D. Coates, Jr., Rowell Bldg., Fresno.

SAN FRANCISCO.—Electrical Communication Co., 121 2nd St., at \$857 submitted low bid to Signal Officer, 9th Corps Area, Presidio, for modification of the telephone switchboard and additions to switchboard.; Only other bid was submitted by Telephone Equip. Co. at \$960. Bids held under advisement.

Contract Awarded.
QUARTERS Cent. Price, \$103,000
ROCKWELL FIELD, Coronado, Calif. Ten quarters.
 Owner—United States Government.
 Plans by Supervising Architect, Treasury Dept., Washington, D. C.
 Contractor—Bannister Field Co., Ltd., 4101 Goodwin St., Los Angeles.
 (88) 1st report Nov. 26; 4th Dec. 27, 1932.

WASHINGTON, D. C.—As previously reported, North Moller Company, Jackson, Michigan, at \$104,989 submitted low bid to Treasury Department, for the construction of the Post Office Building to be erected at Redlands, Calif., for the U. S. Government. G. Stanley Wilson, 3646 W. 9th St., Riverside, Architect.

Following is a complete list of bids.
 North-Moller Co., Jackson, Michigan, \$104,989.
 Murch Bros. Constr. Co., St. Louis, Mo., \$108,900.
 Sarver & Zoss Inc., Los Angeles, \$109,400.
 Herbert M. Baruch Corp. Inc., Los Angeles, \$109,913.
 Bannister-Field Co., Ltd., Los Angeles, \$111,392.
 Orndorff Constr. Co., Los Angeles, \$112,750.
 Reid & Alexander, Huntington Park, \$125,900.
 Weymouth-Crowell Co., Los Angeles, \$125,300.
 J. P. Foley Const. Co., Inc., Boston, Mass., \$137661.

SACRAMENTO, Cal.—Interstate Bronze Mfg. Co., P. O. Box 565, Culver City, at \$4120 awarded contract by Treasury Department, Washington, D. C., for furnishing and installing fixtures in the Post Office building at Sacramento. Starks & Flanders, Forum Bldg., Sacramento, Architect.

SAN DIEGO, Cal.—Until 11 A. M., January 17, bids will be received by the Public Works Officer, 11th Naval District, San Diego, for furnishing and installing a water softener at the Radio Direction Finder Station, Point Arguello, Calif. The work includes the furnishing and installing of a one-unit water softener with salt tank, necessary control equipment and piping connected to present water supply system, and timber enclosure for water softening unit. If bidding data is desired, bidders should forward to the Public Works Officer, Headquarters, Eleventh Naval District, Foot of Broadway, San Diego, Calif., a check or postal money order for \$10, payable to the Chief of the Bureau of Yards and Docks, as security for the safe return of the drawing and specification. Data will then be mailed

for bidding purposes. DeWitt C. Webb, Captain, U.S.N., Public Works Officer.
RIO VISTA, Solano Co., Cal.—Harbor Tug & Barge Co., Pier 16, San Francisco, at \$3300 submitted low bid to U. S. Engineer Office, Sacramento, to rent gasoline, diesel or distillate engine launch for six months. Complete bids follow:

Harbor Tug & Barge Co., San Francisco, \$550 per month; \$3300.
 Crowley Launch & Tug Boat Co., San Francisco, \$650 per month; \$3900.
 Heringer & Scott, Rio Vista, \$750 per month; \$4500.
 Rio Vista Lighterage Co., Rio Vista \$65 per day (including two men).
 Bids held under advisement.

SUNNYVALE, Santa Clara Co., Cal. —Until Jan. 25, 11 A. M., bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., for nonclimbable and field wire fencing at the Naval Air Station, Sunnyvale. Specification No. 7032. Plans and specifications available from above office and from the Commandant, Twelfth Naval District, 109 Harrison St., San Francisco, upon deposit of \$10.

SUNNYVALE, Santa Clara Co., Cal. —Bureau of Yards and Docks, Navy Department, Washington, D. C., will advertise for bids shortly for service system extensions at the Naval Air Station, Sunnyvale; Specification No. 7161. Work will consist of the installation of motor-driven gasoline pumps, gas storage tanks, pump pits, light, power and telephone manholes, transformers, electrical apparatus and all piping and wiring accessories.

WASHINGTON, D. C.—H. S. Tittle, 85 Columbia Square, San Francisco, at \$3986 submitted low bid to Bureau of Yards and Docks, Navy Department, Washington, D. C., for a fire alarm system, consisting of call boxes, electric air horn, gongs, control board equipment, wires, cables, and connections at the Naval Air Station, Sunnyvale, Calif., Spec. No. 6984. Second low bid was submitted by the Mutual District Messenger Company, New York, at \$4270. Complete list of bids will be published shortly.

WASHINGTON, D. C.—As previously reported, Lindgren & Swinerton, Inc., 225 Bush Street, San Francisco, at \$625,543 submitted low bid to Treasury Department, Washington, D. C., for the construction of a four-story Class A reinforced concrete addition to the San Francisco post office, located on Seventh and Mission Streets. George W. Kelham, 315 Montgomery St., San Francisco, architect.

Following is complete list of the bids received:

Lindgren & Swinerton, Inc., San Francisco	\$625,543
Herbert M. Baruch Corp., Los Angeles	625,987
Dinwiddie Construction Co., San Francisco	629,000
Murch Bros. Construction Co., St. Louis, Mo.	634,000
Clinton Construction Co., San Francisco	640,000
MacDonald & Kahn, San Francisco	652,877
R. E. Campbell, Los Angeles	700,000
Anderson & Ringrose, San Francisco	710,000
Alfred H. Vogt, San Francisco	710,000
Schuler & McDonald, Oakland	717,000

SAN RAFAEL, Marin Co., Calif.—Pittsburgh-Des Moines Steel Co., RI-

alto Bldg., San Francisco, at \$7,832 awarded contract by the Constructing Quartermaster, Hamilton Field, to construct 250,000-gallon capacity steel standpipe with concrete foundations, and connect same to existing distribution system at Hamilton Field (Marin Meadows) Bombing Base.

Bids Wanted—To Close January 13, 11 A. M.
OFFICERS' QTRS. Cost, \$311,800
FORT SAM HOUSTON, Texas.
 Three field officers' quarters and twenty-one company officers' quarters at Fort Sam Houston.
 Plans by Constructing Quartermaster, Fort Sam Houston, Texas.

SCOFIELD BARRACKS, Honolulu. --Bids will be asked shortly by Post Quartermaster, Scofield Barracks, Honolulu, for approximately 500,000 cu. yds. of excavation at Scofield Barracks. The Post Quartermaster desires to hear from contractors who would be interested in this work.

PEARL HARBOR, T. H.—J. L. Young Engineering Co., Honolulu, at \$11,900 awarded contract by the Bureau of Yards and Docks, Navy Department, Pearl Harbor, for tile and wire mesh partitions to be installed at the Fleet Air Base, Pearl Harbor. Specification No. 6819.

PEARL HARBOR, T. H.—Bureau of Yards and Docks, Navy Department, Washington, D. C., will call for bids shortly for furnishing and installing air conditioning system at the Naval Operating Base (Fleet Air Base), Pearl Harbor, T. H.; Specification No. 7165. A deposit of \$10 will be required for plans.

BINGHAM CANYON, Utah.—Until 2 P. M., January 27, bids will be received by the Treasury Department, Office of the Supervising Architect, Washington, D. C., for furnishing and installing interior lighting fixtures in the United States Post Office at Bingham Canyon, Utah. Plans may be obtained from the architect in Washington.

HAWTHORNE, Nev.—Stone Heating & Ventilating Co., Washington, D. C., at \$8,210 submitted low bid to the Bureau of Yards and Docks, Navy Department, Washington, D. C., to furnish 100-k.w. gasoline engine-driven generating set, including switchboard, gasoline tanks, piping, wiring and accessories at the Naval Ammunition Depot, Hawthorne, under Spec. No. 7050. Buffalo Gas Motor Co., second low at \$8,470.

MARE ISLAND, Cal.—Wheeler Corporation, 165 Broadway, New York, submitted low bid under each item to Bureau of Yards and Docks, Navy Department, Washington, D. C., under Spec. No. 7119, to furnish four 1000-hp. water tube boilers with air cooled settings, super-heaters, oil burners, automatic control equipment, with master control, soot blowers, boiler appurtenances, valves and piping in connection with the central power plant at the Mare Island Navy Yard. Two low bids on each item follow:

Wheeler Corp., New York	(1) \$119,000
.....	(2) 123,100
.....	(3) 117,000
.....	(4) 120,100
Washington Iron Works, Seattle	(1) \$125,690
.....	(2) 139,813
R. G. Maylor Corp., L. A.	(3) \$118,390
Puget Sound Mach. Depot.	(4) \$134,500

January 5, 1933

Preparing Working Drawings.
 POST OFFICE Cost, \$99,000
 NORTH HOLLYWOOD, Los Angeles
 Co., Cal. Chandler Blvd. and
 Bakman St.
 Class A Post Office (110x85 ft.), Italian
 style; steel and masonry constr.
 Owner—United States Government.
 Plans by Supervising Architect, Treas-
 ury Dept., Washington, D. C.

SAN DIEGO, Cal.—M. H. Golden,
 California Bank Bldg., San Diego,
 awarded contract by Eleventh Naval
 District at San Diego, at \$57,875, for
 steam lines and tunnels for heating
 plant at Naval Operating Base (Train-
 ing Station), San Diego; Specifica-
 tion 7116 Work will include (a) a
 reinforced concrete tunnel extending
 between existing power plant at Ma-
 rine Corps Base and on Naval Train-
 ing Station, of approximately 5180 ft.;
 (b) steam and return piping and fit-
 tings in tunnel; (c) certain steam
 and return piping in existing power plant;
 (d) the connecting of new steam and
 return pipes with existing steam and
 return pipes in existing conduit and
 in power house; and (e) miscellaneous
 piping and electrical changes as re-
 quired for completion of work.

Date of Opening Bids Postponed Until
 January 10.

QUARTERS Cost, \$—

ROCKWELL FIELD, Coronado, Cal.
 Sixteen sets of bachelor officers' quar-
 ters (171x225, extreme dimensions
 one-story, U-shaped hollow con-
 crete or hollow tile with stucco
 exterior construction, cast stone
 trim, wrought iron, dry-fill insu-
 lation, tile patio, etc.

Owner—United States Government.
 Plans by Constructing Quartermaster,
 Rockwell Field, Coronado.

Bids were previously reported to be
 opened December 29.

WASHINGTON, D. C.—As previ-
 ously reported, H. S. Tittle, 85 Col-
 umbia Square, San Francisco, at
 \$3,980 submitted low bid to Bureau of
 Yards and Docks, Navy Department,
 Washington, D. C., for a fire alarm
 system, consisting of call boxes, elec-
 tric air horn, gongs, control board
 equipment, wires, cables and connec-
 tions at the Naval Air Station, Sun-
 nyvale, Cal. Specification No. 6984. Fol-
 lowing is a complete list of the bids
 received.

H. S. Tittle Co., San Francisco.....	\$3,980
Mutual District Messenger Co., New York City	4,272
W. B. Baker & Co., Inc., S. F.....	5,695
Lynn & Heffernan, S. F.....	6,555
E. C. Nickel, Los Angeles.....	6,930
Gamewell Co., Newton Upper Falls, Mass.	7,621
H. A. Bauerle, Los Angeles.....	7,811

Bids held under advisement.

SAN DIEGO, Cal.—J. A. Hunt, P.
 O. Box 146, East San Diego, submit-
 ted low bid to 11th Naval District
 at \$1593, for facilities for securing
 airplanes at the Naval Operating Base
 (Air Station), San Diego; Spec. No.
 7169. The work will consist of the
 provision and installation of 847 5½-
 in. diameter, cast iron mooring eyes
 in existing concrete and asphalt ma-
 cadam pavements. Other bids were:
 R. E. Hazard Cont. Co., \$1598; B. G.
 Carroll, \$1619; Walter Trepte, \$1627;
 Miracle Co., \$1650; Lipscomb & Arnett
 \$1692; Roy J. Phillips, \$1745; Contrac-
 ting Engineers, \$1771; South Gate Iron
 Works, \$1795; Griffith Co., \$1928.16; E.
 A. Irish, \$1987; H. H. Peterson, \$2320;
 Chas. and F. W. Steffgen, \$2374; R.
 H. Travers, \$2573.

POWER PLANTS

LOS ANGELES, Cal.—Schedule of
 items for the proposed transmission
 line to be constructed between Ca-
 hazon and Hayfield, for which bids
 are to be opened by the Metropolitan
 Water District, January 12 (previously
 noted), follow:

- (1) Construction of transmission line
 from Cabazon to Hayfield, also
 Lakeview to Valverde, using cop-
 per conductor;
 (a) Will commence construction
 within — days after notification
 to proceed, and will complete con-
 struction within the number of
 days after such notification set
 opposite the respective locations
 as follows:
 (b) Cabazon to Fan Hill, and
 Lakeview to Valverde, and 33 kv.
 from Fan Hill to Long and Fargo,
 within — days;
 (c) Fan Hill to Hayfield including
 33kv. to Whitehouse and Mecca
 Pass East Portal, within — days

The following allowance will be
 made for structures or poles added to
 or subtracted from those specified
 herein. Cost of guy material at angle
 corners shall be included.

- (d) Drawing C1050-1;
 (e) Drawing C1050-5;
 (f) Drawing C1050-6;
 (g) Drawing C1050-7;
 (h) Drawing C1050-11;
 (i) Drawing C1050-13;
 (j) Drawing C1050-14;
 (k) Drawing C1050-15;
 (l) Drawing C1050-39;
 (m) Drawing C1050-40;

(2) Alternative to Item 1:
 Construction of transmission line
 from Cabazon to Hayfield; also
 Lakeview to Valverde, using alumi-
 num conductor.

- (a) Will commence construction
 within — days after notification
 to proceed, and will complete con-
 struction within the number of
 days after such notification set
 opposite the respective locations
 as follows:
 (b) Cabazon to Fan Hill, and
 Lakeview to Valverde, and 33 kv.
 from Fan Hill to Long, and Fargo,
 within — days;
 (c) Fan Hill to Hayfield, including
 33 kv. to Whitehouse and Mecca
 Pass, East Portal, within — days;
 (d) Drawing C1050-1;
 (e) Drawing C1050-5;
 (f) Drawing C1050-6;
 (g) Drawing C1050-7;
 (h) Drawing C1050-11;
 (i) Drawing C1050-12;
 (j) Drawing C1050-14;
 (k) Drawing C1050-15;
 (l) Drawing C1050-39;
 (m) Drawing C1050-40;

(3) Construction of a 66,000-volt sub-
 station at Fan Hill;

- (a) Will commence construction of
 substation within — days after
 notification to proceed; and
 (b) Will commence construction
 within — days after such noti-
 fication;

(4) Construction of fourteen 33,000-
 volt substations adjacent to Val-
 verde, West Coachella and East
 Coachella tunnels;

- (a) Allowance to be made for each
 substations, not exceeding three,
 added to or omitted from the num-
 ber specified;
 (b) Will commence construction
 within — days after notification
 to proceed, and will complete con-
 struction within the number of
 days after such notification set
 opposite the respective locations
 as follows:

(c) Long, Deception, Berdoo, Far-
 go, Valverde, West Shaft, and
 Valverde East Shaft, within —
 days;

(d) Whitehouse, Blind, East Wide,
 West Pashawalla, and Yellow
 Spots, within — days;

(e) Mecca Pass W. Portal, Mecca
 Pass E. Portal and Hayfield with-
 in — days;

(5) Construction of all lines and sub-
 stations, furnishing all materials
 except, poles, conductors, insula-
 tors, insulator pins, transformers,
 condensers and oil circuit break-
 ers, using copper conductors,
 (lump sum);

(a) Will commence construction
 within — days after notification
 to proceed, and will complete con-
 struction within the number of
 days after such notification set
 opposite the respective locations
 as follows:

(b) Transmission lines from Ca-
 hazon to Fan Hill and Lakeview
 to Valverde, and 33 kv. from Fan
 Hill to Long and Fargo, within
 — days;

(c) Transmission line from Fan
 Hill to Hayfield including 33 kv. to
 Whitehouse and Mecca Pass East
 Portal, within — days;

(d) 66 kv. substation at Fan Hill
 within — days;

(e) 33 kv. substations at Long,
 Deception, Berdoo, Fargo, Val-
 verde, West Shaft and Valverde
 East Shaft, within — days;

(f) 33 kv. substations at White-
 house, Blind, East Wide, Pasha-
 walla, and Yellow Spots within
 — days;

(g) 33 kv. substations at Mecca
 Pass West Portal, Mecca Pass
 East Portal, and Hayfield within
 — days;

The following allowances will be
 made for structures or poles added to
 or subtracted from those specified
 herein. Cost of guy material at angle
 corners shall be included.

- (h) Drawing C1050-1;
 (i) Drawing C1050-5;
 (j) Drawing C1050-6;
 (k) Drawing C1050-7;
 (l) Drawing C1050-11;
 (m) Drawing C1050-13;
 (n) Drawing C1050-14;
 (o) Drawing C1050-15;
 (p) Drawing C1050-39;
 (q) Drawing C1050-40;

(6) (Alternative to Item No. 5). Con-
 struction of all lines and substations,
 furnishing all materials except
 poles, conductors, insulators,
 insulator pins, transformers, con-
 densers and oil circuit breakers,
 using aluminum conductors (lump
 sum);

(a) Will commence construction
 within — days after notification
 to proceed and will complete con-
 struction within number of days
 after such notification set opposite
 the respective locations as follows:

(b) Transmission lines from Ca-
 hazon to Fan Hill and Lakeview
 to Valverde and 33 kv. from Fan
 Hill to Long and Fargo, within
 — days;

(c) Transmission line from Fan
 Hill to Hayfield, including 33 kv.
 to Whitehouse and Mecca Pass
 East Portal, within — days;

(d) 66 kv. substation at Fan Hill,
 within — days;

(e) 33 kv. substation at Long, De-
 ception, Berdo, Fargo, Valverde
 West Shaft and Valverde East
 Shaft, within — days;

(f) 33 kv. substations at White-
 house, Blind, East Wide, Pasha-
 walla and Yellow Spots, within
 — days;

(g) 53 kv. substations at Mecca Pass West Portal, Mecca Pass East Portal and Hayfield, within — days;

The following allowance will be made for structures or poles added to or subtracted from those specified herein. Cost of guy material at angle corners shall be included:

- (h) Drawing C1050-1;
- (i) Drawing C1050-5;
- (j) Drawing C1050-6;
- (k) Drawing C1050-7;
- (l) Drawing C1050-11;
- (m) Drawing C1050-12;
- (n) Drawing C1050-14;
- (o) Drawing C1050-15;
- (p) Drawing C1050-39;
- (q) Drawing C1050-40;

(7) 211,600 circular mil (4/0) B&S) seven-strand copper;

(a) 180,000 lbs. f.o.b. Cabazon, per 100 lbs.;

(a1) 240,000 lbs. f.o.b. Garnet, per 100 lbs.;

(a2) 234,000 lbs. f.o.b. Indio, per 100 lbs.;

(a3) 268,000 lbs. f.o.b. Mecca, per 100 lbs.;

(b) 100,000 lbs f.o.b. Cabazon, per 100 lbs.;

(b1) 240,000 lbs. f.o.b. Garnet, per 100 lbs.;

(b2) 243,000 lbs. f.o.b. Indio, per 100 lbs.;

(b3) 370,000 lbs. f.o.b. Mecca, per 100 lbs.;

(b4) 300,000 lbs. f.o.b. Rice, per 100 lbs.;

(c) Will deliver any one of the first three lots of either Item 7 (a) or 7 (b) within — days after notification to proceed;

(d) Will deliver any additional lot of either Item 7 (a) or 7 (b) within — days after notification to proceed;

Reels: Reels will be charged for at (e) \$— each and a credit of (f) \$— each will be allowed when returned to point of delivery in good condition (reasonable wear and tear excepted) within (g) — months from date of shipment;

(h) A discount of — per cent will be allowed if payment is mailed to the contractor within 10 days

(8) (Alternative to Item No. 7)

236,400 circular mil steel reinforced aluminum cable, with vibration dampers;

(a) 56,000 lbs. f.o.b. Cabazon, per 100 lbs.;

(a1) 134,000 lbs. f.o.b. Garnet, per 100 lbs.;

(a2) 131,000 lbs. f.o.b. Indio, per 100 lbs.;

(a3) 159,000 lbs. f.o.b. Mecca, per 100 lbs.;

(b1) 56,000 lbs. f.o.b. Cabazon, per 100 lbs.;

(b2) 134,000 lbs. f.o.b. Garnet, per 100 lbs.;

(b3) 131,000 lbs. f.o.b. Indio, per 100 lbs.;

(b4) 267,000 lbs. f.o.b. Mecca, per 100 lbs.;

(b5) 169,000 lbs. f.o.b. Rice, per 100 lbs.;

(c) Will deliver any one of the first three lots of either Item 7 (a) or 7 (b) within — days after notification to proceed;

(d) Will deliver any additional lot of either Item 7 (a) or 7 (b) within — days after notification to proceed;

Reels: Reels will be charged for at (e) \$— each and a credit of (f) \$— each will be allowed when returned to point of delivery in good condition (reasonable wear and tear excepted) within (g) — months from date of shipment;

(h) A discount of — per cent will be allowed if payment is mailed to the contractor within 10 days of receipt of material;

(9) 133,225 circular mil (2/0 B&S) seven-strand copper;

(a) 64,000 lbs. f.o.b. Valverde, per 100 lbs.;

(a1) 134,000 lbs. f.o.b. Garnet, per 100 lbs.;

(a2) 148,000 lbs. f.o.b. Indio, per 100 lbs.;

(a3) 64,000 lbs. f.o.b. Valverde, per 100 lbs.;

(b1) 54,000 lbs. f.o.b. Cabazon, per 100 lbs.;

(b2) 188,000 lbs. f.o.b. Garnet, per 100 lbs.;

(b3) 148,000 lbs. f.o.b. Indio, per 100 lbs.;

(b3) 148,000 lbs. f.o.b. Indio, per 100 lbs.;

(b4) 270,000 lbs. f.o.b. Mecca, per 100 lbs.;

(b5) 670,000 lbs. f.o.b. Rice, per 100 lbs.;

(c) Will deliver any two of the first three lots of either Item 9 (a) or (b) within — days after notification to proceed;

(d) Will deliver any additional lot of either Item 9 (a) or 9 (b) within — days after notification to proceed;

Reels: Reels will be charged for at (e) \$— each and a credit of (f) \$— each will be allowed when returned to point of delivery in good condition (reasonable wear and tear excepted) within (g) — months from date of shipment;

(h) A discount of — per cent will be allowed if payment is mailed to the contractor within 10 days of receipt of material;

(10) (Alternative to Item No. 9) 211,600 circular mil (4/0 B&S) steel reinforced aluminum cable, with armor rods;

(a) 45,600 lbs. f.o.b. Valverde, per 100 lbs.;

(a1) 95,500 lbs. f.o.b. Garnet, per 100 lbs.;

(a2) 65,000 lbs. f.o.b. Indio, per 100 lbs.;

(b) 45,600 lbs. f.o.b. Valverde, per 100 lbs.;

(b) 38,500 lbs. f.o.b. Cabazon, per 100 lbs.;

(b2) 134,000 lbs. f.o.b. Garnet, per 100 lbs.;

(b3) 165,500 lbs. f.o.b. Indio, per 100 lbs.;

(b4) 192,000 lbs. f.o.b. Mecca, per 100 lbs.;

(b5) 478,000 lbs. f.o.b. Rice, Calif.;

(c) Will deliver any two of the first three lots of either Item 9 (a) or 9 (b) within — days after notification to proceed;

(d) Will deliver any additional lot of either Item 9 (a) or 9 (b) within — days after notification to proceed;

Reels: Reels will be charged for at (e) \$— each and a credit of (f) \$— each will be allowed when returned to point of delivery in good condition (reasonable wear and tear excepted) within (g) — months from date of shipment.

(h) A discount of — per cent will be allowed if payment is mailed to the contractor within 10 days of receipt of material;

(11) 66,564 circular mil (No. 2 B & S) seven-strand copper;

(a) 16,600 lbs. f.o.b. Mecca;

(b) 16,000 lbs. f.o.b. Rice, Calif.;

(c) Will deliver the first lot of Item 11 within — days after notification to proceed;

(d) Will deliver second lot of Item 11 within — days after notification to proceed;

Reels: Reels will be charged for at (e) \$— each and a credit of (f) \$— each will be allowed when returned to point of delivery in good condition (reasonable wear and tear excepted) within (g) — months from date of shipment.

(h) A discount of — per cent will be allowed if payment is mailed to the contractor within 10 days of receipt of material;

(12) Suspension Insulators:

(a) 12,600 insulator units at \$— per unit;

(b) 18,000 insulator units at \$— per unit;

(c) Will deliver insulators f.o.b. cars at — within the number of days after notification to proceed set opposite the respective quantities as follows:

(d) First — units — days;

(e) Next — units — days;

(13) Pin Type Insulators:

(a) 3100 insulators at \$— per insulator;

(b) 13,100 insulator at \$— per insulator;

(c) Will deliver insulators f.o.b. cars at — within the number of days after notification to proceed set opposite the respective quantities as follows:

(d) First — insulators — days

(e) Next — insulators — days

(14) Pins for Pin Type Insulators:

(a) 3100 pins at \$— each;

(b) 13,100 pins at \$— each;

(c) Will deliver pins f. o. b. cars at — within the number of days after notification to proceed set opposite the respective quantities as follows:

(d) First — pins — days;

(e) Next — pins — days;

(15) Cedar Poles Butt Treated (for copper conductor):

(a) 10 25-ft. class 4 poles at \$— per pole;

(b) 20 35-ft. class 4 poles at \$— per pole;

(c) 1170 40-ft. class 4 poles at \$— per pole;

(d) 50 45-ft. class 4 poles at \$— per pole;

(e) 1300 50-ft. class 4 poles at \$— per pole;

(f) 250 55-ft. class 4 poles at \$— per pole;

(g) The bidder guarantees that the moisture content of the poles he proposes to furnish will not be more than — per cent;

(h) Will deliver poles f.o.b. — at (i) — within (j) — days after notification to proceed;

(16) (Alternative to Item No. 15). Cedar Poles, Butt Treated (for Aluminum conductor).

(a) 10 25-ft. Class 4 poles;

(b) 25 35-ft. Class 4 poles;

(c) 1170 40-ft. Class 3 poles;

(d) 1350 45-ft. Class 2 poles;

(e) 350 50-ft. Class 3 poles;

(f) The bidder guarantees that the moisture content of the poles he proposes to furnish will not be more than — per cent;

(g) Will deliver poles f.o.b. — at (h) — within (i) — days after notification to proceed;

(17) (Alternative to Item No. 15). Cedar Poles, Butt Treated:

(a) 10 25-ft. Class 4 poles;

(b) 25 35-ft. Class 4 poles;

(c) 1170 40-ft. Class 4 poles;

(d) 1350 45-ft. Class 2 poles;

(e) 350 50-ft. Class 2 poles;

(f) The bidder guarantees that the moisture content of the poles he proposed to furnish will not be more than — per cent;

(g) Will deliver poles f.o.b. — at (h) — within (i) — days after notification to proceed.

MEMBERS OF THE ASSOCIATED GENERAL CONTRACTORS

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Eaton & Smith (HPR).....	436
Fairbanks, A. J. & J. L., Inc. (HPR).....	4044
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Force Const. Co. (HP).....	6684
Franks Contractg. Co. (RPW), 260 California St., S. F., DOug.	5974
Frederickson Bros. (BHP).....	1264
Frederickson & Watson Const. (BPHR).....	6676
French, George J., Jr. (HP).....	8454
Gerwick, Ben C., Inc. (HP).....	988
Granite Construction Co. (BHPR).....	1639
Hanrahan Co. (HP).....	1711
Harney, Charles L. (HP).....	6790
Hauser, W. H. (HPR).....	0466
Heafey-Moore Co. (HP).....	433
Hemstreet & Bell (HP).....	5596
Heple, Earl W. (BHPR).....	1565
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Isbell Const. Co. (HP).....	2614
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Knapp, J. F. (HPR).....	3981
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McDonald, D. (HPR).....	1851
McGillivray Const. Co. (HPR).....	5291
McMillan, W. K. (HP).....	921
Mercer-Fraser Co. (BHPR).....	921
Nevada Contracting Co. (HPR).....	6072
Nevada Rock & Sand Co. (HP).....	8743
Nightbert, Fred W. (HP).....	4925
Pacific Pavements Co., Ltd. (HP).....	6294
Pacific States Construction Co. (HP).....	
Phillips, John, Co. (HP).....	
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Teichert, A., & Son, Inc. (HP).....	
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Young & Son Co., Ltd. (HP).....	

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Associated Oil Co. (Asso. Prod.).....	4800
Austin Western Road Machinery Co. (Road Machinery)	
.....435 Brannan St., San Francisco, DO.	2183
Autocar Sales & Service Co. (Autocar Trucks)	
.....326 Howard, San Francisco, UN.	4545
Bacon, Edward R., Co. (Road Machinery)	
.....Folsom and 17th Sts., San Francisco, HE.	3700
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Calaveras Cement Co.....	4224
California Corrugated Culvert Co. (Corrugated Pipe).....	5420
.....5th & Parker, West Berkeley, BE.	
Cement Gun Construction Co. (Gunite).....	8306
.....35 Second St., San Francisco, SU.	
Contractors' Ins. Agency (Insurance) 206 Sansome, S. F., SU.	3400
Cowell Lime & Cement Co. (Cement).....	4870
Geiger Iron Works (Equip.).....	1898
Granite Rock Co. (Crushed Rock).....	988
Harneschfeger Sales Corp. (Equip.).....	2313
Harron, Rickard & McCone Co. (Equip.).....	
.....1600 Bryant St., San Francisco, UN.	3740
Link-Belt Co. (Equip.).....	6400
Marion Steam Shovel Co. (Power Shovels)	
.....571 Howard St., San Francisco, KE.	7493
Modern Vehicle Co. (Mfrs. Steel Dump Bodies)	
.....437 4th St., San Francisco, GA.	1402
Murray & Ready (Labor Agency) 784 Howard St., S. F., SU.	1205
Northwest Engineering Co. (Shovels).....	7053
Pacific Coast Aggregates.....	8940
Pacific Coast Engineering Co. (Structural Steel).....	
.....Foot of W. 14th St., Oakland, HI.	1322
Pacific H. B. A. Steel Co., Inc. (Drill Steel).....	
.....540 Brannan St., San Francisco, GA.	6683
Pacific Portland Cement Co. (Golden Gate).....	
.....Hunter-Dulin Bldg., San Francisco, CA.	4100
Pland-Evans (Commissary).....	5923
Robinson Tractor Co. (Caterpillar Tractors)	
.....1705-09 E. 12th St., Oakland, FR.	2485
.....1175 Howard St., San Francisco	
Roebbling's, Jno. A., Sons Co. (Wire Rope)	
.....646 Folsom St., San Francisco, CA.	6490
Santa Cruz Portland Cement Co. (Santa Cruz)	
.....Crocker Bldg., San Francisco, GA.	3307
Shell Oil Co. (Shell Products).....	5400
Soule Steel Co. (Reinforcing Steel).....	4141
Spears-Wells Machinery Co. (Equip.).....	4100
Standard Oil Co. of Calif. (Standard Products)	
.....Standard Oil Bldg., San Francisco, SU.	7700
Traffic Service Bureau (Freight Audits) 24 Calif. St., S. F., GA.	6194
Union Oil Co. of Calif. (Union Prods.) Mills Bldg., S. F., SU.	1400
United Commercial Co., Inc. (Equip.) 234 Stewart St., S. F., DO.	0430
Western Pipe & Steel Co. (Steel Pipe) 444 Market, S. F., GA.	6788

SOUTHERN CALIFORNIA CHAPTER

1318 Pershing Square Bldg.—TRinity 9418
Los Angeles, Calif.

C. G. FitzGerald, President
Melville Dozier, Jr., Manager
LYNN S. ATKINSON, First Vice-President (Engineering Div.)
WM. A. SIMPSON, Second Vice-President (Building Div.)

The address of the firm is the same city in which is located the Chapter office unless otherwise shown in membership list.

Building Contractors

Atkinson, J. F.....	7783
Baruch Corp., Herbert M.....	5473
Bradley Constr. Co., K. R.....	2786
Burgin, W. Jay.....	81103
Bverts & Dunn.....	9602
Clinton Construction Co., 1103 Spring Arcade Bldg., Madison	2597
Crowell, Wm. C.....	6692
Crowell Co., Weymouth.....	5708
DeCamp-Hudson Co., Ltd.....	3382
Dixon, L. E., Co.....	4925
Escherich Bros.....	6294

Class of Construction: (B) Building; (H) Highway; (P) Public Works; (R) Railroad.

Hall, J. F.	531 Douglas Bldg.,	MUTual	6722
Houghton & Anderson	143 Rose St.,	MUTual	5430
K. P. Lowell & Co., Ltd.	606 Union Bank Bldg.,	VANDike	4072
Macdonald & Driver	311 Board of Trade Bldg.,	TUcker	6467
McKee, Robert E.	1128 Central Bldg.,	TRinity	0291
Miller, Geo. E.	401 N. Canon Dr.,	B. H.,	OXford
Simpson Construction Co.	1007 Architects Bldg.,	MUTual	7261
Snell, Fred C.	339 N. Beverly Dr.,	Beverly Hills,	OXford
Willard-Brent Co.	254 E. 27th St.,	Richmond	2101

Bridges, Foundations

Ledbetter Co., W. M.	Box 1264, Arcade St.,	CAPitol	13415
Oberg Brothers	707 San Fernando Bldg.,	ANGelus	8759
Raymond Concrete Pile Co.	1008 Washington Bldg.,	VANDike	6536

Highways, Paving, Grading

Basich Bros.	Torrance, Gardena	446
Bock, Geo. J.	1007 S. Harvard,	EMpire
Donovan & Sons, J. C.	4031 Goodwin Ave.,	OLympic
Ferry, Peter L.	San Fernando Rd. and Bdwy.,	Glendale, OL.
Fleming Construction Co.	Pomona	
Griffith Company	L. A. Railway Bldg.,	WESTmore
Hall-Johnson Co.	P. O. Box 387, Alhambra,	ELiot
Herz & Co., Geo.	310 Platte Bldg., San Bernardino,	S. B. 241-42
Heuser, Chas. U.	316 Allen Ave., Glendale,	DOuglas
Hudson, Chas. H.	408 Rives-Strong Bldg.,	VANDike
Jahn & Bressi	701 Lane Mortgage Bldg.,	TRinity
Lang Transportation Co.	5501 Santa Fe Ave.,	JEfferson
Lewis Construction Co.	300 S. Juanita St.,	WASHington
Packard & Tanner	905 W. Latham St.,	PhoeniX, Ariz.
Pearson & Dickerson	4485 Cypress, Riverside,	1600
Ross, M. S.	4011 Goodwin Ave.,	CAPitol
Wells & Bressler	P. O. Box 596, Santa Ana,	227
Willis, C. G., & Sons, Inc.	2119 E. 25th St.,	LAfayette

Pipe Lines, Water Works

American Concrete Pipe Co.	P. O. Box 1428, Arcade Sta.,	JE.	4211
Haverty Co., Thos.	316 E. 8th St.,	VANDike	1171
United Concrete Pipe Co.	Box 1, Station H, L. A.,	TWinoaks	9196

Subways, Conduits

Delta Construction Co.	P. O. Box 79, Compton
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Atkinson, Lynn S.	609 S. Grand,	TRinity	7451
Bartmus, Peter	Hollywood Riviera, Redondo,	TRinity	6404
Bent Bros., Inc.	418 S. Pecan S.,	ANGelus	7510
Campbell-Reichert Co.	4000 Whiteside Ave.,	ANGelus	0598
Cox, R. L.	1100 Westminster,	ALhambra	1699
Emsco Conc. Cutting Corp.	1517 Santa Fe Ave.,	VANDike	7168
Fitz-Gerald Eng. & Constr. Co.	216 Rowan Bldg.,	TRinity	5088
Foley, D. A., Constr. Co.	716 Grant Bldg.,	TUcker	7814
Kemper Const. Co., Ltd.	3701 Overland, Los Angeles		
Macco Construction Co.	Hynes, JEfferson	1148	
Merritt-Chapman-Scott Corp.	P. O. Box 507, San Pedro,	2880	
Mittry Bros. Construction Co.	722 Detwiler Bldg.,	VANDike	0210
Morrison-Knudsen Co.	411 West Fifth St.,	MUTual	7684
Robinson-Roberts Co.	706 Rives-Strong Bldg.,	TRinity	2889
Spicer, C. A.	818 Financial Center Bldg.,	TUcker	9570
Standard Dredging Co.	325 Central Bldg.,	TRinity	3253
Wattson, R. A.	1026 N. McCadden Pl.,	GRanite	4121

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Consolidated Rock Prod. Co.	656 S. Los Angeles St.,	TRinity	0241
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Graham Brothers	1215 W. 7th St., Long Beach,	L. B. 65251	
Hartford Accident & Ind. Co.	548 S. Spring St.,	MADison	
L. A. Brick Co.	1078 Mission Road,	ANGelus	
Sun Lumber Co.	Crescent Drive, Beverly Hills,	OXford	
Union Oil Co.	Union Oil Bldg.,	TUcker	

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Dyer Construction (B)	337 17th St.,	Oakland, HI.	3203
Furlong, Thos. H. L. (B)	460 Jerome Ave.,	Piedmont, HU.	0620
Jacobs & Pattiani (BP)	337 17th St.,	Oakland, CL.	3203
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Lesure, E. T. (B)	87 Ross Circle,	Oakland, OL.	0389
Littlefield, R. W. (B)	337 17th St.,	Oakland, HI.	0994
Lyons, W. E. (B)	354 Hobart SSt.,	Oakland, HO.	5325
Maurer, George J. Co. (B)	50 York Drive,	Oakland, HU.	3457
Nordstrom, David H. (B)	354 Hobart St.,	Oakland, CL.	7400
Pedgrift, James H. (B)	4106 Broadway,	Oakland, HU.	1300
Petersen, George (B)	1841 Bancroft, San Leandro,	TR.	2043
Petersen, James B. (B)	4021 Agua Vista,	Oakland, FR.	9887
Schultz, Herbert (B)	811 Mendocino,	Berkeley, AS.	2360
Sullivan & Sullivan (B)	2653 Best Ave.,	Oakland, AN.	4724
Thornally, W. G. (B)	354 Hobart St.,	Oakland, CL.	8476
Westlund, Fred J. (B)	625 40th St.,	Oakland, OL.	7446

Associate Members

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Cowell, Henry, Lime & Cemt. Co.,	81 Franklin St.,	Oakland, HI.
East Bay Glass Co.	621 Sixth St.,	Oakland
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Maxwell Hardware Co.	1320 Washington St.,	Oakland
Melrose Building Materials Co.	4591 Tidewater Ave.,	Oakland
Oakland Planning Mill	Second and Washington Sts.,	Oakland
Pacific Portland Cement Co.	111 Sutter, San Francisco,	CA.
Santa Cruz Portland Cement Co.	354 Hobart St.,	Oakland
Sunset Lumber Co.	400 High St.,	Oakland
Tilden Lumber Co.	Foot of University Ave.,	Berkeley

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Daley Corporation (HP)	4430 Boundary St.,	Randolph	1136
Dennis Constr. Co., V. R. (HP)	Box 183, Sta. A,	Hillcrest	8293
Ford, E. Paul (HP)	Box 201, E. San Diego,	Randolph	5101
Golden, M. H. (B)	404 California Bank Bldg.,	Franklin	7983
Grove, Cecil B.	4316 Island Ave.,	Franklin	7474
Hazard Constr. Co., R. E. (HP)	2508 Kettner Blvd.,	Franklin	6315
Jarboe Constr. Co. (B)	208 Spreckels Theatre Bldg.,	Franklin	3792
Kier Const. Co., W. E. (B)	First National Bank Bldg.,	Main	2427
Larsen, B. O. (B)	1340 E St.,	Main	4752
Miracle Constr. Co. (HP)	Box 601, E. San Diego,	Main	2295
Penick & Sons, T. B. (HP)	3075 L St.,	Main	4582

PACIFIC NORTHWEST BRANCH

4134 Arcade Building, Seattle, Wash.

JAS. MURDOCK, President
 J. C. COMPTON, Vice-President

H. V. BOGERT, Rec. Secretary

J. B. WARRACK, Treasurer
 P. L. CROOKS, Vice-Pres. and Secretary

PORTLAND CHAPTER

Multnomah Hotel—Atwater 7883—Portland, Ore.

Paul L. Crooks, President
 Ross B. Hammond, 1st Vice-President
 Philip Hart, 2nd Vice-President
 J. A. Lyons, Treasurer
 G. B. Herington, Executive Secretary

Baker Construction Co. (B)	Security Bldg.,	Atw.	9211
Christensen, Fred, Inc. (BHP)	187 E. 34th St.,	Ea.	8934
Cochrane Construction Co. (HP)	65th & Ainsworth,	TR.	5944

Compton, J. C. (HP)	McMinnville, Ore.,	McM.	106
Crooks, P. L., Inc. (HPR)	Henry Bldg.,	Atw.	7767
Dann, J. J. (PHR)	300 Henry Bldg.,	Atw.	5837
Edlefsen-Weygandt Co. (HP)	Foot of Jefferson,	Atwater	4090
Endicott, Wm.	Corvallis,	Oregon	
Gates, E. L. (HPR)	Eugene,	Oregon	
Gilpin Construction Co. (HPR)	Henry Bldg.,	Atw.	6220
Greenwood, A. C. (HPR)	500 N. Front St.,	Br.	3030
Guthrie & Co., A., Inc. (BPHR)	552 Sherlock Bldg.,	Atw.	8316
Hammond, Ross B. (B)	1312 Public Service Bldg.,	Atw.	2159
Hauser Bros. Construction Co. (PHR)	Multnomah Hotel,	Atw.	7441

Class of Construction: (B) BUILDING; (H) HIGHWAY; (P) PUBLIC WORKS; (R) RAILROAD.

Hoffman, L. H. (BP).....	Public Service Bldg., Atw.	3181
Jacobsen-Jensen Co. (PH).....	407 Stanton, Car.	3313
Johnson Contract Co. (HPR).....	414 Exchange Bldg., Atw.	0678
Johnson-Gardner Co. (HPR).....	414 Exchange Bldg., Atw.	0678
Kern & Kibbe (HPR).....	290 E. Salmon St., Ea.	4116
Kernan, F. J.....	Porter Bldg., At.	2055
La Pointe Constr Co.....	1291 Cumberland Rd., Be.	6000
Lindstrom & Feigenson (BPIHR).....	1991 Halsey St., Ta.	9226
Lyons, J. A. (BPIHR).....	1001 Halsey St., Tr.	2841
Milne Constr. Co.....	1853 E. Broadway, Tab.	7277
Morrison & Knudsen (BHPR).....	319 Broadway, Boise, Idaho	
Morgan, T. M. (H).....	5410 Wilshire Blvd., Los Angeles	
Newport Construction Co. (PHR).....	317 Exchange Bldg., Atw.	5900
Pacific Bridge Co. (BPIHR).....	Ft. of E. Salmon St., Ea.	2164
Parker & Banfield (BP).....	984 E. 17th St., Sel.	6182
Parker-Schram Co. (PHR).....	Couch Bldg., Atw.	4375
Peck, E. C., & Co. (PH).....	Aberdeen, Wash.	
Puckett, W. H. Co. (PHR).....	319 Broadway, Boise, Idaho	
Quinn, J. L. (B).....	Box 1109, Klamath Falls, Ore.	
Rebman, J. (PH).....	343 Vancouver Ave., Tr.	7825
Robertson, Hay & Wallace (B).....	605 Weatherly Bldg., Ea.	3613
*Saxton & Looney.....	Corvallis, Ore.	
Seed, John S. (B).....	201 Worcester Bldg., Atw.	6444
	Honorary Member and Director of Chapter	
Shea & Co., J. F. (PHR).....	211 Henry Bldg., Atw.	2435
Sullivan & Doyle (PHR).....	Ft. of Curry St., Atw.	5297
	Box 104, Portland, Ore.	
United Contracting Co. (BPHR).....	309-10 Stock Ex. Bldg., Atw.	5296
von der Hellen & Pierson (HR).....	Naches, Wash.	
White, Ernest & Co. (B).....	Twin Falls, Idaho	
Wren & Greenough (PHR).....	485 28th St.	
Wright Constr. Co. (BPH).....	Aberdeen, Wash.	
Young, I. L. (BPH).....	524 Henry Bldg., At.	0297

Associate Members Portland Chapter

Balzer Machinery Co.....	275 Pine St., Atw.	9391
Beall Pipe & Tank Co.....	85 Columbia Blvd., Wa.	3171
Clyde Equipment Co.....	555 Thurman St., Br.	5561
Collins Concrete Pipe Co.....	410 River St., Wa.	7670
Feenaughty Machinery Co.....	309 E. Yamhill, Ea.	2187
Grand Sheet Metal Works.....	60 E. Third N., Ea.	2181
Latture, J. L. Equip. Co.....	312-314 E. Madison St., Ea.	8166
Loggers & Contractors Machy. Co.....	345 E. Madison St., Ea.	4128
Metropolitan Casualty Ins. Co., The.....	Wilcox Bldg., Atw.	7521
National Hospital Assn.....	400 Mohawk Bldg., Atw.	5291
Oregon Portland Cement.....	321 E. Madison, Ea.	3116
Phoenix Iron Works.....	360 Hawthorne, Ea.	0029
Pomeroy, J. H., & Co.....	Box 48, Seattle, Wash.	
Pure Iron Culvert & Mfg. Co.....	763 Gladstone, Sel.	2275
Santa Cruz Portland Cement.....	45 Fourth St., Atw.	9848
Standard Oil Co.....	Pacific Bldg., Bea.	4161
Swigert, Hart & Yett.....	Ft. of E. Salmon St., Lan.	1125
Union Oil Co. of California.....	Yeon Bldg., Atw.	9521
Wallace Bridge & Structural Steel.....	P. O. Box 48, Seattle, Wash.	
Shell Oil Co.....	Commerce Bldg., At.	7321

SPOKANE CHAPTER

West 515 First Avenue—Main 6822—Spokane

Max J. Kunej, President	I. G. Anderson, Vice-President
Nick Norman, Vice-President	Dan Hannah, Secty.-Treas.
Alloway & Georg (B).....	Hutton Bldg.
Auld & Shinn (B).....	1121 Indiana
Burnette, C. A. (H).....	1118 Ide Ave.
Byers, W. A. (H).....	W. 1204 Mansfield
Clifton & Applegate (HPR).....	Hutton Bldg.
Collins, J. H. & Co. (H).....	Colville, Wash.
Colonial Building Co. (BH).....	Hutton Bldg.
Crick, James (H).....	Realty Bldg.
Degerstrom, N. A. (HPR).....	Peyton Bldg.
Edwards, J. E. (H).....	S. 1423 Adams
Geist, W. L. (H).....	W. 444 23rd Ave.
Hansen Construction Co.....	Opportunity
Harding, Geo. (H).....	Walla Walla, Wash.
Hargrave Construction Co. (H).....	W. 418 Twentieth
Hewett, F. R. (H).....	W. 420 Twenty-second
Joslin & McAllister (H).....	East 3038 Trent Ave.
Kunej, Max J. (H).....	Hutton Bldg.
Larson Bros. (B).....	Hyde Bldg.
Long, Oliver J. (H).....	W. 1924 Mansfield
Lyon & Price (H).....	W. 503 Fourteenth
March Construction Co.....	W. 1002 Riverside, Spokane

Martin, F. E. (B).....	Galax Hotel
McLellan, A. (B).....	E. 932 Ermina
Medby, M. C. (B).....	S. 3614 Arthur
Meysers, W. G.....	S. 2217 Tekoa St.
Morin, S. G. (B).....	S. 309 Bernard
Norman, Nick (B).....	231 Waverly Place
Nyberg, Carl (H).....	Realty Bldg.
Orino, Sam (H).....	E. 3104 Boone
Payne, Mrs. C. M.,.....	N. 2602 Hamilton St.
Power, C. A. (H).....	S. 1703 Grand
Siems, Spokane Co. (BPIHR).....	Realty Bldg.
Standard Asphalt Paving Co. (HP).....	Chronicle Bldg.
Sullivan, D. A., & Co.....	415 Sprague Ave.
Terteling, J. A., & Sons (HP).....	511 Sound Ave.
Tobin, James, & Son (H).....	West 1715 Pacific Ave.
Triangle Construction Co. (H).....	W. 1220 Ide
True-House Construction Co. (B).....	No. 121 Browne
Wheeler & England (HP).....	Coeur d'Alene, Idaho
Young, Peter J. (B).....	S. 11 Cedar St.

Associate Members

Beall Pipe & Tank Corp.....	West 615 Main Ave.
Brandt Bros.....	W. 14 Main Ave.
Coeur d'Alene Hardware & Foundry.....	Wallace, Idaho
Commercial Importing Co.....	617 Western Ave., Seattle, Wash.
Consolidated Supply Co.....	W. 1310 Ide Ave.
Construction Equipment Co.....	1118 Ide Ave.
Feenaughty Machinery Co.....	N. 715 Division St.
W. P. Fuller & Co.....	N. 229 Post St.
General Machinery Co.....	E. 3501 Riverside
Gladding-McBean & Co.....	524 Old National Bldg.
Howe Fuel Co.....	N. 740 Division St.
Hofus-Ferris Equipment Co.....	W. 728 Mallon
Marshall Wells Co.....	S. 157 Howard
Jones & Dillingham Co.....	W. 715 First Ave.
Jones & Mitchell.....	Hutton Bldg.
Long Lake Lumber Co.....	N. 348 Wall St.
W. S. McCrea & Co.....	212 Symons Bldg.
J. E. McGovern Co.....	550 Peyton Bldg.
Nott-Atwater Co.....	S. 157 Monroe St.
Oriental Importing Tea & Coffee Co.....	W. 917 First
Spokane Concrete Pipe Co.....	N. 2627 Dakota
Spokane Culvert & Tank Co.....	N. End Division Street Bridge
Spokane Paper & Stationery Co.....	S. 152 Jefferson
Standard Oil Co. of Calif.....	Old National Bldg.
Union Oil Co.....	611 Chronicle Bldg.
Washington Brick, Lime & Sewer Pipe Co.....	S. 151 Washington St.
Washington Machinery & Supply Co.....	W. 9 Cataldo

MOUNTAIN PACIFIC CHAPTER

(Strictly a Public Works Chapter, practically every member carrying on highway, public works and railroad construction)

Washington Hotel—Seattle, Wash.

John W. Rumsey, President	Lee Johnson, Secretary, Treasurer
John M. Clifton, Vice-President	James D. Brown, Manager
Allen & Goven.....	Olympia, Wash.
Barnard Curtiss Co.....	Ellensburg, Wash.
Clifton, Applegate & Toole.....	Hutton Bldg., Spokane, Ma. 4415
Columbia Power & Investment Co.....	Stevenson, Wash.
Coyle Construction Co.....	901 Westlake N., Seattle, Car. 5741
N. A. Degerstrom.....	444 Peyton Bldg., Spokane
Dorsey & Wilder, Inc.....	2006 State St., Bellingham, Wash., 1310
Fuel Oil Service.....	Olympia, Wash.
Goodfellow Bros.....	Wenatchee, Wash.
Grays Harbor Const.....	Hoquiam, Wash., Hoq. 303
Hargrave Construction Co.....	W. 418, 20th Ave., Spokane
Hendricks & Co.....	Chehalis, Wash.
F. R. Hewitt.....	420 W. 22nd, Spokane, Riv. 7554
Johnson, Homer G.....	Perkins Hotel, Portland
Joslin & McAllister.....	Spokane, Wash.
Lee H. Johnson.....	920 N. Tacoma Ave., Tacoma, Ma. 6241
Lidral, Wiley.....	Securities Bldg., Seattle
Lyon & Price.....	503 W. 14th, Spokane, Riv. 5319-R
Norris Bros.....	Burlington, Wash.
Chas. A. Powers.....	S. 1703 Grand, Spokane, Riv. 3640
Puget Sound Bridge & Dredging Co.....	Seattle, El. 7300
Puget Sound Construction Co.....	Colman Bldg., Seattle, El. 7311
Fred G. Redmon.....	206 S. 4th Ave., Yakima, 9133
Rumsey & Co.....	Lumber Exchange Bldg., Seattle, Ma. 8751
Standard Asphalt Co.....	Chronicle Bldg., Spokane, Wash., Ma. 1689
von der Hellen & Pierson.....	Enumclaw, Wash.
Winston Bros.....	4580 Colorado Ave., Seattle, Glen. 2268

Class of Construction: (B) Building; (H) Highway; (P) Public Works; (R) Railroad.

SEATTLE CHAPTER

4134 Arcade Bldg.—Main 4709—Seattle, Wash.

James Murdock, President M. Phil Butler, Secretary
 George E. Teufel, Vice-President A. S. Downey, Treasurer
 H. V. Bogert, Manager

Bartleson & Ness (B).....	6824 17th NE.,	Ke.	0513
Bromley, H. C. (Honorary).....	1619 42nd N.,	Ea.	6644
Butler, W. T., Inc. (B).....	3419 13th S. W.,	El.	5670
Cawsey, C. C. (B).....	Title Trust Bldg.,	El.	2830
Gjarde, Peder P. (B).....	Lyon Bldg.,	El.	2660
Goerig, A. C. (HP).....	413 Fairview N. (Rear),	El.	7625
Hedeen Construction Co. (B).....	American Bank Bldg.,	Se.	1080
Henrikson-Alstrom Constr. Co. (B).....	Textile Tower,	El.	6870
Manson Construction Co.....	Grand Trunk Dock,	El.	4526
McDonald, Neil (B).....	Lloyd Bldg.,	El.	5638
Murdock & Eckman (B).....	Liggett Bldg.,	El.	7760
Nelae Mortensen & Co. (B).....	1021 Westlake N.,	Ga.	6669
Pederson, Hans (BHP).....	Prefontaine Bldg.,	El.	8855
Quist Co., A. W. (BP).....	Exchange Bldg.,	Ma.	4497
Sound Constr. & Eng. Co. (B).....	Northern Life Tower,	El.	4961
Sylliaasen & Sando (B).....	Arcade Bldg.,	Ma.	1641
Teufel & Carlson (B).....	Skinner Bldg.,	El.	6431
Warrack Construction Co. (BP).....	McDowall Bldg.,	El.	8265
Western Construction Co. (B).....	Textile Tower,	El.	6043

SEATTLE CONSTRUCTION COUNCIL

Affiliated with

ASSOCIATED GENERAL CONTRACTORS OF AMERICA

Building Material Dealers' Association

Abel, Inc.....	2700 Westlake N.,	Ga.	9800
C. S. Barlow & Sons, Inc.....	1326 Northlake,	Me.	0700
Builders Brick Co.....	3800 9th St.,	El.	0893
Galbraith & Co.....	Foot of Madison St.,	Ma.	8700
Clay Products Delivery Co.....	1546 Westlake N.,	Ga.	6870
Columbia Lumber Co.....	3935 University Way,	Ra.	2400
Dally, S. W. R.....	Pioneer Bldg.,	Ma.	8678
Fairmount Fuel Co.....	4210 W. Alaska,	We.	0483
Fryer, D. E. & Co.....	411 Douglas Bldg.,	Ma.	7147
Gladding, McBean & Co.....	1500 1st Ave. S.,	Ma.	9389
Hunter, Sam, Inc.....	3155 Elliott Ave.,	Ga.	0320
Klinker Sand & Gravel Co.....	6515 W. Marignal Way,	Gl.	0098
McMullen & Co.....	462 N. 34th,	Me.	5900
Pioneer Sand & Gravel Co.....	901 Harrison St.,	Ma.	2900
Queen Anne Sand Co.....	Third W. and Fulton,	Ga.	2743
Spring Hill Fuel Co.....	5223 California Ave.,	We.	1650
Spokane Grain & Fuel Co.....	7109 Woodlawn Ave.,	Ke.	0151
Salmon Bay Sand & Gravel Co.....	Ft. 20th NW.,	Su.	0034
Tourtellotte-Bradley, Inc.....	314 Seneca St.,	Ma.	7650
Wash. Brick, Lime & Sewer Pipe Co.....	Seaboard Bldg.,	Ma.	1542

Seattle Association of Insulation Contractors

Asbestos Covering & Supply Co.....	1037 Sixth S.,	El.	4234
Brower & Co., Chas. R.....	114 Virginia St.,	El.	2049
Fryer, D. E., & Co.....	1233 Utah,	Ma.	7147
Jenkins, V. S., Co.....	1559 Railroad S.,	El.	7516

Contracting Plasterers' Association of Seattle

Allyn, W. A.....	4240 Raymond,	Ra.	1459
Blake, C. W.....	4359 W. Willow,	Gl.	1266
Carr Bros.....	10241 15th SW.,	Gl.	2584-R1
Clarberg, Walter.....	1121 W. Elliott,	El.	7858
Al. Craig.....	3207 Belvidere,	We.	4594
Dines, Chas.....	1601 Lakeview Blvd.,	Ca.	4977
Edwards, A. E.....	7706 27th NW.,	He.	2264
Erickson, O. C.....	2904 W. McGraw,	Ca.	8223
Gooch, Wm.....	110 W. 83rd,	Su.	1541
Haley & Smyth.....	311 24th S.,	El.	8406
Hoeffle, E. F.....	7827 46th S.,	Ra.	2323
Johnson, Joe.....	722 N. 103rd,	Su.	8974
Jensen, Pete.....	7029 18th NE.,	Ke.	1339
Kelly, J. J.....	115-20 North,	Su.	7683
Lauch & Sons, Gust.....	9 W. Cremona,	Ca.	5494
Linhoff, A. G.....	2107 W. Barret St.,	Ga.	0790
McDougall & Co., E. C.....	Lloyd Bldg.,	Ma.	5441
Mortensen, J. K.....	12040 7th NW.,	Su.	0945
Nelson & Son, C. H.....	815 Yale Ave. N.,	Ca.	2221
Sorenson, Chas.....	2502 30th S.,	Ra.	4774
Stevens, John.....	3450 23rd W.,	Ga.	6711
Thorlakson, G. B.....	3026 W. 69th,	Su.	0868
Ward, E. P.....	2309 Warren Ave.,	Ga.	5011
Wilson & Long.....	Railway Exchange Bldg.,	Ma.	5159

Amalgamated Sheet Metal & Roofing Association

Builders Sheet Metal & Roofing.....	1716 Yale,	El.	3650
Getchell Roofing & Flooring Co.....	901 Westlake N.,	Ga.	5741
Independent Sheet Metal Co.....	1723 Westlake N.,	Ga.	7616
Occidental Sheet Metal Works.....	2310 Rainier,	Be.	2300
Penn Sheet Metal & Roofing Co.....	550 Denny,	El.	3729
Puget Sound Sheet Metal Works.....	3631 E. Marginal Way,	Ma.	0176
Seattle Cornice Works.....	1730 First Ave. S.,	Ma.	1544
Van Doren Roofing & Cornice Co.....	1007 Westlake N.,	Ga.	7577
Washington Sheet Metal Works.....	1275 Westlake N.,	Ga.	5718

Northwest Master Painters' Assn., Inc., Seattle Chapter

Anderson & Nelson.....	10708 First Ave., N. W.	SU.	5828
Atlas Painting & Decorating, 3404 Woodlawn Park Ave.,	ME.	0610	
Boseck, Larry H.....	6553 24th Ave., N. W.,	SU.	8497
Branch, Stephen F.....	6518 12th Ave., N. W.,	HE.	0116
Cuff, Harry W.....	764 Belmont Place,	EL.	3427
Erickson Painting & Decorating Co.....	Lloyd Bldg.,	EL.	2025
Featherstone, James J.....	4318 W. Juneau St.,	WE.	2768
Grant, R., & Sons.....	4411 Woodlawn Ave.,	EV.	0216
Gustavson, O. A.....	4211 Juneau,	RA.	0248
Maier, Geo. S.....	338 16th Ave., N. E.,	EA.	6525
Nelson & Chrystal, Inc.....	211 E. Garfield,	Ca.	2844
Nielson, A. P.....	1820 17th Ave.,	Pr.	3322
Shepherd, A. F., Co.....	524 5th Ave. W.,	Ga.	6196
Sundberg, Oscar.....	7007 21st Ave., N. E.,	KE.	4969
Vandenburgh, Geo. H.....	7612 Linden Ave.,	SU.	6392
Weissenborn, A., Decorating Co.....	516 Westlake, North,	EL.	1834
West Coast Painters Co.....	322 Kulien Bldg.,	GA.	0401
Western Painting & Decorating Co.....	525 Pontius,	MA.	5866
Zeberg, Louis.....	9274 52nd Ave, South,	RA.	0815

Associated Woodwork Manufacturers of Seattle

Guarantee Millwork, Inc.....	N. 34th and Woodlawn,	Mel.	6500
Nordquist & Nelson, Inc.....	120 W. Nickerson,	Ga.	7173
Pacific Door & Mfg. Co.....	7th S. and Charleston,	Gl.	0410

Unclassified

Superior Portland Cement.....	Seaboard Bldg.,	El.	2280
Pacific Lime Co., Ltd.....	Arctic Bldg.,	El.	3591
Seattle Hardwood Floor Co.....	616 7th Ave. N.,	Ga.	1274
Rodgers Tile Co.....	117-21 Yale Ave. N.,	Ma.	3446
Olympic Portland Cement Co., Ltd.....	Dexter Horton Bldg.,	El.	1464
W. P. Fuller & Co.....	Second S. and Jackson,	El.	5334
Standard Gypsum Co.....	1871 16th Ave. SW.,	El.	4033
Pacific Coast Cement Co.....	L. C. Smith Bldg.,	Ma.	5080
Lockwood Lumber Co.....	Western Ave. and Broad St.,	El.	2569
C. C. Belknap Glass Co.....	Railroad Ave. and Stewart,	Ma.	9469

INTERMOUNTAIN BRANCH

Central Bldg.—Salt Lake City, Utah

G. H. Malan, President T. C. Sorenson, Secretary-Treasurer
 H. T. Reynolds, Jr., Vice-President Mark Tuttle, Manager

Alston & Hoggan (B).....	Beason Bldg.,	Was.	2374
Berntsen Brothers (B).....	1180 Warnock Ave.,	Hy.	4927-W
Bundy, Ora (PBH).....	Kiesel Bldg.,	Ogden,	972
Burke, J. J., Co. (PHB).....	Kearns Bldg.,	Was.	845
Christenson Const. Co. (HR).....	Felt Bldg.,	Was.	5756
Christensen & Gardner (PH).....	Terminal Bldg.,	Was.	2962
Clyde, W. W., Co. (PH).....	Springville,	Utah	
*Compton, J. C. (HPR).....	McMinnville,	Oregon	
Dinsmore, C. F. & Co. (PB).....	Eccles Bldg.,	Ogden,	589
Fetzer, Louis S.....	Templeton Bldg.,	Hy.	1932-W
Gibbons & Reed (HP).....	165 East 4th South,	Was.	1238
Griffith, J. L. (PHR).....	17 Central Bldg.,	Was.	1919
Jacobsen Construction Co. (B).....	210 Terminal Bldg.,	Was.	3136
Kampe, Charles (B).....	26 South 12th East,	Hy.	7097
*Morrison-Knudson Co. (HPR).....	Cont. Natl. Bank Bldg.,	Was.	6585
Moser, John H. (B).....	Logan,	Utah	
Mullins & Wheeler (P).....	2203 Hyland Drive,	Hy.	1944
Nelson, Olaf (HPR).....	Logan,	Utah	
*Newell, S. H., Co. (PBHR).....	Kamas,	Utah	
Palfreyman, B. D. (H).....	167 East 2nd North,	Provo,	Utah
Paulsen, Paul (B).....	Box 79, Sugar Station	Springville,	Utah
Reynolds, Ely, Construction Co. (HPR).....	Springville,	Utah	
Rowland T. C. (BP).....	1558 Yale Ave.,	Was.	3433
Ryberg Brothers (HPR).....	207 Terminal Bldg.,	Was.	2962
Ryberg-Sorenson Co. (B).....	207 Terminal Bldg.,	Was.	2962
Schraven, H. E. (B).....	Dooly Bldg.,	Was.	6431
Smith, Enoch (PH).....	737 East 2nd South,	Hy.	6632
Strange, V. P. (HP).....	402 Utah Sav. & Trust Bldg.,	Was.	5726
Strong & Grant (PBH).....	Springville,	Utah	
Sumsion, J. M. (HPR).....	Springville,	Utah	
Thorn, A. O. (HR).....	Springville,	Utah	
Union Construction Co. (HP).....	Ogden,	Utah,	53
Utah Construction Co. (PHR).....	McIntyre Bldg.,	Was.	4435
Utah Construction Co. (PHR).....	First Natl. Bank Bldg.,	Ogden	491
Wattis-Samuels Co. (PHR).....	1611 Hot Springs Ave.,	Was.	5507
Wheelwright Constr. Co. (HPR).....	2434 Monroe Ave.,	Ogden,	451
Whiting, Floyd S. (HPR).....	Kaysville,	Utah,	135
Whiting, J. W. (HPR).....	Springville,	Utah	
Whitmeier, Geo. A. & Sons Co. (B).....	2759 Grant Ave.,	Ogden,	246
Young & Ogden (HPR).....	Richfield,	Utah	

*Contributing Members.

Class of Construction: (B) Building; (H) Highway; (P) Public Works; (R) Railroad.

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PACIFIC



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RESPONSIBILITY

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Building and Engineering News

IN THIS ISSUE



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By Thos. E. Stanton

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STATE HIGHWAY BUDGETS—WASHINGTON
AND NEVADA

SOME PHASES OF THE 1932 INCOME TAX LAW

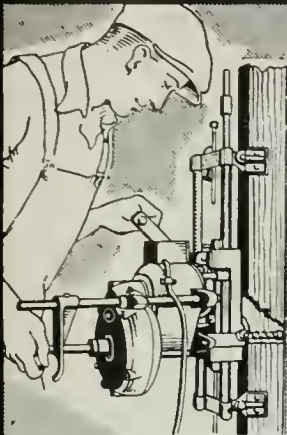
By Frank T. Andrews

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CONSTRUCTION NEWS



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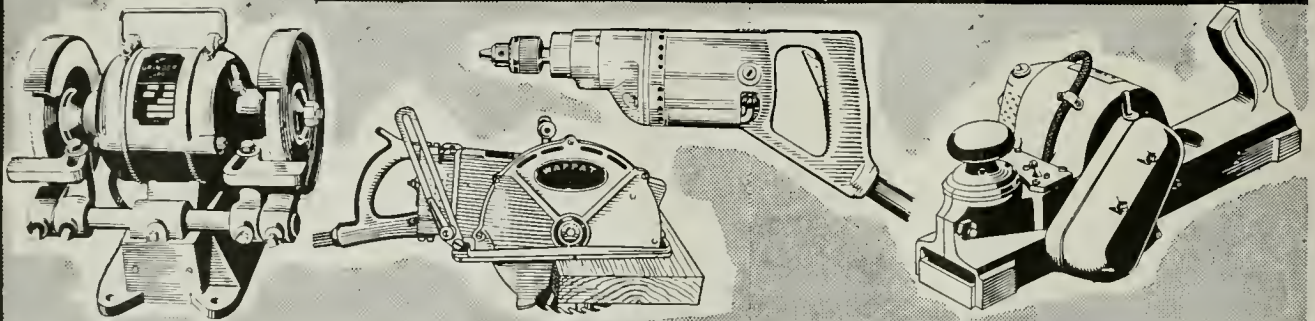
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for the Eleven Pacific Coast States

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Editorial Comment

GAS TAX RAID PERILS REFUNDS

Farmers and other users of gasoline for purposes not involving use of streets and highways, who now receive gasoline tax refunds amounting to more than \$4,000,000 a year, have a common cause with the motorists of California in preserving the gasoline tax as a special tax to be used exclusively for highway maintenance and construction.

This is pointed out by Percy E. Towne, member of the legislative committee of the California State Automobile Association. The motorists' organization is conducting a vigorous effort to have the Legislature reject proposals for diversion of approximately \$17,000,000 in gasoline tax money from the highway fund to the state general fund.

In addition to these proposals, Towne said, it has been stated that a plan is under consideration to ask the legislature to make the gasoline tax a straight sales tax so that the money now refunded to non-highway users may remain in the state general fund.

"The theory upon which the gasoline tax laws were enacted was that of a special tax for a special use," Towne said. "It was intended to tax those who used the highways in proportion to their use and to apply the revenue exclusively to highway purposes.

"With this theory in mind the legislature adopted a provision permitting refunds of the gasoline tax to all who used gasoline for purposes which do not involve use of streets and highways. In this category we find the farmer who uses gasoline in tractors, gas engines and other farm equipment; motor launches and fishing boats operated by gasoline motors; and airplanes. Refunds to such users now reach a sum of more than \$4,000,000 annually.

"If gasoline tax revenue is diverted from the highway fund to the general fund, a step will have been taken toward changing the character of the gasoline tax from a special tax to a general one. In that case not only would the highways suffer, but farmers and others now entitled to refunds might be required to pay the tax, just as they now pay the Federal one-cent tax on gasoline."

AUTO DEATHS SPUR HIGHWAY WIDENING

Deaths caused by automobile crashes during the year-end holidays, the most extensive for this period on record, have again spurred safety organizations in their demands that narrow main highways be widened. Figures just compiled by the U. S. Bureau of Public Roads show that 1008 miles of state highways with more than two traffic lanes were built in 1931, bringing the total to 3790 miles.

An economical method, perfected in the West, is to widen the old pavements and resurface them with asphalt concrete. The California Division of Highways has just advertised for bids for such a project in Tehama County, where it is proposed to reconstruct nine miles of old pavement with asphalt concrete, on the West-Side Pacific Highway north of Sacramento. The job is a part of the Division's unemployment relief program.

A recently completed northwest project of this type is the seven-mile Salem-Brooks section of the Pacific Highway in Oregon, where the old hazardous 16-foot pavement was widened with non-skid asphalt concrete to a 20-foot paved surface and 6-foot gravel shoulders.

Under the caption "Light from the Far West," Engineering News-Record comments as follows:

Though long delayed, actual start on two of the Far West's large projects is most heartening at this season. The aggressiveness displayed by the Metropolitan Water District in getting the Colorado River aqueduct under way is encouraging. With the award of the seven-million-dollar San Jacinto tunnel contract, the District started the largest R.F.C. project. And immediately afterward it announced that work would be started at once on 33 miles of additional tunneling. While the wisdom of handling this twenty-million-dollar job by day labor will be questioned by many, the intent to get as much work as possible under way at the earliest moment is commendable. Along with the start of activity on the aqueduct comes the contract award for San Gabriel Dam No. 1, closing a long chapter of mishaps and litigation. These projects, added to four great dams already under construction—San Gabriel No. 2, Pine Canyon, El Capitan and Hoover—and coupled with two record-breaking bridges soon to span San Francisco waters present a bright picture of activity in the Far West.



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Research Highway Built for Testing Portland Cements in Concrete Paving

By THOS. E. STANTON

Materials and Research Engineer, California State Department of Public Works

HOW soon after construction can a Portland cement concrete pavement be safely opened to traffic and, if one of the special, high early strength cements on the market is used to expedite opening, will the strength of the concrete decrease with age and will there be greater volumetric changes with a tendency towards shorter crack intervals?

What cements, if any, are of such quality that though early strengths may be low the ultimate long time strength and durability is higher than for other cements which develop strength more rapidly?

Are any of the standard cements more resistant to the destructive action of sea, acid and alkali waters than others?

Have any cements such relatively higher plasticity and workability that it is possible to manufacture denser and consequently stronger concrete with the use of less mixing water?

To what extent, if any, will the shorter curing period in the case of high early strength cements affect the ultimate strength of the concrete?

University Aiding

In an effort to secure an answer to these and other perplexing questions which the highway engineer faces in connection with the construction of modern Portland cement concrete highway pavements and structures, an experimental section of pavement was constructed during August and September, 1932, along a portion of the Bay Shore Highway in San Mateo County just north of South San Francisco.

Even with the greatest of care field studies are difficult to control owing to unavoidable variations in weather and construction processes. For this reason the Materials and Research Department of the California Division of Highways is conducting a rather extensive laboratory test series of the cements used in the test, supplemented by a special laboratory investigation of the concrete making qualities of these cements, conducted under the direction of Professor Raymond E. Davis at the materials laboratory of the University of California, at Berkeley, in co-operation with the State Highway Department and the cement companies.

This article will not touch in detail on the special laboratory work which is being handled by Professor Davis nor will there be any extensive discussion of the numerous technical details of the field work. Any discussion of such details will be handled in supplemental or special reports which will be issued from time to time.

Intense competition for business has led to the development of numerous brands of cement for special purposes. One cement company now manufactures eight or nine special brands. There are cements which will harden rapidly and produce concrete which it is claimed can be opened to traffic in from one to three days; other cements are designed for greater workability; less volumetric changes; lower temperature at setting; greater durability and resistance to the destructive action of sea water and other active agents; special color cements to suit the fas-



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tidious taste of the purchaser or to be used where the architectural and aesthetic requirements demand special treatment; for this purpose we have the white, grey, tan and pink cements.

Color is not of such vital importance in pavement construction as strength, durability and volumetric change characteristics.

An ideal cement would be one from which concrete could be manufactured sufficiently strong to open to traffic in 24 hours and which, at the same time, would possess the greatest possible ultimate strength and durability and such low volumetric change characteristics as to cause none of the intermediate shrinkage cracks which tend to unsightliness and possible increased roughness of the pavement with age.

Qualities Claimed

Experienced engineers know that no cement so far manufactured possesses all of these characteristics, nor is there any evidence that such a cement can be made. To attain one desired result, it is usually necessary to sacrifice some other desirable quality.

The following superior qualities are claimed for some cements:

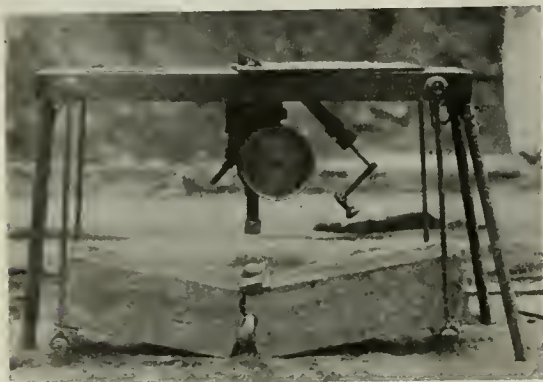
- 1—High early strength.
- 2—Strength increase over a longer period of time.
- 3—Greater ultimate strength.
- 4—More resistant to sea water.
- 5—Greater resistance to water permeability.
- 6—Resistance to acids and alkalis.
- 7—Greater plasticity and workability.
- 8—Greater sand carrying capacity.
- 9—More flexible in neat mortar and concrete.
- 10—Lower specific gravity.

Because there have been few, if any, practical field tests to determine the relative value of the different brands of local California cement covering all of the characteristics outlined above, and because several cement producers are manufacturing special brands of cement for which one or all of these desirable characteristics are claimed, the State Highway Commission, upon recommendation of State Highway Engineer C. H. Purcell, approved the construction of a special test section in which all of the cements

on the market in the northern part of the State for which any of these characteristics were claimed could be tried out.

Fourteen Brands Used

Inasmuch as several of these qualities, such as durability and strength with age, require time for a satisfactory determination, accompanied by the fact that high early strength, durability and volumetric change characteristics are of considerable importance, it was decided to make comparative tests of all brands on the market for which any special characteristics of the above nature are claimed, comparing these special brands with the standard cements from the same companies. Fourteen brands of cement were used in the test.



Testing beams in the field for bending strength.

In order that there might be at least three check tests of each cement at each test period, both in compression and flexure, it was necessary to cast hundreds of test specimens in the field and in the laboratory during the progress of the work.

In addition to the test specimens cast during the progress of the work, cores were likewise cut from the finished pavement for the short time tests and additional cores will be cut from year to year for the long time tests.

Very complete specifications were written for the project, setting up rigid control over all features, including quality and grading of aggregate, design of mix, water control, construction operations, etc., to the end that the concrete might be cast on each section under comparable conditions, the only variable being the cement and such modifications in the design of the mix as were necessitated by the special characteristics of the different cements.

Meters Installed

Concrete specimens were cast for breaking in bending and compression at one, three, five, seven, ten and twenty-eight days. Additional specimens were cast for modulus of elasticity determination at long periods. Cores were cut for breaking to compare at all ages with the test cylinders and beams and, as previously stated, additional cores will be cut and tested whenever occasion demands in the future.

Strain meters and temperature measuring devices were cast into the pavement so that internal stress and temperature measurements could be made. The usual atmospheric temperature and humidity records were kept.

The work is in two parts of four ten-foot lanes each, or a total pavement width of forty feet. One part adjoins the city of South San Francisco on the north, and is approximately 1200 feet long. The second part is approximately one-half mile north of the first and has a length of 1000 feet.

Each portion was divided into two sections of equal length with a two-inch expansion joint between the abut-

ting sections. The entire project was, therefore, divided into sixteen sections. As there were but fourteen brands of cement, it was possible to make a duplicate run of two of the low-temperature cements.

Sections Separated

The concrete in each lane has a cross-section with a nine-inch center thickness and an eleven-inch thickened edge and is separated from the concrete in the preceding lane by painting the edge of the older concrete with asphalt and grease so as to provide as complete separation as possible with minimum friction between the adjacent strips.

Bronze plugs for measuring overall expansion and contraction were set in the ends of each section.

The contract for the work was let on June 30, 1932. The contractor commenced laying concrete on August 5, 1932, and finished the last section on September 13, 1932.

The sections contained from 144 to 172 cubic yards of concrete, depending on the length. When there was no breakdown in equipment it was found possible to pour two sections per day. Construction difficulties were encountered on several days with the result that two of the sections unfortunately have an intermediate construction joint.

Curing Methods

No reinforcing of any kind, intermediate weakened planes or expansion joints were used except the expansion joint between the abutting sections and the two unavoidable intermediate construction joints.

The high early strength cements were cured by sprinkling and covering with burlap for three days only. All other concrete was cured with earth and water for the standard period of eight days.

A complete report is now in preparation giving all details of the work. This report will be supplemented from time to time by additional data as it becomes available.

All control and test features were handled by the Materials and Research Department.

MT. ISLIP-JACKSON LAKE HIGHWAY RECOMMENDED BY FOREST SERVICE

Forming a link in a short-cut route between Los Angeles and the Los Angeles County Park in the Angeles National Forest, the Mt. Islip-Jackson Lake road has been recommended by the Forest Service as part of the forest highway system. An early survey is urged so that consideration may be given for its construction if funds become available after July 1, 1933.

Forest highways, according to Regional Forester S. B. Show, are major roads of standard construction forming links in the State, County or Federal Aid system, or branch roads to these systems, needed for public travel and national forest administration. The Mt. Islip-Jackson Lake road is considered as a meritorious project and it is therefore logical to include it as a part of the highway system now under construction by the State and county.

The Los Angeles County Board of Supervisors is now constructing a branch road from Vincent on the Mint Canyon Highway to Barley Flats on the Angeles Crest Highway, running from the Arroyo Seco to Mt. Islip. Another branch, extending down the North Fork of the San Gabriel will connect Azusa with Mt. Islip. The proposed forest highway from Mt. Islip to Jackson Lake on the Lancaster-Cajon State Highway will form another important link of the Angeles Crest Highway and will not only give direct connection from Los Angeles to the county park but also from other valley towns to the park by way of the San Gabriel Canyon.

Supervisors Vote Wage Scale For 1933 S. F. Public Works

WAGE scales upon which contractors must figure in bidding on public works in San Francisco during 1933 were fixed by the Board of Supervisors after a series of hearings that concluded December 29.

The scale, while lower in some instances than that in effect since May, 1931, is substantially above the rates of pay fixed for building crafts in 1933 by agreement of the Impartial Wage Board.

A thirty-hour week, composed of five six-hour days, also will be enforced on public construction, the supervisors decided. The shorter week was advocated as a means of spreading employment to more workers. The wage scale, which is based on an eight-hour day, will be applied to the six-hour day by computing hourly wages and paying the hourly rate for the short day.

The prevailing wages were voted by the supervisors after lengthly consideration of the report on wages being paid on private work in San Francisco submitted by the Civil Service Commission and after hearing speakers for labor and employer groups.

Decision on the wages to be paid for public construction will release nearly three million dollars in funds set aside for San Francisco municipal work, most of which has been delayed for several months by lack of a new wage scale. Among the first of the contracts to be advertised under the new scale will be for construction of the psychopathic ward of the San Francisco Hospital, estimated at \$400,000, and for construction of the cancer institute building, also estimated at \$400,000. Plans on the new County Jail, to cost \$800,000, will be ready about February 1. The Public Utilities Commission will proceed at once with street improvements and Hetch Hetchy development approximating an expenditure of \$1,250,000.

A U S T R I A RESTRICTING CONSTRUCTION.—Although Austria's income from automobile and gasoline taxes will amount to approximately 59,500,000 schillings for 1932, no important highway construction is under way or planned. Only 18,728,000 schillings (about \$2,675,000) are being spent on highway work in 1932, and the budget proposed for all classes of roads during 1933 calls for only 18,885,000 schillings. Funds are being used for only the most essential and least expensive maintenance of the main arterial highways.

CRAFT	Scale fixed for S. F. public works in 1933....	Present Official Minimum Scale Established by		Present Actual Prevailing Scale as Stated by:	
		*Imp't'l Wage Bd.	Bldrs. Exch.	Union	S. F. Inds. Assn.
Asbestos workers	\$6.80	\$ 8.00	\$ 6.40	\$ 8.00	\$ 6.40
Bricklayers	11.00	11.00	8.80	11.00	11.00
Bricklayers' tenders	7.00	7.00	5.60	7.00	7.00
Carpenters & cabinet makers	8.00	7.20	7.20	9.00	7.20
Cement finishers	8.00	9.00	7.20	9.00	7.20
Compressor operators	10.00	.....	.....	10.00	9.00
Engineers, derricks	10.00	.....	.....	10.00	.....
Engineers, bldg. material hoists	9.00	9.00	7.20	9.00	9.00
Electric workers (inc. fixture hangers)	8.00	8.00	7.20	8.00	8.00
Elevator constructors	9.08	9.08	8.00	9.08	9.08
" helpers	6.36	6.36	5.60	6.36	6.36
Glass workers	8.00	8.50	6.80	8.50	7.00
Hardwood floormen	8.00	7.20	7.20	9.00	7.20
Housesmiths (arch. iron)....	8.00	9.00	7.20	9.00	7.20
" (reinf. concrete)..	9.00	9.00	7.20	9.00	7.20
Iron workers (bridge and structural)	11.00	9.60	8.80	11.00	9.60
" (derrick engineers)	11.00	10.00	8.80	11.00	10.00
Lathers (except wood).....	8.00	8.00	8.00	8.00	8.00
Linoleum & carpet workers	8.00	.....	.....	8.00	.....
Laborers, building	5.50	5.50	5.00	5.50	5.00
Painters (struc. iron work)	9.60	.....	.....	9.60	.....
Painters	8.00	9.00	7.00	9.00	7.00
Model casters	8.00	9.00	7.20	9.00	7.20
" (plaster) .....	.....	10.00	8.00	10.00	8.00
Marble setter	8.00	8.00	8.00	8.00	8.00
Marble setter helper.....	5.00	5.00	5.00	5.00	5.00
Pile drivers & wharf bldrs.	9.00	9.00	7.20	9.00	9.00
Pile drivers' engineers.....	10.00	10.00	8.00	10.00	10.00
Plasterers	10.00	8.80	8.80	11.00	8.80
Plasterers' tender	7.50	7.50	6.00	7.50	6.00
Plumbers	9.00	10.00	8.00	10.00	8.00
Roofers	7.20	8.00	6.40	8.00	6.40
Sheet metal workers.....	8.00	9.00	7.20	9.00	7.20
Steamfitters	9.00	10.00	8.00	10.00	8.00
Sprinkler fitters	9.00	9.00	8.80	11.00	9.00
Stone cutters	8.50	8.50	6.80	8.50	6.80
Stone setters	11.00	9.00	7.20	11.00	8.80
Stone derrickmen	8.00	9.00	7.20	9.00	7.20
Power shovel engr. (above ground)	10.00	.....	.....	10.00	.....
Shovel firemen, watchman or oiler	7.00	.....	.....	7.00	.....
Tile setter	8.00	8.00 & 9.00 x)	7.20 & 8.00 x)	8.00	8.00
Tile setter helper	5.00	5.00	5.00	5.00	5.00
Truck drivers (less than 2,500, bldg. materials)....	5.50	5.50	5.50	5.50	5.50
" (2500 to 4500).....	6.00	6.00	6.00	6.00	6.00
" (4500 to 6500).....	6.50	6.50	6.50	6.50	6.50
" (6500 to 15,500)....	7.00	7.00	7.00	7.00	7.00
" (15,500 to 20,500)..	7.50	.....	.....	7.50	7.50
" (20,500 & over)....	8.00	.....	.....	8.00	8.00
Caterpillar tractor operators (with or without scraper) 50-hp. & under	7.50	.....	.....	7.50	7.50
Cabinet workers and millmen	5.60	.....	.....	5.60	4.80 & 5.60(aa)
Shade and drapery worker	7.00	7.00 a)	.....	7.00	.....
Upholsterers	7.00	7.00 a)	.....	7.00	.....
Varnisher & pol'her (shop)	7.00	7.00 a)	.....	7.00	.....

(x) Higher rate applies on cork and rubber.
 (a) Not included in Impartial Wage Board award but in effect by agreement in shops of Retail Furniture Association.
 (aa) Lower rate applies on sash and door work. Higher rate for bench hands.
 (*) This is the scale applying in 1932. It is reduced by approximately 20% effective January 1, 1933.

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F. H. Eichler, Chairman

A. J. McGarry, Mgr.

"WHY WAS I A CREDITOR"

or

"HOW MUCH CAN YOU AFFORD TO SELL"

THE following figures cover a period of the past three years, and represents petitions in bankruptcy filed by general contractors and sub-contractors operating in the San Francisco Bay area.

	Liabilities	Assets	Building Permits
1930 (100 petitions)	\$3,736,765	\$1,159,888	\$22,726,994
1931 (99 petitions)	3,168,880	1,204,786	21,372,550
1932 (58 petitions)	2,057,684	824,206	16,427,915

It is well to bear in mind other losses not included in the above figures resulting from the filing of liens and compromise settlements outside of bankruptcy courts.



F. H. EICHLER

Analysis of the figures tell a story well known among credit men that these figures originate from the bottomless pit of over-extension of credit. It seems that the prime requisites of credit—character, capacity, capital—are ignored by many credit grantors. The amount of building permits in San Francisco have decreased in the past three years, yet the aggregate amount of liabilities in *bank-*

ruptcy have increased. What is the answer? The answer is that we have caught up with the contractor on his last job and realize, too late, that the contractor is broke.

As long as the contractor had more than one job going, money was available from one job to pay the bills on the previous one. He was furnished material by his creditors on the strength of the job coming up. Those credit men who made a thorough investigation of his account, prior to insolvency, were in a position to sense the inevitable before the final crash came and had collected their money.

Alert credit men today have learned from experience the benefits derived from group meetings where they have the opportunity of discussing with their competitors their mutual accounts.

It is an old and true saying among many material men that they all have their so-called "Pet Accounts," one who has been doing business with them for years and years, and also one whom they have been carrying on their books for years. The day arrives when they have their sad awakening and realize that instead of a pet account they have been acting as his banker along with other good "Samaritans." Some of the schedules in bankruptcy filed by an average small contractor list sixty-five to seventy-five creditors.

"Why was I a creditor?" is a question asked many times by creditors, and the answer seems to be the lack of accurate credit information (or selling the job). A general or sub-contractor who is not financially responsible to warrant credit accommodations should not be sold on the strength of the job. (Circumstances alter *some* cases.) There will be just as much construction work done if your questionable contractor is left out of the picture entirely.

It would be well to recite here, as an illustration, a habit that one particular contractor has apparently learned as to the best method of liquidating his obligations (at least such a deduction appears feasible from the number of times he has filed petitions in bankruptcy).

	Liabilities	Assets
In 1915 he filed his first petition....	\$ 2,893.00	None
In 1921 he again filed a petition....	9,960.00	\$520.00
In 1930 a third petition was filed..	119,618.00	None

The construction industries should ask themselves why this is possible, and lest some conclude this a unique instance, attention is called to the record, where instances could be multiplied many times; of another contractor who filed his first petition in bankruptcy in 1926—liabilities \$190.00, no assets; and again filed a petition in 1930—liabilities \$6,916.00, no assets.

The Construction Industries Credit Bureau, in fostering sound credit fundamentals—character, capacity, capital—seeks the co-operation of alert credit men and offers them accurate, reliable, up-to-the-minute information with which to protect against bad debt waste and excessive carrying costs. Over one hundred credit men in the construction field are meeting regularly once or twice a month to discuss their mutual accounts and their credit problems, under the auspices of the Construction Industries Credit Bureau of the Credit Managers' Association of Northern and Central California.

At the end of 1933 will you be in a position to answer the question, "Why was I a creditor?"

CHINESE HIGHWAYS.—Hunan Province, China, has a highway system superior to that of any other Province in China. About 700 miles of roads have been completed and an additional 400 or 500 miles are under construction, to be completed within the next few years. Roads are well planned, indicating competent engineering supervision in both construction and maintenance. They range from 25 to 35 feet in width. The material used, all readily available in the Province, stands up under any kind of weather, especially because the roads are well graded and drained. Bridges also are well constructed, in most cases of stone masonry. Virtually no machinery is employed in highway work, as hand labor is abundant and cheap. The average construction cost per mile is between \$700 and \$800 (United States currency.)

IDAHO CHAPTER.—A chapter of Associated General Contractors has been organized in Boise, Idaho. A. G. Cornell is president, J. M. Sharp, vice-president, and Harold Quinn, secretary-treasurer.

1442 Contractors Involved In State Bureau Complaints

A TOTAL of 1,442 contractors were hailed before the registrar of contractors during the past three years on charges of misappropriation of funds, abandoning uncompleted building projects and other unethical and il-James Rolph Jr. by Registrar Carlos W. Huntington. Licenses of 273 contractors were suspended following investigation and hearings, while the licenses of 39 other builders were unconditionally revoked.

In addition, 232 contractors were found to be illegally operating without a state license as a result of investigation of formal complaints, and were barred from obtaining licenses until the complaints are satisfactorily settled. A total of 301 cases were adjudicated by arbitration after complaints were filed but prior to formal hearing, the registrar reported.

The charges filed against 373 contractors were necessarily dismissed because of lack of evidence, while 222 contractors were found not guilty of charges following a formal hearing.

Huntington, who is also director of professional and vocational standards in the governor's cabinet, asserted that hundreds of additional complaints were filed with his office and were investigated by inspectors and satisfactorily settled without the necessity of the contractor being cited to face formal charges.

"These formal complaints, Director Huntington said, "involve a total of \$614,251," adding that the Contractors' Act, passed by the 1929 Legislature, has proved an effective meaning of raising the ethics and standards within the industry and at the same time protecting the gullible public from being swindled by the irresponsible operations of fly-by-night contractors.

"The Contractors' Act," he reported to the Governor, "was enacted at a time when the state was experiencing one of the greatest building booms in its history, and at a time when the operations of the unethical, unscrupulous and fly-by-night contractor, lacking in integrity, ability or financial stability, constituted a serious menace to the public.

"The chief accomplishment of the law has been to rid the state of this type of contractor, thus rendering an invaluable protection to the public, as well as the sub-contractor and other business men in a case where a contractor would collect the full amount of the project from his patron and then disappear without finishing the project or paying his material supply bills.

"The benefits derived by the building industry and the public cannot be measured by the \$614,000 involved in these formal complaints. An analysis of the operation of the law will show that it has saved the public millions of dollars. These complaints, in the majority of cases, involve

only a small unit of a major construction project with an aggregate of several hundred thousand dollars. This is due to the fact that an unethical contractor may, for example, be awarded a half million dollar job, and before completion of the job he would be cited on a complaint involving only a hundred dollars.

"Were it not for the operation of this Act, it would be possible for him to finish the project in the same faulty manner, entailing considerable financial loss to his patron or sub-contractor, which, in many cases, would run into a large percentage of the total cost of the entire project.

"A typical case on record is case No. 55. In this case, investigation showed that 12 homes were being financed on fictitious loans and 12 owners were paying interest on money that was not available in the first place. This firm was forced into bankruptcy following investigation by our office, and the officers were sent to prison. In this same case, more than \$200,000 was involved, yet the actual complaint filed with the registrar reflected only a small amount and involved only one of the 12 homes.

"Enforcement of the Act has served a two-fold purpose inasmuch as it protected the public in cases such as this one, and has also protected the legitimate contractor and business man.

"In addition, enforcement of the Act has been instrumental in curbing the practice of many fly-by-night contractors in going from town-to-town and underbidding a reputable contractor with the intention of skinning the job by substituting cheap and inferior materials, diverting funds received for payment of labor or materials and vanishing after receiving one or more payments, leaving the owner with a partially completed project, saddled with liens for materials for which he had presumably paid," Huntington said.

The following table is a recapitulation of complaints adjudicated before the Registrar of the past three years:

	1929-30 Fiscal Year	1930-31 Fiscal Year	1931-32 Fiscal Year	Total Actions	Percentages	Amount of Complaints
Suspended	34	175	64	273	18.9	\$152,766.64
Revoked	12	10	17	39	2.7	44,707.97
Debarred	34	154	44	232	16.1	71,877.33
Not Guilty	3	49	170	222	15.4	69,824.08
Dismissed	54	260	59	373	25.9	194,646.51
Settled Prior to Hearing....	43	156	102	301	20.9	80,023.96
Denied		2		2	0.1	404.76
Totals	180	806	456	1442	100.0	\$614 251.25

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FRUITVALE 0715

Some Phases of the 1932 Federal Income Tax Law

FRANK T. ANDREWS, *Certified Public Accountant; Associate Member, Associated General Contractors*

The following is the fifth of a series of eight articles outlining income tax regulations of interest to every contractor.

THE proper method of computing depreciation, for income tax purposes, is a problem which concerns all contractors. Depreciation is a loss in value resulting from physical decay or use of property or due to lack of adaptation to function. There should be excluded from the term depreciation any idea of mere reduction in market value not resulting from exhaustion, wear and tear, or obsolescence.

The basis of depreciation is the cost of property or if the property were purchased prior to March 1, 1931, the basis is the cost or the value at March 1, 1931, whichever is higher. The law provides for "a reasonable allowance" for depreciation. This reasonable allowance is determined by experience and contemplates the useful life of property and the particular conditions under which the property is used. The rate is also affected by the accounting policy followed with respect to maintenance and replacements. Since a pre-established rate of depreciation is usually estimated so as to replace the capital investment in property by the time the property becomes useless or worthless, major repairs or replacements, tending to lengthen the estimated useful life of the property, should not be charged to expense. Such renewals or replacements should be charged against previously allowed depreciation as the regulations do not permit both depreciation and cost of renewing to be deducted from income.

Except in unusual cases, the income tax regulations require that depreciation be computed at a rate for each specific item. A contractor is seldom permitted to establish a composite rate of depreciation for a group of different items such as machinery or buildings.

There are a great many ways to figure depreciation and the government will allow almost any method or plan to be used, unless it is shown by clear and convincing evidence that the resulting deduction is unreasonable.

There are some methods of figuring annual depreciation which may result in a reasonable deduction but which are cumbersome and confusing.

Many contractors take an annual inventory of machinery and equipment and value it at the market price. The difference between the value at the opening and closing of the year is then used as a deduction for depreciation. This policy may or may not result as a fair measure of depreciation sustained. However, a method having no foundation of cost is adverse to all good accounting principles. The principal argument advanced in favor of this "inventory method" is that there is no other adequate way to value certain equipment which received hard and extraordinary usage during a year. This is not true. If a predetermined rate of depreciation for any asset is found insufficient to cover the actual deterioration, income tax regulations, as well as good accounting procedure, will permit a change of the depreciation rate. When contractors make rental charges for equipment, in keeping their costs, this rental should not be used as a basis for taking depreciation and the idea should be discouraged. Rental charges for equipment have no bearing upon depreciation. Depreciation should not be com-

puted upon appreciated values. Even though a contractor purchases a new \$4,000 truck for \$1,000, depreciation must be based upon the cost price.

In order for a depreciation deduction to be allowed, it must be written off the books. This is the government's only protection against excessive depreciation being taken.

Except where equipment is being used on a long-term contract where the profit is to be reported wholly in the year of its completion, depreciation may not be accumulated. If certain equipment is not used for several years the depreciation may not be deferred and charged against some future job; it must be taken each year regardless of the income from it.

If it is known that in many instances obsolescence, rather than ordinary wear and tear, becomes an important factor in determining an allowance for depreciation. A radical change in a certain type of equipment, involving greater efficiency, may render old equipment unfit for the purpose for which it was purchased or limit it to occasional use. Accordingly, depreciation rates used for such equipment should be modified to give full effect to extraordinary obsolescence affecting its useful life.

There are two simple ways, among others, to figure depreciation that are acceptable for income tax purposes: *Fixed Percentage Method*. This is the simplest and most popular method. The difference between the cost and residual or "junk" value of an asset is divided by its estimated life and the result, expressed as a percentage, is charged off each year. The argument against this method is that as an asset becomes older the cost of repairs increases, and since the income is charged with depreciation as well as with the cost of ordinary repairs, the charges against income are heaviest in the latter years of the life of the asset. In order to overcome this objection, the following is suggested as a simple but scientific alternate: *The Weighted Year Method*. By this method the depreciation each year is decreased, thus equalizing the total charges of depreciation and repairs. The amount of depreciation for any year may be determined by multiplying the total depreciation by a fraction having the number of years the asset will still last as a numerator, and the sum of the total years of its life as a denominator. To find the denominator, use the formula for the sum of a simple arithmetic progression: if the life were 10 years, this sum would be the sum of $1+2+3+4+5+6+7+8+9+10=55$. The formula for the sum of a simple arithmetic progression is $\frac{N(A+Z)}{2}$ where N is the number of

terms, A is the first term and Z the last term. The sum of the numbers from 1 to 10 would be $\frac{10(1+10)}{2} = \frac{110}{2} = 55$. If an asset cost \$1,500 and the residual value is \$400, the total to be depreciated is \$1,100. To calculate the depreciation for the first year, simply multiply the total depreciation, \$1,100, by the fraction referred to, i.e., $\frac{10}{55} \times \$1,100 = \200 . The second year is $\frac{9}{55} \times \$1,100$ or \$180. The depreciation the third year is $\frac{8}{55} \times \$1,100$ or \$160. The tenth year the depreciation would be $\frac{1}{55} \times \$1,100$, or \$20.

After figuring the difference between the first two years' depreciation, it is unnecessary to figure further depreciation by means of the formula, as the annual decrease of each year's depreciation is constant; in the example just shown the annual decrease is \$20.

Mr. Andrews will gladly answer your income tax questions during the time these articles are appearing in the **PACIFIC CONSTRUCTOR**. Address your communications c/o F. T. Andrews & Co., Certified Public Accountants, Russ Building, San Francisco.

LeTOURNEAU LOGGING UNIT ON WOLFE CREEK HIGHWAY

Away back in the rough and heavily timbered country west of Portland, Oregon, miles from any vestige of a road, a LeTourneau Logging Power unit is helping create the new Wolfe Creek route from Portland to the Pacific. The unit, which is being used by James Groat, contractor, with a tractor, is not only being used in actual roadway operations but served an important part in getting in the contractor's supplies and equipment.

When Groat began work on his section of the road, which is in the middle of the portion where construction is now under way, there was no road or even passable track leading to the scene where he had to go to work. He loaded a quality of gasoline and oil, powder and other supplies on a heavy sledge, hooked this up to his tractor and started from the nearest base of supplies.

He had to cross streams, climb hills and traverse almost impassable country for two miles. When the going got too heavy for the tractor, he ran out the line from the logging unit, turned on the power and literally hoisted himself, the tractor and the attached sledge to where he wanted it. If he came to a large windfall across his path, he would run out a line and pull it out of the way. At almost the end of the trip he had to go up a very steep hill. This he accomplished by using the logging unit and later hauled the sledge up by running a line down from the tractor to the sledge and dragging it up.

Arrived at the scene of operations, he picked out a large and sturdy tree, set up his tackle on it and hauled up to the tree sections of logs four to five feet in diameter and twenty to thirty feet in length, piling them up around the tree. This he did with only the lines on the logging unit and a small amount of accessory tackle. Some of these logs had to be hauled up out of deep and steep-sided ravines.

Groat said that other tractors attempting to get into the country where he it at work had gotten stuck and had to be helped out by additional tractors. He expressed himself as believing the logging power unit, although rated by the makers at a higher capacity than any other power unit on the market, was actually able to exceed the claims the manufacturers made for it.

Groat said the swivelling fairleads of the unit, enabling him to pull on lines running in any direction without turning the tractor, or even to pull in two directions at once, was very valuable in his work.

INTERMOUNTAIN BRANCH.—J. B. Mullins, Salt Lake City, was named president of the Intermountain Branch, Associated General Contractors, at the annual meeting held in Ogden on January 7. He succeeds G. H. Malan. The election of Mullins was made by acclamation after H. T. Reynolds, Jr., also nominated, withdrew when each candidate received the same number of votes.

Other officers elected are Karl Nelson, vice-president and T. C. Sorenson, secretary-treasurer. Mark Tuttle is manager.

New directors elected are D. R. Wheelwright and H. B. Way, succeeding C. W. Smith and Paul Paulsen.

The election followed an all-day meeting at the Hotel Ben Lomond.

The chapter adopted resolutions as follows: favoring further appropriations for federal aid and highway construction; favoring continuation of the federal reclamation construction program; opposing diversion of gasoline taxes from highway construction and maintenance funds; favoring appropriations for needed state buildings and institutions; favoring legislation to enable Utah to obtain R. F. C. funds for construction of dormitories at the agricultural college and University of Utah; favoring legislation authorizing the creation of improvement districts in counties outside the limits of cities and towns.

A crowd of 450 persons attended the banquet and entertainment in the Ben Lomond ballroom held after the convention.

NORTHERN CALIFORNIA CHAPTER.—George G. Pollock of the Pollock Construction Company, Sacramento, was elected president of the Northern California chapter, Associated General Contractors, at the first meeting of the new board of directors held in San Francisco, January 13.

Pollock has been vice-president of the chapter for the past year and succeeds Clyde W. Wood of Stockton in the presidency. R. D. Watson of Frederickson and Watson, Oakland, was elected vice-president.

Other members of the board of directors are C. W. Wood, A. B. Ordway, K. K. Bechtel, John Phillips and J. E. Bell.


Offices of Floyd O. Booe, manager of the chapter were moved on January 15 from 206 Sansome street, San Francisco, to the Balfour Building, 351 California street.

AUSTRIA RESTRICTING CONSTRUCTION.—Although Austria's income from automobile and gasoline taxes will amount to approximately 59,500,000 schillings for 1932, no important highway construction is under way or planned. Only 18,728,000 schillings (about \$2,675,000) are being spent on highway work in 1932, and the budget proposed for all classes of roads during 1933 calls for only 18,885,000 schillings. Funds are being used for only the most essential and least expensive maintenance of the main arterial highways.

ALAMEDA CHAPTER.—All officers of the Alameda County Chapter, Associated General Contractors were re-elected by the board of directors. The officers who have entered a new term are S. G. Johnson, president; George J. Maurer, vice-president; H. J. Christensen, secretary-treasurer; William E. Hague, manager.

The board of directors is composed of H. J. Christensen, Thomas F. L. Furlong, S. G. Johnson, W. E. Lyons, George J. Maurer, David Nordstrom and W. G. Thornally.

NEW LOCATION.—Southern California Chapter, A. G. C., is now located in new quarters at 1151 South Broadway, Los Angeles, the Chamber of Commerce Building. The offices formerly were in the Pershing Square building.

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46th Ave. and Clement St. Oakland, Calif.	308 Stock Ex. Bldg., Portland, Ore.	216 Walker Bldg., Seattle, Wash.

Washington State Highway Budget \$14,446,740

The highway budget for the State of Washington for the 1933-35 biennium provides for expenditures of \$14,446,740, compared with approximately \$22,000,000 during the current two-year period.

Estimated gasoline tax revenues are \$11,786,740, while \$2,660,000 it is expected will be allotted the State in Federal aid funds. The budget provides for 139 miles of paving; 946 miles of grading and surfacing; 1,169 miles of oiling.

The complete program for the State is as follows:

STATE ROAD No. 1—PACIFIC HIGHWAY

British Columbia line-Seattle—Chuckanut creek fill, Clayton bay fill; Wildcat Cove hill, Blaine and Peace Arch, paving gaps, \$20,200.

Blanchard Bridge approaches, paving, \$25,000.

Fisher's Slough vicinity, paving, \$12,000.

Pilchuck River north, \$150,000.

British Columbia line to Seattle, betterment, \$27,500.

Total British Columbia line to Seattle, \$234,700.

Seattle-Pierce county line, betterment, \$10,100.

King county line to Lewis county line—Union Ave.-Lakeview, paving, \$189,500; Ponders-Fort Lewis, paving, \$235,000; King county line-Lewis county line, betterment, \$5,500; total King county line-Lewis county line, \$430,000.

Thurston county line to Oregon state line, betterment, \$30,600.

Bellingham-Austin Pass—Nugents bridge approaches, paving, \$10,000; Deming-Glacier, \$8,100; Welcome Grange hall, Warneck, \$100,000; Bellingham-Austin Pass, oiling, \$50,500; Bellingham-Austin Pass, betterment, \$34,100; Bellingham-Austin Pass, snow removal, \$17,400. Total, Bellingham-Austin Pass, \$220,100.

Lake Samish branch, Burlington-Bellingham—State fish hatchery-Lake Samish, \$75,000; end of pavement-Bellingham, \$31,500; Burlington-Bellingham, betterment, \$7600; Burlington-Bellingham, oiling, \$52,000. Total Lake Samish branch, Burlington-Bellingham, \$166,100.

Connection to State Road No. 2, near Duwamish—Dnwamish vicinity, paving, \$30,000.

Total, State Road No. 1, \$1,121,600.

STATE ROAD No. 2—SUNSET HIGHWAY

Seattle to Snoqualmie Pass—Renton to Seattle, paving, \$125,000; Snoqualmie Pass-North Bend, paving, \$700,000; Seattle-Snoqualmie Pass, betterment, \$29,600; Seattle-

Snoqualmie Pass, snow removal, \$37,400. Total Seattle to Snoqualmie Pass, \$892,000.

Bothell-Fall City—Bothell-Hollywood, \$20,700; Hollywood East revision, paving, \$10,000; Redmond-Fall City, paving gaps, \$28,000; Bothell-Fall City, betterment, \$5,300. Total, Bothell to Fall City, \$64,000.

Snoqualmie Pass to Blewett Pass—Snoqualmie Pass-Teanaway Junction, paving, \$1,006,000; Teanaway Junction-Virden, oil, \$38,000; Virden-Mountain Home, \$137,000; Snoqualmie Pass-Blewett Pass, betterment, \$23,800; Snoqualmie Pass-Blewett Pass, snow removal, \$25,500. Total Snoqualmie Pass to Blewett Pass, \$1,228,300.

Blewett Pass to Wenatchee—Wenatchee-Cashmere, paving gaps, \$84,000; end of pavement west, \$144,000; end of pavement to summit of Blewett, guard rail and oiling, \$30,900; snow removal, \$5100. Total, Blewett Pass to Wenatchee, \$264,000.

Wenatchee to Wilbur—Almira cast, \$16,500; Wilbur-Almira, \$74,000; Wenatchee to Wilbur, oiling, \$116,000; snow removal, \$5,100; Wenatchee to Wilbur, betterment, \$7,200. Total, Wenatchee to Wilbur, \$218,800.

Wilbur to Spokane—Hawk Creek-Telford, \$32,000; Hawk Creek-Creston, \$29,200; Spokane-Wilbur, betterment, \$11,400; Wilbur to Spokane, snow removal, \$7,600. Total, Wilbur to Spokane, \$80,200.

Spokane-Idaho State Line—Dishman-Liberty Lake road, pavement widening, \$132,500.

Total, State Road No. 2, \$2,879,800.

STATE ROAD No. 3—INLAND EMPIRE HIGHWAY

Junction State Road No. 2 to Columbia River—Yakima-Ahtanum Creek bridge, paving, \$162,500; Prosser-Kiona, oil, \$14,400; Columbia River bridge, sidewalk, \$3,000; Junction State Road No. 2-Columbia River, betterment, \$34,800. Total, Junction State Road No. 2 to Columbia River, \$214,700.

Pasco-Walla Walla-Oregon State Line—Wallula cut-off, oil, \$22,500; Wallula-Tonchet, oil, \$36,000; Pasco-Walla Walla-Oregon State line, betterment, \$6,400. Total, Pasco-Walla Walla-Oregon State Line, \$64,900.

Walla Walla to Asotin—East entrance to city of Walla Walla, widening, \$20,000; Dayton-Pomeroy, surfacing and oil, \$36,000; Delaney and Jackson bridges, replacement, \$22,500; Pomeroy-McKiernan grade, \$39,000; McKiernan Grade-Silcott, oil, \$8,100; Clarkston west, \$78,500; Walla Walla-Asotin, betterment,

\$26,700. Total, Walla Walla to Asotin, \$230,800.

Dodge-Central Ferry—Dodge-Central Ferry, betterment, \$5,100. Total, Dodge-Central Ferry, \$5,100.

Central Ferry to Spokane—Spokane-Junction, Eastern Division, paving gaps, \$20,000; Dusty-North, \$100,800; Dusty-Central Ferry, surfacing and oil, \$23,400; Central Ferry to Spokane, betterment, \$29,700. Total, Central Ferry to Spokane, \$173,900.

Spokane-Laurier—Deer Park-Kettle Falls, widen, ballast and oil, \$163,300; Dennison, Deer Park, oil, \$3,600; Colville-North Revisions, \$18,700; Clayton-Loon Lake, \$2,500; Meyers Falls-Barstow, \$7,500; Kettle Falls bridge-Laurier, oil, \$26,100; Spokane-Laurier, betterment, \$24,000. Total, Spokane-Laurier, \$245,700.

Colfax-Pullman—Colfax-Pullman, pavement, \$565,000,000; Colfax-Pullman, betterment, \$4,200. Total, Colfax-Pullman, \$569,200.

Total, State Road No. 3, \$1,504,300.

INLAND EMPIRE HIGHWAY—EASTERN ROUTE

Junction State Road No. 3-Idaho State Line—Junction State Road No. 3-Pullman, \$210,900; Pullman-Idaho line, surfacing and oil, \$53,100; Junction State Road No. 3-Idaho State line, betterment, \$28,600; Junction State Road No. 3-Idaho State line, snow removal, \$4,200. Total, Junction State Road No. 3-Idaho State Line, \$296,800.

Total, Inland Empire Highway, Eastern Route, \$296,800.

STATE HIGHWAY No. 4

Tonasket to Republic—Tonasket to Republic, oiling, \$41,000; Tonasket to Republic, betterment, \$6,300. Total, Tonasket to Republic, \$47,300.

Republic to Wilbur—Ferry south, guard rail, \$2,800; Republic to Wilbur, betterment, \$8,500. Total, Republic to Wilbur, \$11,300.

Total, State Road No. 4, \$58,600.

STATE ROAD No. 5—NATIONAL PARK HIGHWAY

Renton-Chinook Pass—Enumclaw-Old Park entrance, \$246,700; Old Park entrance-Chinook Pass, guard rail, \$277,000; Renton-Chinook Pass, oil, \$103,600; Renton-Chinook Pass, betterment, \$19,500; Renton-Chinook Pass, snow removal, \$40,000. Total, Renton-Chinook Pass, \$436,700.

Chinook Pass to Yakima—Nelson Bridge-Oak Flat, construction and oil, \$317,000; Oak Flat-Chinook Pass, guard rail, \$70,000; Morse Creek-Carmack bridge, surfacing and oil, \$58,500; Chinook Pass-Yakima, betterment, \$37,400; Chinook Pass-Yakima, snow removal and equipment, \$29,700. Total, Chinook Pass-Yakima, \$512,600.

Auburn to Tacoma—King county line-Sumner, \$4,500; King county line-Tacoma, betterment, \$2,700; Total, Auburn to Tacoma, \$7,200.

Tacoma-Rainier National Park—Alder-La Grande, paving, \$108,100;

Tacoma-Rainier National Park, betterment, \$8,400. Total, Tacoma-Rainier National Park, \$116,500.

Junction State Road, No. 1 to Elbe; Kosmos to Chinook Pass—Mill Creek-Riffe, oil, \$10,800; Morton, Westfork, \$110,000; Westfork-Elbe, guard rail, \$10,000; Silver Creek bridge (between Randle and Cora), \$16,000; Clearfork-South boundary Rainier National Park, \$50,000; Riffe to Kosmos, oil, \$6,800; Junction State Road No. 1 to Elbe and Kosmos to Chinook Pass, betterment and reconstruction, \$22,300. Total, Junction State Road No. 1 to Elbe, Kosmos to Chinook Pass, \$225,900.

Fairfax Branch, Enumclaw-Park Boundary—Carbonado-Park line, \$70,000; Enumclaw-Park boundary, oiling, \$3,100; Enumclaw-Park boundary, betterment, \$15,800. Total, Fairfax Branch Enumclaw-Park Boundary, \$88,900.

Auburn westerly to Junction State Road No. 1—Auburn westerly, paving, \$51,000; Auburn westerly to State Road No. 1, betterment, \$3,500. Total Auburn westerly to Junction State Road No. 1, \$54,500.

Naches River-White Pass to Clearfork Junction—Naches River-Rimrock, surfacing and oil, \$73,000; Cartwright Creek vicinity, \$100,000; Naches River-White Pass, betterment, \$3,400. Total, Naches River-White Pass to Clearfork Junction, \$176,400.

Total, State Road No. 5, \$1,618,700.

STATE ROAD No. 6—PEND OREILLE HIGHWAY

Spokane-B.C. line—End of pavement-Newport, grading, surfacing, and oiling, \$145,000; Blueside-Ione, \$63,000; Ione-South, fill widening, \$10,000; McCloud Creek-B. C. line, surfacing and oil, \$252,000; Ruby Creek, Diamond Creek and Lost Creek bridges, \$20,000; Spokane-B. C. line, betterment, \$29,000. Total, Spokane-B. C. line, \$519,000.

Total State Road No. 6, \$519,000.

STATE ROAD No. 7—NORTH CENTRAL HIGHWAY

Ellensburg to Vantage—Ellensburg-Kittitas, paving, \$180,000; Kittitas-Highline Canal, construction and oil, \$59,500; Alkali Ike's-Rock Canyon, construction and oil, \$252,500; Ellensburg-Vantage, betterment, \$7,600. Total, Ellensburg to Vantage, \$499,600.

Vantage to Lincoln County Line—Quincy to Marlin, grading, surfacing and oil, \$17,000; Vantage to Lincoln county line, betterment, \$10,200. Total, Vantage to Lincoln county line, \$27,200.

Grant County Line to Davenport—Harrington-Lamona, \$10,000; Lamona-Odessa, \$22,500; Davenport-Grant county line, \$112,500; Grant county line to Davenport, betterment, \$8,900; Davenport-Harrington snow removal, \$1,700. Total, Grant county line to Davenport, \$155,600.

Total, State Road No. 7, \$682,400.

STATE ROAD No. 8—NORTH BANK HIGHWAY

Vancouver to Yakima County Line—Cooks-Underworld, \$827,000; Washongal-Yakima county line, guard rail, \$30,600; Stevenson-Maryhill junction, oil, \$44,500; Lyle-

Columbia Hills summit, oil, \$84,500; Vancouver-Yakima county line, betterment, \$40,400; Vancouver-Yakima county line, snow removal, \$13,300. Total, Vancouver to Yakima county line, \$1,040,300.

Klickitat County Line-Junction State Road No. 3—Buena-Toppenish, construction and oil, \$129,300; Toppenish Ridge-Klickitat county line, surfacing and oil, \$22,500; Klickitat county line-Junction State Road No. 3, betterment, \$7,600. Total, Klickitat county line to Junction State Road No. 3, \$159,400.

Total, State Road No. 8, \$1,199,700.

STATE ROAD No. 9—OLYMPIC HIGHWAY

Olympia-Port Angeles-Townsend Jorsted Creek crossing, \$29,000; Duckabush north, \$190,000; Blyn to Sequim, \$95,500; Purdy Creek-Camp Talbot, surfacing and oil, \$68,100; Blyn east, surfacing and oil, \$13,900; end of pavement-East limits Sequim, paving, \$227,500; Dungeness River bridge, \$105,000; Olympia-Port Angeles-Townsend, betterment, \$38,200. Total, Olympia-Port Angeles-Townsend, \$767,200.

Port Angeles-Hoh River—East Beach Road to Fairholm, \$11,000; Port Angeles-Hoh River, surfacing and oil, \$65,400; Port Angeles-Hoh River, betterment, \$40,000. Total, Port Angeles-Hoh River, \$116,400.

Hoh River-Perry Creek—Hoh River-Hoquiam, surfacing and oil, \$79,000; Hoh River-Perry Creek, betterment, \$59,800. Total, Hoh River-Perry Creek, \$138,800.

Grand Mound-Elma—Rochester, end pavement west, paving, \$71,000; Elma-Malone, \$88,000; Elma-Oakville, surfacing and oil, \$9,800; Elma-Grand Mound, betterment, \$1,700. Total, Elma-Grand Mound, \$170,500.

Total, State Road No. 9, \$1,192,900.

STATE HIGHWAY No. 10—CHELAN-OKANOGAN HIGHWAY

Wenatchee to Quincy—Wenatchee to Quincy, betterment, \$6,800. Total, Wenatchee to Quincy, \$6,800.

Wenatchee-Okanogan County line—Chelan-Chelan Falls-county line, oil, \$21,600; Wenatchee to Okanogan county line, betterment, \$13,600. Total, Wenatchee to Okanogan county line, \$35,200.

Orondo-Chelan Falls—Orondo north, oil, \$9,000. Total, Orondo to Chelan Falls, \$9,000.

Chelan County Line to B. C. Line—Chelan county line to B. C. Line, oil, \$121,500; Chelan county line to B. C. line, guard rail, \$8,000; Chelan county line to B. C. line, betterment, \$7,600. Total, Chelan county line to B. C. line, \$137,100.

Brewster-Conlee City—Brewster-Junction State Road No. 2, betterment, \$8,500; Brewster-Bridgeport, oil, \$18,000. Total, Brewster to Coulee City, \$26,500.

Total, State Road No. 10, \$124,600.

TOTAL ROAD No. 11—COLUMBIA BASIN HIGHWAY

Junction State Road No. 2-Franklin County Line—Cheney-Tyler, \$204,700; Fishtrap-Tyler, oiling,

\$29,800; Sprague, south, \$31,500; Fishtrap-Ritzville, surfacing and oil, \$54,000; Fishtrap-Franklin county line, \$15,000; Junction State Road No. 2-Franklin county line, betterment, \$18,000. Total, Junction State Road No. 2-Franklin county line, \$353,000.

Pasco-Adams County Line—Pasco-Adams county line, betterment, \$1,600.

Total, State Road No. 11, \$357,600.

STATE ROAD No. 12—OCEAN BEACH HIGHWAY

Chehalis to Astoria Ferry—Pe Ell to Pluvius, \$180,000; Potter's Slough-Palix, \$481,500; Beam Road-Pe Ell, surfacing and oil, \$8,000; Pluvius to Ilwaco, oil, \$12,400; Chinook-Point Ellice, oil, \$8,200; Chehalis to Astoria Ferry, betterment, \$44,400. Total, Chehalis to Astoria Ferry, \$734,500.

Kelso to Johnson's Landing—Skamokawa to Gray's River, \$23,800; Cathlamet to Johnson's Landing, oil, \$12,800; Longview-Coal Creek Slough, \$132,000; Kelso to Johnson's Landing, betterment, \$27,600. Total, Kelso to Johnson's Landing, \$196,200.

Total, State Road No. 12, \$930,700.

STATE ROAD No. 13—WILLAPA GRAYS HARBOR HIGHWAY

Cosmopolis-Pacific County Line—Cosmopolis-Arctic, \$101,200; Cosmopolis-Pacific county line, surfacing and oiling, \$12,600; Cosmopolis-Pacific county line, betterment, \$13,200. Total, Cosmopolis-Pacific county line, \$127,000.

Raymond to Grays Harbor County Line—Raymond-Pacific county line, oil, \$6,700; Raymond-Grays Harbor line, betterment, \$4,900. Total, Raymond to Grays Harbor county line, \$11,600.

Total, State Road No. 13, \$133,600.

STATE ROAD No. 14—NAVY YARD HIGHWAY

Junction State Road No. 9-Gig Harbor-Harper—Port Orchard to Tidewater Creek, surfacing and oil, \$18,000; Belfair, east, surfacing and oil, \$9,900; Junction State Road No. 9-Gig Harbor-Harper, betterment and reconstruction, \$39,000.

Total, State Road No. 14, \$66,900.

STATE ROAD No. 15—STEVENS HIGHWAY

Everett-Stevens Pass—Index-Goldbar, \$10,800; Index to Summit, \$350,000; Everett-Stevens Pass, oil, \$49,140; Everett-Stevens Pass, betterment, \$62,800; Everett-Stevens Pass, snow removal, \$5,100. Total, Everett to Stevens Pass, \$477,840.

Stevens Pass to Junction State Road No. 2—Junction State Road No. 2 to Leavenworth, \$5,000; Junction State Road No. 2 to Leavenworth, oil, \$8,100; Duncan Corner, grading, surfacing and oil, \$13,150; Leavenworth to Winton, \$6,000; Wenatchee River bridge, \$22,000; Leavenworth to Merritt, surfacing and oil, \$67,500; Cascade, east, \$492,500; Berne to Merritt, \$3,000; Junction State Road No. 2 to Summit, betterment, \$30,600; guard rail, \$11,000; snow removal, \$3,400. Total, Stevens Pass to Junction State Road No. 2, \$662,250.

Total, State Road No. 15, \$1,140,090.

NEVADA PLANS ROAD BUDGET OF \$2,304,000

Highway Develop. Program Depends on Federal Aid Action

Based on the assumption that congress will appropriate at least \$75,000,000 for highway construction purposes for the fiscal year starting next July, of which Nevada would receive approximately \$750,000, the Nevada highway department will expend \$2,304,735 during the year 1933 for road construction, oiling and maintenance, according to the tentative construction and maintenance budget for the year, announced by State Highway Engineer S. C. Durkee.

Should congress fail to make the appropriation then the work will be curtailed to such an extent that there will be little or no construction after July 1.

The department now has approximately \$985,000 in unexpended federal funds to carry on the highway program until June 30. Of this sum \$800,000 is in emergency federal aid funds that must be entirely expended by June 30 or they will revert. Only \$100,000 remains in the regular federal aid fund while \$85,000 remains in the Oddie-Colton or federal land fund. This will all be used within the next few months.

The tentative budget calls for the expenditure of \$526,297 in general maintenance, \$58,703 in specific maintenance and \$15,000 for maintenance administration. The maintenance cost is borne entirely by the state without federal aid and will be continued through the year, according to present plans.

The department contemplates the expenditure of \$153,306 in Washoe county which includes the reconstruction and surfacing of the highway from Reno to Huffakers at a cost of \$115,000 and the expenditure of approximately \$38,000 in maintenance for the 88 miles of state highway in the county. According to present plans the Reno-Huffakers work will be financed from funds now available.

Lander county is allotted the largest sum for road work in the tentative budget with a total of \$462,463, of which approximately \$223,000 is for reconstruction and oiling.

Following are the contemplated expenditures distributed according to counties:

Churchill County.—Bituminous surface treatment, Leeteville to Lahontan, 12 miles, \$30,000.

Clark County.—Reconstruct and oil, Las Vegas to six miles southwest of Apex, 8.64 miles, \$73,400;

Lower Virgin River bridge to Mesquite, 10.58 miles, \$30,000;

Cement concrete paving, city of Las Vegas, 3.91 miles, \$180,000;

Douglas County.—Reconstruct and oil, Lyon county line to five miles east of Holbrook, 5.63 miles, \$45,000;

Elko County.—Between Little Salmon river and the Idaho state line, 10.13 miles, \$60,000;

Two bridges over Little Salmon river, \$30,000;

Cement concrete pavement, city of Elko, 1.21 miles, \$60,000;

Contact to 8 miles north, gravel surfacing, 7.98 miles, \$17,556;

Esmeralda County.—Bituminous surface treatment, Nye Co. line to Millers Cut-off road, 8.67 miles, \$21,675;

Eureka County.—Reconstruct and oil west Eureka county line to 14 miles west of Hay ranch, 9.68 miles, \$77,440;

Lander County.—Reconstruct and oil Campbell creek ranch to Railroad Pass 15.92 miles, \$119,400;

Twelve miles east of Austin to Eureka county line, 23.93 miles, \$203,405;

Bituminous surface treatment, Railroad Pass to Austin, 21.41 miles, \$64,230;

Austin to 12 miles east, 11.7 miles, \$35,100;

Lincoln County.—Maynard lake to Alamo, 15 miles, \$90,000;

Lyon County.—Dayton to Lahontan, 30 miles, \$150,000;

Reconstruct and oil, Hoyo to Douglas county line, 0.98 mile, \$7,840;

Bridge over West Walker river, \$15,000;

Bituminous surface treatment, Yerington, to 9½ miles east, 9.53 miles, \$23,825;

Nye County.—Bituminous surface treatment, Tonopah to the Esmeralda county line, 1.1 miles, \$2,750;

Pershing County.—Cement concrete pavement, city of Lovelock, 1.22 miles \$65,000;

Washoe County.—Reconstruction, asphaltic concrete, Reno to Huffakers, 5.42 miles, \$115,000;

White Pine County.—Gravel surfacing only, west foot of Antelope Summit to Illipah, 12.62 miles, \$27,764;

Bituminous surface treatment, Eureka-White Pine county line to Robinson Summit, 49.83 miles, \$159,490.

STATE MAY ENGAGE SPECIAL ARCHITECTS

Authority to employ practicing architects to design the new California state hospital to be located at Ventura is vested in the board of managers of the institution, according to an opinion rendered yesterday by Attorney General U. S. Webb. The hospital will cost approximately \$1,000,000, on the basis of general plans.

Webb's opinion was given to State Architect George B. McDougall. He said the board of managers was expressly empowered under Section 2151 of the Political Code, authorizing the project, to engage architects at their discretion. The hospital will be under supervision of the Department of Institutions, headed by Dr. J. M. Toner.

KELLY PROPOSES TO END \$9,000,000 GAS TAX REFUND

Levy on Exempt Gallonage Would Avoid Robbing Highway Dept.

Abolition of gas tax refunds on purchases of non-highway use has been suggested by Earl Lee Kelly, public works director, as a possible means of bolstering general fund revenues.

He said he may recommend to a senate financial fact-finding committee use of \$9,000,000 refund money each biennium to aid budget balancing. This would require statutory amendment.

Agricultural, aviation and marine users of gasoline now get refunds of the 3-cent tax. Kelly opposes this, insisting that it should be a straight sales levy on all consumption.

Finance Director Rolland Vandegrift approved the proposal which would accomplish the same end as his suggested general fund rebate of \$8,799,000 used to pay highway bond charges. Vandegrift said there are widespread abuses of the present system.

REMODELING WORK TO BE DEVELOPED

Lindgren & Swinerton, Inc., San Francisco, have inaugurated an alteration division of the company which will specialize in all types of modernization and re-construction. J. Hal Hunter, who has been identified with the building industry in Northern California for the past sixteen years, is in charge of the new division.

"The era of rejuvenation of old buildings which started some months ago has been a means of relieving some of the unemployment and since it is natural that a continuance of this type of work is to be about the first stimulus to the construction industry to be expected this firm will play a strong role in its promotion," Hunter declared.

Lindgren recently completed the modernizing of the Blake Block in Oakland. They are also low bidders on the addition to the San Francisco post office building, on which a contract will be awarded shortly.

CLINTON SUES ON FACTORY CONTRACT

Clinton Construction Company of San Francisco, has filed suit in the Federal district court to collect \$68,093 from the Ford Motor Company, claimed as a balance due on the contract for construction of the Ford assembly plant at Richmond.

The Clinton company declares the contract was completed Sept. 17, 1931. A dispute over the final payment arose thereafter and the Ford company has refused to pay the balance due.

MacDONALD NEW HEAD OF STATE LABOR DIVISION

Reardon Vacancy Given Building Trades Council Executive

Frank C. MacDonald, president of the California State Building Trades Council, has been named state labor commissioner by Gov. James Rolph to succeed Timothy A. Reardon, appointed chairman of the state industrial accident commission.

The probable shifting of Reardon to the new post was indicated in news dispatches from Sacramento last week. Reardon was formerly director of public works in San Francisco.

In his new post he succeeds Will J. French, identified with the state department of industrial relations almost continuously since 1911. Although French's term on the commission will not expire until 1934, the chairman's appointment goes to Reardon by designation of the Governor.

Reardon takes the place of Edward Allen of Berkeley whose term expired January 15.

MacDonald has long been one of the state's leading representatives of organized labor. In his new position he will have supervision of the bureau of labor statistics and the state's employment agencies and wage claim activities.

MORE DIRECTORS ON TRUCK BOARD

The directorate of the Allied Truck Owners was enlarged from seven members to 27 by a resolution adopted at the first annual convention which was held in Sacramento last week.

Frank L. Asbury of Los Angeles, president of the organization, was presented with an honorary badge in recognition of his services at the conclusion of the convention over which he presided.

The slate of directors proposed by the nominating committee will be before the membership for election at a meeting in March. The names submitted are:

Phillip E. Ling, San Francisco; George Harm, Fresno; Harry Phoenix, Bakersfield; Victor Swall, Visalia; V. J. Keyes, Fresno; Dana Wescott, Madera; Harley Highdon, Stockton; W. R. Stinnett, Merced; Sidney Epperson, Woodland; M. D. Savage, San Francisco; Ray A. Conyes, Oakland; A. L. Schneider, Sacramento.

E. H. Baker, Santa Rosa; J. E. Raymond, San Francisco; Wade Woody, Lindsay; B. W. Belyea, Los Angeles; R. E. Hazard, San Diego; L. D. Barnes, Riverside; Howard Lang, Los Angeles; C. J. Lamb, Long Beach; Frank Gularte, Santa Maria; A. M. Gross, Los Angeles; R. G. Knoll, Los Angeles; T. R. Rex, Redlands; Frank H. Asbury, Los Angeles, and C. S. Fisher, Modesto.

NEVADA URGES U. S. ROAD APPROPRIATION

Unless congress appropriates more than the \$35,000,000 now carried in the agricultural appropriation bill for federal aid highways all road building activities in Nevada will be at a standstill after July 1, according to state highway officials.

Nevada's net share of the \$35,000,000, according to Huston Mills, assistant highway engineer, would be between \$200,000 and \$250,000, or just enough to permit the state to fulfill construction commitments under appropriations authorized last year.

"Not even this work can be done," he explained, "unless the appropriation bill carries at least \$75,000,000 for federal aid highways of which Nevada would receive about \$750,000."

Telegrams to congressional leaders urging a larger appropriation, "because road construction is absolutely necessary to meet employment needs and to bring about completion of the state highway system," brought discouraging replies from Speaker Garner and Majority Leader Rainey, Mills stated.

"Garner merely promised to give 'earnest consideration' to our requests," he said, "while Rainey called attention to a federal deficit of \$100,000,000 per month and asked where the money would come from for more roads."

\$3,500,000 U. S. BUILDING BIDS OPEN FEB. 28

Excavation Starts On Civic Center Site For Big Structure

WASHINGTON, D. C., Jan. 16.—Bids for the \$3,500,000 Federal building in San Francisco will be received by the treasury department on February 28.

The federal building will be located in the civic center group on a site provided by the city at McAllister and Hyde streets. The Sibley Grading and Teaming Company which has received the excavation contract will proceed at once, officials said.

Specifications for the six-story structure include the following items: granite exterior, terra cotta court lining, promenade terrazzo and tile flooring, mastic tile floors in offices, lead roof, metal sash, quarry tile in corridors, oak trim throughout, movable metal partitions, plate glass, main stairs of marble and main entrance of aluminum.

Seven elevators are to be installed under a separate contract.

Plans for the building are by Arthur Brown, Jr., 251 Kearny street, architect; Leland and Haley, 58 Sutter street, mechanical engineers and C. H. Snyder, 251 Kearny street, structural engineer.

Cypress Lawn Memorial Park

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Rolph Message Deals With State Construction Program

Two portions of Governor Rolph's message to the 1933 legislature are of particular interest to the California construction industry. They are reprinted below:

DEPARTMENT OF PUBLIC WORKS

In our department of public works alone we have expended during the past biennium more than \$82,400,000 on projects of inestimable value to the people. We have constructed and reconstructed during the past two years some 1700 miles of highway. The diversion of highways expended \$64,208,839 in the 58 counties of the state.

We estimate that approximately 90 per cent of this tremendous sum or over \$51,000,000, has ultimately been paid to labor. This created the work that gave employment to legions of workmen whose wages have in large measure been the life-blood of business in this state. Some 9,000 citizens on an average were continuously employed on our state highway work.

In our division of architecture we expended the sum of \$7,813,921 in 29 counties on various necessary construction projects, thereby creating 422,942 man days employment.

Because of the expenditures on our buildings, greater accommodation has been afforded our citizens, superior school facilities have been given to the children, and the inmates of our institutions have been afforded more adequate modern housing.

We also expended \$351,488.75 on flood control, reclamation, river and hydraulic works. Of the cost of this work, 70.8 per cent or \$259,811 was expended for labor amounting to 54,272 man days.

These tremendous expenditures made during the world's most devastating industrial depression have made possible vast employments that have stimulated industry in every county of our state. Our splendid highway system has helped place California in the forefront as the Mecca for American tourists who annually spend millions of dollars while enjoying the accommodations, the climate and the scenery of our state.

It should be remembered also that our unsurpassed smooth, modern highways insure safe, rapid movement with transportation economy of at least 25 per cent to our farmers, growers and manufacturers as well as to the traveling public. This desirable condition could not maintain had we shortsightedly saved money by clinging to rough, unsafe antiquated highways.

DIVERSION OF GENERAL FUND MONEY

The time has come when the legislature must decide whether the diverting of general fund moneys for highway purposes shall continue.

During the past 22 years there has been diverted from the general fund for highway purposes approximately \$60,000,000 to pay redemption and interest on highway bonds.

There is no logical reason, considering the enormous sums derived for highway purposes from the gas tax, the motor vehicle fees, tax on highway transportation companies and federal aid, why the general fund should be called upon to continue to pay such a large annual amount for highway purposes.

If the general fund can be relieved of the burden of approximately \$4,350,000 a year, which decreases at the rate of approximately \$325,000 a biennium, it will go a long way toward solving the problem of making a balanced budget for the next two years.

By providing through legislative enactment that the highway funds shall carry all the cost of the highway system of the state of California, only a slight adjustment will be required in the present program of highway construction and maintenance.

I therefore recommend for your consideration the passage of an urgency measure for the reimbursing of the general fund for moneys used to pay highway bond interest and redemption, not only for the beginning of the next biennium but also for the present biennium.

If the \$8,779,750 which will have been paid for highway bond interest and redemption by the close of this biennium is returned to the general fund out of gas tax revenues, with the savings which have already been accomplished, we shall probably be able to end this biennium without a deficit in the general fund.

Opposition to this proposal has been voiced, but in my opinion, it is short-sighted. My recommendations will reserve the revenues from the gasoline taxes for highway purposes. Resistance to these fair suggestions will in the long run create a demand from the irritated taxpayers that a large portion of the enormous revenues from the gasoline tax shall be applied to the relief of the general fund.

FRESNO PLANS MODERNIZATION OF AUDITORIUM

Architect Submits Plans for Remodeling Building at \$175,000 Cost

A proposal to modernize the Fresno municipal auditorium at a cost of \$175,000 is before the city council for consideration, having been prepared in detail by Charles H. Franklin, Fresno architect and engineer.

The project entails remodeling of the interior and exterior of the building, 175 by 150 feet, and expansion of the seating capacity by 25 percent through installation of elevated balcony seats and the addition of new equipment.

Financing of the work, it is proposed, will be accomplished through a loan from the Reconstruction Finance Corporation or by borrowing from the municipal water department revenues.

The plan provides for the installation of new concrete balconies, with fixed theater seats on an elevated platform to accommodate 1,200 persons. Storage space would be provided under the balcony seats for the National Guard armory, which now occupies space on the balcony floor. An inside lobby would be a feature.

An adequate heating, cooling and ventilation system is included in the estimate and the stage would be enlarged. A ceiling of acoustical property to supplant the present steel-girder framework and improve the acoustics of the auditorium is provided in the remodeling scheme.

Provision for committee and banquet rooms under the side balconies for use during conventions is made by means of rolling partitions. A new inch and a quarter maple flooring is to be laid over both the main floor and stage, while terrazzo floors, divided into panels and brass strips, would be laid under the balconies on either side of the auditorium.

An exterior balcony is to be installed at the L Street entrance, finished in terrazzo floors in four-color unique designs. The front exterior facade consists of vertical piers, with black bases and aluminum frames at the seven lobby entrances. Provision also is made for flood lighting the front of the auditorium.

The interior finish is to be tile and texture plaster, with stainless steel columns under the balconies. There will be a new proscenium opening on the stage, new drapes and modernistic lighting arrangements. A sound motion picture projection booth is provided, as well as check rooms, lavatories, dressing rooms and a kitchen.

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

5-MI. GRADE AND CONCRETE PAVE — MONTEREY COUNTY

MONTEREY COUNTY, Cal.—M. J. Bevanda, Elks Bldg., Stockton, at \$173,378.40 submitted low bid Jan. 4 to the State Highway Commission, Sacramento, to grade and pave with Portland cement concrete 5 mi., bet. 6 mi. and 1 mi. south of San Ardo, involving:

(1) 35.0 sta. clear and grub right-of-way;
 (2) 155,100 cu. yds. rdwy. excav. unclass.;
 (3) 756,200 sta. yds. overhaul;
 (4) 46,600 cu. yds. imp. borrow;
 (5) 3035 cu. yds. struc. excav.;
 (6) 52,300 sq. yds. subg. for pave.;
 (7) 12,250 cu. yds. Class "A" eem. conc. (pave.);
 (8) 353 cu. yds. Class "A" do (struc.);
 (9) 215,900 lbs. bar reinf. steel (pave and struc.);

(10) 332 lin. ft. 8-in. corr. metal pipe;
 (11) 900 lin. ft. 18-in. do;
 (12) 365 lin. ft. 24-in. do;
 (13) 164 lin. ft. 30-in. do;
 (14) 134 lin. ft. 36-in. do;
 (15) 1530 cu. yds. conc. remove from exist. pave. and struc.;
 (16) 256 sq. yds. paved gutters;
 (17) 2500 M. gals. water;
 (18) 4725 bbls. fuel oil;
 (19) 1000 lin. ft. move and reset exist. guard rail;
 (20) 1440 lin. ft. lam. timber guard rail;
 (21) 284 timber guideposts;
 (22) 58 culvert markers;
 (23) 7.25 mi. new barbed wire fence;
 (24) 1.85 mi. new hog-tight fence;
 (25) 32 fence gates;
 (26) 200 sta. finish roadway;
 (27) 65 monuments complete in place

pipe and spillway assemblies.
 Complete bids follow
 (A) M. J. Bevanda, Stockton, \$173,378.40.
 (B) Union Paving Co., San Francisco, \$182,875.30.
 (C) C. W. Wood, Stockton, \$190,020.40
 (D) Granite Const. Co., Watsonville, \$192,790.80.
 (E) Fredrickson & Watson, Oakland, \$192,813.35.
 (F) A. J. Raisch, San Jose, \$196,794.41.
 (G) United Concrete Pipe Co., Los Angeles, \$199,331.50.
 (H) Peninsula Paving Co., San Francisco, \$219,299.35.
 (I) Heafey-Moore Co., Oakland, \$219,937.35.

Unit bids follow

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
(1).....	\$ 20.00	\$ 25.00	\$ 25.00	\$ 35.00	\$ 25.00	\$ 10.00	\$ 50.00	\$ 20.00	\$ 6.00
(2).....	.15	.20	.18	.20	.18	.20	.20	.25	.25
(3).....	.004	.004	.005	.005	.005	.004	.005	.01	.005
(4).....	.30	.30	.30	.35	.30	.30	.40	.40	.50
(5).....	.50	.50	.60	.80	.50	.60	.70	.80	1.00
(6).....	.08	.06	.07	.06	.07	.07	.06	.07	.08
(7).....	7.60	7.75	8.20	8.17	8.60	8.47	8.34	9.00	8.50
(8).....	12.00	14.00	16.00	16.00	15.00	15.00	18.00	18.00	15.00
(9).....	.03	.03	.035	.032	.03	.037	.03	.025	.0375
(10).....	.20	.25	.25	.20	.15	.15	.20	.20	.10
(11).....	.20	.25	.25	.25	.25	.25	.30	.25	.20
(12).....	.20	.25	.30	.30	.30	.30	.40	.25	.30
(13).....	.25	.25	.40	.35	.35	.40	.50	.25	.50
(14).....	.40	.25	.60	.50	.50	.50	.60	.25	.50
(15).....	1.00	1.00	1.20	.75	1.00	2.00	1.10	1.50	2.25
(16).....	.75	1.50	1.00	.60	.65	.60	1.00	.85	1.00
(17).....	.50	.60	.50	.50	1.00	.60	1.00	1.35	1.25
(18).....	2.00	2.00	2.00	2.00	2.00	1.90	2.00	1.75	2.25
(19).....	.40	.50	.50	.40	.50	.50	.60	.50	.45
(20).....	.80	.75	.90	.70	.80	.90	.90	.75	.90
(21).....	2.50	2.00	2.50	2.30	2.00	1.25	2.00	2.50	2.50
(22).....	2.00	2.00	2.00	1.70	2.00	1.25	2.00	2.15	2.00
(23).....	300.00	250.00	300.00	290.00	300.00	400.00	300.00	450.00	350.00
(24).....	400.00	350.00	450.00	400.00	325.00	450.00	400.00	600.00	500.00
(25).....	15.00	15.00	15.00	12.00	12.00	12.00	12.00	10.00	15.00
(26).....	5.00	5.00	5.00	4.50	5.00	4.00	2.00	5.00	4.00
(27).....	2.00	3.00	3.00	2.50	2.50	2.00	2.00	3.00	2.50

BARSTOW BRIDGE — SAN BERNARDINO COUNTY — BIDS OPENED

SAN BERNARDINO COUNTY, Cal.—Hartman Const. Co., P. O. Box 1632 Bakersfield, and G. A. Graham, 613 19th St., Bakersfield, bidding jointly at \$94,955.30 submitted low bid Jan. 4 to the State Highway Commission, Sacramento, to construct a bridge across Mojave River at Barstow, consisting of five 100-ft. deck plate girder spans and seven 35-ft. steel stringer spans, and grading and surfacing approaches with oil treated crushed gravel or stone, involving:

(1) 5650 cu. yds. struc. excav.;
 (2) 8600 cu. yds. imp. borrow;
 (3) 5400 lin. ft. furnish Douglas fir piles, incl. test piles;
 (4) 265 drive Douglas fir piles, incl. test piles;
 (5) 1420 lin. ft. reinf. conc. piles;

(6) 590 cu. yds. Class "A" eem. conc (footing blocks);
 (7) 1315 cu. yds. Class "A" do;
 (8) 150 cu. yds. Class "A" do;
 (9) 960 sq. yds. reinf. steel (slope pave);
 (10) 170,000 lbs. bar reinf. steel;
 (11) 763,000 lbs. struc. steel;
 (12) 12,330 lbs. cast steel;
 (13) 1550 lin. ft. solid timber railing;
 (14) 440 cu. yds. cru. gravel or stone;
 (15) 21 cu. yds. screenings (seal coat)
 (16) 225 bbls. heavy fuel oil;
 (17) 270 M gals. water;
 (18) 9 sta. finish roadway;
 (19) 12 monuments complete in place; Graham, Bakersfield, \$94,955.30.
 (20) 1 exist. bridge removed;
 Complete bids follow:
 (21) 1 lot misc. items of work.
 (A) Hartman Const. Co. and G. A.

(B) Bodenhamer Const. Co., Oakland, \$99,925.90.
 (C) M. B. McGowan, San Francisco, \$101,597.00.
 (D) H. M. Baruch and Robinson-Roberts Co., Los Angeles, \$103,428.00.
 (E) Clinton Const. Co., San Francisco \$104,560.55.
 (F) Dimmit & Taylor, Los Angeles, \$106,190.70.
 (G) Lynch-Cannon Eng. Co., Los Angeles, \$109,242.50.
 (H) Sharp & Fellows, Los Angeles, \$110,221.90.
 (I) Oberg Bros., Los Angeles, \$112,763.80.
 (J) Merritt-Chapman & Scott Corp., San Pedro, \$114,158.85.
 (K) Matich Bros., Elsinore, \$135,335.75.
 Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)
(1).....	\$ 1.25	\$ 2.00	\$ 1.50	\$ 3.00	\$ 2.64	\$ 2.60	\$ 2.90	\$ 3.00	\$ 3.00	\$ 2.90	\$ 3.38
(2).....	.40	.50	.30	.15	.57	.45	.40	.36	.40	.40	.79
(3).....	.25	.25	.23	.30	.215	.26	.23	.27	.25	.30	.25
(4).....	9.30	7.00	11.00	12.00	9.68	7.56	19.00	8.00	17.30	17.00	13.00
(5).....	3.00	2.40	2.00	2.50	2.82	2.46	3.00	3.00	2.27	3.00	3.60
(6).....	10.00	11.50	9.00	12.50	9.15	10.70	12.00	11.50	12.00	12.00	19.00
(7).....	15.00	16.50	17.00	15.50	16.10	18.00	18.50	18.50	17.20	18.60	24.30

(8)	11.00	12.00	12.00	12.00	11.90	9.60	20.00	12.00	12.70	18.00	19.00
(9)	.48	.38	.60	.60	.45	.47	.50	.50	.445	.40	.40
(10)	.0325	.045	.03	.03	.0321	.63	.035	.032	.0324	.035	.034
(11)	.045	.0448	.049	.0375	.0483	.047	.05	.047	.0483	.0473	.05
(12)	.11	.10	.10	.10	.085	.08	.10	.08	.10	.095	.10
(12)	1.50	1.00	1.50	1.25	1.13	1.10	1.00	1.00	1.00	1.20	1.15
(14)	3.15	2.75	4.50	6.00	3.55	3.80	4.00	4.50	4.60	4.70	3.50
(15)	4.00	5.00	5.00	5.00	4.00	3.80	5.00	4.50	4.50	5.60	3.50
(16)	2.00	2.50	3.00	3.50	2.40	2.00	2.00	2.50	2.80	2.40	2.25
(17)	2.00	1.25	2.00	2.50	1.00	.50	.50	1.50	1.00	.40	.60
(18)	5.00	10.00	30.00	6.00	12.00	10.00	10.00	6.00	10.00	4.50	19.00
(19)	3.00	3.00	6.00	3.00	4.00	3.00	5.00	4.00	5.00	3.00	3.00
(20)	2000.00	1800.00	1925.00	2500.00	1680.00	2600.00	1200.00	1900.00	2154.00	3937.00	2800.00
(21)	774.00	500.00	1162.00	1200.00	750.00	500.00	1000.00	750.00	1200.00	2200.00	500.00

FIRE HOSE—CITY OF SAN FRANCISCO

SAN FRANCISCO.—Following bids received by City Purchasing Department to furnish hose for the various departments:

- (1) 200 ft. ½-in. (50 ft. lengths);
- (2) 6500 ft. ¾-in. (50 ft. lengths);
- (3) 500 ft. ¾-in. (25 ft. lengths);
- (4) 300 ft. ¾-in. (continuous lengths);
- (5) 100 ft. 1-in. (10 ft. lengths);
- (6) 1000 ft. 1-in. (50 ft. lengths);
- (7) 100 ft. 1-in. (continuous lengths);
- (8) 1000 ft. 2½-in. (con. lengths);

- (9) 200 ft. 2½-in. (cotton);
- (10) 100 ft. 3-in. (cotton).

- (A) U. S. Rubber Company.
- (B) Baker, Hamilton & Pacific.
- (C) Hercules Equipment Rubber Co.
- (D) American Rubber Co.
- (E) Warren & Bailey.
- (F) Goodyear Rubber Co.
- (G) Dunham, Carrigan & Hayden.
- (H) Quaker City Rubber Co.
- (I) Pioneer Rubber Mills.

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
(1)	\$.0836	\$.058	\$.0586	.....	\$.0636	\$.0568	\$.0636	\$.0633	\$.0636
.....	.063								
(2)	.1036	.0745	.0751	.....	.0816	.0729	.0816	.0813	.0816
.....	.081								
(3)	.1072	.0775	.0787	.....	.0852	.0789	.0852	.0849	.0852
.....	.084								
(4)	.10	.0715	.0715	.....	.078	.07	.078	.078	.078
.....	.078								
(5)	.17	.165	.1320	.....	.166	.1675	.176	.1275	.17
(6)	.134	.125	.1170	.....	.121	.1275	.136	.1075	.138
(7)	.125	.115	.1130	.....	.116	.1175	.126	.1025	.13
(8)	.778	.....	.61	.84	1.02	.83	.70	.67	.65
(9)	.43	.....	.33	.48	.48	.45	.90	.46	.48
(10)	.64	.....	.44	.64	.64	.80	1.14	.75	.64

3.8-MI GRADING -- LOS ANGELES COUNTY

LOS ANGELES, COUNTY, Cal.—Fredrickson & Watson Co., 873 81st St., Oakland, at \$175,335.60 submitted low bid Jan. 11 to State Highway Comm., Sacramento, to grade 3.8 mi. bet. one mile east of Gorman and the northerly boundary; of which 3.5 mi. are to be paved with Portland cement concrete, involving:

- (1) 203 sta. clear and grub right-of-way;
- (2) 269,100 cu. yds. roadway excav., unclass.;
- (3) 2,500,000 sta. yds. overhaul;
- (4) 3700 cu. yds. struc. excav.;
- (5) 61,700 sq. yds. subgrade for pave.;
- (6) 13,120 cu. yds. class A cem. conc. (pave.);
- (7) 130 cu. yds. do. (struc.);
- (8) 301,000 lbs. bar reinf. steel (pave. and struc.);
- (9) 450 lin. ft. 8-in. corr. metal pipe
- (10) 500 lin. ft. 18-in. do;
- (11) 1350 lin. ft. 24-in. do;
- (12) 3500 cu. yds. exist. pave. to be removed;

- (13) 6350 M. gals. water (embank.);
 - (14) 3400 bbls fuel oil;
 - (15) 1.5 mi. new property fence;
 - (16) 4 gates complete in place;
 - (17) 200 timber guide posts;
 - (18) 60 culvert markers;
 - (19) 3000 lbs. misc. iron and steel (struc.);
 - (20) 203 sta. finish roadway;
 - (21) 50 monuments complete in place; State will furnish corr. metal pipe and spillway assemblies.
- Complete bids follow:
- (A) Fredrickson & Watson, Oakland, \$175,335.60.
 - (B) C. W. Wood, Stockton, \$184,436.50
 - (C) A. Telchert, Sacramento, \$193,291.00.
 - (D) Jahn & Bressi, Los Angeles, \$205,888.50.
 - (E) Weymouth Crowell Co. and E. P. Watson, Jr., Pasadena, \$207,475.
 - (F) Oswald Bros., Los Angeles, \$212,339.50.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)
(1)	\$ 10.00	\$ 5.00	\$ 5.00	\$ 5.00	\$ 3.00	\$ 3.00
(2)	.18	.20	.21	.22	.24	.23
(3)	.003	.003	.015	.0025	.0035	.003
(4)	.50	.50	.80	1.00	.50	.70
(5)	.06	.07	.08	.07	.07	.07
(6)	6.00	6.25	6.29	7.70	7.20	7.35
(7)	14.00	16.00	17.50	16.00	20.00	18.50
(8)	.0325	.01	.01	.035	.038	.04
(9)	.30	.50	.30	.25	.40	.25
(10)	.40	.50	.50	.40	.40	.30
(11)	.55	.50	.70	.50	.60	.35
(12)	1.00	1.00	1.00	1.00	1.00	1.10
(13)	1.00	.75	.70	.40	.40	.55
(14)	2.00	1.90	1.75	2.00	2.25	2.15
(15)	350.00	300.00	400.00	400.00	400.00	600.00
(16)	12.00	15.00	15.50	25.00	15.00	12.50
(17)	2.25	2.50	2.30	2.50	2.50	3.90
(18)	2.00	2.00	2.00	2.00	2.00	2.50
(19)	.65	.10	.07	.15	.97	.06
(20)	4.00	5.00	5.00	5.00	5.90	2.50
(21)	2.50	2.00	2.50	2.50	3.90	2.75

BRIDGES

LOS ANGELES, Cal.—Bids for furnishing miscellaneous materials for use in the construction of a concrete bridge across San Gabriel River at Second St. in Long Beach were opened by county supervisors January 3. Bids were taken as follows:

PROFOSAL NO. 1
 (1) 1856 bbls. cement in cloth sacks, f.o.b. cars at nearest available siding to site of work.

PROPOSAL NO. 2
 Reinf. Steel, cut and bent, f. o. b. site of work.
 (1) 110,000 lbs. 1½-in. square deformed
 (2) 52,000 lbs. 1 -in. round deformed
 (3) 17,200 lbs. ¾-in. round deformed
 (4) 3,500 lbs. ½-in. round deformed
 (5) 2,350 lbs. ½-in. square deformed
 (6) 20,000 lbs. ½-in. round deformed
 (7) 7,400 lbs. ¾-in. round deformed
 (8) 100 lbs. ¼-in. round deformed
 (9) 19,900 lbs. No. 5 gauge steel wire.

PROPOSAL NO. 3
 Miscellaneous lumber f.o.b. site of work.

- (1) Treated Douglas Fir lumber:
 - (a) 1:15 M.B.M. 4-in.x10-in. rough spec. 218, in 20-ft., 22-ft., 24-ft., 28-ft., 30-ft., and 32-ft. lengths;
 - (b) 2 M.B.M., 4-in.x8-in., S1E, in 14-ft. and 16-ft. lengths;
 - (c) 170 M.B.M., 8-in.x26-in. rough, furnished in 31-ft. lengths;
 - (d) 31 M.B.M., 4-in.x26-in., rough in stock lengths;
 - (e) 1 M.B.M., 4-in.x6-in. rough, in stock lengths;
 - (f) 0.5 M.B.M. 6-in.x6-in. S1E, furnished in 18-ft. lengths;
 - (g) 85 M.B.M., 4-in. planks, rough, furnished in 8-in., 10-in., and 12-in. widths, stock lengths;
 - (h) 10.9 M.B.M. 3-in.x12-in., S-S, furnished in 16-ft., 18-ft., 20-ft., 22-ft., 24-ft. and 26-ft. lengths;
 - (i) 14.4 M.B.M. 2-in.x12-in., rough, furnished in 16-ft., 18-ft., 20-ft., 22-ft., 24-ft., and 26-ft. lengths;
 - (j) 1.6 M.B.M., 2-in.x8-in., S1S1E, furnished in 14-ft. and 16-ft. lengths;
- (2) 18 pre-moulded asph. contraction joint filler;
- (3) 75 gals. liquid asphalt;
- (4) squares 15-lb. tarred felt.

PROPOSAL NO. 4

- (1a) 6 kegs 60-d. wire nails;
- (1b) 2 kegs 40-d. wire nails;
- (1c) 2 kegs 20-d. wire nails;
- (2) 25,000 spikes, ¾-in.x8-in. bolt spikes, wrought iron;
- (3) 295 lag screws, galv., ½-in.x6-in.;
- (4) galv. machine bolts with square nuts:
 - (a) 96 bolts, ¾-in.x36-in., per C bolts;
 - (b) 285 bolts, ¾-in.x7-in.;
 - (c) 610 bolts, ½-in.x18-in.;
 - (d) 305 bolts, ½-in.x 8-in.;
 - (e) 32 bolts, ¼-in.x 6-in.;
- (5) galv. cut washers:
 - (a) 40 lbs. washers for ½-in. bolts
 - (b) 100 lbs. washers for ¾-in. bolts
 - (c) 35 lbs. washers for ¾-in. bolts
 - (d) 1 lbs. washers for ¼-in. bolts

4.1-MI. GRADE & ASPH. CONC. PAVE—L. A. COUNTY

LOS ANGELES COUNTY, Calif.—S. H. Palmer, 503 Market Street, San Francisco, and J. P. Holland, Inc., 1834 McKinnon Ave., San Francisco, bidding jointly, at \$402,667.70 submitted low bid January 4 to the State Highway Commission, Sacramento, to grade and pave with asphalt concrete 4.1 miles between Las Flores Canyon and Santa Ynez Canyon, involving:

- (1) 218 sta. clear and grub right-of-way;
- (2) 800,000 cu. yds. rdwy. excav. unclass.;
- (3) 900,000 ml. yds. overhaul;
- (4) 21,000 M. gals. water (embank.);
- (5) 6000 cu. yds. struc. excav.;
- (6) 68,200 sq. yds. subg. for pave.;
- (7) 30,000 sq. yds. asph. paint hinder.;
- (8) 32,100 tons asph. conc. (base and leveling course);
- (9) 12,700 tons asph. conc. (Type "A" surf. course);
- (10) 250 cu. yds. Class "A" cem. conc. (struc.);
- (11) 18,000 lbs. bar reinf. steel (struc.);
- (12) 2200 lbs. misc. iron and steel (struc.);
- (13) 830 lin. ft. 18-in. reinf. conc. pipe;
- (14) 1220 lin. ft. 24-in. do;

- (15) 40 lin. ft. 30-in. do;
 - (16) 320 lin. ft. 36-in. do;
 - (17) 30 lin. ft. 48-in. do;
 - (18) 18 M ft b m struc timber (retaining walls);
 - (19) 1300 lin ft. timber piles (retaining walls);
 - (20) 1250 cu. yds. conc. remove from exist. pave and dispose of;
 - (21) 1 exist. bridge removed;
 - (22) 4800 hbbs. fuel oil (shoulders and gutters);
 - (23) 821 lin. ft. solid timber guard rail;
 - (24) 84 culvert markers;
 - (25) 218 sta. finish roadway;
 - (26) 110 monumentts complete in place
- Complete bids follow:
- (A) S. H. Palmer and J. P. Holland, San Francisco, \$402,667.70.
 - (B) Von der Hellen & Pierson, Casti-lac, \$414,703.20.
 - (C) J. E. Haddock and C. O. Sparks, Pasadena, \$444,555.90.
 - (D) Griffith Co., Los Angeles, \$448,239.10.
 - (E) Hall Johnson Co. and M. S. Ross, Alhambra, \$484,361.70.
 - (F) Merritt - Chapman & Scott, San Pedro, \$490,012.50.

	(A)	(B)	(C)	(D)	(E)	(F)
(1)	\$ 1.00	\$ 5.00	\$ 4.00	\$ 3.00	\$ 5.00	\$ 10.00
(2)	.25	.232	.277	.272	.34	.345
(3)	.06	.07	.06	.07	.05	.08
(4)	.20	.50	.15	.22	.40	.20
(5)	.55	.75	.70	.60	.75	.75
(6)	.06	.07	.075	.07	.07	.065
(7)	.01	.01	.02	.02	.02	.015
(8)	2.50	2.62	2.73	2.80	2.60	2.16
(9)	2.50	2.70	2.93	2.95	2.75	2.16
(10)	14.00	14.00	15.00	18.00	15.00	20.00
(11)	.04	.04	.04	.03	.04	.05
(12)	.08	.09	.09	.06	.09	.10
(13)	1.75	2.00	1.65	1.60	1.86	1.80
(14)	2.25	2.50	2.20	2.00	2.43	2.25
(15)	3.25	3.50	3.15	3.10	3.55	3.40
(16)	4.10	4.50	4.20	4.00	4.65	4.25
(17)	6.00	6.00	6.10	6.00	6.75	6.10
(18)	25.00	75.00	60.00	25.00	75.00	35.00
(19)	.40	.30	1.20	1.25	1.00	1.00
(20)	1.00	1.00	2.00	1.00	1.00	2.00
(21)	3000.00	500.00	3500.00	2500.00	2500.00	2000.00
(22)	1.50	1.80	1.70	1.60	1.75	1.80
(23)	.70	.80	.90	.90	1.20	.70
(24)	1.60	2.00	3.00	2.00	4.00	3.00
(25)	2.00	4.00	2.20	1.75	2.00	2.00
(26)	2.50	3.00	2.00	1.75	2.50	2.50

GRADING—WASHINGTON STATE

CHELAN COUNTY, Wash.—Haller-an Bros., Seattle, at \$14,805 submitted low bid to State Highway Commission, Olympia, to grade one mile State Road No. 10, Revision 3 miles north of Entiat, involving:

- (1) clearing and grubbing;
- (2) 29,380 cu. yds. excav., including 600 ft. haul;
- (3) 20 cu. yds. struc. excav., includ. 600 ft. haul;
- (4) 19,520 cu. yds. sta. overhaul;
- (5) 3240 cu. yd. mi overhaul;
- (6) 1050 cu. yds. crushed stone surf. special top course in place;
- (7) 2320 cu. yds. crushed stone surf. base course in place on rdwy.;
- (8) 1530 cu. yds. crushed stone surf. special top course, stockpile;

- (9) 730 cu. yds. filler in place, includ-ing haul;
- (10) remove existing timber on r.r. bridge;
- (11) 21 lin. ft. plain or V. C. pipe, 12-inch;
- (12) 66 lin. ft. 18-in. stand. reinforced concrete pipe.

- Complete bids follow:
- (A) Halleran Bros., Seattle, \$14,805
 - (B) Goodfellow Bros., Wenat-chee 16,182
 - (C) Standard Asph. Paving Co. Spokane 21,390
 - (Siems - Spokane Co., Spo-kane 22,361
 - (E) Morrison - Knudsen, Spo-kane 25,759

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)
(1)	\$2300.00	\$1250.00	\$100.00	\$ 50.00	\$100.00
(2)	.20	.31	.46	.50	.60
(3)	1.00	2.00	1.00	1.50	1.50
(4)	.01	.01	.015	.02	.02
(5)	.10	.15	.16	.18	.15
(6)	1.15	.95	1.25	1.25	1.35
(7)	1.15	.90	1.25	1.20	1.35
(8)	1.15	.90	1.25	1.15	1.35
(9)	.40	.40	.75	.50	.30
(10)	10.00	200.00	100.00	200.00	100.00
(11)	1.00	.80	1.10	1.50	1.25
(12)	2.00	2.00	2.25	2.50	2.50

- (6) 170 lbs. galv. malleable washers for 3/4-in. bolts;
- (7) 16 anchors galv. wrought iron joist anchors;
- (8) 8 cover plates galv. grought iron cover plates;
- (9) (a) 8 pieces galv. electric conduit, 1 1/2-in. diam., 1 ft. 8-in. long, T. B. E.;
- (b) 8 pieces 1 1/2-in. 3-ft. 6-in. long T. B. E.;
- (c) 8 conduit caps for 1 1/2-in. conduits;
- (10) 8 pieces 3/4-in. diam., 3-ft. 6-in. long, T. B. E., galv. iron pipe.

PROPOSAL NO. 5
Miscellaneous copper work f.o.b. site of work.
(1) 24 plates copper bearing plates for rail beams;
(2) 12 plaaes copper bearing plates for gutter beams;
(3) 12 plates cpper bearing plates for gutter beams;
(same as (2) except oppsite hand)
(4) 26 copper scuppers for gutter beams
E. C. Eaton, County Flood Control Engineer.

The bids were:
Consolidated Lumber Co.—Proposal No. 3: (a) \$39.75, (b) \$39.75, (c) \$46. (d) \$14.50, (e) \$39.75, (f) \$39.75, (g) \$29.75, (h) \$39.75, (i) \$39.75, (j) \$39.75, (2) 35.4c average price per piece; (3) 35.2c gal.; (4) 44.5c per square; total, \$12,635.77 net.

J. H. Baxter & Co.—Proposal No. 3. (a) \$42.25, (b) \$42.25, (c) \$48.50, (d) \$46.75, (e) \$42.25, (f) \$42.25, (g) \$42.25, (h) \$42.25, (i) \$42.25, (j) \$42.25; (2) (3) and (4) no bid; total, 13,322.63 net.

Chas. R. McCormick Lumber Co.— Proposal No. 3: (1) (a) \$40.50, (b) \$40.50, (c) \$46.50, (d) \$45, (e) \$49.50, (f) \$40.50, (g) \$40.50, (h) \$46.50, (i) \$40.50, (j) \$40.50; (2), (3) and (4) no bid; total, \$12,772.88 net.

California Hardware Co.—Proposal No. 4: (1) (a) \$2.75, (b) \$2.75, (c) \$2.75 (2) \$1.66 per C; (3) \$3.90 per C; (4) (a) \$35.15, (b) \$19.50, (c) \$15.81; (d) \$7.97, (e) \$2.53; (5) (a) 7c, (b) 6.85c, (c) 6.75c, (d) 11c; (6) 8.65c; (7) 50c; (8) \$1, (9) (a) 90c, (b) \$1.10; (10) 44c; total, \$728.21; net total, \$713.72.

Scale Steel Co.—Proposal No. 2: a) 2.19c, (b) 2.19c, (c) 2.19c, (d) 2.29c, (e) 2.39c, (f) 2.39c, (g) 2.59c, (h) 3.19c, (i) 3.15c; total, \$5399.50; net total, \$5351.06

L. A. Iron & Steel Co.—Proposal No. 2: (a) 2.15c, (b) 2.2725c, (c) \$2.235c, (d) 2.405c, (e) 2.35c, (f) 2.60c, (g) 2.695c, (h) 3.15c, (i) 4.93c; total, \$5799.79 net total, \$5772.79.

Concrete Ergrg. Co.—Proposal No. 2: (a) 2.575c, (b) 2.575c, (c) 2.575c, (d) 2.675c, (e) 2.775c, (f) 2.775c, (g) 2.975c, (h) 4.075c, (i) 3.15c; total, \$6204.47; net total, \$6173.45.

Blue Diamond Corp., Ltd.—Proposal No. 2: (a) 2.56c, (b) 2.56c, (c) 2.56c, (d) 2.66c, (e) 2.76c, (f) 2.76c, (g) 2.96c, (h) 3.56c, (i) 3.15c; total, \$6171.73 net total, \$6140.92.

Truscon Steel Co.—Proposal No. 2: (a) 2.28c, (b) 2.049c, (c) 2.213c, (d) 2.131c, (e) 2.12c, (f) 2.267c, (g) 2.385c, (h) 4c, (i) 3.43c; total, \$5407.74; net total \$5350.70.

Ducommun Corp.— Proposal No 4: (1) (a) \$2.75 per keg, (b) \$2.75, (c) \$3.75; (2) \$3.30 cwt.; (c) \$14.60; (4) (a) \$35.15 per C bolts, (b) \$19.59, (c) \$15.81, (d) \$7.97, (e) \$2.53; (5) (a) \$9.75 cwt., (b) \$8, (c) \$9.25, (d) \$14; (6) 12.50 cwt.; (7), (8), (9) no bids; (10) \$3.52 per piece; total, \$441.78; net total, \$329.91.

Main Cornice Works—Proposal No. 5: (1) \$4, (2) \$4.50, (3) \$4.50, (4) \$3; total, \$282 net.

6.1-MI GRADE AND SURF. — INYO COUNTY

INYO COUNTY, Cal.—Hemstreet & Bell, 501 11th St., Marysville, at \$81,672.90 submitted low bid January 11 to State Highway Commission, Sacramento, to grade and surface with bituminous treated selected surfacing material 6.1 mi. between Keough Hot Springs and Bishop, involving:

- (1) 89,700 cu. yds. roadway excav., unclass.;
- (2) 310,000 sta. yds. overhaul;
- (3) 19,150 cu. yds. imp. borrow;
- (4) 2660 cu. yds. ditch excav.;
- (5) 3550 cu. yds. struc. excav.;
- (6) 15,000 cu. yds. sel. surfacing material;
- (7) 6.1 mi. mix bituminous binder and surfacing material;
- (8) 110 cu. yds. class A cem. conc. (struc.);
- (9) 5690 lbs. bar reinf. steel (struc.)
- (10) 20 lin. ft. 12-in. corr. metal pipe
- (11) 2316 lin. ft. 18-in. do;
- (12) 1155 lin. ft. 24-in. do;
- (13) 54 lin. ft. 30-in. do;
- (14) 132 lin. ft. 36-in. do;

	(A)	(B)	(C)	(D)	(E)
(1)	\$.26	\$.32	\$.33	\$.55	\$.42
(2)	.01	.01	.01	.005	.01
(3)	.35	.32	.35	.35	.45
(4)	.30	.80	1.50	.60	1.00
(5)	1.25	1.00	1.50	.80	1.50
(6)	.58	.45	.35	.48	.50
(7)	550.00	450.00	500.00	600.00	500.00
(8)	22.00	26.00	25.00	25.00	30.00
(9)	.06	.06	.06	.06	.06
(10)	.25	.35	.45	.40	.50
(11)	.25	.40	.50	.40	.50
(12)	.30	.60	.70	.60	.50
(13)	.40	.70	1.00	.75	1.00
(14)	.50	1.00	1.25	1.25	1.00
(15)	1.25	1.40	1.50	1.00	1.50
(16)	2.50	2.50	3.10	2.50	2.50
(17)	18.50	19.00	20.55	20.00	21.50
(18)	1.25	1.10	.75	1.50	1.25
(19)	350.00	410.00	405.00	400.00	400.00
(20)	150.00	240.00	275.00	250.00	250.00
(21)	250.00	225.00	225.00	200.00	200.00
(22)	5.00	5.00	4.50	3.00	5.00
(23)	3.00	2.75	3.00	3.00	3.00
(24)	250.00	300.00	400.00	250.00	400.00

- (15) 4200 M. gals. water (embankment);
- (16) 1100 bbls. light fuel oil;
- (17) 815 tons cut-back asph. road oil;
- (18) 600 cu. yds. salvage surfacing;
- (19) 8.7 mi. new property fence;
- (20) 1.2 mi. exist. fence to be removed and reset;
- (21) 2 cattle guards;
- (22) 325 sta. finish roadway;
- (23) 56 monuments complete in place;
- (24) 1 sign to be removed and reset; State will furnish corr. metal pipe. Complete bids follow:
- (A) Hemstreet and Bell, Marysville, \$81,672.90.
- (B) Morrison & Knudsen, Bolse, \$86,728.40.
- (C) Southwest Paving Co., Los Angeles, \$92,984.95.
- (D) Kennedy Const. Co., Oakland, \$102,943.60.
- (E) F. W. Nighbert, Bakersfield, \$103,852.00.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)
(1)	\$.26	\$.32	\$.33	\$.55	\$.42
(2)	.01	.01	.01	.005	.01
(3)	.35	.32	.35	.35	.45
(4)	.30	.80	1.50	.60	1.00
(5)	1.25	1.00	1.50	.80	1.50
(6)	.58	.45	.35	.48	.50
(7)	550.00	450.00	500.00	600.00	500.00
(8)	22.00	26.00	25.00	25.00	30.00
(9)	.06	.06	.06	.06	.06
(10)	.25	.35	.45	.40	.50
(11)	.25	.40	.50	.40	.50
(12)	.30	.60	.70	.60	.50
(13)	.40	.70	1.00	.75	1.00
(14)	.50	1.00	1.25	1.25	1.00
(15)	1.25	1.40	1.50	1.00	1.50
(16)	2.50	2.50	3.10	2.50	2.50
(17)	18.50	19.00	20.55	20.00	21.50
(18)	1.25	1.10	.75	1.50	1.25
(19)	350.00	410.00	405.00	400.00	400.00
(20)	150.00	240.00	275.00	250.00	250.00
(21)	250.00	225.00	225.00	200.00	200.00
(22)	5.00	5.00	4.50	3.00	5.00
(23)	3.00	2.75	3.00	3.00	3.00
(24)	250.00	300.00	400.00	250.00	400.00

WATER WORKS

MADERA COUNTY, Cal.—Western Pipe & Steel Co., 444 Market Street, San Francisco, at \$1513.24 awarded contract by U. S. Bureau of Public Roads, San Francisco, to furnish corrugated metal pipe and fittings as follows:

- (1) 288 lin. ft. 24-in. 14-gauge corrugated metal pipe;
- (2) 1360 lin. ft. 18-in. 16-gauge do;
- (3) 96 lin. ft. 15-in. 16-gauge do;
- (4) 206 lin. ft. 12-in 16-gauge do;
- (5) 24-in coupling bands;
- (6) 18-in. do;
- (7) 15-in. do;
- (8) 12-in. do;

Complete bids follow:

- (A) Western Pipe & Steel Co. \$1513.24
- (B) Golden State Culv. Co. 1520.45
- (C) California Corru. Culv. Co. 1595.53

Unit bids follow:

	(A)	(B)	(C)
(1)	\$1.11	\$1.10	\$1.165
(2)	.71	.705	.75
(3)	.60	.60	.63
(4)	.48	.50	.51
(5)	1.06	1.25	1.05
(6)	.72	.85	.74
(7)	.63	.70	.66
(8)	.49	.60	.54

ARIZONA STATE—Parkard & Tanner, 905 West Latham St., Phoenix, Arizona, awarded contract by State Highway Commission, Phoenix, Dec. 28, at \$54,990.36, for highway construction on the Benson-Vail Highway, E-18-C (A. F. E. No. 8055). The work, which begins at a point about 5 3/4 miles west of Pima-Cochise County Line and extends easterly to the county line, consists of grading, draining and placing of subgrade stabilizer, and is to be completed on or before May 31, 1933. The principal items are:

ROADWAY

- (1) 33,227 cu. yds. roadway excav. (unclass.);
- (2) 5526 cu. yds. drainage excav. (unclass.);
- (3) 800 cu. yds. slides and overbreakage;
- (4) 12,900 lin. ft. Vee ("V") ditches;
- (5) 447 cu. yds. structural excav. (unclass.);
- (6) 20,361 cu yds. borrow excav. (unclass.);
- (7) 4736 sta. yds. earthwork overhaul;
- (8) 10,227 cu. yds. subgrade stabilizer
- (9) 44,185 cy. mi. subgrade stabilizer haul;
- (10) 121 cu. yds. class A coner. (incl. cement);
- (11) 91 cu. yds. class B coner. (incl. cement);
- (12) 9072 lbs. reinf. steel;
- (13) 380 lin. ft. 24-in. C.M.P.;
- (14) 410 lin ft. 30-in. CMP;
- (15) 576 lin ft. 36-in. C.M.P.;
- (16) 59 cu. yds. plain rip rap;
- (17) 10,930 lin. ft. cable road guard;
- (18) 60,500 lin. ft. standard link fence;
- (19) 200 lin. ft. rail bank prot. type A

STRUCTURES OVER 20 FT. CLEAR SPAN

- (21) 22 cu. yds. subgrade stabilizer;
- (22) 146 cy. mi. subgrade stabilizer, haul;
- (23) 285 cu. yds. drainage excav. (unclass.);
- (24) 493 cu. yds. structural excav. (unclass.);
- (25) 6 cu. yds. class AA coner. (incl. cement);
- (26) 381 cu. yds. class A coner. (incl. cement);
- (27) 33 cu. yds. class B coner. (incl. cement);
- (28) 37,990 lbs. reinf. steel;
- (29) 32,340 lbs. structural steel;

COLO. RIVER AQUEDUCT RDS.—MET. WATER DIST.

LOS ANGELES, Cal.—Morrison Knudson Co., 1121 Title Guaranty Bldg., Los Angeles, submitted low bid on combined schedules Nos. 1 and 2, to the Metropolitan Water District, January 12, at \$132,384.75, for constructing approximately 36 miles of roads for the Colorado River aqueduct. The roads are located north of the Coachella Valley, extending from a point north of Palm Springs to a point northeast of Indio in Riverside County, Calif., and the work to be contracted for consists of all necessary excavation and grading, and the placing of surfacing materials, culvert pipes, riprap and protection work as shown on the drawings. All materials and labor are to be furnished by the contractor with exception of road oil, which will be furnished by the District, and all bids are to be compared on the basis of the engineer's estimate of the quantities of the various classes of work and materials, as contained in the schedules.

The work has been divided into two schedules. Schedule 1 requires the construction of the Coachella Valley road from Station 190 to 500 and from Station 0 plus 00 to 426, and the Berdoo Canyon road from Station 65 plus 50 to Station 323 plus 40, a total distance of approx. 19 miles. Schedule 2 requires the construction of the Coachella Valley road from Station 426 to 1330 plus 85, or approx. 17 miles.

The total bids were:

(A) Morrison Knudson Co., schedules (1) \$80,089.75; (2) \$52,295; total of combined schedules, \$132,384.75. Deduct \$1000 if awarded both schedules.

(B) J. E. Haddock, Ltd., schedules (1) \$92,157 (2) \$64,076.75; total of combined schedules; \$156,452.15. Deduct \$10,500 if awarded both schedules.

(C) Ray Schweitzer, schedules (1) \$100,066.50 (2) \$73,752.70; total of combined schedules, \$173,819.20. No deduction for combined award.

(D) Dimmitt & Taylor and Sander Pearson, schedules (1) \$103,899.50 (2) \$74,553; total for combined schedules, \$178,452.50. Deduct \$2500 for combined award.

(E) Peter L. Ferry, schedules (1) \$103,345; (2) \$85,212; total to combined schedules, \$188,557. No deduction for combined award.

(F) Altadena Const. Co., schedule (2) only, \$67,554.80.

(G) A. Mitchell, schedule (2) only, \$69,395.55.

(H) Martin Brothers Trucking Co., schedule (1) only, \$117,313.75.

A complete list of the items follows:

SCHEDULE NO. 1

Construction of the Coachella Valley road from Sta. 190 to Sta. 500, and from Sta. 00 to 190, and the Berdoo Canyon road, of the Colorado River Aqueduct:

- (1) 108,400 cu. yds. rdwy. borrow and channel change excav.;

- (2) 35,000 sta. yds. excav. overhaul;
- (3) 2100 cu. yds. struc. excav.;
- (4) 590 cu. yds. concrete;
- (5) 15,000 lbs. reinf. steel;
- (6) 290 ft. 30-in. dia. corr. pipe culvert (furnish and place);
- (7) 650 ft. 36-in. do;
- (8) 220 ft. 42-in. do;
- (9) 20 cu. yds. hand-placed riprap;
- (10) 700 cu. yds. dumped riprap;
- (11) 250 M. gals. water embank.;
- (12) 875 M. gals. water subgrade;
- (13) 7700 cu. yds. furnish selected material for subgrade and oil treat.;
- (14) 4700 cu. yds. furnish crushed rk.;
- (15) 27,000 cu. yd. miles haul selected material and crushed rock;
- (16) 470,000 gals. road oil, haul and spread (oil furnished by dist.);
- (17) 221,000 sq. yds. prepare surface, mix, spread and finish oil-treated surface;
- (18) 221,000 sq. yds. seal coat;
- (19) 580 cu. yds. stockpile oil-treated material.

SCHEDULE NO. 2

Construction of the Coachella Valley road, from Sta. 426 to Sta. 1330 plus 38, of the Colorado River aqueduct;

- (1) 79,000 cu. yds. rdwy. borrow and channel change excav.;
- (2) 25,600 sta. yds. excav. overhaul;
- (3) 1500 cu. yds. struc. excavation;
- (4) 385 cu. yds. concrete;
- (5) 10,000 lbs. reinf. steel;
- (6) 90 ft. 30-in. dia. corr. pipe culvert (furnish and place);
- (7) 165 ft. 36-in. do;
- (8) 110 ft. 42-in. do;
- (9) 20 cu. yds. hand-placed riprap;
- (10) 420 cu. yds. dumped riprap;
- (11) 220 M. gals. water embankment;
- (12) 800 M. gals. water subgrade;
- (13) 4200 cu. yds. furnish selected material for subgrade and oil treat.;
- (14) 5300 cu. yds. furnish crush. rock;
- (15) 21,000 cu. yd. miles haul selected material and crushed rock;
- (16) 426,000 gals. road oil, haul and spread (oil furnished by dist.);
- (17) 200,000 sq. yds. prepare surface, mix, spread and finish oil-treated surface;
- (18) 200,000 sq. yds. seal coat;
- (19) 520 cu. yds. stockpile oil-treated material.

The unit bids follow:

SCHEDULE NO. 1

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
(1)	.29	.34	.30	.365	.30			.57
(2)	.025	.02	.02	.02	.02			.03
(3)	1.10	1.00	.70	.60	1.00			1.00
(4)	11.00	15.00	17.00	10.00	10.00			13.00
(5)	.06	.05	.05	.05	.10			.04
(6)	2.25	2.30	2.38	2.00	3.00			2.60
(7)	3.40	3.55	3.80	3.00	4.00			3.80
(8)	4.50	4.95	5.35	4.20	5.00			5.40
(9)	2.50	5.00	5.00	2.50	4.00			4.50
(10)	1.00	1.00	4.00	1.50	3.00			2.00
(11)	4.50	3.50	3.00	2.50	5.00			4.75
(12)	2.75	3.50	3.00	2.50	5.00			4.75
(13)	.55	1.13	1.25	.75	2.00			.75
(14)	1.00	1.13	2.00	.75	3.00			1.25
(15)	.11	.10	.10	.12	.10			.17
(16)	.01	.01	.01	.0125	.01			.01
(17)	.043	.045	.0623	.10	.05			.04
(18)	.015	.009	.006	.02	.01			.01
(19)	.90	1.30	4.25	5.00	5.00			1.50

SCHEDULE NO. 2

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
(1)	.19	.27	.25	.325	.35	.30	.30	
(2)	.025	.01	.03	.02	.02	.01	.02	
(3)	1.10	.90	1.00	.55	1.00	.82	.75	
(4)	11.00	15.00	17.00	10.70	10.00	18.00	15.00	
(5)	.06	.05	.05	.0475	.10	.04	.05	
(6)	2.25	2.40	2.38	1.90	3.00	2.45	2.60	
(7)	3.30	3.65	3.80	2.90	4.00	3.50	3.53	
(8)	4.50	5.15	5.35	4.00	5.00	3.75	4.61	
(9)	2.50	5.00	5.00	2.50	3.00	4.00	4.00	
(10)	1.00	1.00	4.00	1.50	2.00	.90	2.00	
(11)	3.50	3.00	2.50	2.25	5.00	5.91	3.00	
(12)	2.75	3.00	2.50	2.25	5.00	5.73	2.00	
(13)	.55	1.27	1.25	.70	2.00	.85	1.00	
(14)	1.00	1.27	2.00	.70	3.00	1.25	1.50	
(15)	.11	.10	.15	.12	.10	.035	.14	
(16)	.01	.01	.01	.012	.01	.0107	.015	
(17)	.043	.045	.0613	.09	.05	.03	.04	
(18)	.015	.009	.006	.02	.01	.027	.0125	
(19)	.90	1.30	4.25	5.00	3.00	1.15	2.50	

KNIGHTS LANDING BRIDGE—COMPLETE BID LISTING

WOODLAND, Yolo Co., Cal.—As previously reported, Rocca & Caletti, P. O. Box 43, San Rafael, at \$136,988.15 submitted low bid to Joint Highway District No. 12, Second and C Sts., Yuba City, to construct Knights Landing drawbridge across the Sacramento river. Bridge will be the double-leaf bascule type with a 200-ft opening. Each leaf to be 111 ft. long, 21 ft. roadway, 3½ ft. sidewalk on each side of bridge, involving:

- (1) 146,000 lbs. struc. silicon steel;
- (2) 365,000 lbs. struc. carbon steel;
- (3) 58,000 lbs. machinery;
- (4) motors and brakes;
- (5) gasoline engine units;
- (6) gates, signals, sump pumps;
- (1) Selsyn indicators;

- (8) electrical equipment;
- (9) excav.—foundations, 3950 cu. yds.
- (10) untreated timber piles, 12,500 lin. ft.;
- (11) creosoted timber piles, 5600 lin. ft.
- (12) driving piles, 446;
- (13) 4 furnish and drive test piles;
- (14) 14 MFBM creosoted timber fenders;
- (15) 1400 cu. yds. bases of bascule piers;
- (16) 1220 cu. yds. concrete-piers above bases;
- (17) 150 cu. yds. concrete in North approach;
- (18) 320 cu. yds. concrete in South approach;
- (19) 225,000 lbs. reinf. metal;
- (20) 330 cu. yds. concrete counter-

NON-FEDERAL AID

- (30) 125 cu. yds. roadway excav. (unclass.);
 - (31) 300 cu. yds. borrow excav. (unclass.);
 - (32) 400 lin. ft. Vee ("V") ditches;
 - (33) 6620 lin. ft. standard line fence.
- The total bids were:
- (A) Packard & Tanner, Phoenix, \$54,990.63.
 - (B) Skousen Bros., Mesa, Ariz., \$60,191.13.
 - (C) Orr & Rawls, El Paso, Texas, \$60,295.23.
 - (D) Hodgman & MacVicar, Pasadena, Cal., \$60,882.64.

The unit bids were:

	(A)	(B)	(C)	(D)
(1)	.22	.38	.42	.31
(2)	.17	.25	.25	.20
(3)	.165	.285	.315	.2325
(4)	.02	.03	.02	.01
(5)	1.00	.90	.90	.75
(6)	.18	.18	.22	.26
(7)	.02	.03	.04	.01
(8)	.36	.45	.35	.40
(9)	.10	.085	.10	.09
(10)	20.00	20.00	18.50	20.00
(11)	20.00	21.90	21.50	23.90
(12)	.04	.04	.0425	.04
(13)	2.00	1.70	1.75	2.50
(14)	2.50	2.20	2.25	3.50
(15)	4.00	3.50	3.15	5.00
(16)	3.00	3.00	3.00	2.00
(17)	.65	.65	.55	.60
(18)	.06	.05	.055	.06
(19)	2.25	3.50	3.00	3.50
(20)	1.69	2.50	1.50	2.50
(21)	.36	.45	.35	.40
(22)	.10	.085	.10	.09
(23)	.17	.25	.23	.20
(24)	1.00	.90	.90	.75
(25)	70.00	60.00	65.00	60.00
(26)	20.00	20.00	18.50	20.00
(27)	20.00	20.00	21.50	26.00
(28)	.04	.01	.0425	.04
(29)	.065	.05	.055	.05
(30)	.22	.38	.42	.31
(31)	.18	.18	.22	.26
(32)	.32	.33	.33	.34
(33)	.06	.05	.055	.06

ARIZONA STATE—R. H. Martin, 311 N. 3rd Ave., Tucson, Ariz., awarded contract by State Highway Commission, Phoenix, Dec. 28, at \$96,266.37, for highway construction on the Benson-Vail Highway E-18-B (A. F. E. No. 8054). The work, which begins at the north end of the Cienega Creek Bridge and extends easterly approximately six and one-third (6⅓) miles, consists of grading, draining and placing of Subgrade Stabilizer, and is to be completed in or before June 15, 1933.

The principal items are:

ROADWAY

- (1) 104,088 cu. yds. roadway excavation (unclass.);
- (2) 4906 cu. yds. drainage excavation (unclass.);
- (3) 4900 lin. ft. Vee ("V") ditches;
- (4) 560 cu. yds. structural excavation (unclass.);
- (5) 2099 cu. yds. slides and overbreakage;
- (6) 8575 cu. yds. borrow excavation (unclass.);
- (7) 72,790 sta. yds. earthwork overhaul;
- (8) 11,302 cu. yds. subgrade stabilizer
- (9) 27,140 cu. yd. mi. subgrade stabilizer haul;
- (10) 300 cu. yds. class A concrete (including cement);
- (11) 68 cu. yds. class B concrete (including cement);
- (12) 22,352 lbs. reinf. steel;
- (13) 312 lin. ft. 18-in. C.M.P.;
- (14) 818 lin. ft. 24-in. C.M.P.;
- (15) 33 lin. ft. 30-in. C.M.P.;
- (16) 593 lin. ft. 36-in. C.M.P.;
- (17) 26 lin. ft. reset 24-in. C.M.P.;
- (18) 550 lin. ft. rail bank protection, type P;

weights and balance blocks;
 (21) 29 MFLM timber on oasecule span
 (22) operators houses;
 (23) 620 cu. yds. (outh approach embankment);
 (24) 375 cu. yds. conc. pave. South approach;
 (27) cat basins and drain.
 Complete bids follow:
 (A) Rocca & Caletti, San Rafael, \$136,998.65.

(B) M. B. McGowan, S. F. \$159,569
 (C) Lord & Bishop, Sacramento, \$148-279.
 (D) Bodenhamer Constr. Co., Oakland, \$154,802.75.
 (E) Healy-Tibbitts, S. F., \$156,755.75.
 (F) Fredrickson & Watson, Oakland, \$157,425.50.
 (G) Ward Eng Co., S. F., \$164,573.
 (H) Engineer's Estimate, \$177,121.50.
 Unit bids follow:

(D) Orr & Rawls, El Paso, Texas, \$103,413.93.
 (E) Hodgman & MacVicar, Pasadena, \$107,606.39.

The unit bids were:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
(1)	.055	.053	.065	.067	.07	.057	.068	.065
(2)	.059	.057	.056	.06	.0575	.065	.07	.055
(3)	.17	.18	.24	.20	.235	.24	.22	.21
(4)	1150.00	2200.00	2000.00	2688.00	2700.00	2500.00	2180.00	2500.00
(5)	475.00	850.00	1800.00	2900.00	1450.00	1200.00	1280.00	3000.00
(6)	807.50	1550.00	1600.00	1620.00	1815.00	1750.00	1915.00	2000.00
(7)	200.00	350.00	400.00	393.25	500.00	450.00	460.00	500.00
(8)	4870.00	4468.00	4800.00	7800.00	6100.00	5590.00	5970.00	6000.00
(9)	1.64	1.70	1.50	2.00	1.00	1.66	1.80	2.00
(10)	.20	.20	.20	.20	.20	.25	.22	.25
(11)	.637	.70	.60	.55	.50	.50	.65	.50
(12)	3.00	8.00	15.00	8.00	10.00	10.00	11.00	10.00
(13)	76.50	60.00	100.00	50.00	50.00	35.00	50.00	150.00
(14)	80.00	110.00	64.00	100.00	73.60	80.00	94.00	100.00
(15)	13.75	9.00	11.00	17.75	12.00	10.00	10.30	20.00
(16)	13.75	16.00	15.00	14.00	15.00	14.00	17.60	18.00
(17)	12.75	15.00	15.00	16.00	20.00	18.00	23.66	18.00
(18)	12.75	15.00	15.00	16.50	20.00	16.00	23.06	18.00
(19)	.03	.035	.03	.0375	.03	.02	.029	.04
(20)	12.00	12.00	13.00	13.00	15.00	12.00	18.00	24.00
(21)	74.50	89.00	52.00	80.00	70.00	72.00	100.00	90.00
(22)	1270.00	4054.00	2000.00	2000.00	3000.00	2400.00	3200.00	3200.00
(23)	.30	.40	.25	.50	.25	.25	.60	.70
(24)	3.25	3.00	3.00	1.60	2.75	2.50	3.00	2.50
(25)	190.00	395.00	200.00	150.00	175.00	60.00	150.00	200.00

	(A)	(B)	(C)	(D)	(E)
(1)	.26	.26	.40	.45	.42
(2)	.25	.25	.21	.25	.20
(3)	.04	.05	.02	.03	.04
(4)	.30	.30	1.00	1.00	.75
(5)	.27	.27	.30	.3375	.315
(6)	.24	.25	.18	.17	.32
(7)	.015	.02	.02	.015	.03
(8)	.40	.45	.36	.35	.40
(9)	.10	.05	.70	.10	.10
(10)	18.00	19.00	19.00	18.50	20.00
(11)	18.00	21.00	14.00	21.50	23.00
(22)	.045	.04	.04	.0425	.04
(13)	1.50	1.20	1.50	1.26	2.00
(14)	1.95	1.70	2.00	1.75	2.50
(15)	2.50	2.20	2.50	2.25	3.50
(16)	3.05	3.50	4.00	3.15	5.00
(17)	1.06	1.06	1.00	1.00	2.00
(18)	2.25	2.50	1.60	1.60	2.50
(19)	5.00	3.00	3.00	2.50	2.00
(20)	.60	.69	.65	.55	.60
(21)	.06	.055	.06	.055	.06
(22)	.25	.25	.21	.25	.30
(23)	.80	.90	1.00	1.00	.75
(24)	.40	.45	.36	.35	.40
(25)	.10	.09	.10	.10	.10
(26)	75.00	60.00	70.00	65.00	60.00
(27)	18.00	19.00	10.00	18.50	20.00
(28)	18.00	19.00	19.00	21.50	20.00
(29)	.045	.04	.04	.0425	.04
(30)	2.00	15.00	8.00	15.00	5.00

In addition to the above total and unit figures, Moore Dry Dock Co., Virginia Albridge & Iron Co., and Minneapolis Steel & Machinery Co., submitted bids on Part No. 1 only, the manufacture and delivery of structural metal, machinery and electrical equipment; as noted in issue of December

31. Bids are being held under advisement, as a suit is pending by M. B. McGowan, whose bid was originally low, when a representative of Rocca & Caletti declared that, through an error in extension, their total was \$5000 higher as submitted. Hearing will be in Sacramento, January 16.

VENTURA COUNTY, Cal.—Southwest Paving Co., Inc., 712 Lankershim Bldg., Los Angeles, at \$13,636.20 submitted low bid to State Highway Commission, Sacramento, January 11, to apply 5.6 miles bituminous surface treatment between Santa Paula and Wells Road, involving:

- (1) 4300 tons screenings;
- (2) 320 tons emulsified asph. road oil.

Complete bids follow:

- (A) Southwest Paving Co., Los Angeles, \$13,636.20.
- (B) F. W. Teschke, Hollywood, \$13,890.00.
- (C) Griffith Co., Los Angeles, \$14,259.00.
- (D) Western Motor Transfer, Inc., Santa Barbara, \$14,560.00.
- (E) F. W. Nighbert, Bakersfield, \$14,785.00.
- (F) Heavey-Moore Co., Oakland, \$15,320.00.
- (G) Kovacevich & Price, Los Angeles, \$15,740.00.
- (H) C. W. Wood, Stockton, \$20,480.00.
- (I) Oilfields Trucking Co., Taft, \$21,066.30.

Unit bids follow:

	(1)	(2)
(A)	\$1.47	\$22.56
(B)	1.34	25.40
(C)	1.53	24.00
(D)	1.76	21.85
(E)	1.95	20.00
(F)	3.00	21.60
(G)	1.80	25.00
(H)	3.20	21.00
(I)	2.881	30,025

ELEC. DIS. SYSTEM—HAMILTON FIELD—SAN RAFAEL

SAN RAFAEL, Marin Co., Calif.—Globe Electric Works, 1899 Mission St., San Francisco, at \$6769 submitted low bid to Constructing Quartermaster, Hamilton Field, San Rafael, to construct extensions to the electrical distributing and street lighting system at Hamilton Field (Marin Meadows) Bombing Base, involving:

- (1) excavation, rock, per cu. yd.;
- (2) excavation, earth, per cu. yd.;
- (3) 2 duck lines, per lin. ft.;
- (4) trenching, 24-in. deep and back-filling, per lin. ft.;
- (5) 1 conductor No. 8, 5000 volts, armored cable, laid in place, per lin. ft.;
- (6) 3 conductors, No. 0, A.W.G., 600

- volts, armored cable, in place;
 - (7) 3 conductors, No. 6 do;
 - (8) 3 lighting standards, complete installed and connected;
 - (9) 8 branch secondary distributing blocks in ground;
 - (10) 6 branch do.
- Complete bids follow:
- (A) Globe Elec. Works, S. F. \$6,769
 - (B) Matson-Seabrooke, Oakland \$6,789
 - (C) Bennett & Taylor, L. A. \$6,848
 - (D) Butte Electrical Equip. Co., San Francisco \$7,050
 - (E) W. B. Baker, S. F. \$7,158
 - (F) Scott-Buttner, S. F. \$7,316
 - (G) G. M. Gest, S. F. \$7,595
 - (H) City Imp Co., Berkeley \$7,768

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
(1)	\$ 5.00	\$ 4.00	\$ 4.00	\$ 11.00	\$ 9.50	\$ 5.50	\$ 6.50	\$ 2.00
(2)	.75	1.75	.85	1.50	6.00	.80	2.50	1.00
(3)	1.00	.80	1.00	.75	.....	.....	.87	2.00
(4)	.15	.08	.15	.08	.12	.30	.11	.20
(5)	.15	.146	.12	.16	.19	.15	.135	.20
(6)	.55	.558	.55	.53	.58	.75	.49	.60
(7)	.30	.239	.25	.25	.28	.35	.23	.30
(8)	120.00	105.35	105.00	115.89	158.00	125.00	99.00	120.00
(9)	250.00	215.60	215.00	229.30	260.00	260.00	235.00	250.00
(10)	200.00	185.35	205.00	166.71	220.00	190.00	200.00	230.00

- (19) 69 cu. yds. plain riprap;
 - (20) 20,930 lin. ft. cable road guard;
 - (21) 66,400 lin. ft. standard line fence;
- STRUCTURES OVER 20-FT. CLEAR SPAN**
- (22) 1916 cu. yds. drainage excavation (unclass.);
 - (22) 727 cu. yds. structural excav. (unclass.);
 - (24) 46 cu. yds. subgrade stabilizer;
 - (25) 71 cu. yds. ml. subgrade stabilizer haul;
 - (26) 4 cu. yds. class AA concrete (including cement);

- (27) 646 cu. yds. class A concrete (including cement);
 - (28) 19 cu. yds. class B concrete (including cement);
 - (29) 63,760 lbs. reinf. steel;
 - (30) 12 cu. yds. removal of old coner.;
- T. S. O'Connell, State Highway Engineer.

The total bids were:
 (A) R. H. Martin, Tucson, \$96,266.27.
 (B) Skousen Bros., Mesa, \$97,673.47.
 (C) Packard & Tanner, Phoenix, \$101,693.82.

SAN FRANCISCO—Department of Public Works plans to improve Kirkham St., 37th to 38th Aves., and crossing 37th and Kirkham St., involving: 2,000 cu. yds. gracing;

- 310 ft. 12-in. V.C.P. sewer;
- 40 ft. 8-in. do;
- 6 12x6-in. Y branches;
- 1 brick manhole;
- 9 brick catchbasins;
- 105 ft. 10-in. V.C.P. culvert;
- 260 ft. 6-in. V.C.P. sidesewer;
- 575 ft. unarmored concrete curb;
- 660 sq. ft. 1-course conc. sidewalk;

16,893 sq. ft. asphalt conc. pavement. Estimated cost, \$220.

ENGINEERING NEWS

BRIDGES

DOUGLAS COUNTY, Wash.—Until Feb. 7, 10 A. M., bids will be received by Samuel J. Humes, State Highway Department, to construct two 40-ft. concrete girder bridges on State Road No. 10, bet. McLean's Orchard Tracts and Entiat Ferry, E. C. 11. Proj. No. E-145-G.

Specifications obtainable from above office on deposit of \$2, returnable. Proposal guarantee, 5%.

SAN BERNARDINO COUNTY, Cal.—Hartman Const. Co., P. O. Box 1632, Bakersfield, and G. A. Graham, 613 19th St., Bakersfield, bidding jointly, at \$94,955.30 awarded contract by the State Highway Commission to construct a bridge across Mojave river at Barstow, consisting of five 100-ft. deck plate girder spans and grading and surfacing approaches with oil treated crushed gravel or stone.

WOODLAND, Yolo Co., Cal.—Joint Highway District No. 12, 2nd and C Sts., Yuba City, served with writ of mandamus by M. B. McGowan, 74 New Montgomery St., San Francisco, to be heard in Judge Shields' Court, Sacramento, on January 16, in connection with proposed construction of Knights Landing drawbridge across the Sacramento river, bids for which were opened December 30.

M. B. McGowan apparently submitted low bid at \$139,569, bid of Rocca and Caletti, San Rafael, being second at \$139,988.15. The latter firm declared that due to an error their total figure was \$3000 high, and that according to the unit prices, bid should read \$136,988.15, which the District finds is true.

The Joint Highway District No. 12 will meet Monday, January 9, to appoint an attorney on the case, and all further action will be deferred until January 16.

ORANGE COUNTY, Calif.—R. R. Bishop, 5017 E Broadway, Long Beach at \$4050 awarded contract by State Highway Commission for reconstructing fenders to a bridge across the north arm of Newport Bay near Newport Beach, and removing old bridge near the site.

OREGON STATE.—Until Jan. 25, bids will be received by State Highway Department, Portland, for highway bridge and viaduct construction as follows:

(1) One-half viaduct and large sized culvert on Hug-Point-Arch Cape Section of Oregon Coast Highway, Clatsop County.

(2) Bridge over John Day river on Columbia River highway, about four miles east of Astoria, work to include grading, embank. approaches about 1-000 ft. long.

PIERCE COUNTY, Wash.—Until Feb. 2, 10 A. M., bids will be received by U. S. Bureau of Public Roads, 316 New Postoffice Bldg., Portland, Ore., to construct one log stringer bridge over North Puyallup river, together with approaches and parking area on the West Side Highway, Proj. E-2-C-2, Mt. Rainier National Park, involving: Clearing and grubbing; 8500 cu. yds. unclass. excavation; 3 60-ft. log spans; 6200 sq. ft. log crib face;

435 cu. yds. Class A concrete; 200 cu. yds. masonry facing; 40,000 lbs. reinf. steel; 85 cu. yds. masonry walls; 60 cu. yds. masonry guard rail; 170 lin. ft. corr. galv. metal pipe.

Specifications obtainable from above office on deposit of \$10, returnable, checks payable to the Federal Reserve Bank of Portland.

DREDGING, HARBOR WORKS & EXCAVATIONS

COLUSA, Cal.—Fredrickson & Watson Co., 873 81st St., Oakland, at \$1,360 submitted low bid to U. S. Engineer Office, Sacramento, to remove 8,500 cu. yds. of material from the Colusa weir by-pass, about 1½ miles northerly from Colusa on the easterly side of the Sacramento river. Complete bids follow:

Fredrickson & Watson, \$.16 per yd., total \$1360.

Lord & Bishop, Sacramento, \$.20 per cu. yd., total \$1700.

Engineer's estimate, \$.223, total \$1,893.

SAN DIEGO, Cal.—E. Penn Watson Jr., 3492 Noell St., San Diego, submitted low bid to U. S. Engineer, Los Angeles, January 3, at \$2287.50 or \$3.05 cu. yd. for repairing the dyke diverting the San Diego River from San Diego to False Bay. Circular No. 33-9, involving 750 cu. yds. rock. The other bids were:

Walter Treppe, San Diego, \$3.50 yd.; total, \$2625.

Griffith Co., Los Angeles, \$3.90 yd.; total, \$2925.

SAN DIEGO, Capt. Jos. W. Brennan, Port Director, has announced that bids will be asked in March for dredging and the improvement of the Roseville Yacht basin, estimated to cost \$40,000. That portion of the basin north of the San Diego Yacht Club Pier will be dredged to 20 ft. A breakwater extending from the line of Fort Rosecrans, will be constructed to provide a yacht shelter. The total cost of the project will be \$200,000.

NOME, Alaska.—As previously reported, until March 1, 3 P. M., under Bid No. 33-130, bids will be received by U. S. Engineer Office, Burke Bldg., Seattle, Wash., to dredge 5,100 cu. yds. of material from Nome Harbor at the mouth of Snake River, Nome, one the south shore of Seward Peninsula, 2500 miles from Seattle and 130 miles from St. Michael, Alaska. Specifications obtainable from U. S.

Engineer Office, Seattle, and on file in office of Daily Pacific Builder, and may be inspected by those interested.

KETCHIKAN, Alaska.—Until Feb. 15, bids will be received by the U. S. Engineer Office, 602 Burke Bldg., Seattle, Wash., to construct a concrete curb wall 853-ft. long on the existing rock fill breakwater at Ketchikan.

Specifications obtainable from above office.

COLUSA, Cal.—Haas, Doughty and Jones, Merchants Exchange Bldg., San Francisco, awarded contract by U. S. Engineer Office, Sacramento, to raise and strengthen existing levee along the westerly bank of the Sacramento river northerly of Colusa, involving: (a) Colusa to Zumwalt ranch, 21,200 ft.; (b) Zumwalt ranch to Wohlfrom ranch, 21,500 ft.

ELLENSBURG, Wash.—L. Coluccio, 1638 Lane St., Seattle, awarded contract by the U. S. Bureau of Reclamation, Ellensburg, Wash., at \$17,403 (Schedule No. 1) for earthwork and structures on North Branch Canal Lateral System, Eadger Creek Wasteway, Kittitas Division, Yakima Project, located near Kittitas and Thrall. The excavation for wasteway was awarded to Felix Arcorace, 8423 48th South, Seattle at \$4624.

DENVER, Colo.—Until Jan. 30, 2 P. M., under Specifications No. 584-D bids will be received by U. S. Bureau of Reclamation, Denver, to raise about 11 miles of the Colorado river levee, Palo Verde Irrigation District, near Elythe and Ripley, Calif., involving 210,000 cu. yds. excavation for levee. Specifications obtainable from above office. Proposal guarantee, 10%.

VANCOUVER, B. C.—Pacific Engineers, Ltd., 1044 Beach Ave., at \$193,315.19 awarded contract by Vancouver Harbor Commission to construct 300 ft. square addition to Lapointe Pier, involving eight timber cribs, 51x98x58.6 ft., faced with concrete on the water side and carrying on top a mass concrete gravity retaining wall 18 ft. high and 13.6 ft. thick at the base.

SACRAMENTO, Cal.—Harbor Tug & Barge Co., Pier 16, San Francisco, at \$.98 per ton, awarded contract by U. S. Engineer Office, Sacramento, to furnish, deliver and place 30,000 tons of rip-rap stone along the Sacramento river between the mouth of Cache slough and Collinsville.

MACHINERY AND EQUIPMENT

OAKLAND, Cal.—Until Jan. 13, 5:30 P. M. (previously reported Jan. 4), bids will be received by John H. Kimball, secretary, East Bay Municipal Utility District, 512 16th St., Oakland, to construct and furnish f. o. b. Valley Springs, Calaveras county, one slackline cableway excavator, capacity 26 cu. ft., complete with bucket and carrier blocks, track, tension and hoisting cable and hoisting engine. Specification No. 46, obtainable from above office.

CENTERVILLE, Alameda Co., Cal.—All bids to furnish bus bodies re-

CAPITAL CITY TITLE COMPANY

J. C. PALEN,
Manager

914 Seventh Street

Sacramento :: California

lected by trustees of Washington Union High School, due to change in specifications.

Bids to furnish chassis held under advisement until next meeting, Jan. 24, at which time award on chassis will probably be made, and new bids will be received to furnish two steel bus bodies, for 41- to 48-passenger school busses.

PUGET SOUND, Wash.—Harnischfeger Sales Corp., Milwaukee, Wis., at \$41,840 submitted low bid to the Bureau of Yards and Docks, Navy Department, Washington, D. C., to furnish one gasoline-driven 10-ton traveling gantry crane. Complete bids follow:

Harnischfeger Sales Corp., Milwaukee	\$41,840
Pacific Iron & Steel, Tacoma	42,000
Lakeside Bridge & Steel Co., Milwaukee	43,796
Orton Crane & Shovel Co., Chicago	44,022
Whiting Corp., Harvey, Ill.	49,810
American Hoist & Derrick Co., St. Paul	51,118
Link Belt Co., Chicago	51,600
Drave Contr. Co., Pittsburgh	52,500
Heyl & Patterson, Inc., Pittsburgh	53,000
R. W. Kaltenbach Corp., Bedford, Ohio	54,750
Star Iron & Steel Co., Tacoma	57,900
Industrial Brownhoist Corp. Bay City, Michigan	59,870
Alliance Machine Co., Alliance, Ohio	64,108

HAWTHORNE, Nev.—As previously reported, Stone Heating & Ventilating Co., Washington, D. C., submitted low bid to Bureau of Yards and Docks on January 4, at \$8210, for 100 kw. gasoline engine driven generating set, including switchboard, gasoline tanks, piping, wiring and accessories at the Naval Ammunition Depot, Hawthorne; Spec. No. 7050.

Other bids were:

Buffalo Gas Motor Co.	\$8470
A. D. Granger Co.	8479
H. O. Bauerle	8375
Letroi Company	9447
Eastern Iron & Metal Co.	10,240
T. L. Rosenberg Co.	10,275

STREET LIGHTING SYSTEMS

SAN FRANCISCO.—Until Jan. 25, 2:30 P. M., bids will be received by S. J. Hester, secretary, Department of Public Works, for ornamental street lights on Bay Shore Blvd., Army St. to county line. Estimated cost \$6,000 (dump sum).

RESERVOIRS AND DAMS

SAN DIEGO, Cal.—The Reconstruction Finance Corp. has agreed to purchase \$2,350,000 bonds of the City of San Diego, to provide funds for the completion of the El Capitan Dam, a unit of the city's water system, and for the construction of a pipe line between the dam and the city. The project includes the dam, 25 miles of pipe line, and a filter in San Diego. The loan will be used to complete the dam and to lay six miles of 48-in. pipe and two miles of 36-in. pipe. 30

PASADENA, Los Angeles Co., Cal.—Until 11 A. M., January 31, bids will be received by city board of directors to furnish 170,900 lbs. of removable galvanized steel trash rack and appurtenances for the Pine Canyon Dam. Samuel B. Morris, Chief Engineer.

LOS ANGELES, Cal.—E. C. Eaton, County Flood Control Engineer, 202 N Broadway, has completed specifications for steel vent pipe and fitting for San Gabriel Dam No. 2. The items follow:

PROPOSAL NO. 1

- Item (1):
- 2 16x14-in. reducers;
 - 5 16-in., 45-deg. elbows;
 - 3 14-in., 90-deg. elbows;
 - 1 16x14x14-in. reducing tee;
 - 1 12-in., 45-deg. elbow;
 - 1 14x14x12-in. reducing tee;
 - 3 16x12x14-in. reducing tees.

PROPOSAL NO. 2

- 1 piece, 16-in. dia., 2-ft. 6-in. stand. steel pipe, flanged 1 end;
- 1 piece, 16-in. dia., 6-ft. 6-in. do, flanged both ends;
- 1 piece, 16-in. dia., 13-ft. do, flanged one end;
- 1 piece, 16-in. dia. 9-ft. do; flanged one end;
- 3 pieces, 16-in. dia., 12-ft. do; flanged one end;
- 2 pieces, 14-in. dia., 3-ft. 8-in. do flanged both ends;
- 2 pieces, 16-in. dia. 3 ft. 1/2-in. do flanged both ends;
- 4 pieces, 12-in. dia., 2-ft. 6-in. do flanged one end;
- 2 pieces, 12-in. dia., 5-ft. 6-in. do flanged one end;

PROPOSAL NO. 3

- 72 3/8-in. machine bolts with hex. nuts, 3 1/2-in.;

LOS ANGELES, Cal.—Bids for furnishing miscellaneous materials for San Gabriel River Outlet Unit No. 5 were opened by County Supervisors January 3. Bids were taken as follows:

PROPOSAL NO. 1

- 60 bbls. cement in cloth sacks f.o.b. site of work. (For bids see item under "Portland Cement");

PROPOSAL NO. 2

- 1650 lbs steel rein. bars, cut and bent, f.o.b. site of work.

PROPOSAL NO. 3

- 415 rolls No. 20 gaugs, 2-in. mesh galvanized poultry netting in standard rolls of 150 ft., 60-in. in width;
- 190 rolls Type 1 diamond mesh woven wire fencing in standard rolls of 20 rods, 58-in. in width;
- 2500 lbs. galvanized iron tie wire, No. 14 gauge;
- 900 lbs. galvanized iron tie wire, No. 8 gauge.

E. C. Eaton, County Flood Control Engineer.

The bids were:

Harper & Reynolds—Proposal No. 3—(1) \$2.98, (2) \$21.28, (3) 4.05c; Alt. Proposal No. 3: (1a) \$3.45, Total of (1a), (2), (3), and (4) \$7499.60; net total of these items, \$7349.61; item No. 4, 3.5c; total, \$7304.55; net total, \$7158.46

Hanmond Lumber Co. — Proposal No. 2—(1) 4.75c; total, \$49.88. Net total, \$48.99; Proposal No. 3—(1) \$2.98, (2) \$31.28, (3) 4.05c, (4) 3.5c; total, \$7304.55; net total, \$7158.46.

Union Hardware & Metal Co.—Proposal No. 3—(1) \$2.90, (2) \$31.28, (3) 4.05c, (4) \$3.50 cwt., total, \$7271.35; net total, \$7125.92.

Fucomin Corp.—Proposal No. 3—(1) \$2.98, galvanized before weaving. Alt. \$3.34 hexagon mesh; (2) \$31.28, (3) \$4.05 cwt.; (4) 3.5c; total, \$7304.55; net total, \$7158.46.

Concrete Engineering Co. — Proposal No. 2—(1) 3.2c; total, \$33.60, net total, \$33.43. Proposal No. 3—(1) \$2.98, (2) \$31.58, (3) \$4.05, (4) 3.5c; total, \$7499.60, net total, \$7349.61. Alt. bid on Prop. No. 3—item (1) \$3.45, galvanized after weaving.

Soule Steel Co.—Proposal No. 2—(1)

3.75c; total \$39.38; net total, \$39.18. Proposal No. 3—(1) \$2.98, (2) \$31.28, (3) 4.05c, (4) 3.5c; total, \$7204.55; net total, \$7158.48.

Blue Diamond Corp., Ltd.—Proposal No. 2—3.25c, total, \$34.13; net total, \$33.96. Proposal No. 2—(1) \$2.98, (2) \$31.28, (3) 4.05c, (4) 3.5c; total, \$7304.55

Columbia Steel Co.—Proposal No. 3—(1) \$2.98. Alt. \$3.45, (2) \$31.28, (3) 4.05c, (4) 3.5c; total, \$7304.55, net total, \$7158.46.

Pacific Fence Constr. Co.—Proposal No. 3—(1) \$3.45, (2) \$31.28, (3) \$4.05 per cwt.; (4) \$3.50 cwt.; total, \$7304.55 net total, \$7158.46.

L. A. Iron & Steel Co.—Proposal No. 2: (1) 3.1c, total \$32.55, net total, \$32.29.

California Hardware Co.—Proposal No. 3: (1) \$2.98, (2) \$31.28, (3) 4.05c, (4) 3.5c; total, \$7304.55; net total, \$7158.46. Alt. bid item (1) \$3.45, galvanized after weaving; total with alternate, \$7499.60; net total, \$7349.61.

LOS ANGELES, Cal.—C. G. Willis & Sons, Inc., 2119 E 25th St., awarded contract by county supervisors Jan. 3 at \$47,490, for the construction of Unit No. 5 of the San Gabriel River Outlet at Alamitos Bay, involving:

- 160,000 cu. yds. excav., complete;
- 42,000 cu. yds. placing of fill in levees;
- 6200 lin. ft. construct wire revetment complete, as specified, inc. manufacture and placing of concrete block anchors.

E. C. Eaton, 202 N Broadway, county flood control engineer. The bids were opened Dec. 12.

PIPE LINES, WELLS, ETC.

ANHEIM, Orange Co., Cal.—V. W. Hannum, Water Superintendent, has announced that city council has authorized deepening of Well No. 2, located at the power plant on S Los Angeles St., to a depth of 12 ft. and adding a new column. Improvements will also be made at Pump No. 6.

LA MESA, San Diego Co., Cal.—Until 9 A. M., February 4, bids will be received by the directors of the La Mesa, Lemon Grove and Spring Valley Irrigation District, 4769 Spring St., La Mesa, for the furnishing and laying of a centrifugal concrete pipe, varying from 36-in. to 42-in., for the replacement of the district's flume or pipe-line, located at certain points between the Diverting Dam of the La Mesa Irrigation District on the San Diego River and Eucalyptus Reservoir near La Mesa. Plans and specifications may be obtained from the office of the General Manager, C. Harritt, 44769 Spring St., La Mesa, on payment of \$15 per copy, not returnable. F. R. Beatty is president, and Ruth C. Drew, secretary of the district. The proposed work is to be financed from the proceeds of the \$500,000 loan requested from the Reconstruction Finance Corp. The district, however, reserves the right to withhold award until final action by the Reconstruction Finance Corp. making funds available.

CUT BANK, Mont.—Construction of a 300-mile natural gas pipe line from the Cut Bank fields to supply Spokane and other cities in the State of Washington, has been announced by James L. Stone, vice-president and general manager of the Spokane Gas & Fuel Co. The project, which may be constructed in the near future, is estimated to cost \$12,500,000.

VENTURA, Cal.—Lyon Bros., 1363 Carmoua St., Los Angeles, awarded contract by City Council, January 9, at \$4945.95 for drilling a 20-in. water well on property located on Front St., between Figueroa and Walnut Sts.

SEWERS AND SEWAGE DISPOSAL PLANTS

EL CERRITO, Contra Costa Co., Cal.—Plans for the reconstruction of the storm sewer on Fairmont Avenue will be submitted to the East Bay Municipal Utility District by their engineer on January 13. The estimated cost of this project is \$23,000, approximately one-half of which is to be borne by the District. The plans were prepared by H. D. Chapman, city engineer. If the project is approved by the East Bay Municipal Utility District, a protest hearing will be held.

January 13, 1933

BID OPENING EXTENDED

PANAMA CANAL ZONE.—Until January 19, 10:30 A. M. (extended from January 12) under Schedule No. 2826, bids will be received by the Office of the General Purchasing Officer, Washington, D. C., to furnish pumping equipment for new dry dock at Cristobal, involving:

- 2 main vertical pumps with motors and controllers;
- 2 do (alt.);
- 1 vertical drainage pump;
- 1 bilge pump;
- 2 suction valves;
- 2 discharge valves;
- 2 high pressure pumps;
- 1 dry dock flushing pump;
- 2 caisson pumps.

LOS ANGELES, Cal.—Until 10 A. M. January 25, bids will be received by Board of Public Works, for the construction of three intercepting sewers and two local sewers in the Ventura Blvd. and Milbank St. Sewer District, under the 1911 Act. The interceptors are: First—Van Nuys Blvd. bet. Milbank Street and Ventura Blvd., Milbank St., bet. Woodman Ave. and Van Nuys Blvd., and Woodman Ave., between north outfall sewer and Milbank; Second: Ethel Ave., between Moorpark St. and Ventura Blvd.; Third: Laurel Grove Ave., between Valleyheart Dr. and Ventura Blvd., Valleyheart Dr. and Ventura Blvd. and Laurel Grove Ave., and Laurel Canyon Blvd., between Woodbridge St. and Valleyheart Drive north. The two local sewers are: Robler Pl., between its east terminum and Tyrone Ave., and Dunbar Plave between its east terminum and South Sherman Way. The total length of the sewer is 18,331.49 lin. ft. and the estimated cost is between \$49,000 and \$50,500. The average depth of structures exclusive of clearout manholes, is 14.5 ft. The resurfacing (quantities not figures) will include both decomposed granite and rock and oil.

WATERWORKS

OAKLAND, Cal.—Steel Tank & Pipe Co., 1100 4th St., Berkeley, at \$5652 (one bid) submitted low bid to East Bay Municipal Utility District, Oakland, to furnish 720 lin. ft. 1/2-in. thick, 36-in. dia., electric welded sheet steel pipe and fittings for San Pablo tunnel. Bids held under advisement.

OAKLAND, Cal.—Until January 27, 8 p. m., bids will be received by John H. Kimball, secretary, East Bay Municipal Utility District, 512 16th St., Oakland, to furnish 500 gate valves 4

to 8 in. Specifications LS-97 obtainable from above office.

OAKLAND, Cal.—Until January 27, 8 p. m., bids will be received by John H. Kimball, secretary, East Bay Municipal Utility District, 512 16th St., Oakland, to furnish 40,000 ft. cast iron pipe, 6-in. diameter. Specifications LS-98 obtainable from above office.

SAN FRANCISCO—Central Foundry Co., 100 Potrero Ave., at \$446 per ft. awarded contract by City Purchasing Department to furnish 50,000 ft. 6-in. cast iron universal pipe.

CAMARILLO, Ventura Co., Cal.—Until 2 P. M. Feb. 7, bids will be received by George B. McDougall, State Architect, Public Works Bldg., 11th and P Sts., Sacramento, to construct water storage system at the new state hospital at Camarillo, in accordance with plans which may be seen at above office. Copies obtainable on deposit of \$25. The proposed water storage system consists of one 226,500-gallon concrete tank, one 100,000-gal. concrete tank, one concrete pump house, pumps, piling, and electrical work. The contract will include all general electrical and mechanical work. Cash, bidder's bond, or certified check, 10%.

SAN FRANCISCO.—Until Jan. 20, 3 P. M., under Bid No. 958, bids will be received by T. A. Brooks, City Purchasing Agent, 270 City Hall, to furnish pipe and fittings for a term of three months. Specifications obtainable from above office.

SAN FRANCISCO—Bids will be asked about Feb. 1 to construct water supply system for the City and County Jail at the Sneath Ranch, San Mateo County. Estimated cost, \$25,000. Plans by the Bureau of Architecture.

PASADENA, Cal.—Contracts for furnishing gate outlet pipes and appurtenances for Pine Canyon Dam were awarded by City Board of Directors, Jan. 3, as follows:

Consolidated Steel Corp., Los Angeles—one 9x9 cast steel slide gate at \$5775; cast steel transition lining at \$3935; two 48-in. cast iron ball seat rings at \$60.

Joshua Hendy Iron Works, San Francisco—14 steel assemblies for the slide gate, at \$1936; 72 guide stems at \$352.80; 8 guide bearing supports at \$152.

The National Supply Co., Los Angeles—steel assembly for slide gate at \$839.13; 66 bronze anchor bolts and nuts at \$75.24; two 36-inch steel flap valves at \$436.12; 66 galvanized screen guides at \$1504.14; 242 steel anchor bolts at \$236.70.

Long Beach Iron Works—18 cast iron slide gates at \$8725.86.

Southwestern Welding & Mfg. Co., Alhambra—9 ft. welded steel pipe 135 ft. long at \$4029.25; 30-in. welded steel pipe 160 ft. long at \$959.35.

HEMET, Riverside Co., Calif.—An election will be held in March to vote on a \$121,000 bond issue for a municipal water system. Burns-McDonnell-Smith Engr. Corp., Western Pacific Bldg., Los Angeles, is consulting engineer. The water committee members are: Mayor J. C. Loomis, and Councilmen Robert G. Record and C. M. Thompson.

BOULDER CANYON, Nev.—Until January 27, 2 P. M., bids will be received by U. S. Bureau of Reclamation, Denver, Colo., to furnish eight welded plate-steel cylinder gates 32-

ft. in diameter and 10-ft. 1 5/16-in. high; also semi-steel entrance liners, welded plate-steel nose liners, and semi-steel and cast-steel throat liners; for installation in the intake towers at Hoover Dam, Boulder Canyon, Project, Arizona-California-Nevada.

Bids will be taken on each of two completed items, and will not be considered on only a part of either item. Materials to be installed by the Government. No charge for specifications to bona fide bidders; to others \$2.50, not returnable.

Specifications No. 541 on file in office of Daily Pacific Builder and may be inspected by those interested.

LA HABRA, Orange Co., Calif.—American Cast Iron Pipe Co., Los Angeles, submitted the low bid to city council December 27 for furnishing 600 ft. 4-in., 2700 ft. 6-in., 17,000 ft. 8-in., 340 ft. 10-in., and 4000 ft. 12-in. cast iron pipe.

Hercules Foundries, Inc., Los Angeles, submitted the low bid on fittings.

RIO VISTA, Solano Co., Cal.—Pacific Coast Engineering Co., foot of 14th St., Oakland, at \$6817.50 awarded contract by U. S. Engineer office, Sacramento, to furnish 270 lengths shore pipe in 16-ft. lengths.

VANCOUVER, B. C.—Dominion Bridge Co., Ltd., 275 W 1st Ave., at \$62,463 (British steel pipe) awarded contract by Great Vancouver Water District to furnish and fabricate 2350 lin. ft. of 60-in. electrically welded main, 9/16-in. thick; and 1630 lin. ft. 60-in. pipe, 3/4-in. thick.

Dawson, Wade & Co., Ltd., 500 Beatty St., at \$26,167 awarded contract to install the new main. Unit prices were: trench excavation and backfill, \$1.46; solid rock excavation, \$7.77; over excavation, \$4.46; gravel backfill, \$5.7.

LOS ANGELES, Cal.—George Rowland, 143 E 69th St., Los Angeles, at \$9,241 submitted low bid to Metropolitan Water District for Schedule 1, excavating and backfilling trench for sections 6 and 7 of the Construction Water Supply System.

Clark & Campbell, 1358 E Manchester Ave., Los Angeles, at \$12,233 was low for Schedule 8, hauling and laying gas line pipe, etc.

Schedule 3 was eliminated. Kemper Const. Co., 3701 S Overland Ave., Los Angeles, low at \$6,125 for Schedule 4, to construct two 300,000-gal. reservoirs.

LOS ANGELES, Cal.—Julian Hinds, member of the engineering staff of the Metropolitan Water District of Southern California, has been appointed assistant chief engineer of the district.

In announcing the appointment, F. E. Weymouth, chief engineer and general manager, stated that the promotion was in recognition of Mr. Hinds' excellent record and of the distinguished services which he has rendered to the district as chief designing engineer.

Mr. Hinds, who is a graduate of the University of Texas, class of 1907, was formerly with the J. G. White Co. engaged in the construction of irrigation works in Mexico. He has been with the Metropolitan Water District since 1929.

WHITTIER, Los Angeles Co., Cal.—The \$100,000 water works bond issue for water mains, reservoirs, etc., was defeated at the special election held

January 5. While the vote was 1241 "yes" and 1229 "no" the proposition required a two-third majority.

RIO VISTA, Solano Co., Cal.—Until Jan. 27, 3 P. M., under Circular Proposal No. 33-191, Spec. No. 5160, bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, to provide and erect a 20,000-gallon steel water tank with a 70-ft. steel tower at the U. S. Engineer Department yard at Rio Vista.

VENTURA, Los Angeles Co., Cal.—Santa Paula Pipe Works, Santa Paula awarded contract by county supervisors January 3 at \$3165, for the construction of two storm water conduits from Upper Foothill Road on lot 2, Rancho Santa Paula y Saticoy, under Cash Contract No. 827, involving:

- (1) 1500 cu. yds. excavation;
 - (2) 1090 ft. 20-in. concrete pipe;
 - (3) 488 ft. 18-in. do;
 - (4) 60 ft. 14-in. do;
 - (5) 115 cu. yds. Class A concrete;
 - (6) 5000 lbs. reinf. steel;
 - (7) 21-in. corru. metal pipe.
- Santa Paula Pipe Works. (1) \$4.0 (2) \$.80 (3) \$.60 (4) \$.40 (5) \$10 (6) \$.04 (7) \$1.65; total, \$3165.
- Silveria & Robbins, (1) \$.35 (2) \$.95 (3) \$.90 (4) \$.60 (5) \$13.50 (6) \$.04 (7) \$1.50; total \$3812.20.
- Sidney Smith Contractors, (1) \$.50 (2) \$1 (3) \$.70 (4) \$.40 (5) \$12.50 (6) \$.05 (7) \$2; total \$3925.10.
- United Concrete Pipe Corp. (1) \$.25 (2) \$1.28 (3) \$.88 (4) \$.55 (5) \$12.75 (6) \$.045 (7) \$1.50; total \$3947.89.
- Santa Maria Const. Co. (1) \$.35 (2) \$1.08 (3) \$.82 (4) \$.64 (5) \$13.60 (6) \$.05 (7) \$2.80; total \$3999.56.
- James A. Bullis, (1) \$.284 (2) \$1.45 (3) \$.96 (5) \$.60 (5) \$11.40 (6) \$.0374 (7) \$1.73; total \$4036.98.
- Fowler & Myers, (1) \$.30 (2) \$1.30 (3) \$1 (4) \$.75 (5) \$13 (6) \$.045 (7) \$1; total \$4136.
- Grancich & Grancich, (1) \$.40 (2) \$2.50 (3) \$2 (4) \$1.25 (5) \$17 (6) \$.05 (7) \$1; total, \$6610.
- L. A. Brisco, (1) \$1.10 (2) \$1.70 (3) \$1.19 (4) \$.77 (5) \$19.25 (6) \$.055 (7) \$3.30; total, 6671.47.

LOS ANGELES, Cal.—Duganmun Corp., 219 S. Central Ave., Los Angeles, awarded contract by the Metropolitan Water District at \$200,584.80 net for furnishing 5-in., 6-in., and 8-in. light weight O. D. electric resistance welded steel gas line pipe for the construction of a water supply system for the Colorado River Aqueduct. The bids were opened Dec. 27.

PASADENA, Cal.—Until 11 A. M., January 24, bids will be received by city clerk for furnishing water pipe, f.o.b. water department pipe yards on Raymond Ave. near Glenarm Street. Bids will be taken on the following items:

- (1) 20,000 ft. 6-in. c. l. water pipe for service under 150 lbs. working pressure; minimum wall thickness .37 inches;
 - (2) 20,000 ft. 8-in. do; .42 inches;
 - (3) 10,000 ft. 12-in. do; .57 inches;
 - (4) 1200 ft. 16-in. do; .68 inches;
 - (5) 600 ft. 20-in. do; .78 inches;
 - (6) 800 ft. 24-in. do; .88 inches;
 - (7) 240 ft. 10-in. do; .52 inches;
 - (8) 48 ft. 14-in. do; .62 inches;
 - (9) 408 ft. 30-in. Class B cast iron water pipe;
 - (10) 50 6x6-in. c. l. tees; 3 bells, Class D;
 - (11) 20 8x6-in. do;
 - (12) 10 12x6-in. do;
- Bessie Chamberlain, city clerk.

BEVERLY HILLS, Los Angeles Co., Cal.—Bids for furnishing chemicals, supplies, etc., for the water department opened by city council Jan. 6 follow:

- Braun Corp.—Liquid chlorine, \$7 cwt for 20 cylinders; \$6.75 cwt. for 40 cylinders. Ammonia 17½c lb.
- Stauffer Chemical Co.—Aluminum sulphate, \$30 ton.
- McKesson-Western Wholesale Drug Co.—Liquid chlorine, \$7 cwt.; ammonia, 17½c lb.
- General Chemical Co.—Aluminum sulphate, \$30 ton.
- National Ammonia Co.—Ammonia, 17½c lb.
- United States Lime Products—Hydrated lime, \$14.50; high calcium quicklime, \$18.20 ton.
- Los Angeles Chemical Co.—Aluminum sulphate, \$30 ton; chlorine, 2000-lb. cylinder, \$4.75 ckt.; ammonia, 19c lb.
- California Chemical Co.—Hydrated lime, \$12.45 tin; quicklime, \$13.95 ton.
- Great Western Electro Chemical Co.—Chloride, \$66 ton.
- Grand Canyon Lime & Cement Co. of Arizona—High calcium hydrated lime, \$11.50 ton; pulverized quicklime, \$18.20 ton.
- Lewis W. Osborne, Inc.—Hydrated lime, \$16 ton.
- Oro Grande Lime & Stone Co.—Hydrated lime, \$14.50; quicklime, \$18.20 ton.

HOQUIAM, Wash.—Until Jan. 23, 3 P. M., bids will be received by Taholah Indian Agency to furnish:

- (1) 3625 lin. ft. Class 150 b&s 6-in. c. i. water pipe;
- (2) 1700 lin. ft. 4-in. do;
- (3) 5000 lin. ft. 2-in. do.

STREETS AND HIGHWAYS

LOS ANGELES, Calif.—Until 10 A. M., January 25, bids will be received by the board of public works for improving Towne Ave. bet. Florence Ave. and 74th St., under cash contract, involving:

- (1) grading (483 cu. yds. excavation and no fill, including removal of existing improvement);
- (2) 10,609 sq. ft. 6-in. concrete pave.;
- (3) 580 ft. unplastered light curb;
- (4) 2941 sq. ft. 3-in. conc. sidewalk.

DOUGLAS COUNTY, Wash.—Until Feb. 7, 10 A. M., bids will be received by Samuel J. Humes, State Highway Department, to grade and surface 10.9 miles of State Road No. 10, McLean's Orchard Tracts to Entiat Ferry, E. C. H. Proj. No. E-145-C and E-145-G, involving:

- 200,120 cu. yds. excavation;
- 268 cu. yds. concrete;
- 33,330 cu. yds. crushed stone;
- 1,507 lin. ft. pipe culverts.

Specifications obtainable from above office on deposit of \$2, returnable. Proposal guarantee, 5%. 23

COCHISE COUNTY, Ariz.—Until Feb. 2, 10 A. M., bids will be received by C. H. Sweetser, District Engineer, U. S. Bureau of Public Roads, 802 Title & Trust Bldg., Phoenix, for 2-793 miles of grading Section C and a portion of Section B, Chiricahua National Monument Highway, involving:

- 13 acres clearing;
- 42,500 cu. yds. unclass. excav.;
- 425 cu. yds. unclass. excav., struc.;
- 27,000 sta. yds. overhaul;
- 2,793 miles finish earth graded road;
- 210 cu. yds. Class A concrete;
- 16,300 lbs. reinf. steel;
- 47 cu. yds. cement rubble masonry;
- 1586 lin. ft. corru. metal pipe;

1200 cu. yds. hand-laid rock embank.;

40 right of way monuments;

220 lin. ft. protection ditch;

1 cattle guard;

2000 lin. ft. standard line fence.

Specifications obtainable from above office on deposit of \$10, returnable, checks certified and payable to Regional Fiscal Agent, U. S. Forest Service.

CULVER CITY, Los Angeles Co., Cal.—County Supervisors appropriated \$4614 for the improvement of streets in Culver City. Nine separate street projects are specified in the list of improvements. They are: Atlantic Ave. from Washington St. to Zanja St.; Walgrove Avenue from Washington Blvd. to Zanja St.; Girard Ave. from Washington Blvd. to Venice Blvd.; Duquesne Ave. from Culver Blvd. to Ballona Creek; intersection of Culver and Sepulveda Blvds.; Culver Blvd. from Ince Blvd. to Canfield St.; Sentney Ave. from Washington Blvd. to Tract 5560; storm drain from Wesley St. to Ballona creek; Poinsettia court from Ince Blvd. to Higuera St.

STOCKTON, San Joaquin Co., Cal.—Willard, Biasotti & Lovatti, 40 W Clay St., Stockton, at \$8500 awarded contract by City Port Commission to gravel certain roads and areas in the vicinity of the turning basin for the Port of Stockton, involving:

- (1) 5,000 cu. yds. grading;
- (2) 10,000 cementing road gravel.

Complete bids follow:

(A) Willard, Biasotti, Lovatti.....	\$ 8,500
(B) C. W. Wood, Stockton.....	9,625
(C) R. E. McCarthy, Stockton.....	9,850
(D) Geo. French, Jr., Stockton.....	10,000

Unit bids follow:

	(A)	(B)	(C)	(D)
(1).....	\$.08	\$.125	\$.15	\$.15
(2).....	.81	.90	.91	.925

EUREKA, Humboldt Co., Cal.—Merced-Praser Co., 2nd and Commercial, Eureka, at \$1.83 per cu. yd., awarded contract by city council to furnish 1,000 cubic yards of screened gravel.

ALBROOK FIELD, C. Z.—Tucker McClure, 1204 Spring Arcade Bldg., Los Angeles, awarded contract by the War Department at \$75,200, for the construction of paved aprons, ramps and all utilities for technical area at Albrook Field, C. Z. The bids were opened on December 16.

MONTEREY COUNTY, Cal.—M. J. Bevanda, Elks Building, Stockton, at \$173,378.40 awarded contract by State Highway Commission, Sacramento, to grade and pave with Portland cement concrete five miles between six miles and one mile south of San Ardo.

SAN FRANCISCO—Eaton & Smith, 715 Ocean Ave., San Francisco, at \$2223 awarded contract by Dept. of Public Works to improve connecting street between Laidley and 30th, and west half of Laidley between Now and 30th Sts.

L. Peira, 165 Howth St., low bidder at \$1834.23 asked release on account of an error in his figures.

WASHOE COUNTY, Nevada—Union Paving Co., Call Bldg., San Francisco at \$93,769.14 awarded contract Jan. 11 by State Highway Department, Carson City, to grade and asphaltic concrete surface 5.423 miles bet. Reno and Huffakers. Quantities published in issue of Dec. 31. Jones and King, Hayward, second low at \$98,561.89; Clark & Henery Const. Co., San Francisco, third low at \$99,867.82.

SEATTLE, Wash.—Thomas Hunt, county engineer of King County, has announced that a total of \$1,667,116 will be expended during 1933 for highway construction in accordance with the county budget allowances. These include \$570,316 for permanent highways; \$235,000 for lateral highways; \$474,700 for road and bridge funds; \$387,100 for road district funds. The projects planned include:

PAVING

Auburn Black Diamond Rd.....	\$25,000
Avondale Road	40,000
Cedar Mount, or Empire Way, Renton	20,000
Crawford & Conover Rd. (Kenmore Juanita Road).....	40,000
125th (Victoria Way west to First Ave. N. E.).....	30,000
Empire Way-Renton Rd. (from bridge to S 78th).....	25,000
45th S. W. right of way.....	500
Issaquah-Compton Road	40,000
Issaquah-Newport, paving gaus	22,000
Lake Sammamish (west side).....	41,000
Maple Valley-Enumclaw or Enumclaw Cemetery Road	25,000
Middle Road	40,000
Military Road	25,000
Pridgeon, Bend Road	25,000
P. S. Marine View Drive.....	50,000
Right of way on same.....	3,000

OILING

Bothell Northward	3,000
Fall City north to county line.....	7,500
Wodenville-Snohomish line.....	3,000

GRADING-GRAVELING

47th S. W.	10,000
Midlakes-Rose Hill	7,500
Miller River Road	5,000
Paul A Road	1,500
P S Marine View Drive.....	15,000
Wm. F. Brown Road.....	2,500
Rd. 513 and 601, Fish & Adams Roads	15,000
Road from Factoria Bridge to Mercer Slough	10,000
Simmons Road	5,000
S. 98th St., Myers Way to 16th S. W.	25,000
West Side Snoqualmie Valley (Woodinville - Duvall Road, northward)	25,000

BRIDGES

Wilkinson Bridge No. 1023A (approaches)	3,000
Wayne Bridge No. 721A.....	2,500
North Bend Bridge over south fork (301B) 405A	3,500
Squak Creek bridge	1,500
Cable bridge at Skykomish.....	8,000

COCHISE COUNTY, Arizona—H. J. Hagen, Globe, submitted low bid to U. S. Bureau of Public Roads, 802 Title & Trust Bldg., Phoenix, Ariz., Jan. 4, at \$2,687, for furnishing all labor and materials and performing all work for grading Section C and a portion of Section B of Route No. 32, the Chiricahua Monument National Forest Highway, Chiricahua National Monument, Coronado National Forest, involving:

- (1) 13 acres clearing;
 - (2) 42,500 cu. yds. unclass. excav.;
 - (3) 425 cu. yds unclass excav. for structures;
 - (4) 27,900 sta. yds. overhaul;
 - (5) 2722 mi. finishing earth graded road;
 - (6) 210 cu. yds. class A concrete;
 - (7) 16,390 lbs. reinforcing steel;
 - (8) 47 cu. yds. cem. rubble masonry;
 - (9) 1289 lin. ft. 18-in C M. P. in place
 - (10) 148 lin. ft. 24-in. C. M. P. in place
 - (11) 68 lin ft. 36-in. C. M. P. in place
 - (12) 1230 cu. yds. h. l. rock embank.;
 - (13) 40 each right-of-way mounaments
 - (14) 220 lin. ft. protection ditch;
 - (15) 1 each cattle guard;
 - (16) 2000 lin. ft. standard line fence.
- The other bids were:
 Vinson & Pringle, Phoenix, \$57,687.
 R. S. Black, Clifton, Ariz., \$60,717.

C. G. Willis & Sons Los Angeles, \$76,677.
 Skousen Bros., Albuquerque, N. M., \$77,720.
 Hodgman & MacVicar, Pasadena, \$99,022.

HUMBOLDT COUNTY, Cal.—Hemstreet & Bell, 501 11th St., Marysville, at \$84,671.05 submitted low bid to and recommended for award by U. S. Bureau of Public Roads, San Francisco, for 7.507-mi. grading Unit 2-C, California Federal Lands Project No. 1. Hoopa Valley Indian Reservation, involving:

- (1) 19 acres clearing;
- (2) 148,500 cu. yds. unclass. excav.;
- (3) 1,300 cu. yds. unclass. excavation, struc.;
- (4) 50,000 hydraulic excavation;
- (5) 50,000 cu. yds. add. hydraulic excavation;
- (6) 126,000 sta. yds. overhaul;
- (7) 7,800 cu. yds. subgrade reinf.;
- (8) 7.492 mi. finish earth graded rd.;
- (9) 13 cu. yds. crushed rock or gravel backfill;
- (10) 9 M. ft. b.m. timber cribbing;
- (11) 1 M. ft. b.m. untreated timber;
- (12) 362 cu. yds. Class A concrete;
- (13) 37 cu. yds. Class B concrete;
- (14) 37,860 lbs. reinf. steel;
- (15) 284 lin. ft. 10-in. corr. galv. metal pipe;
- (16) 322 lin. ft. 12-in. do;
- (17) 1444 lin. ft. 18-in. do;
- (18) 494 lin. ft. 24-in. do;
- (19) 316 lin. ft. 18-in. corr. metal galv. metal irrigation pipe;
- (20) 60 lin. ft. place Govt. furnished corr. galv. metal pipe;
- (21) 150 lin. ft. remove and relay cor. metal pipe;
- (22) 70 lin. ft. galv. metal flume;
- (23) 33 cu. yds. hand laid rock embankment;
- (24) 55 lin. ft. wood guard rail;
- (25) raise Trinity river bridge approach;
- (26) 29,700 lin. ft. ne wfence;
- (27) 9,700 lin. ft. move & reset fence;
- (28) 80 timber gates, 10-ft.;
- (29) move and repair telephone line, force account.

Complete bids follow:
 (A) Hemstreet & Bell, Marysville \$84-671.05.
 (B) Mercer-Fraser Co., Eureka, \$106,-324.90.
 (C) Western Motors Transfer Company, Santa Barbara, \$107,701.26.
 (D) Engineer's estimate, \$88,217.60.

Unit bids follow:

	(A)	(B)	(C)	(D)
(1).....	\$140.00	\$ 80.00	\$150.00	\$150.00
(2).....	.27	.36	.374	.30
(3).....	1.50	1.00	1.50	1.50
(4).....	.12	.18	.21	.10
(5).....	.09	.15	.16	.04
(6).....	.02	.01	.01	.01
(7).....	.80	1.50	.564	.60
(8).....	250.00	300.00	200.00	250.00
(9).....	4.00	2.50	4.00	3.00
(10).....	65.00	57.50	90.00	60.00
(11).....	80.00	93.00	60.00	90.00
(12).....	20.00	16.50	25.00	25.00
(13).....	20.00	30.00	25.00	25.00
(14).....	.05	.045	.05	.07
(15).....	.85	.85	.77	1.10
(16).....	1.00	.85	.90	1.30
(17).....	1.35	1.25	1.35	1.40
(18).....	1.95	1.80	2.12	2.00
(19).....	1.70	1.70	1.90	1.80
(20).....	.30	.31	.50	.50
(21).....	.75	.80	.60	.75
(22).....	1.25	2.85	4.53	1.25
(23).....	4.00	4.00	5.00	3.00
(24).....	1.25	1.00	.80	1.00
(25).....	500.00	360.00	350.00	500.00
(26).....	.08	.10	.10	.15
(27).....	.05	.08	.05	.06
(28).....	5.00	6.00	3.85	6.00
(29).....	50.00	50.00	50.00	50.00

SAN RAFAEL, Marin Co., Calif.—Hutchinson Co., 1450 Harrison Street, Oakland, at \$16,690 awarded contract to construct post roads (North Oakwood, South Oakwood and Radio Rd.) at Hamilton Field

OREGON STATE—Until January 25 bids will be received by State Highway Department, Portland, for highway construction as follows:

Washington County: Forest Grove-Hillsboro Section of Tualatin Valley Highway, concrete pave, and shoulder construction work.

Tillamook County: two miles regrading and resurfacing on Dolph Section of McMinnville-Tillamook Highway.

Douglas County: two miles heavy regrading on Rice Hill Section of Pacific Highway, Douglas County.

Grading embankment approaches to two bridges on Umpqua Highway, bet. Scottsburg and Reedsport.

Jackson County: 1½ miles grading and concrete pavement on Ashland Section of Pacific Highway.

Harney County: One mile grading on Drinkwater Pass Section of Central Oregon Highway.

Furnishing crushed rock in stockpiles on Columbia River Highway and John Day River Highway in vicinity of Arlington. Requires about 8000 cu. yds. crushed rock.

Production of about 5000 cu. yds. crushed rock and about 8000 cu. yds. pit run gravel for use on state highways in vicinity of Bend.

FAIRFAX, Marin Co., Cal.—No bids received by city council to improve streets in the Manor Hill Section, including paving, curbs and gutters, to have been opened January 10 at 8 P. M. Leslie Grosbauer, City Clerk. J. C. Oglesby, city engineer. New bids will probably be called February 3. Estimated cost, \$30,000.

SEATTLE, Wash.—Until March 15 (extended from January 11) bids will be received by Board of Public Works to improve Railroad Ave. from Madison to Bay Sts., including construction of a concrete sea wall, involving: 57,560 cu. yds. concrete paving; 5800 lin. ft. curbing; 8720 sq. yds. concrete sidewalks; 4900 lbs. reinf. steel; 6780 lin. ft. 20-in c i pipe; 256,006 cu. yds. embankment (sea-wall); 9660 cu. yds. rip-rap (sea-wall). Estimated cost \$1,200,000.

PASADENA, Los Angeles Co., Cal.—C. G. Wills & Sons, Inc., 2119 E. 25th St., Los Angeles, submitted low bid to City Board of Directors January 3 at \$32,800 for clearing and grubbing 419 acres in Pine Canyon reservoir site. The bids are:

- C. G. Willis & Sons, Inc., \$86 per acre or \$32,800;
 - E. F. Wopschall, \$103 per acre or \$42,231;
 - Contracting Engineers, Inc., \$146 per acre or \$59,850;
 - A. Mitchell, \$197 per acre or \$80,770;
 - R. H. Travers, \$190 per acre or \$77,900;
 - Bent Brothers, Inc., Winston Bros. Co. and Wm. C. Crowell, \$205 per acre or \$84,050;
 - Geo. H. Atkinson, \$239 per acre or \$97,590.
- The bids were taken under advise-

BUILDING NEWS

APARTMENTS

Contract Awarded.
APARTMENTS Cost, \$18,300
SAN FRANCISCO. SE Twenty-fifth and York Sts.
 Two-story and basement frame and stucco apartments (8 3 and 4-room apts.); flat roof, steam heating, electric refrigeration, hardwood floors, tiled baths and kitchens, etc.
 Owner—G. Locastro, 714 Call Bldg., San Francisco.
 Architect—Not Given.
 Contractor—G. Carraro & Son, 780 Felton St., San Francisco.

FACTORIES AND WAREHOUSES

Plans Being Completed.
SHED Cost, \$—
SAN FRANCISCO. Pier No. 35.
 Shed for extension to Pier No. 35 (80 feet in length).
 Owner—State of California (Harbor Commission).
 Engineer—Frank G. White, Ferry Bldg., San Francisco.
 Bids will be asked about Feb. 1.

Planned.
PLANT Cost, \$45,000
VISALIA, Tulare Co., Calif.
 Packing plant unit.
 Owner—California Walnut Growers' Assn., (M. W. Dula, secretary, Visalia).
 Architect—Not Given.

OAKLAND, Alameda Co., Cal.—Until January 23, 4:30 P. M., bids will be received by G. B. Hegardt, Secretary, City of Oakland Port Commission, Grove St. Pier, for reconditioning concrete floors in warehouse "D", outer harbor.

Completing Plans.
DISTRIBUTING PLANT. Cost, \$5000
OAKLAND, Alameda Co., Cal. Vicinity of 46th and Clement Sts.
 One-story wood frame and corrugated iron distributing plant.
 Owner—Richfield Oil Co., 248 Battery St., San Francisco.
 Plans by Eng. Dept. of Owner, P. L. Mott, Engineer.
 Bids will be asked in about two weeks.

GARAGES AND SERVICE STATIONS

Contract Awarded.
SERVICE STATION Cost, \$5000
REDWOOD CITY, San Mateo Co., Cal. 492 Middlefield Road.
 Steel frame and concrete service station.
 Owner—Associated Oil Co., 79 New Montgomery St., San Francisco.
 Architect—Masten & Hurd, 233 Post St., San Francisco.
 Contractor—E. J. Willits, 324 Coventry Road, Oakland.

Planned.
SERVICE STATION Cost, \$15,000
BERKELEY, Alameda Co., Cal. Vine and Shattuck Ave.
 Super service station.
 Owner—Standard Oil Co., 225 Bush St., San Francisco.
 Plans by Eng. Dept. of Owner.

GOVERNMENT WORK AND SUPPLIES

PUGET SOUND, Wash.—Foster Wheeler Corp., New York City, has been awarded the contract by the Bureau of Yards and Docks at \$9856.75 for condenser and equipment, Navy Yard. 7

WASHINGTON, D. C.—Herbert M. Barnch Corp., 625 S Olive St., Los Angeles, at \$898,810 awarded contract by Veterans' Administration, for the construction of a six-story reinforced concrete hospital to contain 300 beds; a three-story concrete administration building; nurses' home, garage, storehouse, laundry, etc., at Fort Miley, San Francisco. Plans prepared by the Supervising Superintendent of Construction, Veterans' Hospital, Palo Alto.
 (\$283) 1st report March 31; 19th, Dec. 24, 1932. 7

Bids Wanted—To Close Feb. 17.
POST OFFICE Cost, \$200,000
SAN JOSE, Santa Clara Co., Cal. First and St. John Streets.
 Two-story and basement Class A Post Office (buff terra cotta exterior); Spanish type.
 Owner—United States Government.
 Architect—Ralph Wyckoff, San Jose National Bank Bldg., San Jose.
 Structural Engineer—L. H. Nishkain, 525 Market St., San Francisco, and Earl Cope, 111 Sutter Street, San Francisco.
 Mechanical Engineer—Leland & Haly 58 Sutter St., San Francisco.

SAN FRANCISCO.—Until Jan. 25, 3 P. M., bids will be received by U. S. Engineer Office, Custom House, to remove the sunken and abandoned steamer "Winchester," lying on the south side of the north channel in Brooklyn Basin, Oakland Harbor. Specifications obtainable from above office. 7

KETCHIKAN, Alaska—Warrack Construction Co., McDowell Bldg., Seattle, at \$8399 submitted low bid to Ketchikan, to construct a structural steel shed, traveling crane runway and traveling crane. Newkirk & Hunter second low at \$8743; Wright Construction, third low at \$9318.

WASHINGTON, D. C.—As previously reported Edwin F. Guth, Jefferson and Washington Aves., St. Louis, Mo. at \$700 submitted low bid to Treasury Department, Washington, for furnishing and installing interior lighting fixtures for the post office building at Palo Alto.

Following is a complete list of bids:
 E. F. Guth Co., St. Louis.....\$ 700
 W. G. Warren & Co., Chicago..... 707
 Moe-Bridges Co., Milwaukee..... 750
 H. A. Framburg & Co., S. F..... 770
 Phoenix-Day Co., S. F..... 1,051
 Butler-Kohaus, St. Louis..... 1,246

SAN FRANCISCO.—Plans and specifications have been completed by the Constructing Quartermaster, Fort Mason, and forwarded to Washington, D. C., for approval, for one steam turbine generator, 100-kw. for the Letterman General Hospital, Presidio.

SAN PEDRO, Los Angeles Co., Cal.—Treasury Department, Office of the Supervising Architect, Washington, D. C., is preparing sketches for the harbor district Federal building to be erected at the north end of Plaza Park in San Pedro. It will be a Class A structure housing the post office, customs department, immigration and public health service, steam boat inspection service, shipping commission and hydrographic offices. Deducting from the original appropriation the cost of the site and the required 10 per cent in accordance with the government economy measure, there will be approximately \$480,000 available for the construction of the building. Legal matters pertaining to the acquisition of the site have been settled.

Contract Awarded.
POST OFFICE Cont. Price, \$73,587
OREGON CITY, Oregon.
 One-story and basement reinforced concrete post office (52x112 feet), with brick wing (18x25 feet) brick and terra cotta exterior.
 Owner—United States Government.
 Architect—Knighton & Howell, U. S. National Bank Bldg., Portland.
 Contractor—Dougan-Hammond Construction Co., Studio Bldg., Portland.

WASHINGTON, D. C.—Stone Heating & Ventilating Co., Washington, D. C., at \$7,600 awarded contract by the Bureau of Yards and Docks, Navy Department, Washington, D. C., to furnish 100-kw. gasoline engine-driven generating set, including switchboard, gasoline tanks, piping, wiring, and accessories at the Naval Ammunition Depot, Hawthorne, Nev., under Spec. No. 7050.

WASHINGTON, D. C.—Lindgren & Swinerton, Inc., 225 Bush Street, San Francisco, at \$625,530 awarded contract by Treasury Department, for the construction of a four-story Class A reinforced concrete addition to the San Francisco post office, located at Seventh and Mission Streets. George Kelham, 315 Montgomery Street, San Francisco, architect.

WASHINGTON, D. C.—As previously reported, Westinghouse Electric Elevator Co., 166 7th St., San Francisco, at \$19,945 submitted low bid to Treasury Department for furnishing and installing a complete elevator plant in the U. S. post office and court house, located at 7th and Mission Sts. San Francisco.

Following is a complete list of bids:
 Westinghouse Elec. Elev. Co.....\$19,945
 Otis Elevator Co., S. F..... 23,621
 Shepard Elev. Co., Cincinnati..... 23,975
 Pacific Elev. & Equip. Co., San Francisco 27,390
 Wm. A. Miller Machine & Elev. Co., St. Louis..... 29,545
 Houghton Elev. & Machine Co., Washington, D. C..... 30,450

Commissioned To Prepare Plans.
POST OFFICE Cost, \$76,500
MONTEBELLO, Los Angeles Co., Cal. United States post office.
 Owner—United States Government.
 Architect—A. R. Walker and P. A. Eisen, Ltd., Signal Oil Bldg., Los Angeles.

Completing Plans.

POST OFFICE Cost, \$150,000
VENTURA, Ventura Co., Cal. Santa Clara and Fir Streets.

Two-story and basement masonry and steel post office (146x110) cream colored face brick exterior, terra cotta trim, stone base course, tile roof, tile floor and wainscoting, redwood ceiling in lobby, metal windows, steam heat, vaults, etc.

Owner—United States Government.
Architect—Harold E. Burket, 455 East Main St., Ventura.

Bids will be asked shortly.

WASHINGTON, D. C.—H. S. Tittle, 85 Columbia Square, San Francisco, at \$3950 awarded contract by Bureau of Yards and Docks, Navy Department, for a fire alarm system, consisting of call boxes, electric air horn, gongs, control board equipment, wires cables and connections at the Naval Air Station, Sunnyvale, Calif. Spec. No. 6984.

SAN RAFAEL, Marin Co., Calif.—Hutchinson Co., 1450 Harrison Street, Oakland, at \$16,090 awarded contract to construct post roads (North Oakwood, South Oakwood and Radio Rd.) at Hamilton Field.

SUNNYVALE, Santa Clara Co., Cal.—Until January 25, 11 A. M., bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., for eight monorail electric traveling hoists and trolley beams in the hangar at the Naval Air Station, Sunnyvale. Specification No. 7170. Plans and specifications available from above office and from Commandant, Twelfth Naval District, 100 Harrison St., San Francisco, upon deposit of \$10.

WALLA WALLA, Wash.—Otis Elevator Co., Washington, D. C., at \$3,184 awarded contract by Supervising Superintendent of Construction, Palo Alto, for one plunger electric passenger elevator, enclosure doors and trim for Bldg. No. 68 at Walla Walla.

SAN FRANCISCO—Wallace & Tierman Co., 7 Front St., San Francisco, awarded contract by U. S. Lighthouse Service, at \$11,050 to furnish flashing light equipment under Proposal 875. Bids were opened on November 28.

Plans Completed.

POST OFFICE Cost, \$679,000
PHOENIX, Arizona.

Six- or three-story steel frame post office (195x150-feet) granite and tufa stone exterior, tile roof, steel sash, bronze doors, marble, tile and terrazzo work, vaults, air conditioning system, steam heat, elevators, etc.

Owner—United States Government.
Architect—Lescher & Mahoney, Title and Trust Bldg., Phoenix.

Treasury Department has adopted plans and bids will be asked in about 30 days.

WASHINGTON, D. C.—Until Feb. 10, bids will be received by the Constructing Quartermaster, March Field, Riverside, Calif., for the construction of an enlisted men's service club to be erected at March Field for the U. S. Government.

BOULDER CANYON, Nev.—Until January 27, 2 P. M., bids will be received by U. S. Bureau of Reclamation, Denver, Colo., to furnish eight welded plate-steel cylinder gates 32-ft. in diameter and 10-ft. 1 5/16-in. high; also semi-steel entrance liners, welded plate-steel nose liners, and

semi-steel and cast-steel throat liners; for installation in the intake towers at Hoover Dam, Boulder Canyon, Project, Arizona-California-Nevada.

Bids will be taken on each of two completed items, and will not be considered on only a part of either item. Materials to be installed by the Government. No charge for specifications to bona fide bidders; to others \$2.50, not returnable.

FORT LEWIS, Wash.—Until January 26, 10:30 a. m., bids will be received by Constructing Quartermaster, Fort Lewis, Washington, for the completion of barracks at Fort Lewis. Plans and specifications available from above office upon deposit of \$15.

WASHINGTON, D. C.—Until February 1, 11 a. m., bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., for service system extensions at the Naval Air Station, Sunnyvale, Cal. Specification No. 7161. Work will consist of the installation of motor driven gasoline pumps, gas storage tanks, pump pits, light, power and telephone manholes, transformers, electrical apparatus and all piping and wiring accessories.

WASHINGTON, D. C.—North Moller Company, Jackson, Mich., at \$104,980 awarded contract by Treasury Department for the construction of the post office building to be erected at Redlands, San Bernardino County, for the U. S. Government. G. Stanley Wilson, 3646 W. 9th St., Riverside, architect.

WASHINGTON, D. C.—Until February 15, 11 a. m., bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., for two automatic telephone systems complete with central office equipment, wiring, storage batteries, charging rectifier and connections to existing lines at the Naval Ammunition Depot, Oahu, T. H. Specification No. 7020. Plans and specifications available from above office or from Commandant, Fourteenth Naval District, Navy Yard, Pearl Harbor, T. H., or Commandant, Twelfth Naval District, 100 Harrison St., San Francisco, upon deposit of \$10.

HALLS AND SOCIETY BUILDINGS

Preparing Preliminary Plans.

LODGE Cost, \$60,000
FRESNO, Fresno Co., Cal. Tuolumne and Van Ness Avenues.

New lodge building (replace building recently destroyed by fire).

Owner—Woodmen of the World.
Architect—Ernest J. Kump, Rowell Bldg., Fresno.

TAFT, Kern Co., Cal.—Taft Moose lodge, C. E. Perkinson, dictator, contemplates leasing a building in the Taft business district and remodeling the structure for lodge purposes.

HOSPITALS

STOCKTON, San Joaquin Co., Cal.—Dohrmann Hotel Supply Company, 972 Mission Street, San Francisco, awarded contract by State Purchasing Department, Sacramento, for furnishing one dishwashing machine for the Stockton State Hospital.

POWER PLANTS

LOS ANGELES, Cal.—Bids were received by City Purchasing Agent, A. J. Holm, January 3, for lead covered telephone cable under Specification No. 2954. The specifications call for furnishing and delivering lead covered telephone cable, as described below, f.o.b. cars Davies Extension Spur, S. P. delivery, Los Angeles, or f.o.b. trucks department of Water and Power warehouse, 257 E 3rd St., Los Angeles, or f.o.b. cars bidder's factory with full freight allowed to 257 E. 3rd St. The items are:

- (1) 3000 ft., 25 pair, lead covered telephone cable, dielectric strength 1000 volts, to be furnished on reels. Cable shall consist of 26 pair, 25 pair of which shall be guaranteed;
- (1 alt.) 3000 ft., 25 pair, lead covered telephone cable, dielectric strength 700 volts, on reels. Cable to consist of 26 pair, 25 to be guaranteed
- (2) 17,350 ft., 25 pair, lead covered telephone cable, dielectric strength 1000 volts on reels. Cable to consist of 26 pair, 25 to be guaranteed;
- (2 alt.) 17,350 ft., 25 pair lead covered telephone cable, dielectric strength 700 volts, on reels. Cable to consist of 26 pair, 25 to be guaranteed
- (3) 4425 ft., 10 pair, lead covered telephone cable, dielectric strength 1000 volts, to be furnished on reels. Cable to consist of 11 pair, 10 to be guaranteed.
- (3 alt.) 4425 ft., 10 pair, lead covered telephone cable, dielectric strength 700 volts, on reels. Cable to consist of 11 pair, 10 to be guaranteed;
- (4) 9950 ft., 25 pair, lead covered telephone cable, dielectric strength 1000 volts, on reels. Cable to consist of 26 pair, 25 of which shall be guaranteed;
- (4 alt.) 9950 ft., 25 pair, lead covered telephone cable, dielectric strength 700 volts, to be furnished on reels. Cable to consist of 26 pair, 25 pair to be guaranteed.

The bids were as follows:

American Electrical Works (A. E. Vandercook)—(1) \$103 per M ft., (1 alt.) \$93.35 (2) \$103.50 (2 alt.) \$91.30 (3) \$64.25 (3 alt.) \$58.15 (4) \$104 (4 alt.) \$91.80. F.o.b. Phillipsdale, R. I., full freight allowed. Discount for combined award, 15% Delivery, 31 days

General Cable Co.—(1) \$101.85, (1 alt.) \$91.86, (2) \$100.40, (2 alt.) \$94.69, (3) \$64.75 (3 alt.) \$61.50 (4) \$100.55 (4 alt.) \$94.75. F.o.b. Emeryville, Calif., full freight allowed. Discount for combined award, 1.5%. Cash discount, 1/2 of 1% 10 days after date of delivery. Delivery 8 weeks from factory.

John A. Roelings Sons Co. (antimony by weight approximately .075)—(1) \$108, (1 alt.) \$95, (2) \$108, (2 alt.) \$95, (3) \$65, (3 alt.) \$58, (4) \$108, (4 alt.) \$95. F.o.b. trucks 257 E. 3rd St. No discount for combined award. Cash discount, 1/2 of 1% 10 days after date of delivery. Delivery, 28 days from factory.

Graybar Electric Co.—(1) \$159.40, (alt.) .075 sheath \$167.30; (1 alt.) \$140.80; (2) \$159, (alt.) .075 sheath \$166.50 (2 alt.) \$139.80 (3) \$99.10 (3 alt.) \$88.60; (4) \$159.20, (alt.) .075 sheath \$166.90; (4 alt.) \$140 Combined award: (1) \$154.60 (1 alt.) \$136.00 (2) \$154.20, (2 alt.) \$125.70, (3) \$95.40, (3 alt.) \$85.60 (4) \$154.40 (4 alt.) \$135.90. Alternates on .075 sheath: (1) \$162.20, (2) \$161.50, (3) no bid, (4) \$161.80. F. o. b. Davies Extension spur. Prices net. Delivery, 42 to 56 days.

LOS ANGELES, Cal.—Bids for furnishing cable and other material for use in the construction of transmission lines and substations between Cabazon and Hayfield were opened by the Metropolitan Water District, Los Angeles, Jan. 12. Bids were taken on items as follows:

- (7) 211,600 circular mil (4/0 B & S) seven-strand copper;
 - (a) 100,000 lbs. f.o.b. Cabazon, per 100 lbs.;
 - (a1) 240,000 lbs. f.o.b. Garnet, per 100 lbs.;
 - (a2) 234,000 lbs. f.o.b. Indio, per 100 lbs.;
 - (a3) 268,000 lbs. f.o.b. Mecca, per 100 lbs.;
 - or (b) 100,000 lbs. f.o.b. Cabazon, per 100 lbs.;
 - (b1) 240,000 lbs. f.o.b. Garnet, per 100 lbs.;
 - (b2) 234,000 lbs. f.o.b. Indio, per 100 lbs.;
 - (b3) 370,000 lbs. f.o.b. Mecca, per 100 lbs.;
 - (b4) 300,000 lbs. f.o.b. Rice, per 100 lbs.
- (8) (Alternative to Item No. 7) 336,400 circular mil steel reinforced aluminum cable with vibration dampers;
 - (a) 56,000 lbs. f.o.b. Cabazon, per 100 lbs.;
 - (a1) 134,000 lbs. f.o.b. Garnet, per 100 lbs.;
 - (a2) 131,000 lbs. f.o.b. Indio, per 100 lbs.;
 - (a3) 150,000 lbs.; f.o.b. Mecca, per 100 lbs.;
 - or (b1) 56,000 lbs. f.o.b. Cabazon, per 100 lbs.;
 - (b2) 134,000 lbs.; f.o.b. Garnet, per 100 lbs.;
 - (b3) 131,000 lbs. f.o.b. Indio, per 100 lbs.;
 - (b4) 270,000 lbs. f.o.b. Mecca, per 100 lbs.;
 - (b5) 168,000 lbs. f.o.b. Rice, per 100 lbs.;
- (9) 133,225 circular mil (2/0 B & S) seven-strand copper;
 - (a) 64,000 lbs. f.o.b. Valverde, per 100 lbs.;
 - (a1) 134,000 lbs. f.o.b. Garnet, per 100 lbs.;
 - (a2) 148,000 lbs. f.o.b. Indio, per 100 lbs.;
 - or (b) 64,000 lbs. f.o.b. Valverde, per 100 lbs.;
 - (b1) 54,000 lbs. f.o.b. Cabazon, per 100 lbs.;
 - (b2) 188,000 lbs. f.o.b. Garnet, per 100 lbs.;
 - (b3) 148,000 lbs. f.o.b. Indio, per 100 lbs.;
 - (b4) 270,000 lbs. f.o.b. Mecca, per 100 lbs.;
 - (b5) 670,000 lbs. f.o.b. Rice, per 100 lbs.;
- (10) (Alternative to Item No. 9) 211,600 circular mil (4/0 B & S) steel reinforced aluminum cable, with armor rods;
 - (a) 45,600 lbs. f.o.b. Valverde, per 100 lbs.;
 - (a1) 95,500 lbs. f.o.b. Garnet, per 100 lbs.;
 - (a2) 105,000 lbs. f.o.b. Indio, per 100 lbs.;
 - or (b) 45,600 lbs. f.o.b. Valverde, per 100 lbs.;
 - (b1) 38,500 lbs. f.o.b. Cabazon, per 100 lbs.;
 - (b2) 134,000 lbs. f.o.b. Garnet, per 100 lbs.;
 - (b3) 105,500 lbs. f.o.b. Indio, per 100 lbs.;
 - (b4) 192,000 lbs. f.o.b. Mecca, per 100 lbs.;
 - (b5) 478,000 lbs. f.o.b. Rice, Calif.;
- (11) 66,564 circular mil (No. 2 B & S) seven-strand copper;
 - (a) 16,000 lbs. f.o.b. Mecca;
 - (b) 16,000 lbs. f.o.b. Rice, Calif.;

Bids (on copper cable) identical in prices were submitted by the following: General Cable Co., Anaconda Wire & Cable Co., Pacific Wire Rope Co., American Electrical Works, Phelps-Dodge Copper Products Corp., Columbia Steel Co., Graybar Electric Co., John A. Roebings Sons Co.

The prices of these bidders were:
 Item (7): (a) \$9.43, (a1) \$9.54, (a2) \$9.64, (a3) \$9.71, (b) \$9.43, (b1) \$9.54, (b2) \$9.64, (b3) \$9.71, (b4) \$9.83.
 Item (9): (a) \$9.15, (a1) \$9.54, (a2) \$9.64, (b) \$9.15, (b1) \$9.43, (b2) \$9.54, (b3) \$9.64, (b4) \$9.71.
 Item (11): (a) \$10.46, (b) \$10.58.
 The Aluminum Co. of America submitted the only bid for aluminum conductors, bidding on Items (8) and (10).
 The prices were: Item (8) all delivery points \$13.34 cwt.; Item (10) all delivery points \$11.62 per cwt.

LOS ANGELES, Cal.—Southern California Edison Company's 1933 budget includes the sum of \$3,900,000 to be used for improvements provided that new business warrants the expenditure. Most of this sum will be used for transmission and distribution line construction.

PASADENA, Cal.—Samuel B. Morris, chief engineer, Water Department has recommended to the board of city directors that the city exercise an option to purchase 1000 acres of land and the Azusa hydro-electric plant of the Southern California Edison Co. in San Gabriel Canyon. The purchase price is \$783,494. Mr. Morris states that it will be necessary for the city to sell another block of water bonds in order to finance the purchase of the Edison lands and power plant.

The city is planning to operate the Azusa power plant, according to Mr. Morris, transmitting the power to the municipal power plant until such time as the Metropolitan Water District takes over the Pine Canyon dam and reservoir for storage of Colorado river water and reimburses Pasadena for its expenditures on the project. When the Metropolitan District takes over the water impounding works it will purchase half of the power developed at the Azusa plant, and the remainder will be taken by the city. The plan has a capacity of 10,000,000 kilowatts per year.

LOS ANGELES, Cal.—Osborne and Ziebarth, Los Angeles, at \$98,780 using copper wire, and at \$105,392 using aluminum wire, submitted low bid to Metropolitan Water District January 12 for transmission line bet. Cabazon and Hayfield, also Lakeview to Valverde, including substations.

SCHOOLS

SAN JOSE, Santa Clara Co., Cal.—Following is a complete list of the bids received by San Jose Board of Education for the installation of an underground sprinkling system for the Herbert Hoover Junior High School and the M. R. Trace Elementary School.

- Herbert Hoover School: Props. 1, 2, 3.
 M. R. Trace School: Props. 4, 5.
 Williams & Casselberry, 642 S 7th St., San Jose.....(1) \$746.81
(2) 929.28
(3) 736.46
(4) 551.49
(5) 455.00
 M. R. LeBaron.....(1) \$870.00
(2) 765.00
(3) 535.00
(4) 498.00
(5) 455.00
 Nu-Way Lawn Sprinkler Co.
 San Francisco(1) \$880.00

-(2) 871.00
-(3) 492.00
-(4) 479.00
-(5) 452.00
- Calif. Lawn Sprinkler Co.,
 Los Angeles(1) \$943.95
(2) 774.60
(3) 631.10
(4) 579.00
(5) 522.40
- N. W. Cogley, San Jose.....(1) \$959.17
(2) 838.28
(3) 558.79
- Scott Machinery Co., S. F. (1) \$978.00
(2) 899.00
(3) 637.00
(4) 554.00
(5) 476.00
- Brooks Sprinkling System,
 San Francisco(1) \$987.45
(2) 804.30
(3) 618.66
(4) 485.80
(5) 388.60
- A. J. Peters & Son, San Jose
(1) \$1,012.00
(2) 868.00
(3) 607.00
(4) 547.00
(5) 504.00
- West Coast Sprinkler Corp.,
 Burlingame(1) \$1,070.00
(2) 826.00
(3) 680.00
(4) 550.00
(5) 500.00
- Van Dalsem Bros., San
 Jose(1) \$1,150.00
(2) 1,130.00
(3) 689.00
(4) 663.00
(5) 612.00
- Pacific Irrigation Co., San
 Francisco(1) \$1,250.00
(2) 1,730.00
(3) 820.00
(4) 1,200.00
(5) 1,300.00
- C. L. Snyder Co. San Jose (1) \$1,259.00
(2) 1,127.00
(3) 694.00
(4) 637.00
(5) 572.00
- C. A. Merritt & Son, San
 Jose(1) \$1,289.00
(2) 1,030.00
(3) 741.00
(4) 628.00
(5) 582.00
- W. F. Serpa, San Jose.....(1) \$1,340.00
(2) 1,030.00
(3) 1,292.00
(4) 638.00
- H. J. Pascoe, San Jose.....(1) \$1,343.00
(2) 1,156.00
(3) 770.00
(4) 610.00
(5) 556.00
- P. L. Burr, S. F.....(1) \$1,443.00
(2) 1,216.00
(3) 897.00
(4) 801.98
(5) 661.32

Bids held under advisement.

WHARVES AND DOCKS

Planned
 REMODELING Ccost, \$175,000
 FRESNO, Fresno Co., Cal.
 Remodel civic auditorium (work involves installation of new concrete balconies, fixed theatre seats on elevated platform to accommodate 1200, inside lobby, heating, cooling and ventilation system, exterior balcony, new maple flooring, terrazzo floors, tile and texture plaster, new drapes, lavatories, dressing rooms and kitchen).
 Owner—City of Fresno.
 Architect—Charles H. Franklin, T. W. Patterson Bldg., Fresno.
 Funds will be provided by means of a \$175,000 bond issue.

MEMBERS OF THE ASSOCIATED GENERAL CONTRACTORS

PACIFIC COAST AND INTERMOUNTAIN TERRITORY

CALIFORNIA STATE BRANCH

1151 South Broadway—Prospect 9107—Los Angeles

O. C. STRUTHERS, President

E. L. KIER, Vice-President
MELVILLE DOZIER, JR., Manager

GEORGE HERZ, Secretary

NORTHERN CALIFORNIA CHAPTER

351 California St.—Garfield 7107—San Francisco, Calif.

Geo. G. Pollock, President R. D. Watson, Vice-President
Floyd O. Booe, Secretary-Manager

Atkinson, Lynn S. (HPR).....
.....1316-17 Edwards & Wildey Bldg., L. A., Tr. 7451
Atkinson, Guy F., Co., Inc. (BHPR) 601 Russ Bldg., S. F., Sut. 3629
Ball, N. M. (HP).....1889 Yosemite Rd., Berkeley, AS. 6722
Basalt Rock Co., Inc. (H).....900 8th St., Napa, Napa 1344
Bechtel Co., W. A. (BHPR).....155 Sansome St., S. F., CA. 0780
Bevanda, M. J. (HP).....319 Elks Bldg., Stockton 7470
Bishop, E. B. (HP).....900 Forum Bldg., Sacramento, Capitol 2456
Bodenhamer Const. Co. (HPR).....
.....Box 643, 354 Hobart St., Oakland, Glencourt 5022
Calif. Const. Co. (BHPR).....715 Standard Oil Bldg., S. F., DO. 4820
Casson, Jack A. (HP).....Hayward, Calif., Hayward 856
Clark & Henery Const. Co. (HP).....564 Market St., S. F., DO. 2903
Conley, W. C. (HPR).....35 Northampton Ave., Berkeley, ASH. 1323
Conner, J. L. (HP).....P. O. Box No. 86, Monterey 1137-M
Connolly, T. E. (BHPR).....461 Market St., S. F., Kearny 6408
Conyes, R. A. (HPR).....1043 38th St., Oakland, Olym. 9391
Currie, James (HPR).....1100 Peninsula Ave., Burlingame, Burl. 3497
Delin, C. M. (HPR).....206 Sansome St., San Francisco, Gar. 7107
Dodge Bros., Inc. (HP).....Fallon, Nevada, Main 176-W
Drumm, A. D., Jr. (HP).....Fallon, Nevada, Main 44-W
Eaton & Smith (HPR).....715 Ocean Ave., San Francisco, DE. 6700
Fairbanks, A. J. & J. L., Inc. (HPR).....Linden Ave., So. S. F., 436
Fay Improvement Co., The (HPR).....Phelan Bldg., S. F., KE. 4044
Fitzmaurice, J. H. (HP).....2857 Hannah St., Oakland, Higate 2490
Force Const. Co. (HP).....70 Bellevue, Piedmont, Calif., HU. 9349
Franks Contractg. Co. (RPW), 260 California St., S. F., Doug. 6684
Frederickson Bros. (BHP).....First Natl. Bank Bldg., Stockton, 5974
Frederickson & Watson Const. (BPHR).....873 81st Ave., Oakland, SW. 1264
French, George J., Jr. (HP).....P. O. Box No. 675, Stockton, 6676
Gerwick, Ben C., Inc. (HP).....112 Market St., S. F., SU. 8454
Granite Construction Co. (BHPR).....Watsonville, California, 988
Harrahan Co. (HP).....Hobart Bldg., San Francisco, CA. 1639
Harney, Charles L. (HP).....74 New Montgomery St., S. F., GA. 1711
Hauser, W. H. (HPR).....3129 E. 7th St., Oakland, FRUITVALE 6790
Heafey-Moore Co. (HP).....344 High St., Oakland, AN. 0466
Hemstreet & Bell (HP).....411 "C" Street, Marysville, 433
Heple, Earl W. (BHPR).....494 Delmas Ave., San Jose, Bal. 5596
Hodgman & MacVicar (HP).....714 Plymouth, Pasadena, Mer. 1563
Holland, J. P., Inc. (HPR).....1834 McKinnon Ave., S. F., MI. 5400
Isbell Const. Co. (HP).....Carson City, Nev., Ph. 1754 (Also Fresno)
Jenkins, M. A. (HP).....3560 Y St., Sacramento Capital 472
Jones & King (HPR).....Hayward, Calif., Hay. 74
Kaiser Paving Co. (BHPR).....Latham Square Bldg., Oak., HI. 2614
Knapp, J. F. (HPR).....916 Financial Center Bldg., Oak., GL. 1620
Larsen Bros. (HP).....Galt, Calif.
Lee, U. B. (HP).....10059 Carpenter St., San Leandro, Sweet. 1717
Le Tourneau, R. G. (HPR).....122 Moss Ave., Stockton, 471
Lord & Bishop (HPR).....Native Sons Bldg., Sacramento, Main 3981
Lovell, Nate (HP).....3433 "N" St., Sacramento, Capital 1990
Malcom, C. T. (HPR).....Walnut Creek, Calif., W. C. 277
McDonald, D. (HPR).....204 23rd St., Sacramento, Cap. 1806
McGillivray Const. Co. (HPR).....Box 927, Sacramento, Capital 2170
McMillan, W. K. (HP).....2088 Howard St., San Francisco, MA. 3876
Mercer-Fraser Co. (BHPR).....Eureka, Eureka 808
Nevada Contracting Co. (HPR).....Fallon, Nevada, Phone 1851
Nevada Rock & Sand Co. (HP).....Reno, Nevada, Reno 5291
Nighbert, Fred W. (HP).....No. 10 "H" St., Bakersfield
Pacific Pavements Co., Ltd. (HP).....85 Barstow St., S. F., HE. 4178
Pacific States Construction Co. (HP).....Call Bldg., S. F., DO. 0879
Phillips, John, Co. (HP).....582 Market St., San Francisco, KE. 4471
Pollock, Geo., Co. (HPR).....P. O. Box 903, Sacramento, Main 1457
Rohl, H. W., Co. (HPR) 4351 Alhambra Ave., Los Angeles, CH. 6141
Six Companies, Inc. (BHPR) Financial Center Bldg., S. F., Gar. 3842
Siems-Helmets, Inc. (BHPR).....206 Sansome St., S. F., EX. 5140
Skeels & Graham Co. (HPR).....P. O. Box 576, Roseville, Calif.
Tedford, J. N. (HP).....Fallon, Nevada, Main 461
Teichert, A., & Son, Inc. (HP) 1846 37th St., Sacramento, Main 6586
Tieslau Bros. (HP).....2819 Grove St., Berkeley, BE. 8635
Tucker, H. V., Co. (HP).....300 Vermont St., S. F., MA. 7583
Ulrich Const. Co., Geo. J. (BHP).....Modesto, Modesto 921
Von der Hellen & Pierson (HPR).....Castaic, Calif.
Ward Engineering Co. (HP) 315 Montgomery St., S. F., Doug. 6072
Wood, C. W. (HP).....P. O. Box 1435, Stockton, 8743
Young, Clarence (HP).....5250 Broadway Ter., Oakland, OL. 3743
Young & Son Co., Ltd. (HP) 599 Colusa Ave., Berkeley, Berk 5551

Associate Members

American Bitumuls Co. (Bitumuls).....200 Bush St., S. F., GA. 6653
Anderson Bros. Supply Co. (Commissary).....Boulder City, Nev.
Andrews, F. T., Co. (C. P. A.).....1922 Russ Bldg., S. F., SU. 0832
Associated Oil Co. (Asso. Prod.).....79 N. Mont'y St., S. F., KE. 4800
Austin Western Road Machinery Co. (Road Machinery).....
.....435 Brannan St., San Francisco, DO. 2183
Autocar Sales & Service Co. (Autocar Trucks).....
.....1020 Harrison, San Francisco, UN. 4545
Bacon, Edward R., Co., (Road Machinery).....
.....Folsom and 17th Sts., San Francisco, HE. 3700
Blake Bros. Co. (Crushed Rock).....Balboa Bldg., S. F., KE. 5320
Calaveras Cement Co.....315 Montgomery, San Francisco, DO. 4224
California Corrugated Culvert Co. (Corrugated Pipe).....
.....5th & Parker, West Berkeley, BE. 5420
Cement Gun Construction Co. (Gunite).....
.....55 Second St., San Francisco, SU. 8306
Contractors' Ins. Agency (Insurance) 206 Sansome, S. F., SU. 3400
Cowell Lime & Cement Co. (Cement).....2 Market St., S. F., GA. 4870
Geiger Iron Works (Equip.).....P. O. Box 423, Stockton, Stock. 1898
Granite Rock Co. (Crushed Rock).....Watsonville, Wat. 986
Harneschfeger Sales Corp. (Equip.).....82 Beale St., S. F., DO. 2313
Harron, Rickard & McCone Co. (Equip.).....
.....1600 Bryant St., San Francisco, UN. 3740
Link-Belt Co. (Equip.).....400 Paul Ave., San Francisco, DE. 6400
Marion Steam Shovel Co. (Power Shovels).....
.....571 Howard St., San Francisco, KE. 7493
Modern Vehicle Co. (Mfrs. Steel Dump Bodies).....
.....437 4th St., San Francisco, GA. 1402
Murray & Ready (Labor Agency) 784 Howard St., S. F., SU. 1205
Northwest Engineering Co. (Shovels).....23 Main St., S. F., SU. 7053
Pacific Coast Aggregates.....700 Wells Fargo Bldg., S. F., SU. 8940
Pacific Coast Engineering Co. (Structural Steel).....
.....Foot of W. 14th St., Oakland, HI. 1322
Pacific H. B. A. Steel Co., Inc. (Drill Steel).....
.....540 Brannan St., San Francisco, GA. 6683
Pacific Portland Cement Co. (Golden Gate).....
.....Hunter-Dulin Bldg., San Francisco, GA. 4100
Pland-Evans (Commissary).....Merchants' Ex. Bldg., S. F., GA. 5923
Robinson Tractor Co. (Caterpillar Tractors).....
.....1705-09 E. 12th St., Oakland, FR. 2485
.....1175 Howard St., San Francisco
Roebbling's, Jno. A., Sons Co. (Wire Rope).....
.....646 Folsom St., San Francisco, GA. 6490
Santa Cruz Portland Cement Co. (Santa Cruz).....
.....Crocker Bldg., San Francisco, GA. 3307
Shell Oil Co. (Shell Products).....100 Bush St., S. F., EX. 5400
Soule Steel Co. (Reinforcing Steel).....1750 Army St., S. F., VA. 4141
Spears-Wells Machinery Co. (Equip.) 1832 9th St., Oak., HO. 4100
Standard Oil Co. of Calif. (Standard Products).....
.....Standard Oil Bldg., San Francisco, SU. 7700
Traffic Service Bureau (Freight Audits) 24 Calif. St., S. F., GA. 6194
Union Oil Co. of Calif. (Union Prod.) Mills Bldg., S. F., SU. 1400
United Commercial Co., Inc. (Equip.) 234 Steuart St., S. F., DO. 0430
Western Pipe & Steel Co. (Steel Pipe) 444 Market, S. F., GA. 6788

SOUTHERN CALIFORNIA CHAPTER

1151 South Broadway, Suite 350—Prospect 9107
Los Angeles, Calif.

Lynn S. Atkinson, President F. C. Connolly, Manager
Stephen M. Griffith, Vice-Pres. C. C. Fitzgerald, Secty.-Treas.

The address of the firm is the same city in which is located the Chapter office unless otherwise shown in membership list.

Building Contractors

Atkinson, J. F.1102 Story Bldg., VANDIKE 7783
Baruch Corp., Herbert M.1015 Lincoln Bldg., TRINITY 5473
Bradley Constr. Co., K. R.1833 West Pico, WASHINGTON 2786
Burgin, W. Jay.1100 Redondo Ave., Long Beach, L. B. 81103
Byerts & Dunn.7908 Santa Monica Blvd., CRESTVIEW 9602
Clinton Construction Co., 1103 Spring Arcade Bldg., MADISON 2597
Crowell, Wm. C.495 S. Bdwy., Pasadena, WAKEFIELD 6692
Crowell Co., Weymouth.2104 E. 15th St., WESTMORE 5708
DeCamp-Hudson Co., Ltd.1277 W. 24th St., WESTMORE 3382
Dixon, L. E., Co.609 So. Grand Ave., TRINITY 4925
Escherich Bros.234 W. 37th Place, ADAMS 6294

Class of Construction: (B) Building; (H) Highway; (P) Public Works; (R) Railroad.

Hall, J. F.	531 Douglas Bldg.,	MUtal	6722
Houghton & Anderson	143 Rose St.,	MUtal	5430
K. P. Lowell & Co., Ltd.	606 Union Bank Bldg.,	VAndike	4072
Macdonald & Driver	311 Board of Trade Bldg.,	TUcker	6467
McKee, Robert E.	1128 Central Bldg.,	TRinity	0291
Miller, Geo. E.	401 N. Canon Dr.,	B. H.,	OXford 7404
Simpson Construction Co.	1007 Architects Bldg.,	MUtal	7261
Snell, Fred C.	339 N. Beverly Dr.,	Beverly Hills,	OXford 6409
Willard-Brent Co.	254 E. 27th St.,	Richmond	2101

Bridges, Foundations

Ledbetter Co., W. M.	Box 1264, Arcade St.,	CApitol	13415
Oberg Brothers	707 San Fernando Bldg.,	ANGelus	8759
Raymond Concrete Pile Co.	1008 Washington Bldg.,	VANDike	6536

Highways, Paving, Grading

Basich Bros.	Torrance, Gardena	446	
Bock, Geo. J.	1007 S. Harvard, E	MPire 7614	
Donovan & Sons, J. G.	4031 Goodwin Ave.,	OLympic 0243	
Ferry, Peter L.	San Fernando Rd. and	Bdwy., Glendale, OL	0164
Fleming Construction Co.	Pomona		
Griffith Company	L. A. Railway Bldg.,	WEstmore 9343	
Hall-Johnson Co.	P. O. Box 387, Alnambra,	ELiot 1855	
Herz & Co., Geo.	310 Platte Bldg.,	San Bernardino, S. B.	241-42
Heuser, Chas. U.	316 Allen Ave.,	Glendale, DOuglas	3965
Hudson, Chas. H.	408 Rives-Strong Bldg.,	VANDike	3374
Jahn & Bressi	701 Lane Mortgage Bldg.,	TRinity	8674
Lang Transportation Co.	5501 Santa Fe Ave.,	JEfferson	3104
Lewis Construction Co.	300 S. Juanita St.,	WAshington	1407
Packard & Tanner	905 W. Latham St.,	Phoenix, Ariz.	
Pearson & Dickerson	4485 Cypress, Riverside,		1600
Ross, M. S.	4011 Goodwin Ave.,	CApitol	7603
Wells & Bressler	P. O. Box 596, Santa Ana,		227
Willis, C. G., & Sons, Inc.	2119 E. 25th St.,	LAfayette	9826

Pipe Lines, Water Works

American Concrete Pipe Co.	P. O. Box 1428, Arcade Sta.,	JE.	4211
Haverty Co., Thos.	316 E. 8th St.,	VANDike	1171
United Concrete Pipe Co.	Box 1, Station H. L. A.,	TWinoaks	9196

Subways, Conduits

Delta Construction Co.	P. O. Box 79, Compton	
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General Engineering

Atkinson, Lynn S.	609 S. Grand, TRinity	7451
Bartmus, Peter	Hollywood Riviera, Redondo,	Redondo 6404
Bent Bros., Inc.	418 S. Pecan S.,	ANGelus 7510
Campbell-Reichert Co.	4000 Whiteside Ave.,	ANGelus 0598
Cox, R. L.	1100 Westminster, ALhambra	1699
Emsco Conc. Cutting Corp.	1517 Santa Fe Ave.,	VANDike 7168
Fitz-Gerald Eng. & Constr. Co.	216 Rowan Bldg.,	TRinity 5088
Foley, D. A., Constr. Co.	716 Grant Bldg.,	TUcker 7814
Kemper Const. Co., Ltd.	3701 Overland, Los Angeles	
Macco Construction Co.	Hynes, JEfferson	1148
Merritt-Chapman-Scott Corp.	P. O. Box 507, San Pedro,	
Mittry Bros. Construction Co.	722 Detwiler Bldg.,	VANDike 0210
Morrison-Knudsen Co.	411 West Fifth St.,	MUtal 7684
Robinson-Roberts Co.	706 Rives-Strong Bldg.,	TRinity 2889
Spicer, C. A.	818 Financial Center Bldg.,	TUcker 9570
Standard Dredging Co.	325 Central Bldg.,	TRinity 3253
Watson, R. A.	1026 N. McCadden Pl.,	GRanite 4121

Affiliates

Brashears & Co., G.	501 Security Bldg.,	TRinity	5091
Consolidated Rock Prod. Co.	656 S. Los Angeles St.,	TRinity	0241
Gilmore Oil Co.	2423 E. 28th St.,	JEfferson	1211
Graham Brothers	1215 W. 7th St., Long Beach,	L. B.	65251
Hartford Accident & Ind. Co.	548 S. Spring St.,	MAdison	1471
L. A. Brick Co.	1078 Mission Road,	ANGelus	5684
Sun Lumber Co.	Crescent Drive, Beverly Hills,	OXford	6191
Union Oil Co.	Union Oil Bldg.,	TUcker	7211

ALAMEDA COUNTY CHAPTER

354 Hobart St., Rm. 410—GLencourt 7400—Oakland, Calif.

S. G. Johnson, President

H. J. Christensen, Treasurer

Geo. J. Maurer, Vice-President

W. E. Hague, Manager

Brennan, J. P. (B)	2820 Regent, Berkeley, BE.	0346
Christensen, H. J. (B)	1924 Broadway, Oakland, LA.	7164
DeVelbiss, C. Dudley (B)	369 Pine St., S. F.,	GA. 3225
Dyer Construction (B)	337 17th St., Oakland, GL.	3203
Furlong, Thos. H. L. (B)	460 Jerome Ave., Piedmont, HU.	0620
Jacobs & Pattiani (BP)	337 17th St., Oakland, GL.	3203
Johnson, S. G. (B)	4652 Dolores Ave., Oakland, FR.	6650
Keating, W. C. (B)	925 Forum Bldg., Sacramento	
Lesure, E. T. (B)	87 Ross Circle, Oakland, OL.	0389
Littlefield, R. W. (B)	337 17th St., Oakland, HI.	0994
Lyons, W. E. (B)	354 Hobart St., Oakland, HO.	5325
Maurer, George J. Co. (B)	50 York Drive, Oakland, HU.	3457
Nordstrom, David H. (B)	354 Hobart St., Oakland, GL.	7400
Pedgrift, James H. (B)	4106 Broadway, Oakland, HU.	1300
Petersen, George (B)	1841 Bancroft, San Leandro, TR.	2043
Petersen, James B. (B)	4021 Agua Vista, Oakland, FR.	9887
Schultz, Herbert (B)	811 Mendocino, Berkeley, AS.	2360
Sullivan & Sullivan (B)	2653 Best Ave., Oakland, AN.	4724
Thornally, W. C. (B)	354 Hobart St., Oakland, GL.	8476
Westlund, Fred J. (B)	625 40th St., Oakland, OL.	7446

Associate Members

Calaveras Cement Co.	315 Montgomery St., San Francisco
Cowell, Henry, Lime & Cemt. Co.	81 Franklin St., Oakland, HI. 3398
East Bay Glass Co.	621 Sixth St., Oakland
Lannom Bros. Mfg. Co.	Fifth and Magnolia Sts., Oakland
Maxwell Hardware Co.	1320 Washington St., Oakland
Melrose Building Materials Co.	4591 Tidewater Ave., Oakland
Oakland Planing Mill	Second and Washington Sts., Oakland
Pacific Portland Cement Co.	111 Sutter, San Francisco, CA. 4100
Santa Cruz Portland Cement Co.	354 Hobart St., Oakland
Sunset Lumber Co.	400 High St., Oakland
Tilden Lumber Co.	Foot of University Ave., Berkeley

SAN DIEGO CHAPTER

Spreckels Theater Bldg.—Main 4289—San Diego, Calif.

George R. Daley, President

M. A. Mathias, Manager

M. H. Golden, Vice-President

Carroll, B. G.	4396 Maryland St., Hillcrest	5274-M
Daley Corporation (HP)	4430 Boundary St., Randolph	1136
Dennis Constr. Co., V. R. (HP)	Box 183, Sta. A, Hillcrest	8293
Ford, E. Paul (HP)	Box 201, E. San Diego, Randolph	5101
Golden, M. H. (B)	404 California Bank Bldg., Franklin	7983
Grove, Cecil B.	4316 Island Ave., Franklin	7474
Hazard Constr. Co., R. E. (HP)	2508 Kettner Blvd., Franklin	6315
Jarboe Constr. Co. (B)	208 Spreckels Theatre Bldg., Franklin	3792
Kier Const. Co., W. E. (B)	First National Bank Bldg., Main	2427
Larsen, B. O. (B)	1340 E St., Main	4752
Miracle Constr. Co. (HP)	Box 601, E. San Diego, Main	2295
Penick & Sons, T. B. (HP)	3075 L St., Main	4582

PACIFIC NORTHWEST BRANCH

4134 Arcade Building, Seattle, Wash.

J. C. Compton, President

H. V. BOGERT, Rec. Secretary

J. B. WARRACK, Treasurer

P. L. CROOKS, Vice-Pres. and Secretary

PORTLAND CHAPTER

Multnomah Hotel—Atwater 7883—Portland, Ore.

Paul L. Crooks, President

Ross B. Hammond, 2nd Vice-Pres.

Carl Schram, 1st Vice-President

J. A. Lyons, Treasurer

G. B. Herington, Executive Secretary

Baker Construction Co. (B)	Security Bldg., Atw.	9211
Christensen, Fred, Inc. (BHP)	187 E. 34th St., Ea.	8934
Cochrane Construction Co. (HP)	65th & Ainsworth, Tr.	5944

Class of Construction: (B) BUILDING; (H) HIGHWAY; (P) PUBLIC WORKS; (R) RAILROAD.

Compton, J. C. (HP)	McMinnville, Ore., McM.	106
Crooks, P. L., Inc. (HPR)	Henry Bldg., Atw.	7767
Dann, J. J. (PHR)	300 Henry Bldg., Atw.	5837
Edlfsen-Weygandt Co. (HP)	Foot of Jefferson, Atwater	4090
Endicott, Wm.	Corvallis, Oregon	
Gates, E. L. (HPR)	Eugene, Oregon	
Gilpin Construction Co. (HPR)	Henry Bldg., Atw.	6220
Greenwood, A. C. (HPR)	500 N. Front St., Br.	3030
Guthrie & Co., A., Inc. (BPHR)	552 Sherlock Bldg., Atw.	8316
Hammond, Ross B. (B)	1312 Public Service Bldg., Atw.	2159
Hauser Bros. Construction Co. (PHR)	Multnomah Hotel, Atw.	7441

Hoffman, L. H. (BP)	Public Service Bldg., Atw. 3181
Jacobsen-Jensen Co. (PH)	407 Stanton, Gar. 3313
Johnson Contract Co. (HPR)	414 Exchange Bldg., Atw. 0678
Johnson Gardner Co. (HPR)	414 Exchange Bldg., Atw. 0678
Kern & Kibbe (HPR)	290 E. Salmon St., Ea. 4116
Kernan, F. J.	Porter Bldg., At. 2035
La Pointe Constr Co.	1291 Cumberland Rd., Be. 6000
Lindstrom & Feigenson (BPHR)	1991 Halsey St., Ta. 9226
Lyons, J. A. (BPHR)	1001 Halsey St., Tr. 2841
Milne Constr. Co.	1853 E. Broadway, Tab. 7277
Morrison & Knudsen (BHPR)	319 Broadway, Boise, Idaho
Morgan, T. M. (H)	5410 Wilshire Blvd., Los Angeles
Newport Construction Co. (PHR)	317 Exchange Bldg., Atw. 5900
Pacific Bridge Co. (BPHR)	Ft. of E. Salmon St., Ea. 2164
Parker & Banfield (BP)	984 E. 17th St., Sel. 6182
Parker-Schram Co. (PHR)	Couch Bldg., Atw. 4375
Peck, E. C., & Co. (PH)	Aberdeen, Wash.
Puckett, W. H. Co. (PHR)	319 Broadway, Boise, Idaho
Quinn, J. L. (B)	Box 1109, Klamath Falls, Ore.
Rebman, J. (PH)	343 Vancouver Ave., Tr. 7825
Robertson, Hay & Wallace (B)	605 Weatherly Bldg., Ea. 3613
*Saxton & Looney	Corvallis, Ore.
Seed, John S. (B)	201 Worcester Bldg., Atw. 6444
	Honorary Member and Director of Chapter
Shea & Co., J. F. (PHR)	211 Henry Bldg., Atw. 2435
Sullivan & Doyle (PHR)	Ft. of Curry St., Atw. 5297
	Box 104, Portland, Ore.
United Contracting Co. (BPHR)	309-10 Stock Ex. Bldg., Atw. 5296
von der Hellen & Pierson (HR)	Naches, Wash.
White, Ernest & Co. (B)	Twin Falls, Idaho
Wren & Greenough (PHR)	485 28th St.
Wright Constr. Co. (BPH)	Aberdeen, Wash.
Young, I. L. (BPH)	524 Henry Bldg., At. 0247

Associate Members Portland Chapter

Balzer Machinery Co.	275 Pine St., Atw. 9391
Beall Pipe & Tank Co.	85 Columbia Blvd., Wa. 3171
Clyde Equipment Co.	555 Thurman St., Br. 5561
Collins Concrete Pipe Co.	410 River St., Wa. 7670
Feenaughty Machinery Co.	309 E. Yamhill, Ea. 2187
Grand Sheet Metal Works	60 E. Third N., Ea. 2181
Lature, J. L. Equip. Co.	312-314 E. Madison St., Ea. 8166
Loggers & Contractors Machy. Co.	345 E. Madison St., Ea. 4128
Metropolitan Casualty Ins. Co., The	Wilcox Bldg., Atw. 7521
National Hospital Assn.	400 Mohawk Bldg., Atw. 5291
Oregon Portland Cement	321 E. Madison, Ea. 3116
Phoenix Iron Works	360 Hawthorne, Ea. 0029
Pomeroy, J. H., & Co.	Box 48, Seattle, Wash.
Pure Iron Culvert & Mfg. Co.	763 Gladstone, Sel. 2275
Santa Cruz Portland Cement	45 Fourth St., Atw. 9848
Standard Oil Co.	Pacific Bldg., Bea. 4161
Swigert, Hart & Yett.	Ft. of E. Salmon St., Lan. 1125
Union Oil Co. of California	Yeon Bldg., Atw. 9521
Wallace Bridge & Structural Steel	P. O. Box 48, Seattle, Wash.
Shell Oil Co.	Commerce Bldg., At. 7321

SPOKANE CHAPTER

West 515 First Avenue—Main 6822—Spokane

Max J. Kuney, President	I. G. Anderson, Vice-President
Nick Norman, Vice-President	Dan Hannah, Secty.-Treas.
Alloway & Georg (B)	Hutton Bldg.
Auld & Shinn (B)	1121 Indiana
Burnette, C. A. (H)	1118 Ide Ave.
Byers, W. A. (H)	W. 1204 Mansfield
Clifton & Applegate (HPR)	Hutton Bldg.
Collins, J. H. & Co. (H)	Colville, Wash.
Colonial Building Co. (BH)	Hutton Bldg.
Crick, James (H)	Realty Bldg.
Degerstrom, N. A. (HPR)	Peyton Bldg.
Edwards, J. E. (H)	S. 1423 Adams
Geist, W. L. (H)	W. 444 23rd Ave.
Hansen Construction Co.	Opportunity
Harding, Geo. (H)	Walla Walla, Wash.
Hargrave Construction Co. (H)	W. 418 Twentieth
Hewett, F. R. (H)	W. 420 Twenty-second
Joslin & McAllister (H)	East 3038 Trent Ave.
Kuney, Max J. (H)	Hutton Bldg.
Larson Bros. (B)	Hyde Bldg.
Long, Oliver J. (H)	W. 1924 Mansfield
Lyon & Price (H)	W. 503 Fourteenth
March Construction Co.	W. 1002 Riverside, Spokane

Martin, F. E. (B)	Galax Hotel
McLellan, A. (B)	E. 932 Ermlna
Medby, M. C. (B)	S. 3614 Arthur
Meyers, W. G.	S. 2217 Tekoa St.
Morin, S. G. (B)	S. 309 Bernard
Norman, Nick (B)	231 Waverly Place
Nyberg, Carl (H)	Realty Bldg.
Orino, Sam (H)	E. 3104 Boone
Payne, Mrs. C. M.	N. 2602 Hamilton St.
Power, C. A. (H)	S. 1703 Grand
Siems, Spokane Co. (BPHR)	Realty Bldg.
Standard Asphalt Paving Co. (HPR)	Chronicle Bldg.
Sullivan, D. A., & Co.	415 Sprague Ave.
Terteling, J. A., & Sons (HPR)	511 Sound Ave.
Tobin, James, & Son (H)	West 1715 Pacific Ave.
True-Construction Co. (H)	W. 1220 Ide
True-House Construction Co. (B)	No. 121 Browne
Wheeler & England (HP)	Coeur d'Alene, Idaho
Young, Peter J. (B)	S. 11 Cedar St.

Associate Members

Beall Pipe & Tank Corp.	West 615 Main Ave.
Brandt Bros.	W. 14 Main Ave.
Coeur d'Alene Hardware & Foundry	Wallace, Idaho
Commercial Importing Co.	617 Western Ave., Seattle, Wash.
Consolidated Supply Co.	W. 1310 Ide Ave.
Construction Equipment Co.	1118 Ide Ave.
Feenaughty Machinery Co.	N. 715 Division St.
W. P. Fuller & Co.	N. 229 Post St.
General Machinery Co.	E. 3501 Riverside
Gladding-McBean & Co.	524 Old National Bldg
Haweey Fuel Co.	N. 740 Division St.
Hofius-Ferris Equipment Co.	W. 728 Mallon
Marshall Wells Co.	S. 157 Howard
Jones & Dillingham Co.	W. 715 First Ave.
Jones & Mitchell	Hutton Bldg.
Long Lake Lumber Co.	N. 348 Wall St.
W. S. McCrea & Co.	212 Symons Bldg.
J. E. McGovern Co.	550 Peyton Bldg.
Nott-Atwater Co.	S. 157 Monroe St.
Oriental Importing Tea & Coffee Co.	W. 917 First
Spokane Concrete Pipe Co.	N. 2627 Dakota
Spokane Culvert & Tank Co.	N. End Division Street Bridge
Spokane Paper & Stationery Co.	S. 152 Jefferson
Standard Oil Co. of Calif.	Old National Bldg.
Union Oil Co.	611 Chronicle Bldg.
Washington Brick, Lime & Sewer Pipe Co.	S. 151 Washington St.
Washington Machinery & Supply Co.	W. 9 Cataldo

MOUNTAIN PACIFIC CHAPTER

(Strictly a Public Works Chapter, practically every member carrying on highway, public works and railroad construction)

Washington Hotel—Seattle, Wash.

John W. Rumsey, President	Lee Johnson, Secretary, Treasurer
John M. Clifton, Vice-President	James D. Brown, Manager
Allen & Goven	Olympia, Wash.
Barnard Curtiss Co.	Ellensburg, Wash.
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Coyle Construction Co.	901 Westlake N., Seattle, Gar. 5741
N. A. Degerstrom	444 Peyton Bldg., Spokane
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Hargrave Construction Co.	W. 418, 20th Ave., Spokane
Hendricks & Co.	Chehalis, Wash.
F. R. Hewitt	420 W. 22nd, Spokane, Riv. 7554
Johnson, Homer G.	Perkins Hotel, Portland
Joslin & McAllister	Spokane, Wash.
Lee H. Johnson	920 N. Tacoma Ave., Tacoma, Ma. 6241
Lidral, Wiley	Securities Bldg., Seattle
Lyon & Price	503 W. 14th, Spokane, Riv. 5319-R
Norris Bros.	Burlington, Wash.
Chas. A. Powers	S. 1703 Grand, Spokane, Riv. 3640
Puget Sound Bridge & Dredging Co.	Seattle, El. 7300
Puget Sound Construction Co.	Colman Bldg., Seattle, El. 7311
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Rumsey & Co.	Lumber Exchange Bldg., Seattle, Ma. 8751
Standard Asphalt Co.	Chronicle Bldg., Spokane, Wash., Ma. 1689
von der Hellen & Pierson	Enumclaw, Wash.
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Vandenburgh, Geo. H.....7612 Linden Ave., SU. 6392
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Zeberg, Louis.....9274 52nd Ave., South, RA. 0815

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Nordquist & Nelson, Inc.....120 W. Nickerson, Ga. 7173
Pacific Door & Mfg. Co.....7th S. and Charleston, Cl. 0410

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*Compton, J. C. (HPR).....McMinnville, Oregon
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Gibbons & Reed (HP).....165 East 4th South, Was. 1238
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Building and Engineering News

IN THIS ISSUE



Constructor To Be Issued Weekly

Effective with the next issue, PACIFIC CONSTRUCTOR will be published weekly. The first issue on a weekly schedule will appear under date of February 11. The magazine will be delivered to subscribers thereafter each Saturday.

\$500,000,000 NEEDED FOR GRADE SEPARATION

SOME PHASES OF THE 1932 INCOME TAX LAW

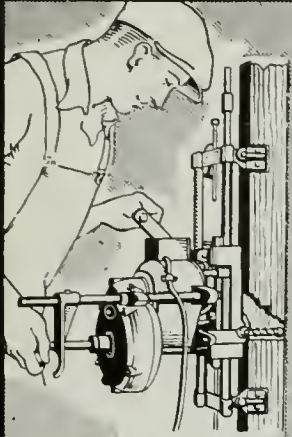
By FRANK T. ANDREWS
(PART VI)

BUILDING AND ENGINEERING NEWS

UNIT BID PRICE REVIEW



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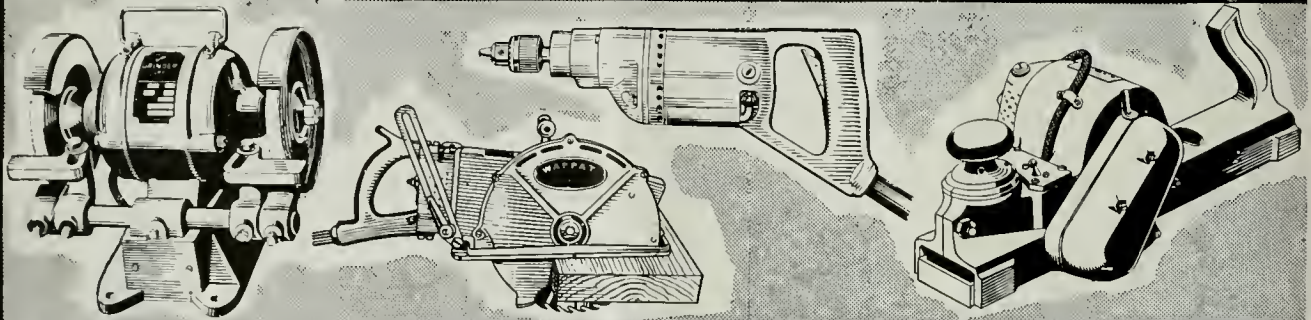
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With which is Consolidated Building and Engineering News

Official Publication of the Associated General Contractors of America
for the Eleven Pacific Coast States

SAM B. EUBANKS, *Editor*

S. P. McCASLAND, *Assoc. Editor, Am. Soc. C. E.*

Vol. 16.

SAN FRANCISCO, CALIF., FEBRUARY 1, 1933

No. 3

Editorial Comment

GAS TAX RAID THREAT TO FEDERAL ROAD AID

FEDERAL aid in highway construction, of which California receives a sum amounting to millions of dollars each year, might be jeopardized to a considerable degree if pending proposals to raid the gasoline tax for the benefit of the state general fund are not defeated. This phase of the gasoline tax diversion situation is emphasized in a statement by the California State Automobile Association, which is leading a statewide effort in opposition to proposals to divert approximately \$17,000,000 in gasoline tax money from the highway fund to the general fund.

"There is danger that California's position with respect to federal aid appropriations for highway work would be seriously weakened if the state should divert its own highway money to general governmental expense instead of applying the money to its pledged purpose of highway maintenance and construction," the statement says.

"California cannot misuse its highway funds in the flagrant way now proposed and still hope to approach federal aid with clean hands."

Last year federal aid appropriations received by California amounted to \$4,100,000.

Proposals pending before the State Legislature provide for taking \$8,779,750 of gasoline tax money immediately from the highway fund and placing it in the general fund, and for a further diversion of \$8,500,000 during the 1933-35 biennium.

The plan is being fought by the Automobile Association and Automobile Club of Southern California on behalf of organized motorists. Supporting the stand of the clubs, formal resolutions opposing diversion of the gasoline tax have been adopted by a wide array of civic and commercial organizations and official bodies.

CONSTRUCTOR TO BE ISSUED EACH WEEK

Effective with the next issue, **PACIFIC CONSTRUCTOR** will be published weekly. This increase in frequency of publication is made in order to meet a demand in the construction industry for a western weekly review of building and engineering news.

The first issue on a weekly schedule will appear under date of February 11. The magazine will be delivered to subscribers thereafter each Saturday.

There will be no change in subscription price, style or editorial policy.

IS AMERICAN INITIATIVE A MYTH?

PEOPLE of the United States have a reputation for initiative and enterprise.

They start things and they finish them.

They have a chance now to demonstrate their ability as never before.

Everyone is waiting for "business to pick up." But business won't pick up of its own accord. It will pick up when the desire and the determination to do something rises again in our national consciousness.

There are about 25 or 30 million families in the United States. This means that there are some 30 million men who are actual producers.

Payrolls depend on construction activity — the building and upkeep of homes, factories and enterprises which consume every imaginable product.

Building has been going down steadily for the past several years until it has become almost stagnant. Thousands of structures are deteriorating because of lack of repairs, paint, rotting foundations, leaky plumbing, worn out heating plants, crumbling chimneys and a thousand and one other things which have been let go.

Never in years could repair work or new construction be done as cheaply as today. There are millions of individuals and industries in this country that have savings and are well able to carry on necessary improvements now. Starting a few million jobs, varying in amounts from ten dollars to a few thousand dollars each, would release an avalanche of money and start the wheels of industry. Employment would increase; our nation would take heart and commerce and industry would slowly regain in normal stride. Before long this improvement would be reflected in other nations.

No amount of legislation or political panaceas involving increased taxation and greater public burdens, can do a fraction of the good that the people can do for themselves by exercising our much prized American initiative and enterprise.

Do it now! Investment and employment are cheaper than charity!

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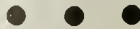
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Estimate \$500,000,000 Necessary for State-wide Grade Separation Program

SEPARATION of grades at 7,997 points where streets and highways cross railroad tracks in the state is practical, finances permitting, says a report of the California State Railroad Commission.

The number of actual grade separations in the state on January 1, 1933, was 578 which were constructed at an expenditure of approximately \$21,000,000.

The total cost of grade separation structures in all grade crossings in California where separation is practical is estimated for steam railroads at \$359,184,000 and for electric interurban railroads at \$142,240,000, a total of \$501,424,000.

The annual cost of such a grade separation program, including interest, depreciation and maintenance would be \$34,300,000.

Results of the joint study undertaken by the railroad commission and the state department of public works have been presented to the state legislature.

In conclusion the report says:

"It is apparent that we cannot hope to eliminate all the grade crossings in this state within any reasonable period which we can now forecast. However, records show that the grade crossing situation being constantly improved, as is evidenced by a decrease in the number of accidents occurring at railroad crossings; notwithstanding the fact that the total number of accidents occurring on public highways is generally increasing.

"It is apparent that the grade crossing problem is one which presents many possibilities of treatment with varied expenditures. In formulating any comprehensive plan of grade crossing improvement, the important object is to effect a plan whereby the public will receive the greatest benefits from the money to be invested. Various surveys show that many of the existing crossings could reasonably be closed for want of sufficient public necessity for their existence to justify the expense necessary to provide for their protection or separation. This is particularly true of crossings of public highways with railroads within cities.

"It is not proper to assume all grade crossings should be eliminated, as there are cases where the enormous expense of such an improvement, particularly in developed business sections, could not be justified by the benefits to be derived."

The report discusses present methods of protection at grade crossings in detail. It points out that the records of the Interstate Commerce Commission show that for Class I Steam Railroads, as of December 1, 1931, approximately 21 per cent of the grade crossings in California were provided with some form of special protection, whereas on the average throughout the United States, 13 per cent were specially protected.

The report estimates that it would cost over \$10,000,000 to provide double automatic signals at crossings not now provided with special protection, and that the total annual maintenance cost of these protective devices would be nearly \$800,000.

If a second automatic signal were added, where only

one is now maintained, the cost of such additional installation would be approximately \$900,000 and annual maintenance costs at these crossings would be increased by over \$40,000.

The report calls attention to the fact that approximately 64 per cent of the grade crossing accidents in 1931 occurred at unobstructed crossings, and 60 per cent occurred at crossings provided with special protection.

The total installation cost of all classes of protective devices now installed at grade crossings on both steam and electric railroads is given as \$2,444,859. The annual maintenance cost of these devices is \$657,322.

Distributing the now existing crossings and estimated separation costs of those practical to separate on the basis of the political units having jurisdiction over them, the report gives the following figures:

Cities: Number of crossings, 6,355; number impractical to separate or close, 2,200; number practical to close by realignment or through lack of necessity for their use, 1,127; number practical to separate, 3,028; estimated first cost of separation, \$259,133,000; total annual cost, \$17,750,000.

County Highways: Number of crossings, 5,518; impractical to separate or close, 103; practical to close, 661; practical to separate, 4,751; total estimated cost of separation, \$222,161,000; total annual cost, \$15,220,000.

State Highways: Number of crossings, 229; practical to close, 11; practical to separate, 218; total cost of separation, \$20,130,000; total annual cost, \$1,370,000.

The report states that as of January 1, 1932, there were 578 grade separations in California.

An analysis was made of the cost of 424 of these structures, showing their total cost to have been \$20,764,597. Of this cost approximately 55.31 per cent was borne by the common carrier railroads, 19.76 per cent by incorporated cities, 11.86 per cent by counties, and 13.07 per cent by the State.

An interesting fact developed in the report is that separation of grades between railroads and highways began in California in 1869 with the construction of the first continental railroad in California.

Progress in recent years in California in grade crossing separation work is reviewed as follows:

"During the seven-year period ending December 31, 1931, 161 grade separations were constructed in California at a total cost of \$8,650,000. This is an average of 23 grade separations per year, involving an expenditure of some \$1,235,000, of which approximately 41 per cent was borne by the railroads, 26 per cent by the State, 8 per cent by the counties and 25 per cent by incorporated cities. The average cost per crossing over this period amounted to \$53,700.

"In addition to the separations referred to above, 5 bridges were constructed across the Los Angeles River during this seven-year period, which involved grade separations over the adjacent tracks of The Atchison, Topeka and Santa Fe Railway Company, located on the west bank, and the Los Angeles and Salt Lake Railroad Company on the east bank. These five viaducts cost nearly \$7,000,000, or an average of \$1,400,000 per structure."

Some Phases of the 1932 Federal Income Tax Law

FRANK T. ANDREWS, *Certified Public Accountant; Associate Member, Associated General Contractors*

The following is the sixth of a series of eight articles outlining Income Tax Regulations of interest to every contractor.

THERE are a few forms that the Government requires to be filed each year in addition to ordinary income tax returns. Attention is directed to these forms principally because some changes with respect to the necessity of filing have been made and because, in some instances, a penalty attaches if the returns are not filed.

A corporation, partnership or individual making payment to another person during the year of fixed or determinable income of \$1000 or more in the case of a single person or \$2500 or more in the case of a married person, must file a return of such payments on Treasury Department Form 1099.

Payments of "fixed or determinable" income have reference, under certain conditions, to disbursements such as wages, rents, royalties, annuities, interest, commissions, etc.

A separate return on Form 1099 must be made by the employer for each employee, where a married individual was paid a salary of \$2500 a year or more and where a single individual was paid \$1000 or more.

Payments made to employees as compensation under workmen's compensation acts for personal injuries or sickness do not have to be reported.

Payments of rentals or royalties direct to property owners must be reported. Form 1099 is not required where rents or royalties are paid through an agent.

Bills paid for materials or for ordinary business expenses do not have to be reported. However, payments of interest to individuals, in excess of the exemptions, must be returned.

Payments to corporations or for professional fees or as distributions by a partnership to the individual partners need not be reported.

If the material status of the payee is unknown, the payee is considered a single person for the purpose of filing a return of information on Form 1099.

When a partnership or individual makes a donation to a person other than an organized charitable institution, a deduction against income is not permitted. At Christmas time many employers distribute "gratuities" to employees. If the distribution is considered a donation or gratuity it is not deductible. Usually, however, the distribution is made either as a fixed percentage of the employee's salary or upon some basis of merit, as additional compensation. In this event, the employer should be careful to include the so-called "gratuities" on Form 1099 along with the employee's regular salary and a deduction is permitted for the amount paid.

The completed group of Forms 1099 should be attached to transmittal Form 1096 and must be mailed direct to the Commissioner of Internal Revenue, Sorting Section, Washington, D. C., so as to arrive there not later than February 15, 1933.

These information returns are sorted by the Internal Revenue Bureau and are used to verify the income reported on income tax returns.

Under the new Revenue Act partnerships must file returns as they did under the previous Act, although partnership as such are not taxable. The term "partnership," as used under the prior Acts, has been extended in the new Act to cover groups, syndicates, pools, joint ventures and other unincorporated organizations which are not trusts or corporations. Partnership reports are merely another form of information return required as a proof against incomes reported from that source.

Some confusion has existed over the requirements of the prior Acts as to the time and manner of returning income from the operations of joint ventures, pools and similar organizations or business combinations. There was no express requirement in the old Act for the filing of a syndicate or joint venture return, and the sole responsibility of making returns of annual gains or losses was placed upon the several members. Quite frequently, however, the members of such syndicates of joint ventures overlook the necessity of reporting their shares in the annual gains and losses from operations and assume that they are required only to make returns of the ultimate gain or loss in the year when the syndicate or venture is wound up or liquidated. A strict observance of the letter of prior Acts would require each member to determine his annual share in syndicate gains or losses upon the basis of his own accounting period and according to his own method of accounting, irrespective of the accounting period or method of accounting upon which the books or records of the syndicate were kept.

The new Act eliminates all of this confusion by placing joint ventures, pools, syndicates, etc. in the category of partnerships, and the members thereof in the category of partners. The new provision has the effect of requiring the syndicate to file a partnership return showing the distributive shares of the members. The resulting annual profit or loss must, of course, be reported proportionately upon the individual returns of each member.

When two or more contractors or contracting firms join in the execution of a contract, and where the organization of a group is not an association, trust or corporation, an annual partnership return is required.

Neglect or failure to file such of these information returns as are required is considered a misdemeanor and may also subject a taxpayer to heavy penalties.

Mr. Andrews will gladly answer your income tax questions during the time these articles are appearing in the *Pacific Constructor*. Address your communications care of F. T. ANDREWS & CO., Certified Public Accountants, Russ Building, San Francisco.

TRENCH GUARDS.—Cleveland Trencher Company, manufacturer of wheel and ladder type trenches and other products, has announced the marketing of patented metal trench guards. A feature of the guards is their interconnection, eliminating open spaces found in the old style barricades. Lanterns and flags may be secured in position and thus minimize losses due to theft and breakage. Legs and flag supports are demountable, facilitating transportation.

Caterpillar Announces 3 New Models

The Caterpillar Tractor Company have just announced the addition of three new models to its line according to Robinson Tractor Company, San Francisco and Oakland dealers. These include the Seventy, gas engine powered, the Diesel Seventy, and the Diesel Fifty.

The Seventy, with gas or Diesel power, has a maximum of 76 drawbar horsepower and 87 belt horsepower.

"The many new features in these new models include eight speeds, six forward and two reverse, controlled by one handy gear shift lever, new track design, new idlers and sprockets and dust protection and oil retention developed to a degree never before achieved in large tractors," says a company announcement.

"The visibility is a feature, the operator having full clear view of the work, the machine and the road ahead, behind and at either side. These features together with weight increased to approximately 30,000 lbs. increased power and traction, make the "Caterpillar" Seventy's the ultimate in large tractors.

"The "Caterpillar" Fifty, gas engine powered, has already established an enviable reputation. This size of "Caterpillar" Tractor may now be had with either gas or Diesel power. It has a 4-speed transmission, and the horsepower and drawbar pull are approximately the same as the "Caterpillar" Fifty gas engine powered. The Diesel Fifty offers a compact, mobile unit that effects astounding operating economies and accomplishes savings that are now more than ever a matter of important concern to every buyer."

Blade Graders

The year 1932 has seen the addition to the "Caterpillar" road machinery line of the "Caterpillar" Fifty Grader, rounding out the range of sizes of leaning wheel graders to include four models, which from now on will be known as the No. 77, the No. 66, the No. 44, and the No. 33.

Power Control

Power control for the largest of the blade graders brought to the users of that machine not only a new measure of ease of operation but the important advantage of ability to do more work and better work because of complete, constant, instant control of all adjustments. Power is provided by a 5-horsepower "Caterpillar" engine—control through seven convenient clutch levers, directing 18 adjustment motions.

Auto Patrols

Following the success of the "Caterpillar" Auto Patrol No. 9, a lower-priced model—the No. 7—extended the advantages of this machine to an increased number of maintenance equipment purchasers. More recently, the "Caterpillar" Auto Patrol No. 11 has been announced—a model with larger engine, greater power and the capacity for meeting the most severe requirements of heavy maintenance and road-mix work.

Equipment

Advancement in the "Caterpillar" line has been matched by the scores of manufacturers who make machines or equipment for use with "Caterpillar" tractors. The scores of builders of bull-dozers, wagons, track-type trailers, winches, booms, trailbuilders, snow plows, scrapers and other implements and machines that are pushed, pulled or otherwise powered by "Caterpillar" tractors have made important progress. Some of these manufacturers specialize in, or build exclusively, machines used with "Caterpillar" tractors. The tractor purchaser has a wide choice of equipment, in sizes to match "Caterpillar" tractor sizes, in strength to match "Caterpillar" tractor power and traction. In designing "Caterpillar" tractors, careful consideration has been given to the arrangement of design and the provision of mounting pads, power take-offs and other details to facilitate the mounting and operation of tractor-mounted equipment.

CALIFORNIA-BUILT EQUIPMENT USED ON SAN GABRIEL GRADING

Heavy grading equipment manufactured by R. G. LeTourneau, Inc., is taking a prominent part in the construction of the new San Gabriel High-line road, north of Azusa, one of the largest grading projects now under way in the west.

This new road leads northward up San Gabriel canyon from a point near Azusa to replace an existing road at lower level, which will shortly be inundated by storage of water in Pine Canyon and San Gabriel No. 1 dams. It involves some of the heaviest and most rugged construction encountered anywhere in California, with alignment on slopes so steep, in some instances, that bridges must be constructed to get across ravines which ordinarily would be traversed on fills.

Cuts as deep as 150 feet and fills as high as 170 feet are involved in the work. Instead of the ordinary method of pioneering with a bulldozer it has been necessary in many cases to do pioneer work with a power shovel.

The Guy F. Atkinson company is the contractor on the work, which includes 1,708,000 cubic yards of roadway excavation, 10,000 yards of excavation for structures, 4,260,000 station yards of overhaul, four short reinforced concrete bridges, four drainage tunnels with an aggregate length of almost 1,500 feet and 27 retaining walls. Much riprap work to protect the grade against washing will also be necessary.

The Atkinson company won the contract with a bid of \$868,777 on July 16 and began work July 26. The work is now about one-third complete.

The new road is 7.07 miles long, but construction of an additional 2.7 miles which will connect the present contract with the existing low-level road up the west fork of the San Gabriel river is contemplated. The roadway is being graded to a width of 28 feet on fills and 30 feet in cuts, including the ditches at either side. The maximum grade is 6 per cent and the minimum radius of open curves is 200 feet. The longest haul is 3,000 feet.

Grading work is under way at nine points. The LeTourneau equipment, except for sheepfoot rollers which are used in compacting fills all along the line, is chiefly between Stations 85 and 100, where bulldozers are being used; between Stations 250 and 257, where two scrapers are employed, and between Stations 342 and 348 where four tractors and bulldozers are being used. One LeTourneau cowdozer is also in use. Explosives are being used heavily on the lower end of the job, but on the upper portion, where the LeTourneau scrapers are employed, it has not been found necessary to use so much, due to the different character of the soil. LeTourneau rooters have been used to break up some of the ground in preparation for the scrapers.

The road involves five agencies—the city of Pasadena, the Los Angeles County road department, Los Angeles County Flood Control district, state division of highway and the federal bureau of public roads.

ON THE JOB WITH



On the El Cajon Pass project, J. P. Holland, Inc., and Healy-Tibbitts Construction Company cut through the Blue Slide



D. McDonald is the contractor on this section of the San Simeon-Carmel highway



Fisher Brothers cut 100 feet through solid rock and moved 73,000 yards of dirt to complete their contract on the new Pacific Highway between Portland and Salem

(Pictures by courtesy of Shell Oil Company)

WESTERN CONTRACTORS



Johnson Brothers had this job on the Santiam Highway, 47 miles from Albany, Oregon



Mr. Lavelle and "Pete" Brown in charge of Winston Brothers trucks



Thirty-eight trucks were used by Winston Brothers Construction Company on the new impounding dam built by the Bureau of Reclamation at Lake Cle Elum, Washington



When a rock jams in the tail gate

CO-OPERATIVE CONSTRUCTION CREDIT

CONSTRUCTION INDUSTRIES' CREDIT BUREAU

(A non-profit, membership owned and operated association affiliated with the National Association of Credit Men)

333 MONTGOMERY STREET, SAN FRANCISCO

F. H. Eichler, Chairman

A. J. McGarry, Mgr.

IF bankers, manufacturers and wholesalers who read this bulletin would only think and *act upon* what follows under the next heading, each could save a minimum of \$1,000.00 in the next twelve months. But they will not *act*; if one does, we will be satisfied.

The Department of Commerce investigated 570 bankruptcies to find out why these 570 concerns failed, and to learn what creditors could do in the future to protect themselves. In their order of relative importance, here are some of the reasons for bankruptcy:

1. Unwise granting of credit.
2. Excessive overhead expense.
3. Dishonesty and fraud.

Careless granting of credit to the bankrupts enabled many to start and to continue a business in which failure was inevitable; 350 chief creditors admitted they did not know why their customers had failed. Think of that! But think of this: Sixty-eight per cent of these 570 bankrupts had not even completed a high school education; 51% of these 570 had no accounting records whatever; the 28% that did have accounting records had wholly inadequate records.

Add up your credit losses for the last ten years. *If you had that money now, you would be on Easy Street.* But what is a creditor to do? Manifestly, you can't inquire into the causes of all failures, for it is then too late—you have lost your money. What of it if excessive overhead, lack of education, fraud and dishonesty caused you to lose your money? You can't install accounting methods for your customers; you can't educate them; fraud is only revealed after fraud is committed. How are you to know these things when you ship goods? You can't.

Should we pass a law providing for certain educational requirements, a law to regulate excessive overhead of our customers, a law to prevent dishonesty? It wouldn't work, although this Association is attempting to revise the present Bankruptcy Act so that creditors will get more money.

Creditors extend credit unwisely; sell concerns with excessive overhead expenses, back ignorant and dishonest men and suffer ruinous losses because of the curse of habit; the habit formed in years past of using only ratings and *financial statements as the basis of extending credit.* We say in all seriousness that the average commercial credit report financial statement does *not* tell you what you really want to know.

Select any financial statement at random. Here is one showing fixed assets of plant, machinery and real estate of \$75,000.00, yet those things could not be sold today for \$10,000.00. This same statement shows receivable accounts of \$30,000.00. Nobody knows how old they are, what they are really worth. But through force of habit, because a financial statement shows a lot of frozen assets that on paper make some kind of a net worth, credit is extended and of course losses follow, because frozen assets and bad receivable accounts do not pay bills.

Is this credit problem insoluble? No. The solution is simple, plain. Shake off the curse of habit. Change your credit information methods to fit the times, as you have changed other things. When you sell on credit in these dangerous credit times, you really want to know but one



E. E. YOUNG, Chairman

Ledger Interchange Bureau Committee
Credit Manager Assn., Northern and Central California

thing—will the customer pay me? What then logically follows? Find out how he actually does pay his bills. This is done by learning if he is paying others who are selling him. This is called getting ledger experience, getting the payment record. The Association will give you no "ratings," no financial statements showing "plant, machinery, equipment and real estate," but does give you exactly what you want to know if you can overcome the curse of old habit—we give you a day-by-day record of exactly *how your customer pays his bills.*

This service is called Credit Interchange Service; costs a few pennies per report. We don't think anybody can afford to sell on credit without knowing how his customer pays his bills. This "how he pays" service is ours exclusively. Others publish ratings, distribute financial statements which the debtor prepared himself, tell you the history of the business, but we publish only "how he pays;" exactly what you want to know. Shake off habit; write us for details; stop your credit loss. Let us help you.

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U. S. Committee Completes Report On Seven-Year Study Of Mechanics Lien Legislation

A more equitable basis for liens against real property by laborers, persons who furnish materials, subcontractors engaged in building construction and related work and others is claimed by the Uniform Mechanics' Lien Act just published by an Advisory Committee of the Department of Commerce, working in cooperation with the Division of Building and Housing of the Bureau of Standards. Completion of the act by the committee which was appointed in 1925 by President Hoover, while he was Secretary of Commerce, marks a forward step in legislation of this kind, according to the committee's report to the Secretary of Commerce announced by the Department.

The uniform act provides for an informal procedure, which conforms largely to modern business practice in the construction industries, in order that the parties involved may adjust any difficulties that arise without resort to the public record. A lien action is not a friendly act and its avoidance is advantageous to all parties through the saving of expense, delay and annoyance, the preserving of business reputation, and keeping titles clear of lien clouds.

In its letter to the Secretary of Commerce transmitting its report the committee states in part:

"The drafting of legislation of this character is always complex because of the numerous and diverse interests which it affects. Throughout the long course of such legislation in the United States, many types of laws have been enacted, some discarded, and all frequently amended, most of the amendments being the result of efforts by a particular group or groups seeking more thorough protection. This has inevitably resulted in acts under which undue advantages accrue to one or more groups at the expense of others.

"This committee, which included representatives of virtually all of the interested groups, with an opportunity not previously afforded to any other body, has attempted to arrive at that equitable point at which the interest of all groups, as nearly as is possible, may be equally subserved. The committee considers the agreement that has been reached upon this draft act to constitute a distinct forward step in the field of this type of legislation.

"Cooperation with a special committee appointed by the National Conference of Commissioners on Uniform State Laws, which; together with the American Bar Association, has approved and recommends the act, testifies still further to the soundness and equitableness of the procedure and to the care with which its provisions

have been drafted and subjected to the most painstaking review."

In his letter of acceptance of the committee's report the Secretary of Commerce stated: "It is evident that your task has been executed with a deep sense of the magnitude and importance of the building industry, and of the pressing need for general cooperation in establishing sounder credit relations. Among the features of the project that have especially impressed me are the following:

"1. Leaders in all groups throughout the country were awakened to the wastes and confusion arising from diversity in existing mechanics' lien laws, and to the relationship of such laws to the whole greater problem of bringing about healthier credit relations in building construction. The broad educational results of the committee's work in themselves constitute a substantial achievement.

"2. The great thoroughness with which all phases of the committee's work were undertaken. Although the great number of obstacles might well have discouraged any

group, the committee has persisted in its task until it feels that the burdens and benefits are equitably distributed."

In expressing appreciation of the public service rendered by the committee, the Secretary of Commerce stated: "Because of the technical as well as legal experience that your members have brought to bear and the outstanding legal qualifications of members of the National Conference of Commissioners on Uniform State Laws and the American Bar Association, your recommendations should command universal respect.

"Furthermore, I believe that you have made a real contribution to the movement for greater uniformity in state laws affecting the conduct of business, a movement which has been gaining pace over a period of more than forty years, and particularly during the last decade. Under our present economic system where commercial transactions, even those in the field of construction, are carried on over great distances, haphazard variations in legislation should be minimized, and the advantages of uniform legislation more generally appreciated. Business should not be hampered by having to operate under many differing state laws, where there is no substantial foundation, either in local conditions or public attitude, for the diversity. A growing recognition of this fact is undoubtedly back of much of the

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widespread interest in the Uniform Mechanics' Lien Act."

Although legislation on this subject in the United States goes back to a Maryland act of 1791 which was enacted to encourage the building up of Washington, D. C., much of the legislation since that time has been the result of demands of particular groups in the construction industries which has resulted in advantages to such groups at the expense of others. Later, the positions would be reversed by further amendment to the acts.

Mechanics' lien acts are designed to provide security for laborers, materialmen, sub-contractors and contractors in connection with debts due them from the persons who employ them or with whom they enter into contract for labor performed or materials furnished in improving real property. These liens are a direct charge on the property, somewhat like a mortgage. Some of these laws give security for all unpaid debts regardless of the amount of the contract price between the owner and the contractor and despite the fact that the owner may have paid his contractor in full. Other laws give a lien only to the extent of money not paid on the contract price by the owner at the time the claim of lien is filed. Laws of the first type may result in an owner having to pay twice for the same labor or materials. Laws of the second type permit the owner to pay the contractor without inquiry as to whether the contractor is paying his bills, until a notice of formal action to enforce a lien has been served upon him.

Neither of these practices is satisfactory in the opinion of the committee which have carried on the work. They have, therefore, worked out in sections 4 and 5 of the Uniform Act a procedure whereby the burdens of the act are divided among the groups in accordance with the benefits to be derived under the act. Section 4 provides a limited period within which a materialman or subcontractor may, by an informal notice, inform the owner that he expects to look to the owner or his property for satisfaction of his bill. If they fail to give the owner notice within such limited period, they may still give this informal notice and avoid the public record but then their claims are not paid until after those of persons who do give notice within the limited period are paid. Laborers are not required to observe this procedure but may, if they are not paid, enforce liens against the property for their full amounts within the limit of the contract price.

Under section 5, the owner, after receiving these informal notices must, in making payments to the contractor, withhold money to pay those persons who have not been paid by the person who employed them. The owner, for his own protection, should so word his contract that at all times his payments will lag behind the progress of the work. This will help to insure that

he will be in a position to pay amounts claimed in notices given him by claimants. When these notices are received by the owner it is probable that such a lag in payments provided for in his contract will be sufficient to take care of the amounts then due. If not, the owner is in a position to withhold additional amounts from the next progress payment to the contractor.

The Uniform Act provides, also, that the owner may, if he wishes, require the contractor to furnish a bond providing for the payment of all liens. This bond must be for the full amount of the contract price. To recover on the bond, all claimants must bring a lien action and have the amount due them determined and a lien decreed against the contractor and his surety for the full amount. Should any of these amounts be uncollectable against the bond, the lien would stand against the property.

The act provides penalties for the diversion to other purposes of funds borrowed or paid out for construction purposes, if such diversion is made with intent to defraud lien creditors. A penalty is provided, also, against the contractor for furnishing a false statement of his obligations to the owner at the time final payment is due under the contract.

Proceeds of an insurance policy on an improvement are made liable to liens in the event of a casualty. Materials delivered but not used in the improvement may, under certain circumstances, if not paid for, be repossessed by the seller and materials delivered to a job may not be attached for the debts of the purchaser except the debt of the purchase price of the materials due from the owner.

In many other respects the Uniform Act follows the prevailing practice under existing laws of the various states.

The Advisory Committee of the Department of Commerce consists of the following men:

F. Highlands Burns, Baltimore, Md., President, Maryland Casualty Company;

William F. Chew, Baltimore, Md., former president, National Association of Builders' Exchanges;

Charles V. Imlay, Washington, D. C., former vice-president, National Conference of Commissioners on Uniform State Laws;

C. Clinton James, Washington, D. C., former president, United States Building and Loan League;

Stewart A. Jellett, Philadelphia, Pa., former president, Heating and Piping Contractors' National Assn.

Gerhardt F. Meyne, Chicago, Ill., member Advisory Board, Associated General Contractors;

Victor Mendeleff, Washington, D. C., American Institute of Architects;

Charles H. Paul, Dayton, Ohio, American Engineering Council;

William C. Roberts, Washington, D. C., Chairman, Legislative Committee, American Federation of Labor;

W. T. Rossiter, Cleveland, Ohio, former president, National Builders' Supply Association;

E. W. Shepard, New York, N. Y., National Association of Credit Men.

Frank Day Smith, Detroit, Mich., National Retail Lumber Dealers' Association;

Dan H. Wheeler, Secretary of the Committee, Division of Building and Housing, Bureau of Standards, United States Department of Commerce, Washington, D. C.

Copies of the act may be procured at nominal prices by addressing the Standard State Mechanics Lien Act Committee, Bureau of Standards, Washington, D. C.

WORKS BOARD MAY ENGAGE ARCHITECTS

Authority to employ outside architects for the designing of the proposed state hospital at Ventura is vested in the state department of public works, according to an amended opinion of Attorney General U. S. Webb to State Architect George B. McDougall.

The attorney-general had previously ruled that the board of managers of the institution was empowered to engage architects. Express authority to that board in the act establishing the hospital is superseded by the statute regulating public works, Webb has informed MacDougall.

ROLPH APPROVES HIRING ARCHITECTS

Governor James Rolph, Jr., is pledged to the policy of giving state work to private architects, according to a letter from him to C. J. Ryland, secretary of the Northern District, California State Board of Architectural Examiners.

The governor's letter said: "Mr. Glen V. Slater, assistant director of the department of professional and vocation standards, has forwarded your letter to me concerning architectural work among state colleges, etc.

"I appreciate the existing situation and will do everything within my power to see that the architects of the state are afforded an opportunity of bidding upon architectural work."

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AIR-CONDITIONING CONFERENCE HERE ON FEBRUARY 9-10

Many Contractors Expected At Sessions To Study Installations

Contractors from all parts of Northern California are expected to attend the air-conditioning conference to be held in San Francisco and Berkeley February 9 and 10, under auspices of the San Francisco section, American Society of Mechanical Engineers.

Experts in all branches of the new industry will address the sessions. Everyone interested in air-conditioning is invited to attend. Dr. Baldwin M. Woods of the University of California is general chairman. W. E. Leland is vice-chairman.

The program of the first day, Thursday, February 9, will be devoted to the scientific background of air-conditioning, including a study of the physiological and psychological aspects. Sessions on the opening day will be in the Engineering Building on the University of California campus at Berkeley.

The program of the second day is devoted to the problems of design and installation from the standpoint of architect, engineer and dealer. The sessions will be held in the Civic Auditorium, San Francisco.

Following is the complete program for the conference:

THURSDAY, FEB. 9

9:00 A. M., Registration, Engineering Building, University of California.
9:30 A. M., Opening Session, B. M. Woods, presiding.

Fundamental Problems—General
Opening Remarks, B. M. Woods.
Basic Theory of Air Conditioning, L. Washington (Stanford).

The Psychometric Chart and Its Use, C. R. Dodson (U. of C.)
Physiological-Psychological Basis of Comfort, C. W. Brown (U. of C.)

What Is Comfort?, Lee Hungerford (Chief Engineer, Fox West Coast Theatres).

12:30 M., Adjourn for Luncheon at Faculty Club.

THURSDAY, Feb. 9

2:15 P. M., Engineering Building, University of California, A. B. Domonoske, presiding.

Fundamental Problems—Cooling
Analysis of Cooling Fundamentals, Walter S. Weeks (U. of C.)

Cooling with Ice in California Valley Summer Weather, H. L. Lincoln (Union Ice Co.)

Analysis of Los Angeles Weather, Lester J. Rich (Pernot & Rich, Inc.)

THURSDAY, Feb. 9

6:30 P. M., Dinner Meeting, Engineers' Club. San Francisco Members of the A.S.M.E. and cooperating societies.

Following the dinner there will be an address by Dr. Albert H. Rowe, Specialist in Respiratory Diseases and Lecturer in Medicine, U. of C. Subject: Medical Aspects of Air Conditioning.

FRIDAY, FEB. 10

9:30 A. M., Civic Auditorium, San Francisco, J. J. Donovan, presiding. Chairman, Northern California Chapter, American Institute of Architects.

1932 LUMBER SHIPMENTS EXCEED PRODUCTION BY TWENTY-FIVE PCT.

The 600 lumber mills which reported to the National Lumber Manufacturers Association through regional associations, for 1932 and 1931, show 1932 production as 41 per cent below 1931; 1932 shipments 33 per cent below those of 1931; new business 31 per cent below 1931. These mills reported production of 5,444,819,000 feet in 1932 and 9,275,809,000 feet in 1931, which was 56 per cent of the total production of the country as reported by the U. S. Census Bureau. Revised figures for the 52 weeks of 1932 also show net business 24 per cent above production and shipments 25 per cent above production.

During the holiday week ended January 7, 1933, 770 leading hardwood and softwood mills reported lumber production of 73,315,000 ft., which was about 18 per cent above the output of the previous week, also containing a holiday, when 820 mills reported. This production was 15 per cent of capacity.

New business during the week ended January 7, amounted to \$4,255,000 feet which was 5 per cent below that reported for the pre-

vious week and 17 per cent of capacity. For the previous week production was 12 per cent and new business 17 per cent of capacity.

All associations reported new business in excess of production except in the Southern pine region, where orders fell 11 per cent below output.

Comparison of identical mills for the corresponding week of last year, which was the week ended January 9 and did not include a holiday, shows production of all regions except the Southern pine as considerably below last year, all reports averaging 20 per cent below. New business this year was 31 per cent below corresponding week of last year for softwoods; 41 per cent below for hardwoods.

Lumber orders reported for the week ended January 7, 1933, by 408 softwood mills totaled 74,377,000 ft. or 11 per cent above the production of the same mills. Shipments as reported for the same week were 66,697,000 feet, or about the same as production. Production was 66,881,000 feet.

Reports from 375 hardwood mills give new business as 9,878,000 feet or 54 percent above production. Shipments as reported for the same week were 13,436,000 feet, or 109 percent above production. Production was 6,434,000 feet.

Unfilled Orders

Reports from 351 softwood mills give unfilled orders of 346,643,000 feet, on January 7, 1933, or the equivalent of 12 days' production. The 351 identical softwood mills report unfilled orders as 346,643,000 feet on January 7, 1933, or the equivalent of 12 days' average production, as compared with 424,985,000 feet, or the equivalent of 14 days' average production on similar date a year ago.

Identical Mill Reports

Last week's production of 396 identical softwood mills was 66,199,000 feet, and a year ago it was 81,548,060 feet; shipments were respectively 65,510,000 feet and 109,920,000; and orders received 73,580,000 feet and 106,887,000. In the case of hardwoods, 196 identical mills reported production last week and a year ago 5,148,000 feet and 7,913,000; shipments 10,683,000 ft., and 14,654,000; and orders 7,287,000 and 12,440,000 feet.

CONCRETE HOMES DESCRIBED

"Low Cost, Fireproof Concrete Homes" is the title of an attractive new booklet prepared for general distribution by the Portland Cement Association. The book contains various plans and estimated costs of homes built entirely of concrete and cement.

Commercial and Industrial Problems

Design Procedure for Heating and Cooling Installations, W. E. Leland; Air Filtration, F. W. Kolb (American Air Filter Co.); Control and Regulation, T. B. Hunter.

FRIDAY, FEB. 10

2:15 P. M., Civic Auditorium, San Francisco, W. M. Moody, presiding. President, San Francisco Section of the American Society of Mechanical Engineers.

Residential and Small Commercial Problems

The Architect's Problems in Heating, Cooling and Ventilation, J. J. Donovan; Air Infiltration Through Windows, L. M. K. Boelter and Virgil H. Cherry (U. of C.); Cooling Rural Homes—A Study in Progress, B. M. Woods and Associates; The Psychology of Selling, E. K. Strong (Stanford).

The Western Conference On Air Conditioning is being sponsored by the San Francisco Section, A.S.M.E. and the Engineering Department of the University of California. Co-operating with the A.I.E.F., A.S.M. M. E., A. I. A., N. A. P. R. E., A. S. H. V. E., S. R. E. and individuals interested in the subject. The general chairman is Dr. Baldwin M. Woods, University of California, who is a recognized authority and who has obtained the interest of the best men in the west for presentation of papers. The arrangements committee is headed by Carl A. Rietz of the Westco-Chippewa Pump Sales Co., in whose hands are all the plans for the conference. All matters pertaining to publicity or arrangements for displays will be handled through S. R. Dows of W. H. Picard, Inc., Oakland.

REED ELECTED GOLDEN GATE BRIDGE MGR.

**Nav. Man Succeeds M'Donald
As Construction Job
Executive**

James Reed, naval commander and construction engineer has been elected to the post of general manager of the Golden Gate Bridge and Highway District, on the recommendation of the bridge directors' policy committee. He succeeds Alan MacDonald, who resigned.

Reed was nominated by Director Keesling following his recommendation by a majority of the policy committee, which considered more than eighty applications.

Before the directors voted on Reed, the minority report of the policy committee in favor of A. W. Deuel, general manager of the San Mateo bridge, was presented and appointment of Deuel was moved by Director William Stanton. Stanton's motion failed to carry. The election of Reed was made unanimous at the request of the four directors who originally voted for Deuel.

Reed's salary as manager is "not to exceed \$12,000 a year."

Reed, at present general manager of the Schlage Lock Company, has served as a construction expert at the Mare Island, Bremerton and Brooklyn navy yards, and as shop superintendent at the Philadelphia yard.

He was graduated from the United States Naval Academy in 1902, and from the Massachusetts Institute of Technology in 1907.

Since his retirement from the Navy, he has acted as construction expert on a number of large projects.

BOARD LICENSES FIVE ARCHITECTS

At a recent meeting of the State Board of Architectural Examiners, Southern District, the following candidates were granted Provisional Certificates to practice architecture in the State of California:

Herman Adolph Spackler, 5419 Poplar Blvd., Los Angeles.

Benjamin L. Wiseman, 623 Union Oil Bldg., Los Angeles.

Harold Newton Abrams, 3503 Park Blvd., San Diego.

Edward Warren Hoak, 1721 Bushnell Ave., South Pasadena.

Christian E. Choate, 2600 South Hoover, Los Angeles.

REVOKE BID CALL FOR TWO TUNNELS

LOS ANGELES, Jan. 25.—Call for bids on the Valverde and Bernasconi tunnel construction for the Los Angeles Metropolitan Water District were ordered cancelled today. F. E. Weymouth, general manager and chief engineer of the district, said revised specifications for the tunnels would be issued at an early date.

The bids were to have been received January 30 on specifications approved January 3.

CITY ABANDONS PLAN TO BUILD HOSPITAL WARD

Lack of Money To Pay Operating Expenses Ends Projected Construction

Definite abandonment of the proposed \$470,000 psychopathic ward addition to the San Francisco Hospital has been announced by Wm. H. Worden, Director of Public Works.

Worden's action followed a decision by City Administrator A. J. Cleary that the new building was not immediately necessary.

Bids which were to have been received January 25 already had been postponed while a hearing pending on injunction proceedings against the project. The injunction was asked by William E. Hagne on the grounds that the high wage scale provided in the specifications involved a waste of city money.

Cleary indicated that either funds from the bond issue originally intended for the construction of the hospital addition would be used to build a nurses' home on the same site, or that a measure would be submitted to voters in a special election to authorize the diversion of the funds to other city purposes.

Dr. J. C. Geiger, Director of Public Health, said that psychopathic ward patients could be amply cared for in the recently constructed Health Center Building.

Geiger had previously stated that if the psychopathic ward were built his department would not have sufficient funds to equip it properly.

LAKE COUNTY FIXES ROAD WAGE SCALE

A daily wage scale for Lake county road workers has been fixed by the board of supervisors as follows: Foreman, 4.50; shovel man, \$6; jackhammer, \$3; powder man, \$3; shovel helper, \$3; tractor driver, \$4; grader man, \$3.50; truck driver, \$3.50; bridge carpenter, \$4.50; bridge helper, \$3; common labor, \$3; general utility man, \$4; 2-horse team, \$2; 4-horse team, \$4; maintenance operator, \$4.50.

\$40,000,000 BAY BRIDGE OPENINGS ARE SCHEDULED

**Principal Contracts For Span
All To Be Awarded
By May 1**

Contracts on the San Francisco-Oakland bridge totalling more than \$40,000,000 will have been awarded before the first of May, according to the schedule of bid openings adopted by the bay bridge commission.

The opening of bids on the first unit, the west bay substructure, will be in Sacramento on February 28. Four additional contracts will be advertised this week and proposals will be received in San Francisco on March 2 and March 7. These include the east bay substructure and the west bay superstructure on both sides of Yerba Buena island. Contracts for the San Francisco anchorage, the Yerba Buena island crossing and the east bay superstructure will be advertised probably early in February and bids will be opened March 7th and 8th in San Francisco. It is planned to have all of the awards made within sixty days after bids are opened.

The tentative estimates on each of these items as prepared by the bridge commission engineers follow:

Foundations	\$15,240,000
San Francisco anchorage.....	1,110,000
Yerba Buena Island crossing	2,100,000
Dredging mole construction	450,000
West bay superstructure.....	16,600,000
East bay superstructure.....	8,900,000

Approximate quantities of the major materials which will be used are estimated as follows: 170,000 tons of structural steel and wire; 20,000 tons of reinforcing steel; 200,000 gallons of paint; 40,000,000 B.M. lumber; 1,000,000 barrels of cement; 1,000,000 cubic yards of concrete aggregates.

(See engineering section of this issue for complete quantity.)

GAS SALES SHOW SMALL LOSS IN '32

California's sales of taxable gasoline in 1932 totaled 1,352,570,000 gallons compared with 1,401,545,000 in 1931, figures of the state board of equalization show. The decrease was about 3.4 per cent.

Associated Oil, Texas and Union Oil showed gains over the 1931 volume. Standard Oil Co. of California maintained its lead with 275,967,000 gallons, a loss of less than 1/2 of 1 per cent.

Centralization of the business was by figures computed by Dow Jones & Co., showing the seven largest companies sold 72.9 per cent of the gasoline. This was a hair line gain over their 1931 percentage of 72.4. The seven leading companies were Standard, Shell, Union, Associated, Richfield, General and Texas.

A.G.C. PROTESTS CHANGE OF CITY CONTRACT POLICY

Alameda Chapter To Oppose Oakland Charter Amend- ment For Day Labor Plan

A protest has been filed by the Alameda County Chapter, Associated General Contractors, against any change in the Oakland city charter that would eliminate the contract system of doing public work.

"Just now, under the guise of 'relief of unemployment', much work is being done in cities in all parts of the state," said Wm. E. Hague, secretary-manager of the chapter. "It is the belief of the contractors that all such work should be done by contract and the laborers taken from the municipal employment bureau, just as is done under the Federal aid plan, by which the contractors are required to take laborers from the county bureau.

"This work contributes effectively to the relief of unemployment, nevertheless the work is done by contract and there seems to be no reason why all city work could not be done in the same way and the cities receive far more for their money than they are now getting in many cases."

The following letter has been addressed to the Oakland committee on charter amendments by the Associated General Contractors:

We understand your Committee is considering various Charter Amendments to be presented to the City Council and later to the voters of Oakland for adoption. We have particularly noted the proposed amendment to Section No. 130, headed "Public Work To Be Done By Contract."

The clear intent of this Section as it now reads in the City Charter, is to confine all city work to the contract system, but if the proposed amendment should be adopted the door would be opened wide for city officials to do the work under the "day work" plan without even the formality of taking bids, but under the guise that "an emergency" existed. This is exactly the situation the new Charter aimed to eliminate and we therefore hope the proposed amendment will not receive favorable consideration from your Committee.

At this somewhat hysterical period there is a distinct tendency on the part of public officials to seize the opportunity to have a "state of emergency" declared under which work can be done under the day work system with little regard to cost and under the guise of "relief of unemployment." We can conceive of no emergency arising under which day work would become necessary or profitable to the city, as it has always been a loose system under which actual costs are concealed and often incorrectly reported.

We believe that Section No. 130 of our City Charter truly sets forth the wishes of the people with reference to awarding of public contracts and we recommend that the Section be left untouched.

Should you decide to consider any change whatever to this Section we would respectfully request that this Body be consulted regarding same and it would be our aim to cooperate with you in all ways possible.

\$10,000,000 BONDS FOR CALIFORNIA BLDG. PROPOSED

Rolph Gives Legislature Plan For Additions To State Institution

A state building program to be financed by a \$10,000,000 bond issue has been presented to the state legislature by Governor Rolph, including general allocations of funds as follows:

California state fair—Exhibit buildings, \$200,000.

Department of Institutions—Sufficient new construction to keep up with increasing population for the next two years, \$5,800,000.

Veterans' Home at Yonntville—Mess hall, assembly building and office building. Defer new barracks until enough money accrues from State Athletic Commission, \$345,000.

California National Guard—Armories at Fresno, San Pedro, Santa Ana and Santa Barbara, \$220,000.

State prisons—Provision only for construction of new plant and facilities for new prison for first offenders, estimated at 1000 population, \$1,000,000.

State teachers' colleges—New plant at San Francisco, and new plant at Santa Barbara after selling present site, \$1,500,000.

California School for Deaf, Berkeley—Badly needed building for younger pupils, \$100,000.

University of California—Most urgent requirements at Berkeley, Davis, Los Angeles, La Jolla, Riverside and San Francisco, \$843,000.

VETS' \$30,000,000 HOME BOND ISSUE IN LEGISLATURE

Sponsors Declare Funds Would Provide For 12,000 Applications

A proposal for another \$30,000,000 bond issue for war veterans' farm and home purchase loans has been made to the California Legislature, companion bills being introduced in each house by groups of members who are war veterans.

Sponsored by the American Legion, the new bond issue would be submitted to the people at the next general state election, if approved by the Legislature.

"This is a forward looking and progressive piece of legislation, consistent with the state's policy over a period of years," said Senator Leonard Difani of Riverside, one of the authors of the measure.

"Outstanding among the constructive features of the plan is the fact that it will provide tens of thousands of days' employment for California workers, particularly at a time when every effort should be made to stimulate employment.

"In addition, it will enable approximately 12,000 former service men, who applications to acquire home under the original veterans' farm and home purchase act, have been approved, but are now pending, due to the fact that funds voted under the three previous bond issues have been exhausted."

Senator Difani pointed out that the new bond issue, like the others, will not cost the state of California a cent, payments from the veterans to whom loans are extended being fixed at rates to pay off bond interest and redemption charges, in addition to underwriting the cost of administration by the Veterans Welfare Board.

SEATTLE A. G. C. ELECTS OFFICERS

At the twelfth annual meeting of the Seattle Chapter, Associated General Contractors, Geo. E. Teufel of the firm of Teufel and Carlson, was elected president of the chapter to succeed James Murdock who has been president for the past four years.

M. Phil Butler of the W. T. Butler Construction Co., was elected vice-president. H. V. Bogert will continue as manager.



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L. A. HOME LOAN BANK READY TO ACT ON REQUESTS

State Legislation Paves Way For Release Of Federal Money

Passage of an amendment to the California building and loan act, enabling the state associations to avail themselves of the loan privileges afforded by the Federal Home Loan Bank means that the district bank in Los Angeles can begin to function effectively, according to W. F. Duffy, executive vice-president.

"Removal of obstacles preventing building and loan associations from utilizing the bank's facilities will enable these institutions to borrow on their eligible home mortgage and make available considerable sums for home repairs and other purposes thereby doing much to revive purchasing power which, in turn will, amongst its other benefits, stimulate real estate activity and building throughout California," Mr. Duffy declared.

"Already many applications for membership in the bank have been submitted and are before the bank officials for examination. These applications have been made in accordance with the rules established for all twelve Federal Home Loan Banks to follow and after approval must be forwarded to Washington. This routine is absolutely necessary and, considering the nationwide scope of the institution, requires considerable time. Patience must be exercised and confidence maintained that everything possible is being done to expedite the accomplishment of the purposes of the Federal Home Loan Bank act and to justify the hopes of the people in the good that can ultimately come from it."

SACRAMENTO BRIDGE CONTRACT APPROVED

Work on the new M street bridge in Sacramento over the Sacramento river may be started this spring it was reported recently following the completion of an agreement between the Sacramento county board of supervisors and the state highway commission for financing the structure.

The bridge will be constructed by the state and the county will pay one-third of the cost to be deducted from its allotment of the gasoline tax. The estimated cost is \$650,000.

The old M street bridge will not be wrecked, but will be moved to some other point in the county, it is proposed.

SANTA CRUZ FORCE INCREASED

Santa Cruz Portland Cement Co. has re-employed 160 men, increasing its monthly payroll by \$10,000.

The plant is filling an order for 350,000 barrels of cement for the Madden dam in the Panama Canal Zone.

ALLEN & DETTMANN COMPANY ORGANIZE

E. A. "Ted" Allen and Fritz L. Dettmann announce that they have formed the Allen & Dettmann Lbr. Co. and are now engaged in the retail lumber business on the property formerly occupied by the Chas. R. McCormick Lumber Co., at 2000 Evans Ave. The telephone number is Valencia 2700.

The personnel of the new company includes Bob Phillips, Henry Reed, Carl Muhlberger, Wendel Paquette and Bjarne Bergesen. Each member of this company received his training and experience during many years of service with the well known firm of Pope & Talbot, and more recently with the retail department of the Chas. R. McCormick Lumber Company.

Each of the above mentioned men is a stockholder in the new company, and will make it his personal business to see that their customers obtain the best of materials and prompt, dependable service.

The new company will carry a large and well assorted stock of pine and redwood lumber.

MAMMOTH ELECTRIC SIGN IS COMPLETED

The largest changeable electric sign in the world is nearing completion in South San Francisco and will be in operation as soon as power lines are completed. G. H. Thompson, the owner, has announced.

The structure is 368 feet long with letters 21 feet high that will change color and wording every 15 seconds. A series of fourteen displays will be repeated nightly that will be visible from the Bayshore highway, El Camino Real, San Bruno highway, Skyline boulevard and the San Mateo bay bridge.

Groups of fourteen mazda lights covered by lenses 16 inches in diameter will serve as light units for the sign. A total of 6000 lamps will be used, consuming about 15,000 watts.

Over ten miles of wire and 100 tons of steel and concrete were used in the structure, which was built by the South San Francisco Sign Company.

L. A. MAN TO HEAD EQUIPMENT DEALERS

Carl E. Baker, sales manager of Smith Booth Usher Company, Los Angeles, was elected president of the Associated Equipment Distributors at the 14th annual meeting of that organization, held in Detroit, Michigan, January 15 and 16. The annual meeting was held in conjunction with the Highway and Building Congress in Detroit.

The officers and directors elected were: Carl E. Baker, Los Angeles, president; R. R. Nixon, Chattanooga Tenn., vice-president; Fred Matheis, Boston, Mass., second vice-president; A. C. Blaisdell, Cincinnati, Ohio, secretary; H. W. Fletcher, New Orleans, La., treasurer.

PENALTY FIXED FOR DELAY IN S. F. CONST.

Additional Inspection Fees due to Extensions Will be Charged

Contractors who apply for extensions of time on San Francisco projects must reimburse the city for the cost of any additional inspection or engineering work made necessary by the extension, according to a ruling made by Chief Administrative Officer Alf. J. Cleary.

Cleary instructed Wm. H. Worden, Director of Public Works, to advise contractors that a certified check covering the cost of added inspection must accompany all applications for extensions.

Cleary's action was precipitated by the granting of a five-month extension to Barrett & Hilp on the Third Street Bridge, which will cost the city more than \$12,000 in inspection fees, Cleary declared.

Payment of extra inspection expenses by the contractors will save the city \$25,000 a year, it is estimated.

Bid calls issued by the city this week for \$525,000 of projects carry a clause requiring the contractor to pay liquidated damages of one hundred dollars per day on any extensions.

FLOOD DISTRICT BOND BIDS ARE INVITED

Bids have been called by the American River Flood Control District on a block of bonds amounting to \$287,000 for the financing of additional construction work. Proposals will be opened February 10. The securities are the unsold portion of an original issue of \$565,000 and bear interest of 7%.

The first unit of the work, raising a levee to protect North Sacramento from flood waters of the American river is now being completed. The second unit will be for the construction of levees on Arcade creek.

REGISTER WARRANTS ON SACRAMENTO FUNDS

Sacramento county warrants drawn against several funds, including that for roads and bridges, must be registered until there is sufficient money in the treasury to return to a cash basis, County Auditor L. P. Williams has informed the board of supervisors.

The supervisors were informed that there probably would not be money available to meet county payrolls after February 1 and that salary warrants also would be registered until after the April installment of taxes is collected. Tax delinquencies have created a deficit in the county general fund. The only cash on hand after February 1 will be that allocated to special funds and which cannot be used for general expenses, the auditor and treasurer declared.

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

4.2—MI. GRADING LYLE TO SKADAT—KLUCKITAT CO., WASH.

KLUCKITAT COUNTY, Wash. — As previously reported, Morrison-Knudsen Co., 1307 Old National Bank Bldg., Spokane, at \$374,494 awarded contract by the State Highway Commission to grade 4.2 miles of State Road No. 8, Lyle to Skadat, E.C.H. Proj. No. E-174-C, involving:

(1) clear and grub;
 (2) 15,850 cu. yds. excav., Class A;
 (3) 322,720 cu. yds. do, Class B;
 (4) 12,310 cu. yds. tunnel excav.;
 (5) 264,130 cu. yds. S. R. excav.;
 (6) 1,170 cu. yds. struc. excav.;
 (7) 1,000 cu. yds. excav., Class D;
 (8) 598,230 cu. yds. (sta.) overhaul;

(9) 372,010 cu. yds. (mi.) overhaul;
 (10) 195 cu. yds. concrete, Class B;
 (11) 18,960 lbs. reinf. bars;
 (12) 5x6-in. x 4-ft. reinf. crib headers;
 (13) 5x8-in. x 6-ft. do;
 (14) 5x10-in. x 8-ft. do;
 (15) 6x6-in. x 6-ft. reinf. stretchers;
 (16) 6x8-in. x 6-ft. do;
 (17) 6x10-in. x 6-ft. do;
 (18) 196 reinf. pillow blocks;
 (19) 90 lin. ft. galv. iron pipe, 2-in.;
 (20) 18 lin. ft. conc. V. C. pipe, 12-in.;
 (21) 756 lin. ft. 18-in. reinf. pipe;
 (22) 81 lin. ft. 24-in. do;
 (23) 255 lin. ft. 36-in. do;

(24) 24-in. reinf. pipe, extra strength;
 (25) 42-in. do;
 Complete bids follow:
 (A) Morrison-Knudsen Co., Spokane, \$374,494.
 (B) Kern & Kibble, Portland, \$390,737.
 (C) Lawlor, Woodward Co. and Myers & Goulter, \$417,399.
 (D) Von der Hellen & Pierson, \$418,019.
 (E) J. F. Shea, \$418,483.
 (F) Hauser Const. Co., \$438,962.
 (G) Sam Orino, \$454,538.
 (H) Guy F. Atkinson, \$458,338.
 (I) Stems-Spokane Co., \$460,890.
 (J) Guthrie McDougall Co., \$477,094.

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
(1)	\$5000.00	\$ 300.00	\$51,000.00	\$9000.00	\$ 500.00	\$8500.00	\$2000.00	\$1500.00	\$2000.00	\$ 500.00
(2)	.22	.27	.30	.20	.28	.35	.35	.80	.23	.20
(3)	.28	.27	.30	.27	.28	.30	.35	.32	.32	.40
(4)	3.90	3.40	3.75	5.00	4.50	3.50	4.00	5.15	4.00	4.00
(5)	.39	.67	.68	.65	.65	.75	.80	.80	.80	.82
(6)	1.00	2.00	1.50	1.00	1.00	2.00	1.00	1.50	1.50	1.25
(7)	1.00	1.00	1.00	.25	1.00	2.00	1.50	1.25	1.00	1.25
(8)	.01	.01	.01	.01	.02	.01	.01	.005	.01	.01
(9)	.13	.15	.14	.17	.18	.15	.13	.12	.12	.15
(10)	22.00	20.00	22.00	22.00	20.00	40.00	25.00	20.00	24.00	20.00
(11)	.07	.08	.05	.05	.06	.07	.06	.06	.07	.65
(12)	.40	.34	.32	.35	.50	.48	.47	.50	.35	.32
(13)	.45	.38	.35	.40	.50	.54	.52	.55	.40	.36
(14)	.50	.44	.40	.45	.50	.62	.56	.60	.45	.45
(15)	.40	.35	.32	.35	.50	.48	.49	.50	.35	.40
(16)	.45	.45	.37	.40	.50	.58	.54	.55	.42	.45
(17)	.50	.50	.40	.45	.50	.64	.57	.60	.45	.48
(18)	.50	.45	.50	.40	2.00	.60	.30	.75	.45	.50
(19)	.40	.40	.30	.20	.30	.50	.25	.75	.50	.50
(20)	1.25	1.30	1.50	1.00	1.50	1.25	1.75	1.15	1.50	1.10
(21)	2.50	2.75	2.50	2.20	2.00	2.75	2.25	2.25	3.25	2.40
(22)	3.50	3.80	4.00	3.50	3.00	4.00	4.00	3.25	4.75	3.30
(23)	6.00	6.50	6.50	5.50	5.00	7.50	6.50	5.00	9.00	5.75
(24)	4.00	4.50	5.00	4.00	3.50	5.00	5.00	5.50	5.00	4.00
(25)	10.00	11.00	12.00	10.00	10.00	12.00	12.00	10.00	15.00	9.00

GRADING SECTION C — LOS ANGELES COUNTY

LOS ANGELES COUNTY, Calif.—J. E. Haddock, Ltd., 357 N Chester Ave., Pasadena, at \$138,119.08 submitted the low bid to U. S. Bureau of Public Roads, San Francisco, to grade Section C of Route 62, San Gabriel National Forest Highway, Angeles National Forest, involving:

(1) 26 acres clearing;
 (2) 358,000 cu. yds. unclass. excav.;
 (3) 1,150 cu. yds. unclass. excavation struc.;
 (4) 1,760,000 sta. yds. overhaul;
 (5) 2,213 miles finish earth graded rd.
 (6) 165 cu. yds. Class A concrete;
 (7) 68 cu. yds. Class B concrete;
 (8) 19 cu. yds. Class D concrete;
 (9) 14,000 lbs. reinf. steel;
 (10) 30 lin. ft. 8-in. corr. galv. metal

pipe;
 (11) 1106 lin. ft. 24-in. do;
 (12) 94 lin. ft. 30-in. do;
 (13) 394 lin. ft. 36-in. do;
 (14) 112 lin. ft. 42-in. do;
 (15) 10,300 lin. ft. wood guard rail;
 (16) 18 right of way monuments;
 (17) 1 type A spillway inlet;
 (18) 2 type B do;
 (19) 78 lin. ft. 12-in. corr. galv metal pipe;
 (20) 36 lin. ft. 42-in. do;
 (21) 166 lin. ft. 48-in. do.
 Complete bids follow:
 (A) J. E. Haddock, Pasadena, \$138,119.08.
 (B) Guy F. Atkinson, San Francisco, \$138,786.60.
 (C) Merritt-Chapman-Scott \$144,520.30

(D) Von der Hellen & Pierson, Castaic, \$152,882.80.
 (E) S. H. Palmer and J. P. Holland, San Francisco, \$165,791.90.
 (F) Weymouth-Crowell Co., Los Angeles, \$170,331.85.
 (G) Bodenhamer Const. Co., \$171,692.30.
 (H) A. Teichert & Sons, Sacramento, \$174,157.70.
 (I) Granfield, Farrar & Carlin, San Francisco, \$182,454.20.
 (J) Morrison-Knudsen Co., Los Angeles, \$182,874.90.
 (K) MacDonald & Kahn, San Francisco, \$197,561.05.
 (L) Engineer's estimate, \$147,761.30.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)
(1)	\$110.00	\$ 85.00	\$ 55.00	\$100.00	\$150.00	\$100.00	\$ 60.00	\$ 75.00	\$ 40.00	\$300.00	\$250.00	\$100.00
(2)	.31	.315	.33	.34	.34	.395	.36	.395	.43	.40	.44	.35
(3)	1.00	1.25	.75	.75	1.40	1.00	1.50	1.75	.75	1.25	1.50	1.50
(4)	.003	.004	.005	.005	.01	.004	.01	.005	.005	.007	.0075	.005
(5)	300.00	200.00	100.00	300.00	300.00	250.00	600.00	300.00	300.00	300.00	300.00	500.00
(6)	16.00	16.00	17.00	18.00	20.00	18.00	26.00	20.00	16.00	16.50	17.00	19.00
(7)	15.00	15.00	17.00	20.00	20.00	15.00	19.00	19.00	15.00	16.00	16.25	17.00
(8)	25.00	30.00	55.00	20.00	25.00	25.00	19.00	25.00	17.00	20.00	18.75	21.00
(9)	.04	.035	.04	.05	.05	.05	.05	.04	.04	.05	.0375	.04
(10)	.60	.75	.60	.60	.75	.75	1.50	1.00	.50	.75	.80	.80
(11)	1.52	1.25	1.30	1.50	1.75	1.60	2.50	2.00	1.50	1.85	2.00	1.80
(12)	2.00	1.75	1.55	2.00	2.25	2.25	3.50	2.75	1.80	2.30	2.60	2.50
(13)	3.13	2.50	2.35	3.00	3.25	3.50	4.25	4.00	2.75	3.50	3.50	4.00
(14)	3.85	3.00	3.50	3.50	4.00	4.25	5.00	4.50	3.25	4.00	4.50	4.80
(15)	.75	.60	.55	.80	.90	.90	.70	.75	.80	.70	.70	.75
(16)	3.00	4.00	2.50	3.00	4.00	3.00	3.00	3.00	3.00	2.50	2.50	3.50
(17)	15.00	15.00	10.00	12.00	20.00	15.00	20.00	15.00	20.00	15.00	12.50	15.00
(18)	20.00	20.00	14.00	20.00	25.00	20.00	25.00	20.00	25.00	18.00	17.50	18.90
(19)	.76	1.00	.65	.80	1.00	1.00	2.00	1.10	.85	.90	1.50	1.30
(20)	4.23	4.00	3.20	4.75	4.50	4.50	5.00	5.50	3.80	4.50	6.00	5.00
(21)	5.38	4.50	5.40	5.00	5.50	6.00	5.50	6.00	4.50	5.50	7.00	6.90

5.6-MI. GRADE AND PAVE — ORANGE COUNTY

ORANGE COUNTY, Cal.—Griffith Co., 502 Los Angeles Railway Bldg., Los Angeles, at \$85,420.15 submitted low bid Jan. 25 to State Highway Commission, Sacramento, to grade and pave with Portland cement concrete 5.6 mi. between Irvine and Tustin. Involving:

- (1) 298 sta. clear and grub right-of-way;
(2) 22,500 cu. yds. rdwy. excav., un-class.;
(3) 410,000 sta. yds. overhaul;
(4) 3900 cu. yds. sel. material;
(5) 2425 cu. yds. struc. excav.;
(6) 37,000 sq. yds. subgrade for pave.
(7) 7860 cu. yds. Class A cem. conc. (pave.);
(8) 475 cu. yds. do (struc.);
(9) 150 cu. yds. do (curbs);
(10) 20 cu. yds. do (footing blocks);
(11) 3 cu. yds. Class E cem. concrete (struc.);
(12) 220,000 lbs. bar reinf. steel (pave. and struc.);
(13) 1200 lbs. misc. iron and steel (struc.);

Table with 7 columns (A-G) and 19 rows of bid prices for items 1-19.

- (14) 180 lin. ft. 18-in. corr. metal pipe;
(15) 1000 cu. yds. concrete remove from existing pave. and struc.;
(16) 515 M. gals. water (embank.);
(17) 3100 bbls. fuel oil (shoulders);
(18) 24 culvert markers;
(19) 298 sta. finish roadway;
State will furnish corrugated metal pipe.
Complete bids follow:
(A) Griffith Co., Los Angeles, \$85,420.15.
(B) Gogo & Rados, Los Angeles, \$88,435.50.
(C) United Conc. Pipe Corp., Los Angeles, \$89,351.
(D) J. L. McLain, Los Angeles, \$89,988.30.
(E) Daley Corp., San Diego \$90,581.75
(F) Oswald Bros., Los Angeles, \$91,077.10.
(G) Artukovich Bros., Hynes, \$91,059.25.
(H) Southern Calif. Roads Co., Los Angeles, \$99,938.

Table with 8 columns (A-H) and 19 rows of unit bids for items 1-19.

IMP. BAYSHORE BLVD. — SAN FRANCISCO

SAN FRANCISCO. — Union Paving Call Bldg., San Francisco, at \$30,494.70 submitted low bid January 25 to Department of Public Works, S. J. Hester, secretary, to improve Bayshore Blvd., Section "A", Marin to Army Streets, involving:

- (1) 13,000 cu. yds. excavation;
(2) 79,500 sq. ft. heavy traffic asph. concrete pavement;
(3) 240 sq. ft. concrete gutter;
(4) 1140 ft. armored conc. curb;
(5) 12,600 sq. ft. 1-course conc. sidewalk;
(6) 910 ft. 12-in. V.C.P. sewer;
(7) 30 12x6-in. Y or T branches;
(8) 230 ft. 6-in. V.C.P. side sewer;
(9) 130 ft. 10-in. V.C.P. culvert;
(10) 5 rick manholes;
(11) 2 brick catchbasins;
(12) 3 brick catchbasins, reset;
(13) 350 ft. 2x6-in. redwood header;

Table with 6 columns (A-F) and 23 rows of bid prices for items 1-23.

- (14) 1 safety island;
(15) 2 high pressure hydrant lines, reconstruct;
(16) 800 cu. yds. ballast rock;
(17) 6900 sq. ft. 2-in. asph. concrete wearing surface;
(18) 1200 sq. ft. 1-in. do;
(19) 120 ft. granite curb, reset;
(20) 110 ft. concrete curb, reset;
(21) 200 ft. 1 1/2-in. galv. conduit;
(22) 35 tons asph. conc. wear. surf.;
(23) 35 tons asph. conc. binder course.

Complete bids follow:
(A) Union Paving Co. \$30,494.70
(B) Fay Imp. Co. 30,763.80
(C) MacDonald & Kahn 30,986.90
(D) C. L. Harney 32,135.00
(E) Eaton & Smith 33,713.80
(F) Pacific Pavements 33,899.20
(G) E. J. Treacy 35,265.20
(H) Bureau of Street Repairs 35,921.75

Table with 8 columns (A-H) and 23 rows of unit bids for items 1-23.

ARIZONA STATE—H. L. Royden, 14 N 12th Ave., Phoenix, awarded the contract by State Highway Commission, Phoenix, January 16 at \$11,023.80 for highway construction on the Nevada-Utah Highway, E-92 (A.F.E. No. 1601). The work, which is located in the extreme northwestern corner of the state, approximately one mile northwest of the town of Littlefield, consists of the addition of four timber spans to the south end of Beaver Dam creek bridge, the excavation of a portion of the upstream channel and the placing of steel jetties, and is to be completed on or before March 31, 1933, involving:

- Beaver Dam Exten. and Protection
(1) 2 squares clear and grub;
(2) 3000 cu. yds. drainage excav. (un-classified);
(3) 1500 cu. yds. approach fill;
(4) 312 cu. yd. mi. approach fill haul;
(5) 26.7 M.B.M. treated timber;
(6) 1.7 M.B.M. untreated timber;
(7) 1040 lin. ft. treated timber piles;
(8) 26 lin. ft. treated timber piles cut-off for 75% of the unit price bid for item 7;
(9) 160 sq. yds. sand asph. wearing surface;
(10) 216 lin. ft. wire mesh and steel hand rail;
(11) 2 water barrels;
(12) 65 units steel jetties.

Non-Federal Aid

- (13) 604 sq. yds. sand asph. wearing surface.

The total bids were:
(A) H. L. Royden, Phoenix, \$11,023.80.
(B) Ralph Pleasant Const. Co., Phoenix, \$12,578.75.

Table with 3 columns (A-C) and 13 rows of unit bids for items 1-13.

*These bids are on an approved alternate jetty. H. L. Royden bid \$45.00 per unit on regular specified jetty.

SANTA MARIA, Santa Barbara Co., Cal.—Santa Maria Constr. Co., Santa Maria, submitted low bid to City Council, Jan. 16, at \$13,697.97 (based on ordinary type reinforcing and a mineral type composition roofing) to construct ring tension type concrete reservoir, 140 feet in diameter, and 14 ft. high, with a capacity of 1,500,000 gallons. York Peterson, city engineer, prepared the plans. Bids were taken as follows:

- (1) ordinary type reinforcing with mineral composition roofing;
(2) same with redwood roof;
(3) Hewitt type reinforcing with mineral composition roofing;
(4) same, with redwood roof.

The bids were taken under advisement until 7:30 P. M., January 19. Bidders follow:

- (A) Santa Maria Construction Co.
(B) Sidney Smith.
(C) Doane Bldg. Co., Santa Maria.
(D) H. G. Klusman.

The bids were, (A) being the first bidder, etc.:

Table with 5 columns of bid prices for items 1-5.

DRY DOCK PUMPING EQUIPMENT—CRISTOBAL, C. Z.

PANAMA CANAL ZONE.—As previously reported, Dayton Dowd Co., Quincy, Ill., at \$10,078 submitted low bid to General Purchasing Officer, Panama Canal Zone, Washington, D. C., to furnish pumping equipment for new dry dock at Cristobal, involving:

- (1) 2 main vertical pumps with motors and controllers;
- (1a) 2 main horizontal pumps with motors and controllers;
- (2) 2 main vertical pumps with motors and controllers (alt.);
- (3) 1 bilge pump;
- (4) 2 suction valves;
- (5) 2 discharge valves;
- (6) 2 high pressure pumps;

- (7) 1 dry dock flushing pump with motor and controller.
- (8) 2 calsson pumps.

Complete list of bidders follows:

- (A) Dayton-Dowd Co., Quincy, Ill.
- (B) Worthington Pump & Mch. Co., Washington, D. C., and Harrison, N. J.
- (C) Warren Steam Pump Co., Warren, Mass.
- (D) Newport News Shipbuilding and Dry Dock Co., Newport News, Va.
- (E) Ingersoll-Rand Co., New York.
- (F) Yeoman Bros. Co., Chicago.
- (G) Economy Pumping & Machinery Co., Chicago.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
(1) .. \$..	\$11,612	\$14,924	\$..	\$..	\$..	\$..	\$..
(1a) .. 10,078	10,949	.....	16,900	18,320	.....	.....	.....
(2) .. 1,226	1,677	1,654	.....	.....	1,550	2,185	.....
(3) .. 486	540	886	.....	.....	740	828	.....
(4)	1,656	.....	.....	.....	.....	.....	.....
(5)	1,856	.....	.....	.....	.....	.....	.....
(6) .. 1,338	1,446	.....	.....	1,793	.....	.....	.....
(7) .. 851	1,034	.....	.....	.....	.....	1,300	.....
(8) .. 930	717	.....	.....	961	1,280	1,832	.....

6.4-MI. GR. & OIL—SANTA CRUZ--SANTA CLARA CO.

SANTA CRUZ AND SANTA CLARA CO., Cal.—Union Paving Co., Call Bldg., San Francisco, at \$288,468.30 submitted low bid January 25 to State Highway Commission, Sacramento, to grade and oil about 6.4 mi. between Saratoga Gap and Black Road, involving:

- (1) 72 acres clear and grub right-of-way;
- (2) 1336 remove trees, size 1;
- (3) 300 do, size 2;
- (4) 200 do, size 3;
- (5) 28 do, size 4;
- (6) 14 do, size 5;
- (7) 70 remove stumps, 18-in. diameter and over;
- (8) 940,000 cu. yds. rdwy. excav., unclass.;
- (9) 5,536,700 sta. yds. overhaul;
- (10) 6,300 cu. yds. struc. excav.;
- (11) 105 cu. yds. Class A cem. conc. struc.;
- (12) 6,500 lbs. bar reinf. steel (struc.);
- (13) 4004 lin. ft. 8-in. perf. metal pipe underdrain;
- (14) 1224 lin. ft. 8-in. corr. metal pipe
- (15) 6320 lin. ft. 18-in. do;
- (16) 520 lin. ft. 24-in. do;
- (17) 7200 M. gals. water (embank.);
- (18) 1810 bbls. heavy fuel oil;
- (19) 200 cu. yds. rubble masonry;
- (20) 122 timber culvert markers;

- (21) 200 lin. ft. laminated timber guard rail;
 - (22) 8.4 miles new woven wire fence;
 - (23) 4.4 miles new barbed wire fence;
 - (24) 37 fence gates;
 - (25) 9000 ft. b.m. redwood timber, dense select all-heart structural grade;
 - (26) 13,000 ft. do, sel. all-heart struc. grade;
 - (27) 18 redwood covers for drop inlets;
 - (28) 338 sta. finish roadway;
 - (29) 121 monuments complete in place.
- State will furnish corrugated metal pipe, perforated metal pipe and spillway assemblies.
- Complete bids follow:
- (A) Union Paving Co., San Francisco, \$288,468.30.
 - (B) Granfield, Farrar & Carlin, \$301,559.60.
 - (C) von der Hellen & Pierson, \$343,865.50.
 - (D) Merritt-Chapman & Scott, \$355,814.90.
 - (E) C. W. Wood, Stockton, \$358,648.
 - (F) Guy F. Atkinson Co., San Francisco, \$376,432.90.
 - (G) MacDonald & Kahn, San Francisco, and D. McDonald, Sacramento, \$416,373.40.
 - (H) S. J. Groves & Sons, Los Angeles, \$460,882.10.
- Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
(1).....	\$320.00	\$250.00	\$200.00	\$100.00	\$500.00	\$350.00	\$ 75.00	\$200.00
(2).....	2.00	.75	1.50	.50	3.00	1.00	1.50	1.25
(3).....	3.00	1.50	2.00	1.00	8.00	4.00	10.00	1.75
(4).....	4.00	2.00	3.00	2.00	12.00	8.00	15.00	2.50
(5).....	8.00	4.00	4.00	3.00	25.00	20.00	30.00	4.00
(6).....	15.00	6.00	5.00	5.00	50.00	25.00	40.00	5.00
(7).....	5.00	2.00	4.00	1.00	10.00	10.00	20.00	2.50
(8).....	.215	.245	.28	.33	.27	.31	.327	.40
(9).....	.005	.004	.005	.002	.005	.004	.01	.005
(10).....	.60	.75	.75	.60	.50	1.00	1.00	1.00
(11).....	12.00	15.00	20.00	16.00	20.00	22.00	22.00	25.00
(12).....	.03	.04	.05	.03	.05	.05	.05	.05
(13).....	.60	.50	.70	.60	.50	.50	.25	.20
(14).....	.60	.20	.30	.15	.25	.15	.35	.20
(15).....	.60	.25	.30	.20	.25	.25	.50	.25
(16).....	.60	.30	.30	.20	.50	.50	.75	.40
(17).....	.30	.80	1.00	.40	1.00	.50	1.50	1.50
(18).....	3.00	1.80	2.00	1.60	1.50	2.25	2.75	3.00
(19).....	4.00	7.00	10.00	9.00	8.00	10.00	14.00	12.00
(20).....	2.00	2.00	2.00	1.00	2.00	2.50	2.00	1.50
(21).....	.70	.75	.75	.55	1.00	1.00	.80	.80
(22).....	470.00	350.00	450.00	500.00	450.00	500.00	450.00	400.00
(23).....	300.00	300.00	400.00	325.00	350.00	350.00	375.00	300.00
(24).....	12.00	11.00	15.00	12.00	10.00	20.00	12.00	15.00
(25).....	70.00	60.00	85.00	60.00	70.00	75.00	70.00	75.00
(26).....	58.00	55.00	80.00	50.00	70.00	70.00	65.00	75.00
(27).....	5.00	3.00	2.00	5.00	5.00	2.00	2.50	5.00
(28).....	5.00	4.00	4.00	2.00	3.00	1.00	5.00	4.00
(29).....	3.00	2.00	2.00	2.50	2.00	3.00	2.50	3.00

SANTA CLARA, Cal. — Following bids received January 16 by city council to furnish electrolers for Franklin St. from Grant St. to Lincoln St., on items as follows:

- 68 16-ft. C. I. Standards
- Westinghouse Electric \$71.50
 - NePage-McKenny Corp. 75.55
 - H. C. Miller, Santa Clara .. 85.00
- 68 16-ft. Standard 15¾ Globe
- Westinghouse Electric \$66.75
- 68 17-ft. Standards 17-in. Globe
- Westinghouse Electric \$75.00
- 68 17-ft. Standards 15¾ Globe
- Westinghouse Electric \$70.25
- 68 Steel Shaft Type
- Union Metal Co. (16-ft.).....\$58.00
 - (17-ft.)..... 69.90
- 68 16-ft. 9-in. Ferronite Standards
- Union Metal Co.) 59.50
- 68 16-ft. Steel Shaft
- Taper Tube Co. \$70.50
 - NePage-McKenny Corp. 75.55
- 68 17-ft. Steel Shaft
- Taper Tube Co. \$73.00
- 10 k. v. a. Regulator
- Identical bids at \$360 by Graybar Electric, General Electric Supply Co., General Electric Co., Westinghouse Electric, Union Metal Co., Taper Tube Co., and H. C. Miller.

15 k. v. a. Regulator

Identical bids at \$414 by the same firms.

- No. 6 Lead Cable, 1500-Volt
- General Cable Corp. \$43.60
 - H. C. Miller..... 47.00
 - Graybar Electric 47.36
 - General Electric Supply Co. 51.58
 - General Electric Co. 51.58
 - Maydwell & Hartzell 57.50
 - John A. Roebing Sons Co. 61.60
 - Westinghouse Electric 61.60

No. 6 Lead Cable, Solid, 1500-Volt

- Westinghouse Electric \$57.00

- No. 6 Lead Covered Cable, 2500-Volt
- General Cable Corp. \$49.80
 - H. C. Miller 52.03
 - Graybar Electric 53.30
 - General Electric Supply Co. 54.10
 - General Electric Co. 54.10
 - Maydwell & Hartzell 63.50
 - John A. Roebing Sons Co. 70.00
 - Westinghouse Electric 70.10

No. 6 Lead Covered Solid

- Westinghouse Electric \$65.50

- No. 6 Rubber Covered Standard Cable
- General Electric Supply Co. \$27.53
 - General Electric Co. 27.53
 - General Cable Corp. 27.90
 - Maydwell & Hartzell 29.50
 - Graybar Electric Co. 31.20
 - H. C. Miller 31.20
 - Westinghouse Electric 34.10
 - John A. Roebing Sons Co. 37.30

Control Switch, 2300 Volt

- Westinghouse Electric Co. \$70.95
- Graybar Electric 90.00
- General Electric Supply Co. 90.00
- General Electric Co. 90.00
- Union Metal Co. 90.00
- Taper Tube Co. 90.00
- H. C. Miller 90.00

OAKLAND, Cal.—Contractors' Machinery Exchange, 1135 57th Avenue, Oakland, at \$4500, submitted low bid to East Bay Municipal Utility Dist., Oakland, to construct and furnish f. o. b. Valley Springs, Calaveras county, on slackline cableway excavator, capacity 26 cu. ft., complete with bucket and carrier blocks, track, tension and hoisting cable and hosting engine. Complete bids follow:

- Contractors Mach. Exchange.....\$4500
- Washington Iron Works, S. F. 5175
- Alternate 5525
- Alternate 6080
- Alternate 6430
- Edw. R. Bacon Co., S. F. 6093
- Jenison Machinery Works, S. F. 6317
- Harron, Rickard, McCone, S. F. 7187

Bids held under advisement.

INTERCEPTING SEWERS—VENTURA BLVD.—L. A.

LOS ANGELES, Cal.—J. C. Hickey, 320 S Palm Ave., Alhambra, submitted low bid to board of public works Jan. 25 at \$63,410.04 for the construction of three intercepting sewers and two local sewers in the Ventura Blvd. and Milbank St. Sewer District, under the 1911 act. The interceptors are: First—Van Nuys Blvd. bet. Milbank St. produced and Ventura Blvd., Milbank St. bet. Woodman Ave. and Van Nuys Blvd., and Woodman Ave. bet. north outfall sewer and Milbank; second—Ethel Ave. bet. Moorpark St. and Ventura Boulevard; third—Laurel Grove Ave. bet. Valleyheart Dr. and Ventura Blvd., Valleyheart Drive bet. Laurel Canyon Blvd. and Laurel Grove Ave., and Laurel Canyon Blvd. bet. Woodbridge St. and Valleyheart Dr. north. The two local sewers are: Robler Place bet. its east terminus and Tyrone Ave. and Dunbar Place bet. its east terminus and S Sherman Way. The total length of the sewer is 18,331.49 lin. ft. and the average

depth of structures exclusive of clean-out manholes, is 14.5 ft. The resurfacing will include both decomposed granite and rock and oil.

Bids were taken on items as follows:

- (1) sanitary sewer;
- (2) 3989 ft. house connections;
- (3) 98.7 ft. 6-in. chimney pipe;
- (4) 8,600 sq. ft. Class AAA resurf.;
- (5) 94,112 sq. ft. Class AA resurf.;
- (6) 5,986 sq. ft. Class A resurf.;
- (7) 302 sq. ft. Class C resurf.;
- (8) 92 sq. ft. Class D resurf.;
- (9) 6597 sq. ft. 4-inch decomposed granite resurf.
- (10) 230 sq. ft. sidewalk resurf.;
- (11) 92 ft. curb resurf.

Complete bids follow:

- (A) J. C. Hickey.....\$63,413.04
- (B) Martin Const. Co..... 68,272.71
- (C) Leo Miletich..... 70,896.66
- (D) Artukovich Bros..... 85,759.58
- (E) Bebek & Brkich..... 99,707.71
- (F) Engineer's estimate..... 56,804.86

Unit bids follow:

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
(A).....	\$55,000	\$1.00	\$2.00	\$.03	\$.025	\$.20	\$.50	\$.50	\$.02	\$.15	\$.60
(B).....	56,390	2.00	2.50	.03	.02	.15	.30	.35	.06	.14	.75
(C).....	64,000	.85	2.00	.03	.02	.12	.20	.25	.05	.10	.15
(D).....	75,968	1.50	1.75	.045	.02	.12	.25	.30	.07	.14	.55
(E).....	93,000	.95	2.50	.03	.015	.10	.22	.25	.035	.20	.40
(F).....	48,560	1.10	2.00	.035	.02	.15	.30	.25	.06	.14	.40

SAN FRANCISCO.—Severin Electric Co., 172 Clara St., a \$6382 submitted low bid to Dept. of Public Works for ornamental street lights on Bayshore Blvd., Army St. to county line. Complete bids follow:

- Severin Electric.....\$6382
- Radelfinger Bros..... 8500
- Weidenthal-Gosliner..... 8650
- H. S. Tittle..... 8700
- L. Flatland..... 9000

Bids held under advisement.

SAN MATEO COUNTY, Cal.—Unlon Paving Co., Call Bldg., San Francisco at \$7982 submitted low bid to District Engineer, State Highway Commission, 211 State Bldg., San Francisco, to grade and surface with asphaltic concrete 0.2 mile between Lawndale and Baden, involving:

- (1) 2,750 cu. yds. imp. borrow;
- (2) 800 tons crusher run base;
- (3) 1,650 tons asph. concrete;
- (4) 4 tons emulsified asph. road oil;
- (5) 40 tons screenings;
- (6) 40 cu. yds. struc. excav.;
- (7) 66 lin. ft. 30-in. corr. metal pipe
- (8) 3 cu. yds. Class A Port. cement concrete (struc.);
- (9) 90 lbs. bar reinf. steel (struc.);
- (10) 12 sta. finish roadway.

Complete bids follow:

- (A) Union Paving Co.....\$ 7,982.00
- (B) Hanrahan Co..... 8,534.00
- (C) Eaton & Smith..... 8,713.90
- (D) Fay Imp. Co..... 11,326.20
- (E) Pacific Pavements Co..... 11,933.60

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)
(1).....	\$.30	\$.30	\$.40	\$.58	\$.71
(2).....	1.00	1.50	1.25	2.76	1.56
(3).....	3.65	3.75	3.50	4.27	5.06
(4).....	20.00	20.00	20.00	25.00	24.50
(5).....	1.20	1.50	2.50	3.00	1.50
(6).....	1.00	.75	1.00	3.00	1.25
(7).....	1.00	.50	.90	.35	.60
(8).....	16.00	18.00	25.00	17.00	20.00
(9).....	.05	.05	.05	.04	.05
(10).....	4.00	5.00	40.00	5.00	6.00

10.2-MI. GRADE & PAVE—SAN BERNARDINO COUNTY

SAN BERNARDINO COUNTY, Cal.—United Concrete Pipe Corp., Box 1, Station H, at \$309,386.30 submitted low bid Jan. 25 to State Highway Commission, Sacramento, to grade and pave with Portland cement concrete 10.2 mi. between Vineyard Ave. and Sierra Ave., involving:

- (1) 541 sta. clear and grub right-of-way;
- (2) 58,600 cu. yds. rdwy. excav., unclass.;
- (3) 2,250,000 sta. yds. overhaul;
- (4) 43,800 cu. yds. imported borrow;
- (5) 120 cu. yds. selected material;
- (6) 3450 cu. yds. struc. excav.;
- (7) 118,660 sq. yds. subgrade for pave.
- (8) 25,250 cu. yds. Class A cement concrete (pave.);
- (9) 1416 cu. yds. do (struc.);
- (10) 729,000 lbs. bar reinf. steel (pave. and struc.);
- (11) 240 lin. ft. 18-in. corr. metal pipe;
- (12) 960 lin. ft. 24-in. do;
- (13) 504 lin. ft. 36-in. do;
- (14) 5600 M. gals. water;
- (15) 9000 bbls. heavy fuel oil;
- (16) 80 cu. yds. concrete remove from exist. pave. and struc. and dis-

- pose of;
 - (17) 0.2 mile existing fence, remove and reset;
 - (18) remove and rearrange trellis;
 - (19) 11 miles paint traffic stripe;
 - (20) 541 sta. finish roadway;
 - (21) 135 monuments complete in place
- State will furnish corrugated metal pipe and lacquer.

Complete bids follow:

- (A) United Conc. Pipe Corp., Los Angeles, \$309,386.30.
- (B) Mattich Bros., Elsinore, \$319,883.50.
- (C) Griffith Co., L. A., \$321,284.10.
- (D) Baisch Bros., Torrance, \$324,643.50.
- (E) Sander Pearson Santa Monica, \$332,683.60.
- (F) E. H. Bashaw, North Hollywood, \$338,505.70.
- (G) Weymouth-Crowell Co., Los Angeles, and E. Penn Watson, Jr., Pasadena, \$342,920.10.
- (H) Hall Johnson Co., Alhambra, \$349,165.80.
- (I) Southern California Roads, Los Angeles, \$365,331.90.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
(1).....	\$ 10.00	\$10.00	\$ 2.50	\$ 5.00	\$ 4.25	\$ 3.50	\$ 5.00	\$ 4.00	\$ 6.30
(2).....	.18	.188	.18	.19	.17	.18	.185	.18	.26
(3).....	.004	.005	.003	.004	.004	.003	.0025	.0025	.0015
(4).....	.30	.35	.30	.32	.27	.52	.285	.52	.57
(5).....	.42	.35	.55	.55	.58	.59	.595	.54	.57
(6).....	.70	.60	.45	.50	.40	.55	.50	.55	.60
(7).....	.06	.085	.06	.08	.0575	.07	.07	.07	.06
(8).....	5.59	6.06	5.97	5.69	6.10	5.70	6.30	6.50	6.60
(9).....	14.00	15.50	13.00	15.00	14.50	15.00	15.00	15.00	14.50
(10).....	.035	.036	.035	.035	.036	.036	.0365	.035	.04
(11).....	.20	.30	.30	.20	.12	.40	.40	.25	.50
(12).....	.25	.35	.40	.25	.30	.50	.40	.30	.55
(13).....	.30	.40	.50	.30	.40	.75	.60	.40	.75
(14).....	1.00	.60	.40	.30	.40	.70	.50	.50	.50
(15).....	1.80	1.54	1.60	1.75	1.75	1.90	1.80	1.75	1.80
(16).....	1.50	2.00	1.00	1.50	1.00	1.25	2.00	1.50	2.50
(17).....	200.00	250.00	300.00	375.00	200.00	400.00	200.00	300.00	250.00
(18).....	300.00	400.00	500.00	400.00	800.00	250.00	250.00	300.00	400.00
(19).....	25.00	9.00	25.00	20.00	12.00	9.00	10.00	8.00	8.00
(20).....	3.00	5.00	3.00	2.50	4.00	2.50	4.00	4.00	6.00
(21).....	2.00	2.00	2.00	1.00	2.00	2.00	3.00	2.50	3.00

OAKLAND, Cal.—Rensselaer Valve Co., 55 New Montgomery Street, San Francisco, at \$4785 (lump sum bid) submitted low bid to East Bay Municipal Utility District, Oakland, to furnish gate valves, as follows:

- (1) 100 4-in. dia. valves;
- (2) 300 6-in. dia. valves;
- (3) 100 8-in. dia. valves.

Complete bids follow (second bid, lump sum):

- (A) Rensselaer Valve Co., \$9550; \$4-785.
- (B) Kennedy Valve Mfg. Co., \$8595; \$5060.
- (C) Walworth California, \$5834; \$5-305.
- (D) Michigan Valve Foundry \$7950; (Merco Nordstrom) \$5364.
- (E) Tay Holbrook, 2% cash, \$6453; \$5867.
- (F) M. & H. Valve Fitting Co., \$8-115; \$5870.
- (G) Waterworks Supply Co., \$7585; \$5,913.
- (H) Grinnell Co., \$6660; \$6660.
- (I) Crane Co., 2% cash, \$7425; \$7000.
- (J) A. P. Smith Mfg. Co., \$8020; (Carl E. Noel) \$8020.
- (K) Travers City Iron Works, \$8769; (R. E. Olson) \$8769.

Unit bids follow:

	(1)	(2)	(3)
(A).....	\$10.50	\$19.00	\$28.00
(B).....	9.45	17.10	25.20
(C).....	5.94	11.27	18.50
(D).....	10.50	15.00	24.00
(E).....	7.61	12.68	18.88
(F).....	9.40	16.00	23.75
(G).....	8.50	14.40	24.15
(H).....	8.00	12.70	20.50
(I).....	9.00	13.75	24.00
(J).....	8.70	16.00	23.50
(K).....	9.45	17.33	26.25

Bids held under advisement.

1.5-MI. GRADE & PORT. CEM. CONC. PAVE—L. A. CO.

LOS ANGELES COUNTY, Calif.—Von der Mellen & Pierson, Castaic, at \$57,678 submitted low bid January 18 to the State Highway Commission, Sacramento, to grade and pave with Portland cement concrete 1.5 miles between Oaks and Vasquez Rock road, involving:

- (1) 81 sta. clear and grub right-of-way;
- (2) 72,000 cu. yds. rdwy excavation, unclassified;
- (3) 205,000 sta. yds. overhaul;
- (4) 1800 cu. yds. struc. excav.;
- (4) 1300 cu. yds. struc. excavation;
- (5) 18,000 sq. yds. subgrade for pave.;
- (6) 3840 cu. yds. Class A Portland cement conc. (pavement);
- (7) 17 cu. yds. Class A do (struc.);
- (8) 87,000 lbs. bar reinf. steel (struc. and pave.);
- (9) 220 lin. ft. 8-in. corru. metal pipe
- (10) 800 lin. ft. 24-in. do;
- (11) 420 lin. ft. 30-in. do;

	(A)	(B)
(1).....	\$10.00	\$10.00
(2).....	.20	.23
(3).....	.005	.005
(4).....	.75	.60
(5).....	.08	.08
(6).....	8.00	8.00
(7).....	20.00	16.00
(8).....	.04	.05
(9).....	.30	.25
(10).....	.30	.40
(11).....	.40	.45
(12).....	1.00	1.25
(13).....	1.00	.50
(14).....	1.80	2.25
(15).....	2.50	2.75
(16).....	2.00	2.00
(17).....	3.00	3.00
(18).....	2.00	2.00

- (12) 400 cu. yds. Portland cem. conc. remove from existing pave. and dispose of;
- (13) 2030 M. gals. water (embank.);
- (14) 300 bbls. fuel oil;
- (15) 140 timber guide posts;
- (16) 24 culvert markers;
- (17) 81 sta. finish roadway;
- (18) 24 monuments complete in place. State will furnish corrugated metal pipe and spillway assemblies. Complete bids follow:
- (A) Von der Hellen & Pierson, Castaic, \$57,678.00.
- (B) Basich Bros., Torrance, \$59,735.
- (C) C. W. Wood, Stockton, \$62,169.50.
- (D) Sander Pearson, Santa Monica, \$62,208.00.
- (E) Artukovich Bros., Hynes, \$64,126.50.
- (F) Griffith Co., Los Angeles, \$65,528.30.

Unit bids follow:

	(C)	(D)	(E)	(F)
(1).....	\$10.00	\$10.00	\$16.00	\$ 6.00
(2).....	.24	.30	.27	.31
(3).....	.005	.005	.004	.002
(4).....	.60	.75	.75	.60
(5).....	.08	.06	.07	.07
(6).....	8.40	7.50	7.85	8.37
(7).....	17.50	15.00	16.00	20.00
(8).....	.038	.04	.04	.035
(9).....	.40	.25	.40	.35
(10).....	.50	.30	.60	.45
(11).....	.60	.40	.70	.55
(12).....	1.00	1.50	1.50	1.50
(13).....	1.00	.70	1.45	1.00
(14).....	2.10	2.00	3.00	1.65
(15).....	2.50	2.00	2.25	2.00
(16).....	2.00	2.00	2.00	2.00
(17).....	5.00	4.00	4.00	3.50
(18).....	3.00	3.00	3.00	1.75

HIGHWAY CONSTRUCTION—LAS VEGAS—STATE

CLARK COUNTY, Nevada—As previously reported, Olof Nelson, Logan, Utah, at \$159,209.01 awarded contract January 11 by State Highway Department, Carson City, for highway construction, 1.607 miles on Fifth Street, Las Vegas, to 1650 ft. NE of north city limits; also 1.97 miles Bard to Las Vegas; also 1650 ft. NE of north city limits, Las Vegas to 6 miles SW of Apex Summit, involving:

- (1) 34,150 cu. yds. rdwy. excav.;
- (2) 3580 cu. yds. struc. excav.;
- (3) 19,939 cu. yds. select borrow;
- (4) 6881 sta. yds. overhaul;
- (5) 57,055 sq. yds. subgrade for pave.
- (6) 2 demolish culvert inlets and outlets;
- (7) 12,620 cu. yds. cem. conc. pave.;
- (8) 5,850 lbs. castings;
- (9) 222 cu. yds. Class A concrete;
- (10) 5 cu. yds. Class B concrete;
- (11) 48 lin. ft. 15-in. corru. metal pipe;
- (12) 184 lin. ft. 18-in. do;
- (13) 112 lin. ft. 24-in. do;
- (14) 42 lin. ft. 30-in. do;

	(A)	(B)
(1).....	\$.30	\$.22
(2).....	.65	.75
(3).....	.50	.60
(4).....	.04	.005
(5).....	.07	.045
(6).....	15.00	5.00
(7).....	8.53	9.00
(8).....	.15	.05
(9).....	20.00	16.00
(10).....	20.00	16.00
(11).....	1.00	.90
(12).....	1.10	1.05
(13).....	1.70	1.60
(14).....	2.20	2.10
(15).....	1.50	2.50
(16).....	2.00	2.80
(17).....	.32	.35
(18).....	.40	.40
(19).....	1.00	.50
(20).....	20.00	10.00
(21).....	100.00	300.00
(22).....	.042	.043
(23).....	.60	1.50
(24).....	4.00	3.00

- (15) 156 lin. ft. 24-in. part circle corrugated metal pipe;
- (16) 86 lin. ft. 30-in. do;
- (17) 15,276 lin. ft. 6-in. tile drain;
- (18) 166 lin. ft. 8-in. do;
- (19) 30 lin. ft. remove pipe culverts;
- (20) 22 corru. metal pipe culvert extensions;
- (21) 3.91 miles finish roadway;
- (22) 259,700 lbs. reinf. steel;
- (23) 2,600 cu. yds. gravel backfill;
- (24) 20 cu. yds. demolish concrete.

- Complete bids follow:
- (A) Olof Nelson, Logan, Utah, \$159,209.01.
 - (B) Jack Casson, Hayward, \$165,360.49.
 - (C) M. J. Bevanda, Stockton, \$173,305.85.
 - (D) Mahoney - Cline Co., Las Vegas, \$181,767.03.
 - (E) Jas. J. Burke & Co., Salt Lake, \$191,921.56.
 - (F) Engineer's estimate, \$162,811.74.

Unit bids follow:

	(C)	(D)	(E)	(F)
(1).....	\$.30	\$.435	\$.80	\$.40
(2).....	1.00	1.00	1.00	1.00
(3).....	.50	.55	.77	.50
(4).....	.03	.03	.03	.04
(5).....	.10	.09	.04	.08
(6).....	25.00	5.00	10.00	5.00
(7).....	9.20	9.25	9.60	8.25
(8).....	.07	.10	.10	.15
(9).....	22.00	25.00	16.00	25.00
(10).....	22.00	30.00	16.00	24.00
(11).....	1.20	1.25	1.05	1.10
(12).....	1.50	1.50	1.20	1.25
(13).....	2.00	2.00	2.00	1.75
(14).....	2.50	3.00	2.30	2.50
(15).....	2.00	2.00	1.80	1.20
(16).....	2.50	3.00	2.30	2.50
(17).....	.32	.30	.30	.40
(18).....	.50	.40	.70	.45
(19).....	1.00	.50	.50	.50
(20).....	15.00	13.00	20.00	7.50
(21).....	300.00	200.00	50.00	100.00
(22).....	.04	.0475	.03	.04
(23).....	1.50	1.75	1.30	.70
(24).....	3.00	6.00	10.00	7.00

LOS ANGELES, Cal.—As previously reported, George Rowland, 146 E 59th St., Los Angeles, at \$9,241 submitted low bid to Metropolitan Water District Jan. 12 for work under Schedule No. 1 (trench excavation and backfill) for the construction of pipe lines and reservoirs for Sections 6 and 7 of the construction water supply system for the Colorado River Aqueduct, involving:

- Schedule No. 1.—Excavating and backfilling trench for Sections 6 and 7 of the Construction Water Supply System. District reserves the option to omit items 3 and 4 from the award.
- (1) 175,000 lin. ft. excavation trench 18-in. wide and 18- to 30-in. deep and backfill same;
 - (2) 200 cu. yds. excavation trench deeper than 30-in.;
 - (3) 37,000 lin. ft. excavate trench 18-in. wide and 18- to 30-in. deep for Coachella Valley lift line and backfilling same;
 - (4) 50 cu. yds. excavate trench deeper than 30-in. for Coachella Valley lift line.

- Complete bids follow:
- (A) George Rowland \$ 9,241.00
 - (B) Marko Matick 11,837.50
 - (C) Lynch-Cannon Eng. Co. 13,157.00
 - (D) Clark & Campbell and A. J. Callhan 13,983.50
 - (E) Macco-Robertson, Ltd 14,665.00
 - (F) Kemper Const. Co. and Lang Transportation Co. 15,324.50
 - (G) Lindgren & Swinerton 16,729.00
 - (H) Lee R. Weber 17,460.00
 - (I) Mlagenovich & Gillespie 17,675.00
 - (J) American Concrete and Steel Pipe Co. 17,975.00
 - (K) H. M. Baruch Corp. and Robinson-Roberts Co. 18,685.00
 - (L) J. B. McIntosh 18,993.50
 - (M) M. N. Guho 19,392.50
 - (N) Winston Bros. Co. 20,267.50
 - (O) Stroud Bros. and Seabrooke 20,515.00
 - (P) J. E. Haddock 21,575.00
 - (Q) J. C. Hickey 21,575.00
 - (R) Asbury Trans. Co. 23,215.00
 - (S) Ray Schweitzer 23,715.00
 - (T) Martin Const. Co. 23,757.50
 - (U) R. G. Whinery 29,950.00
 - (V) Chutkan, Cordich & Vukojevich 30,680.00

Unit bids follow:

	(1)	(2)	(3)	(4)
(A).....	\$.043	\$.50	\$.043	\$.50
(B).....	.055	.70	.055	.75
(C).....	.061	.90	.061	.90
(D).....	.0665	.80	.058	.80
(E).....	.007	3.00	.045	3.00
(F).....	.071	1.09	.071	1.09
(G).....	.074	1.50	.092	1.50
(H).....	.08	2.00	.08	2.00
(I).....	.087	1.00	.06	1.00
(J).....	.08	1.00	.10	1.50
(K).....	.088	1.25	.08	1.50
(L).....	.0895	.30	.088	.30
(M).....	.09	1.25	.09	1.25
(N).....	.095	1.25	.09	1.25
(O).....	.095	1.50	.095	1.50
(P).....	.10	1.50	.10	1.50
(Q).....	.10	1.50	.10	1.50
(R).....	.115	2.00	.07	2.00
(S).....	.12	.50	.07	.50
(T).....	.14	.75	.11	.75
(U).....	.01475	1.75	.10	1.75
(V).....	.14	4.00	.14	4.00

BAKERSFIELD, Kern Co., Cal.—F. A. Hopper, Bakersfield, at \$.47 per barrel awarded contract by the city council to furnish road oil for year ending December 31, 1933. Complete bids follow:

- F. A. Hopper, Bakersfield, \$.47.
- Associated Oil Co., San Francisco, \$.475 to June 30; \$.50 July 1 to Dec. 31, 1933.
- Standard Oil Co., San Francisco, \$.65 per barrel.

MUNI. WATER SYSTEM — SOLEDAD — BIDS OPENED

SOLEDAD Monterey Co. Cal.—Earl W. Heple, 494 Delmas Ave., San Jose, at \$21,115.75 for alternate A, and \$21,348.65 for alternate B submitted low bid to city council to construct municipal water system, consisting of wells, pumps, motors, wiring, storage reservoirs, tanks and all other equipment. C. C. Kennedy, Cal Bldg., engineer. Project involves:

Distributing System

- (1) 1950 lin. ft. 8-in. main;
- (2) 7400 lin. ft. 6-in. do;
- (3) 7610 lin. ft. 4-in. do;
- (4) 1730 lin. ft. 2-in. do;
- (5) 4 8-in. gate valve;
- (6) 40 6-in. do;
- (7) 12 4-in. do;
- (8) 4 2-in. do;
- (9) 23 hydrants;
- (10) 14,600 lbs. fittings for pipe;
- (11) 200 lin. ft. 3/4-in. copper service pipe;
- (12) 1200 lin. ft. 3/4-in. galvanized service pipe;
- (13) 100 services to be installed, including corporation cocks.

Reservoir (100,000 gal.) Under Two Alternates

Alternate A—reinforced concrete.

- (14) 1950 cu. ft. concrete;
- (15) 7000 lbs. reinf. steel;
- (16) 11,000 facing brick;

Alternate B

- Hewitt type concrete, reinf. vertically only, bands and turnbuckles.
- (17) 1680 cu. ft. concrete;
- (18) 3700 lbs. reinf. steel;
- (19) 27 bands with turnbuckles;
- (20) 1860 sq. ft. Gunite surfacing;
- (21) 120 cu. yds. excavation;
- (22) roof, complete;
- (23) inlet and outlet piping;
- (24) drainage sump;

Pump House

- (25) 35 cu. yds. excavation;
- (26) 460 cu. ft. concrete;
- (27) superstructure (steel, metal lath, plaster);

Pumping Equipment

- (28) 1 1100-g.p.m. fire pump;
- (29) 1 gasoline engine for the above pump;

- (30) 2 150-g.p.m. pumps and electric motors;
- (31) miscellaneous equipment;
- (32) 2 3-in. meters;
- (33) 1 sump pump.

Complete bids follow:

- (A) Earl W. Heple, San Jose, (A) \$21,115.75; (B) \$21,348.65.
- (B) Scott Co., San Francisco, (A) \$21,966.95; (B) \$22,169.20.
- (C) Stroud Bros. & Seabrooke, Bakersfield, (A) \$22,001.55; (B) \$21,948.95.
- (D) J. J. Ongero, San Anselmo, (A) \$23,171.20; (B) \$23,037.10.
- (E) W. J. Tobin, Oakland, (A) \$25,375.60; (B) \$25,780.49.
- (F) Contr. Engrs., Inc., Los Angeles, (A) \$26,064.10; (B) \$26,181.10.
- (G) Herman Lawson, San Francisco, (A) \$26,152.13; (B) \$26,025.53.
- (H) Hall-Johnson Co., Alhambra, (A) \$27,731.50; (B) \$27,632.90.
- (I) Robt. B. McNair, Oakland, (A) \$29,172.60; (B) \$29,219.60.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
(1)	.87	.988	.94	.95	1.07	1.10	1.055	1.40	1.25
(2)	.66	.758	.71	.73	.86	.88	.82	.90	.96
(3)	.47	.539	.53	.56	.69	.66	.59	.80	.70
(4)	.35	.372	.375	.41	.54	.50	.42	.65	.45
(5)	29.00	34.50	29.30	29.75	31.00	33.00	36.50	28.00	27.70
(6)	19.00	19.93	17.60	22.00	20.00	23.00	23.75	20.00	18.10
(7)	13.50	13.60	11.70	14.40	14.00	15.25	17.34	13.00	13.00
(8)	8.50	9.50	6.15	11.00	8.50	11.50	10.00	10.00	8.45
(9)	45.00	39.13	48.20	42.00	45.00	49.00	40.00	45.00	50.00
(10)	.06	.06	.06	.06	.06	.05	.055	.07	.055
(11)	.27	4.15	.20	.30	.40	.33	1.17	.25	.50
(12)	.24	.247	.18	.25	.25	.28	.37	.23	.40
(13)	4.00	2.76	3.00	4.50	6.00	2.50	7.97	4.00	4.50
(14)	.61	.59	.63	.83	1400.00	.60	.8733	.70	1.00
(15)	.042	.0325	.045	.04	.044	.05	.04	.06	.06
(16)	28.00	39.00	35.00	42.00	34.00	30.00	48.00	40.00	47.00
(17)	.85	.74	.75	.83	1.00	.60	.9433	.85	1.00
(18)	.042	.0325	.045	.04	.04	.05	.04	.06	.06
(19)	6.00	7.20	7.00	15.00	14.07	8.00	14.30	8.00	21.00
(20)	.15	.24	.14	.15	.15	.30	.1425	.14	.25
(21)	.65	.40	1.00	1.00	1.00	2.50	.72	1.00	1.00
(22)	350.00	185.00	260.00	350.00	175.00	250.00	353.00	320.00	350.00
(23)	117.00	100.00	75.00	100.00	35.00	200.00	406.00	100.00	86.00
(24)	165.00	102.00	100.00	115.00	100.00	200.00	100.00	150.00	100.00
(25)	.65	.50	1.00	.70	1.00	2.50	.86	1.00	1.00
(26)	.78	.54	.63	.75	1.00	7.00	1.78	.8	1.00
(27)	700.00	890.00	760.00	725.00	690.00	800.00	980.00	725.00	750.00
(28)	400.00	343.00	490.00	470.00	475.00	470.00	556.00	525.00	500.00
(29)	1850.00	834.00	925.00	900.00	895.00	1000.00	608.00	1000.00	900.00
(30)	300.00	266.00	187.50	200.00	202.50	200.00	241.00	420.00	208.00
(31)	220.00	997.00	1100.00	925.00	939.00	1200.00	988.00	900.00	2588.00
(32)	100.00	200.00	170.00	86.50	121.00	15.00	140.00	250.00	125.00
(33)	80.00	80.00	75.00	70.00	70.00	250.00	69.00	100.00	75.00

LOS ANGELES, Cal.—Richfield Oil Co. awarded contract by the Metropolitan Water District January 27 at \$11,727 to furnish 900,000 gals. 65-70 road oil, f.o.b. insulated tank cars or trucks, bidder's plant, Watson, Cal. The price was 1.303c per gal. The bids were opened Dec. 30.

LOS ANGELES, Cal.—Geo. Nelson, 174 Savano Walk, Long Beach, submitted low bid to Board of Public Works, Jan. 25, at \$2070.18 to improve Towne Ave., between Florence Ave. and 74th Street, under Cash Contract, involving:

- (1) grading (483 cu. yds. excav. and no fill, incl. removal of existing improvement);
- (2) 10,608 sq. ft. 6-in. concrete paving;
- (3) 580 ft. unplas. light curb;
- (4) 2941 sq. ft. 3-in. concrete sidewalk.

Complete bids follow:

- (A) George Nelson.....\$2070.18
- (B) Arthur E. Pearson.....2193.40
- (C) John Topich.....2206.18
- (D) Kresich Bros.....2312.14
- (E) Griffith Co.....2312.73

- (F) P. V. Yarak.....2393.99
- (G) W. E. Mayo.....2470.50
- (H) T. E. Shafer.....2489.17
- (I) G. R. Curtis Paving Co.....2531.95
- (J) Bob Bosko.....2590.33
- (K) Martter & Bock, Ltd.....2666.99
- (L) Geo. A. Shepard.....2672.27
- (M) Geo. H. Oswald.....2831.45
- (N) A. A. Alexander.....2900.92
- (O) Associated Constructors.....3185.65
- (P) Engineer's estimate.....2376.63

Unit bids follow:

	(1)	(2)	(3)	(4)
(A)	\$300.00	\$.12	\$.35	\$.10
(B)	170.00	.148	.315	.092
(C)	465.00	.12	.30	.10
(D)	135.00	.16	.32	.10
(E)	325.00	.135	.40	.11
(F)	175.00	.165	.38	.10
(G)	300.00	.155	.40	.10
(H)	265.00	.1625	.33	.105
(I)	250.00	.16	.45	.11
(J)	240.00	.1675	.38	.12
(K)	360.00	.164	.42	.11
(L)	225.00	.17	.40	.14
(M)	385.00	.17	.50	.12
(N)	229.00	.20	.34	.12
(O)	445.00	.19	.54	.14
(P)	265.00	.145	.38	.12

POINT REYES, Marin Co., Calif.—John M. Peters, 797 35th Ave., San Francisco, at \$604 submitted low bid to Public Works Officer, U. S. Navy Yard, Mare Island, for fences and walks at the U. S. Naval Direction Finder Station, Point Reyes, under Spec. No. 7007. Complete bids follow:

- J. M. Peters, San Francisco.....\$ 604.00
- L. Giambastiani, Pt. Reyes.....656.50
- W. Bernard, Oakland.....688.00
- P. A. McDougall, San Anselmo.....723.65
- Jas. Currie, Burlingame.....788.00
- Theo. Johanns, S. F.....798.00
- Petaluma Const. Co.....886.00
- Siemer & Kendall, San Rafael.....987.00
- Paris Bros., Berkeley.....997.95
- J. Gonsalves, San Leandro.....1,025.00
- Roy Lind, San Francisco.....1,070.00
- P. E. Van Gray, Pt. Reyes.....1,090.00
- F. J. Reilly, S. F.....1,185.00
- Anchor Post Fence Co., S. F. 1,250.00
- E. R. Jameson, Sacramento.....1,320.00
- Helm Bros., Petaluma.....1,817.00

Bids held under advisement.

ENGINEERING NEWS

BRIDGES

SAN FRANCISCO — As previously reported, until March 7, 2 P. M., bids will be received by the Department of Public Works, Room 235, City Hall, San Francisco, to construct the Superstructure (except cables) West Bay Crossing San Francisco-Oakland Bay Bridge, and under a separate contract, the cables and attachments, West Bay Crossing, involving:

- Contract No. 6—Superstructure**
- (1) 37,000,000 lbs. silicon steel in the towers;
 - (2) 10,000,000 lbs. varbon steel do;
 - (3) 1,200,000 lbs. cast steel do;
 - (4) 700,000 lbs. heat treated eyebars;
 - (5) 510,000 lbs. carbon steel eyebars;
 - (6) 560,000 lbs. nickel steel eyebars;
 - (7) 48,000,000 silicon steel suspended structure (lbs.);
 - (8) 29,000,000 lbs. carbon steel do;
 - (9) 300,000 lbs. cast steel do;
 - (10) 600,000 manganese steel rivets, do;
 - (11) 50,000 phosphor bronze do;
 - (12) 11,600 cu. yds. conc. paving, upper deck;
 - (13) 6,300 cu. yds. do lower deck;
 - (14) 815,000 lin. ft. reinf. truss, upper deck;
 - (15) 625,000 lin. ft. do lower deck;
 - (16) 2,200,000 lbs. reinf. steel;
 - (17) 2,200 cu. yds. concrete complete.

Estimated cost, \$11,331,300.

- Contract No. 6A—Cables and Attachments**
- (18) 37,400,000 lbs. cable wire;
 - (19) 1,660,000 lbs. cable castings;
 - (20) 226,000 lin. ft. 2¼-in. suspended rope;
 - (21) 38,100 lin. ft. 1-in. handrope;
 - (22) 150,000 lbs. high tensile bolts;
 - (23) 33,000 lbs. wrought shims;
 - (24) 41,000 lbs. galv. cable fastenings.
- (San Francisco-Oakland Bay Bridge Office, 500 Sansome St., San Francisco. Chas. H. Purcell, chief engineer).

SAN FRANCISCO.—Until Feb. 28, 2 P. M., bids will be received by the Department of Public Works, San Francisco-Oakland Bay Bridge, Assembly Chamber of the State Capitol, Sacramento, to construct first five piers, substructures for the West Bay Crossing from the San Francisco shoreline to Yerba Buena Island, involving:

- (1) 268,542 cu. yds. caisson work;
- (2) 10,000 cu. yds. add. caisson work;
- (3) 55,000 cu. yds. concrete seal;
- (4) 21,400 cu. yds. conc. foundations, Pier 2;
- (5) 27,000 cu. yds. conc. pier shafts and fenders, Piers 2, 3, 5, 6;
- (6) 60,500 cu. yds. superstructure for Pier 4;
- (7) 3,800,000 lbs. reinf. steel above foundations;
- (8) 300,000 lbs. struc. steel above foundations;
- (9) 1,100 MFBF timber in fenders;
- (10) 450,000 lbs. metal work in fenders
- (11) alterations to Harbor Pier 24;
- (12) 500 bbls. extra Port. cement.

(San Francisco-Oakland Bay Bridge Office, 500 Sansome St., San Francisco. Chas. H. Purcell, chief engineer).

MODESTO, Stanislaus Co., Calif.—County Surveyor Geo. D. Macomber preparing plans for bridge at 19th St., Modesto, estimated cost from \$2800 for timber trestle to \$9000 for concrete span. County supervisors will discuss financing at next meeting; also type of construction.

SAN FRANCISCO — As previously reported, until March 2, 2 P. M., bids will be received by the Department of Public Works, Room 235, City Hall, San Francisco, to construct 21 piers—substructure—East Bay Crossing, San Francisco - Oakland Bay Bridge, involving:

- CONTRACT NO. 4—Piers E2 to E6 Inclusive**
- (1) 7,300 cu. yds. concrete;
 - (2) 4,960 cu. yds. concrete;
 - (3) 143,942 cu. yds. caisson work;
 - (4) 10,000 cu. yds. add. caisson work;
 - (5) 16,000 cu. yds. conc. seal piers;
 - (6) 8,780 cu. yds. concrete;
 - (7) 750,000 lbs. reinf. steel;
 - (8) 141,000 lbs. anchorage steel work;
 - (9) reconstruct Army wharf (lump sum);
 - (10) 540,000 ft. b.m. creosoted timber fenders;
 - (11) 11,000 lin. ft. creosoted fender piles;
 - (12) 165,000 lbs. metal work in fenders
 - (13) 1,000 bbls. extra Port. cement;

- CONTRACT NO. 4A—Piers E6 to E22 Inclusive**
- (14) 372,000 lin. ft. timber piles in place;
 - (15) 50,000 lin. ft. add. length do;
 - (16) 22,000 tons gravel blankets;
 - (17) 61,500 cu. yds. seal;
 - (18) 38,000 cu. yds. conc. pier shafts;
 - (19) 1,530,000 lbs. reinf. steel;
 - (20) 186,500 lbs. anchorage steel work;
 - (21) alter Key Route Pier;
 - (22) 1,000 bbls. extra Port. cement.
- Estimated cost, \$2,556,590.

(San Francisco-Oakland Bay Bridge Office, 500 Sansome St., San Francisco. Chas. H. Purcell, chief engineer).
See call for bids under official proposal section in this issue.

SACRAMENTO, Cal.—A formal contract between State and County Officials signed January 25 to finance construction of proposed M St. Bridge at Sacramento. Under this agreement the State will bear approximately two-thirds of the estimated \$650,000, and the County the remainder. The State will prepare plans and supervise construction of the bridge.

WOODLAND, Yolo Co., Cal.—Rocca & Caletti, P. O. Box 243, San Rafael, at \$136,988.15 awarded contract by Joint Highway District No. 12, Second and C Sts., Yuba City, to construct Knights Landing drawbridge across the Sacramento river. Bridge will be of the double-leaf bascule type with a 200-ft. opening. Each leaf will be 111-ft. long, 24-ft. roadway, 3½-ft. sidewalk on each side of bridge.

CAPITAL CITY TITLE COMPANY

▼

J. C. PALEN,
Manager

▼

914 Seventh Street
Sacramento :: California

SAN FRANCISCO—Until March 8, 2 P. M., bids will be received by State Department of Public Works, Room 235, City Hall, San Francisco, to construct Contract No. 3, San Francisco Anchorage, San Francisco - Oakland Bay Bridge, involving:

- (1) 50,000 cu. yds. excav., unclass.;
 - (2) 2,700,000 pounds anchorage steel work;
 - (3) 12,000 cu. yds. mass conc. erection block;
 - (4) 53,000 cu. yds. concrete anchorage, mass concrete;
 - (5) 3,000 cu. yds. concrete anchorage above lower deck;
 - (6) 300 cu. yds. conc. viaduct, footings; above ...Mfi etaoin vbqkqj
 - (7) 5,800 cu. yds. conc. viaduct above footings;
 - (8) 200 cu. yds. conc. railings;
 - (9) 10,000 cu. yds. concrete foundations, Piers A, B and 1;
 - (10) 9,500 cu. yds. conc. above foundations, Piers A, B and 1;
 - (11) 2,800,000 lbs. reinf. steel;
 - (12) 3,000,000 lbs. reinf. steel;
 - (13) 25,000 lbs. misc. metal work;
 - (14) elec. conduits and fittings, lump sum;
 - (15) 20,000 lbs. c. i. drain pipe and fittings;
 - (16) 10,000 lbs. castings;
 - (17) 2,000 bbls. extra Port. cement.
 - (18) lump sum, demolish buildings.
- Estimated cost, \$1,580,000. San Francisco-Oakland Bay Bridge Office, 500 Sansome St., San Francisco. Charles H. Purcell, chief engineer.

SAN FRANCISCO.—Lord & Bishop, Native Sons Building, Sacramento, awarded contract by Southern Pacific Co. to construct substructure only for bridge across the San Joaquin river. Bridge is to be 235 ft. long with provision made for two 100-ft. channel spans. Will be steel swing type on creosoted pile and concrete foundations, involving:

525,000 lbs. struc. steel;
18,000 lin. ft. creosoted piling;
109 cu. yds. reinforced concrete;
30 ft. trestle;
lump sum, certain amount of center pier protection.
Cost of entire project, \$120,000.

- SAN FRANCISCO**—Until March 8, 2 P. M., bids will be received by State Department of Public Works, Room 235, City Hall, San Francisco, to construct Contract No. 7, Superstructure, East Bay Crossing, San Francisco-Oakland Bay Bridge, involving:
- (1) 6,800,000 lbs. nickel steel in spans;
 - (2) 49,000,000 lbs. silicon steel in spans
 - (3) 40,400,000 lbs. carbon steel in spans;
 - (4) 8,500,000 lbs. heat-treated eyebars
 - (5) 7,050,000 lbs. silicon steel in bents;
 - (6) 4,900,000 lbs. carbon steel in bents
 - (7) 50,000 lbs. manganese steel do;
 - (8) 25,000 lbs. phosphor bronze;
 - (9) 12,000 cu. yds. concrete paving, upper deck;
 - (10) 6500 cu. yds. concrete paving, lower deck;
 - (11) 825,000 lin. ft. reinf. trusses, upper deck;
 - (12) 653,000 lin. ft. reinf. trusses, lower deck;
 - (13) 2,116,000 lbs. reinf. steel;
 - (14) 30,500 bbls. Portland cement.
- Estimated cost, \$10,200,000. San Francisco-Oakland Bay Bridge Office, 500 Sansome St., San Francisco. Charles H. Purcell, chief engineer.

OREGON STATE.—Following contractors submitted low bids to State Highway Commission, Portland, for bridge construction as follows:

Clatsop County.—F. L. Odom, Salem at \$53,733 to construct bridge over John Day river, Columbia river Highway, 4 miles east of Astoria. Gilpin Const. Co. second low at \$55,884; Barham Bros. third low at \$56,398.

A. G. Enright, Salem, at \$8,546 to construct bridge at Austin Point and culvert over Asbury creek, Oregon Coast Highway, 6 1/4 miles and 7 miles respectively south of Cannon Beach.

Jackson County.—Washburn & Hall, Portland, at \$15,977 to construct two pile trestle bridges with conc. decks over Bear creek on Pacific Highway about 1 1/2 miles north of Astland.

LOS ANGELES, Cal.—All bids, except as noted below, for furnishing materials for a bridge to be built on Second St. over the San Gabriel river, Long Beach, rejected by county supervisors Jan. 23. The bids held for further consideration were:

Cement, Prop. No. 1—Monolith Portland Cement Co.

Reinforcing Steel, Prop. No. 2—Soule Steel Co. and Truscon Steel Co. Lumber, Prop. No. 3—Consolidated Lumber Co.

Hardware, Prop. No. 4—California Hardware Co.

Miscellaneous copper work, plates, etc., Prop. No. 5, will be purchased in the open market.

SAN FRANCISCO—Until March 7, 2 P. M., bids will be received by State Department of Public Works, Room 235, City Hall, San Francisco, to construct Contract No. 5, Yerba Buena Crossing, San Francisco-Oakland Bay Bridge, involving:

- (1) 330,000 cu. yds. excav., unclass.;
- (2) anchorage tunnels, lump sum;
- (3) 3,000,000 lbs. anchorage steel work;
- (4) 2,500 cu. yds. conc. anchorage foundations;
- (5) 8,500 cu. yds. concrete anchorages above foundations;
- (6) 2,100 cu. yds. conc. viaduct and wall footings;
- (7) 9,900 cu. yds. do above footings;
- (8) 300 cu. yds. concrete railings;
- (9) tunnel construction, lump sum;
- (10) 3,500 cu. yds. concrete foundations, Piers YB-2 to YB-4 and E-1
- (11) \$100 cu. yds. conc. above foundations do;
- (12) 250 cu. yds. conc. curbs and gutters;
- (13) 375 cu. yds. crusher run base;
- (14) 280 cu. yds. crushed stone surf;
- (15) 20 bbls. fuel oil;
- (16) 22 tons cut-back asphalt;
- (17) 4,400,000 lbs. reinf. steel;
- (18) 10,000 lbs. misc. metal work;
- (19) electric conduits and fittings, lump sum;
- (20) 1,500 cu. yds. conc. pave., lower deck;
- (21) 51,000 lbs. c. i. drain pipe and fittings;
- (22) 13,000 lbs. castings;
- (23) drain tile 4- to 12-in., lump sum;
- (24) 2,000 bbls. extra Port. cement.

Estimate cost, \$2,260,000. San Francisco-Oakland Bay Bridge Office, 500 Sansome St., San Francisco. Charles H. Purcell, chief engineer.

DREDGING, HARBOR WORKS & EXCAVATIONS

SACRAMENTO, Cal.—Until Feb. 10, 3 P. M., under Circular Proposal No. 33-216, Specifications No. 5196, bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, to furnish, deliver and place approximately 30,000 tons rlp-rap stone

along the Sacramento river between the mouth of Cache Slough and Collinsville. The specifications are obtainable from above office.

SALEM, Ore.—As previously reported, Makela Const. Co., Astoria, at \$21,651.40 submitted low bid to U. S. Engineer Office, Portland, to construct about 1623 lin. ft. of pile dikes in Willamette river at 11 different sites located 16.9 and 17.76 miles below Salem, involving:

- (1) 33,700 lin. ft. piling;
- (2) 12 M. ft. b.m. lumber;
- (3) 19,960 lbs. hardware;
- (4) 1,250 cu. yds. stone, shore rock;
- (5) 2,600 cu. yds. stone, water rock;
- (6) 1,130 pile shoes.

Complete bids follow:
Makela Const. Co., Astoria \$21,651.40
Parker-Schram, Portland 22,579.00
Gilpin Const. Co. 28,824.00
Portland Dredging Co. 29,175.00
Guthrie-McDougall Co. 30,322.00
Kern & Kibbe, Portland 30,339.00

SACRAMENTO Cal.—Until Feb. 1, 3 P. M., under Circular Proposal No. 33-211, Spec. No. 5127, bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, to build stretches of new levee and to raise and strengthen an existing levee along the easterly bank of the Sacramento river from Meridian downstream for 11.5 miles to Winship School, including clearing and grubbing right of way and moving, extending or reconstructing fences, road crossings, irrigation channels, drains, ditches, pipes, etc., involving 451,000 cubic yards embankment in place in levee. Specifications obtainable from above office.

IRRIGATION PROJECTS

IMPERIAL COUNTY, Cal.—The revised All-American Canal contract was approved by voters in Imperial Valley, January 12. At the time, an issue of \$14,250,000 sinking fund bonds to replace a similar amount of serial bonds now outstanding, was approved. The vote for the contract was 4240, against 672; for the bonds 4241, against 633. By the terms of the contract the Coachella Valley land owners must vote their lands into the district within thirty days after the contract has been validated by the Supreme Court. The contract, which has been approved by the Department of the Interior, provides that the Federal Government expend \$38,500,000 for the construction of a diversion dam in the Colorado River north of Yuma and various works and canals to serve Imperial and Coachella Valleys.

SACRAMENTO, Cal.—Until Feb. 10, 10 A. M., bids will be received by C. H. Merry, Secretary, American River Flood Control District, Room 410, State Office Bldg., Sacramento, for the sale of \$287,000 flood control bonds.

STREET LIGHTING SYSTEMS

LOS ANGELES, Cal.—Fritz Ziebarth, Security Bldg., Long Beach, awarded contract by Board of Public Works, January 13, at \$41,823, for constructing an ornamental lighting system in Flower St., between Washington St. and 38th St., in accordance with plan No. B-1693 and standard plan No. B-1694, involving No. 1860 Southwest street lighting standards. Cash Contract.

VERNON, Los Angeles Co., Calif.—Bids received by city council Jan. 23 for furnishing and installing an auxiliary high duty gasoline engine-driven generator unit, are as follows:

Sterling Engine Co.—(1) with Allis-Chalmers Co. equipment, at \$16,370; (2) with General Electric equipment, \$16,370; (3) with Electric Machinery Co. equipment, \$16,856.

Winton Engine Co.—(1) with Allis-Chalmers, \$21,159.50; (2) with General Electric, \$21,128; (3) with Westinghouse, \$21,004.

RESERVOIRS AND DAMS

LOS ANGELES, Cal.—Contract for the construction of San Gabriel Dam No. 1 was signed by the West Slope Construction Co. on the county board of supervisors January 16. The contract price, in the event the quantities are as estimated and all rock obtained from Quarry No. 10, is \$8,600,527. The time for completion is 66 months from Jan. 16, 1933. Bonds for faithful performance and for laborers and materialmen were in the sum of \$2,150,135 each.

SOLEDAD, Monterey Co., Calif.—Earl W. Heple, 494 Delmas Ave., San Jose, at \$21,115.75 (Alt. A. reinforced concrete reservoir) awarded contract by city council to construct municipal water system, consisting of wells, pumps, motors, wiring, storage reservoirs tanks, and other equipment. C. C. Kennedy, Call Bldg., San Francisco, prepared the plans. Start of construction will be delayed until bonds of \$37,000, which are now on sale, can be sold to finance the project.

CLARK COUNTY, Nev.—Olof Nelson, Logan, Utah, at \$159,203.01 awarded contract January 11 by State Highway Department, Carson City, for highway construction, 1.607 mile on Fifth St., Las Vegas, to 1650 ft. NE of north city limits; also 1.97 miles Bard to Las Vegas; also 1650 ft. NE of north city limits, Las Vegas, to six miles SW of Apex Summit. Quantities published in issue of Dec. 31. J. A. Casson, Hayward, second low at \$165,360.49; M. J. Bevanda, Stockton, third low at \$173,305.85.

SUNNYVALE, Santa Clara Co., Cal.—Heafey-Moore Co., 344 High Street, Oakland, at \$15,870 submitted low bid to Public Works Officer, 12th Naval District, San Francisco, to construct airplane runway and taxiway, composed of gravel, and a warming-up platform composed of cement concrete, on a gravel base course, together with tile drains along center line and sides, with a connection to the existing sewerage system. Spec. No. 715b. Complete bids follow:
Heafey-Moore, Oakland \$15,870
C. L. Wold Co., S. F. 17,666
E. W. Heple San Jose* 17,948
Union Paving Co., S. F. 19,310
A. J. Raisch, San Jose 19,540
Peninsula Paving Co., S. F. 20,603
Hutchinson Co., Oakland 21,697
E. T. Lesure Co., Oakland 24,665
*Modification of bids; deduct \$500.
Bids held under advisement.

LOS ANGELES COUNTY, Calif.—S. H. Palmer, 503 Market Street, San Francisco, and J. P. Holland, Inc., 1334 McKinnon Ave., San Francisco, bidding jointly, at \$402,667.70 awarded contract by State Highway Commission to grade and pave with asphalt

concrete 4.1 ml. bet. Las Flores Canyon and Santa Ynez Canyon.

PERSHING COUNTY, Nev.—Dodge Bros., Fallon, at \$69,293.28 submitted low bid to State Highway Department, Carson City, to construct a cement concrete pavement through the city of Lovelock, 1.22 miles. Quantities published in issue of Dec. 31. Only other bid submitted by M. J. Beveda, Stockton, at \$70,343.64. Bids taken under advisement.

SEWERS AND SEWAGE DISPOSAL PLANTS

LOS ANGELES, Cal.—A. K. Warren, Chief Engineer of the Los Angeles County Sanitation Districts, Law Bldg., 133 N Broadway, Los Angeles, has recommended to the directors of County Sanitation Districts 1, 2, 5, and 8, that the boards appropriate funds from which to pay immediately into court the amounts awarded as condemnation damages in the Whites Point Outfall right of way suit. The money must be paid within thirty days. While an appeal is expected, no information from the property owners is available.

Construction of this project will cost \$2,750,000, and will involve a tunnel 38,800 ft. in length, traversing the hills lying between Harbor City and Whites Point, the point selected for the ocean outfall. This tunnel will probably be constructed in three sections, two being heavy work in the hills and the other about 14,000 ft. located in the lower ground north of the hills near Harbor City. The latter section will probably be built by shaft and tunnel.

At the present time, Mr. Warren plans to do the work by contract. The project will be divided probably into four contracts, three for the tunnel work and one for the ocean outfall. Preliminary plans have been under way for some time but borings and other tests will have to be made before final data for bidding is compiled.

LOS ANGELES, Cal.—Merritt-Chapman & Scott Corp., 720 Wilmington Road, San Pedro, submitted low bid to board of public works January 25 at \$62,972 (based on the use of vitrified and cast iron pipe, Total I), for the construction of sewer crossing the main ship channel between Harbor Blvd. and a point north of Terminal Way, in the San Pedro District, under cash contract, involving:

- (1) 680.20 lin. ft. vit. clay pipe sewer, lump sum;
 - (2) 278.56 lin. ft. cast iron pipe sewer, lump sum;
 - (3) 1340.78 lin. ft. flexible joint cast iron pipe sewer, lump sum;
 - (4) alternate: 1340.78 lin. ft. special relnf. flexible (type "B" couplings) rubber piece sewer, lump sum.
- (1), (2) and (3) complete, lump sum.
 (1), (2) and 4, complete, lump sum.

Complete bids follow:
 (A) Merritt-Chapman & Scott Corp., Total I \$62,972.00.
 (B) Lee R. Weber, Total I, \$73,620; Total II \$69,533.

(C) Artukovich Bros., Total I, \$93,340.
 (D) Engineer's estimate, Total I, \$60,432; Total II, \$62,548.

Unit bids follow:

	(1)	(3)	(4)
(A)....	\$14,383	\$15,992	\$32,597
(B)....	21,000	19,583	33,037
(C)....	24,140	34,600	37,600
(D)....	13,800	13,222	33,410

SIGNAL HILL, Los Angeles Co., Cal.—Until 3 P. M., Feb. 13, bids will be received by city council for re-wiring of three pumping stations for the city sewer department in accordance with Spec. S-P-2-A on file in the office of the City Clerk, George H. Cooper.

MISCELLANEOUS CONSTRUCTION

LOS ANGELES, Cal.—F. E. Weymouth, Chief Engineer and General Manager of the Metropolitan Water District, issued a statement Jan. 20, following the meeting of the board of directors, announcing that the time for signing of the contract for the construction of the San Jacinto Tunnel has been extended one week from January 20, the date of the second extension. The Metropolitan Engineering Corp., the successful bidder, presented to the board a letter in which the corporation offered to give to the district security for \$400,000 additional to the cash fund which the corporation had agreed to keep up to \$900,000 (including the \$150,000 paid the district in lieu of a performance bond) during the life of the contract. In addition to the offer of \$400,000, the corporation offered the personal surety of individual members of the firm to take care of the labor and material bond as required by statute. The board adjourned to executive session behind closed doors to consider the proposal. No further announcement was made.

The board of directors inducted into office three new directors as follows: D. W. Pontius, President of the Pacific Electric Railway and present comptroller of the District, representing Los Angeles.

Walter A. Ham, attorney, also representing Los Angeles, and W. A. Foster, representing Compton.

LOS ANGELES, Cal.—F. E. Weymouth, General Manager and Chief Engineer of the Metropolitan Water District, 306 W 3rd St., Los Angeles, has announced that Spec. No. 12, for the construction of the Valverde and Bernasconi tunnels of the Colorado river aqueduct, approved January 2, 1933, for which bids were to have been opened at 2 P. M., January 30, have been **withdrawn and cancelled**. Revised specifications for the construction of these tunnels will be issued at an early date.

WATERWORKS

LA HABRA, Orange Co., Cal.—City Council has announced an offer of \$65,000 for the purchase of the complete system of the American States Water Co.

The city council has also rejected bids for pipe, fittings, hydrants, etc., for which bids were received Dec. 27. The city will buy in the open market. John G. Sanks, city engineer.

COLTON, San Bernardino Co., Cal.—Until 7:30 P. M., Feb. 5 (tentative date), bids will be received by city council to furnish 14-gauge welded steel drive pipe as follows:

- (1) 4500 ft. 6-in. pipe;
- (2) 500 ft. 4-in. pipe.

The pipe is to provide extensions to water mains in alleys between F and G streets from 3rd to 5th, and portions of other streets. The work will be done by force account under the supervision of C. A. Hutchinson, city engineer. C. H. Maxwell, water superintendent.

HEMET, Calif.—City council will meet Feb. 6 to formulate definite plans for the calling of a special election to vote on a \$121,000 bond issue to finance the establishment of a municipal water system. A survey for the purpose of preparing data, estimates, and costs was prepared by Burns-McDonnell-Smith Engineering Corp., Western Pacific Bldg., Los Angeles. Mayor J. C. Loomis is chairman of the water committee. The other members are: Councilman Robert G. Record and Councilman Carl M. Thompson.

SAN FRANCISCO—Bids will be asked about February 1 by the City and County of San Francisco, to construct water supply system about 3 mi. in length from San Andreas to the site of the Sneath Ranch jail in San Mateo County. Will be of 10-in. cast iron pipe. Estimated cost, \$35,000. Plans by Bureau of Architecture.

SONOMA, Sonoma Co., Cal.—Bond election date will be set and Resolution of intention to vote bonds passed Wednesday night, February 1, by city council, City of Sonoma. Election for \$33,000 bonds for complete municipal water system. Hussey & Beheer, Syndicate Bldg., Oakland, engineers.

LOS ANGELES, Cal.—A bid of par for a \$4,032,000 block of Metropolitan Water District bonds was submitted to the board of directors Jan. 27 by the Reconstruction Finance Corporation. The bids was taken under advisement until 1 P. M., Wednesday, Feb. 1. The bonds bear interest at 5%.

OAKLAND, Cal.—United States Pipe & Foundry Co., Monadnock Bldg. San Francisco, at \$22,800 submitted low bid to East Bay Municipal Utility District, Oakland, to furnish 40,000 ft. cast iron pipe, 6-in. dia. Complete bids follow:

- U. S. Pipe & Foundry Co. (18-foot lengths), \$.50 ft.; \$22,800.
- R. D. Wood Co., by Utilities Supply Co., \$.58 ft.; \$23,200.
- Pacific States Cast Iron Pipe Co., \$.60 ft.; \$24,000.
- American Cast Iron Pipe Co. (16-ft. lengths) \$.615 ft.; \$24,600.

HOQUIAM, Wash.—Pacific States Cast Iron Pipe Co., Spalding Bldg., Portland, Ore., at \$4406 (f.o.b. Moclips Wash.) submitted low (lump sum) bid to Superintendent, Taholah Indian Agency, to furnish:

- (1) 3625 lin. ft. Class 150 b&s 6-inch cast iron water pipe;
- (2) 1700 lin. ft. 4-in. do;
- (3) 5000 lin. ft. 2-in. do;

Complete lump sum bids follow: Pacific States C. I. Pipe Co., Portland, \$4406 f.o.b. Moclips, Wash., \$3,735 f.o.b. Provo, Utah.

Olympic Foundry Co., Seattle, \$4,764.20 f.o.b. Moclips; \$3980.20 f.o.b. Ironton, Utah.

McWane Cast Iron Pipe Co., Birmingham, Ala.
 Bids held under advisement.

INGLEWOOD, Los Angeles Co., Cal.—Until 8 P. M., Feb. 6, bids will be received by city council for furnishing and installing one booster unit at the City's Well No. 16, located at the northwest corner of 10th Ave. and 80th St., Inglewood, in accordance with plans and specifications which may be obtained from the city engineer, Arthur W. Cory. Certified or cashier's check, 10%. Otto H. Duelke is city clerk.

VERNON, Los Angeles Co., Calif.—Until 8 P. M., Feb. 6, bids will be received by city council for two fuel oil storage tanks to be installed in the power house yard. Bids will be taken on 15,000 bbl. and 9500 bbl. tanks. H. S. McCurdy, city engineer. T. J. Furlong, city clerk.

FORT LEWIS, Wash.—Walsh Construction Co., 2246 First Ave. So., Seattle, at \$17,762 submitted low bid to Constructing Quartermaster, Fort Lewis, to construct cast iron water mains, involving 5500 ft. 10-in. and 4500 ft. 6-in. also several hundred feet 4-in. c. i. main. Complete bids follow: Walsh Constr. Co. \$17,762 West Coast Constr. Co. 17,772 Queen City Constr. Co. 19,500 A. DelGuzzo 19,830 L. Colluccio & Co. 21,250 Hall & Reese 21,255 Joe Colucio 21,400 Argentiery & Colorace 21,420 Universitey P. & H. Co. 21,490 Joseph Warter, Sr. 21,500 Paine & Galluci 21,566 Joe Paduano 21,644 Lee H. Johnson 21,660 A. Ioffredo 21,776 C. Rinaldo 22,721 Puget Sound Constr. Co. 22,740 Angelo Scarcelia 22,900 H. J. Alder & Co. 23,000 Sam Maeri 23,513 NePage-McKenny Co. 27,585 Bids held under advisemen't.

%LOS ANGELES, Cal.—As previously reported, Clark & Campbell and A. J. Callahan, 1358 E Manchester Ave., Los Angeles, submitted low bid to Metropolitan Water District on Jan. 12 at \$12,233, for work under Schedule No. 2 (construction of pipe line using light weight outside diameter gas line pipe) for Sections 6 and 7 of the construction water supply system for the Colorado River Aqueduct.

- The total bids follow:
- (A) Clark & Campbell and A. J. Callahan, \$12,233.00.
 - (B) Ray Schweitzer, \$14,218.65.
 - (C) Lee R. Weber, \$15,318.40.
 - (D) J. E. Haddock, \$16,883.00.
 - (E) Marko Matriek, \$18063.50.
 - (F) Kemper Const. Co. and Lang Transportation Co. \$18,761.50.
 - (G) Macco-Robertson, \$18,807.50.
 - (H) Winston Bros. Co., \$19,452.00.
 - (I) Herbert M. Baruch Corp. and Robinson Roberts Co., \$20,050.00.
 - (J) J. C. Hickey, \$21,209.72.
 - (K) Ashbury Transportation Co., \$22,328.50.
 - (L) Lindgren & Swinerton, \$22,704.00.
 - (M) Lynch-Cannon Eng. Co., \$23,243.74.
 - (N) American Concrete & Steel Pipe Co., \$25,450.00.

STREETS

WASHINGTON STATE — Tucker Bros. & Scott, Kalispell, Mont., at \$73,215 (under schedule B) awarded contract by State Highway Commission to grade and surface 3 mi. State Road No. 4, Section 2, Tonasket-San Poil Highway, Okanogan County. Low bid under Schedule A was \$73,721. American Construction & Digging Co., Spokane, second low at \$74,988 for schedule A and \$75,077 for schedule B; Kesterson Construction Co., Inc., Seattle, third low at \$77,265 for schedule A and \$77,933 for schedule B.

LOS ANGELES COUNTY, Cal.—Von der Hellen & Pierson, Castle, at \$56,678 awarded contract by State Highway Commission, to grade and pave with Portland cement concrete 1.5 ml. between Oaks and Vasquez Rock Road.

WASHINGTON STATE—Following contracts awarded by State Highway Commission for bridge construction as follows:

OKANOGAN COUNTY—West Coast Constr. Co., Lloyd Bldg., Seattle, at \$8585 to construct reinforced concrete arch bridge 113 ft. long, over Bonapart Creek on the Tonasket-San Poil Highway. Ray McCoy, Seattle, second low at \$8960; Henry Hagman, Cashmere, third low at \$9130.

OKANOGAN COUNTY — Henry & Meenan, Ellensburg, at \$5174 to construct reinforced concrete girder bridge 100 ft. long, over Griggs Canyon on State Road No. 19, between Pateros and Brewster, Chehan and Okanogan highway. Strandberg & Co., Seattle, second low at \$5566; H. C. Mallott, Seattle, third low at \$5887.

SAN FRANCISCO. — Department of Public Works plans to improve Kirkham St. bet. 33rd and 34th Avenues; 34th Ave. bet. Kirkham and Lawton; and Ortega between 39th and 41st Sts., involving: 200 ft. 6-in. V.C.P. side sewer; 205 ft. unarmored concrete curb; 32 ft. armored concrete curb; 5312 sq. ft. asph. conc. pave. Estimated cost, \$2,085.

MONTEREY, Monterey Co., Calif.—Until March 1, bids will be received by Quartermaster, Presidio of Monterey, to construct 2300 ft. of asphaltic pavement 18-ft. wide in front of officers' quarters at the post. Specifications obtainable from above on deposit of \$5, returnable.

MOUNTAIN VIEW, Santa Clara Co. Cal.—Hearing continued by Judge Syer, superior court, until Feb. 9, on injunction on hearing on Resolution to extend Moffett Blvd. from the north-easterly city limits to the Bayshore Highway. Ray Hays, city clerk. C. C. Kennedy, Call Bldg., San Francisco, city engineer.

OREGON STATE.—J. A. Tertelling & Son, 511 Sound, Spokane, at \$26,353 (both concrete and corrugated iron pipe alternates) awarded contract by State Highway Commission, Portland, to construct 0.89 miles of grading Drinkwater Pass Section, Central Oregon Highway. Clifton & Applegate second low at \$39,054 for concrete and \$39,902 for corrugated iron pipe; Interstate Const. Co. third low at \$44,820 for corrugated iron and at \$45,010 for concrete pipe.

OREGON STATE.—Following contractors submitted low bids to State Highway Commission, Portland, for highway construction as follows:

Jackson County.—Washburn & Hall, Portland, at \$62,130 (corr. iron pipe alt.) for 1.5 miles grading and concrete paving Bear creek-Ashland Section, Pacific Highway. Low bid on concrete pipe alternate was \$62,645. Jacobsen-Jensen Co. second low at \$70,681, and \$71,011; Johnson Bros. third low at \$74,171 and \$74,149.

Washington County.—Saxton and Looney, Corvallis, at \$12,449 for 0.2 mile grading and concrete paving, and 5 miles gravel shoulder construction, Forest Grove-Hillsboro Section, Tula-tin Valley Highway. Forest Grove Sand & Gravel Co. second low at \$12,452; O. N. Pierce, third low at \$13,152.

MARIPOSA COUNTY, Cal.—Nelson & Wallace, 2nd and Coley, Escalon, at \$10,359.50 submitted low bid to U. S. Bureau of Public Roads, San Francisco, to construct the Bridal Veil Creek Bridge and approaches on Section A1 of Route 5, Wawona Road,

Glacier Point, Yosemite National Park involving:

- (1) 1000 cu. yds. unclass. excav.;
- (2) 315 cu. yds. unclass. excav., struc.
- (3) 9 cu. yds. Class A concrete;
- (4) 25 cu. yds. Class B concrete;
- (5) 6000 lbs. reinf. steel;
- (6) 335 cu. yds. masonry;
- (7) 19,000 lbs. struc. steel;
- (8) 68 lin. ft. log stringers;
- (9) 125 lin. ft. log rail.

Complete bids follow: (A) Nelson & Wallace, Escalon, \$10,359.50.

(B) E. T. Lesure, Oakland, \$12,839.60. (C) Kelly & Tipton, Yosemite, \$13,967.00.

(D) Associated Contractors, Inc., Los Angeles, \$19,167.00.

(E) Engineer's estimate, \$10,102.00.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)
(1).....	\$.90	\$2.57	\$1.10	\$4.00	\$1.00
(2).....	2.50	3.20	4.00	5.00	2.00
(3).....	25.00	47.00	30.00	50.00	25.00
(4).....	25.00	47.00	30.00	60.00	27.00
(5).....	.05	.04	.07	.12	.05
(6).....	18.00	18.00	22.00	25.00	16.00
(7).....	.06	.05	.10	.10	.06
(8).....	1.50	1.00	4.00	4.00	4.00
(9).....	2.00	3.00	5.00	3.00	4.00

OREGON STATE.—Following contracts awarded by the State Highway Commission, Portland, for highway construction as follows:

Clackamas County.—Saxton & Looney, Corvallis, at \$67,514 awarded contract to construct 1.1 miles Clackamas River-Canemah Section, Pacific Highway. Theo. Arenz, Portland, second low at \$70,005; R. L. Houck, third low at \$75,075.

Deschutes, Crook & Klamath Counties.—Griffith & Hollenbeck, Bend, at \$9,412 for Redmond-Chemult maintenance material project, north unit. Johnson Bros. second low at \$9,436. F. H. May third low at \$9,898.

A. S. Wallace, Roseburg, at \$8,875 for Redmond-Chemult maintenance material project, south unit. Johnson Bros. second low at \$9,257; Saxton & Looney, Corvallis, third low at \$9,825.

Douglas County.—F. C. Dillard, Medford, at \$22,132 for 2100 lin. ft. grading and gravel surfacing Koepke Slough and Hinsdale Slough Sections, Umpqua Highway. Liesch & Tofte second low at \$25,712; Interstate Construction Co. third low at \$26,055.

Gilliam County.—J. S. Risley, Milwaukie, at \$9,655 to furnish 9,000 cu. yds. crushed stone in stockpiles on Arlington-Rock Creek Section, John Day Highway and the Blalock-Heppner Junction Section, Columbia river highway. A. C. Greenwood second low at \$11,250; O. N. Pierce third low at \$11,700.

Tillamook County.—Berke Brothers, Portland, at \$35,695 (iron pipe alt.) for 1.25 miles grading and surfacing and furnishing 5000 cu. yds. crushed gravel in stockpiles, Honey-Ranch-Rolph Section, McMinnville-Tillamook Highway. Low bid, concrete pipe, \$36,635. Fisher Bros. second low at \$35,991 and \$37,521; Theo. Arenz, Portland, third low at \$37,700 and \$38,620.

SAN FRANCISCO.—Love & Haun, 335 Collingwood, San Francisco, at \$5,975 submitted low bid to Department of Public Works to improve Bernal Ave. slopes, Randall to Diamond, by planting, involving:

- (1) trees;
 - (2) wood slope.
- Complete bids follow: (A) Love & Haun \$5975 (B) Eaton & Smith \$2600

Unit bids follow:

	(A)	(B)
(1).....	\$5675.00	\$7900.00
(2).....	50.00	60.00

LOS ANGELES, Cal.—Morrison Knudson Co. 1121 Title Guaranty Bldg. Los Angeles, awarded contract by the Metropolitan Water District, Jan. 13, at \$131,284.75 (on combined schedules 1 and 2), for constructing approx. 36 miles roads for the Colorado River aqueduct. The roads are located north of the Coachella Valley, extending from a point north of Palm Springs to a point northeast of Indio in Riverside County, the work to be contracted for consisting of all necessary excavation and grading, and the placing of surfacing materials, culvert pipes, riprap and protection works as shown on the drawings. All materials and labor are to be furnished by the contractor with the exception of road oil, which will be furnished by the District, and all bids are to be compared on the basis of the engineer's estimate of the quantities of the various classes of work and materials, as contained in the schedules.

The work has been divided into two schedules. Schedule 1 requires the construction of the Coachella Valley Station 0 plus 00 to 426, and the Berdoo Canyon Road from Station 65 plus road from Station 190 to 500 and from 50 to Station 323 plus 40, a total distance of approx. 19 miles. Schedule 2 requires the construction of the Coachella Valley road from Station 426 to 1330 plus 85, or approx. 17 miles.

WASHINGTON STATE.—Following low bids submitted January 17 to the State Highway Commission for highway construction as follows:

Walla Walla County—Lyon & Munro 503 W 14th Ave., Spokane, at \$52,408 to surface and stockpile about 48,730 cu. yds. crushed stone 9.1 miles of State Road No. 3, Touchet to Vancycle Canyon, E.C.H. Proj. No. E-169-E. H. C. Rogers & Sons, Dayton, second low at \$53,182; J. H. Collins and Co., Spokane, third low at \$54,926.

Okanogan County.—Halleran Bros., 2352 N Broadway, Seattle, at \$48,780 for Schedule A, \$49,140 for Schedule B; to grade and surface 3 miles of State Road No. 4, Section 1 of Tonasket easterly, E.C.H. Proj. Nos. E-65 and E-103. Goodfellow Bros., Wenatchee, second low at \$49,515 for A and \$49,342 for B; Frank J. McHugh, Seattle, third low at \$51,914 for A and \$51,783 for B.

Klickitat County.—Morrison-Kundsen Co., Spokane, at \$374,494 to grade 4.2 miles of State Road No. 8, Lyle to Skadat, E.C.H. Proj. No. E-174-C. Kern & Kibbe, Portland, second low at \$390,737; Von der Hellen & Pierson, Yakima, third low at \$417,19.

Okanogan County.—Goodfellow Bros. Inc., Wenatchee, at \$74,729 to grade and surface 3.9 miles of State Road No. 10, Pateros to Brewster Flats, E. C. H. Proj. No. E-145-I. Ralph Davis, St. Johns, second low at \$77,376; Ivor Reese, Seattle, third low at \$78,147.

All bids held under advisement.

LOS ANGELES, Cal.—Until 10 A. M., Feb. 8, bids will be received by Board of Public Works for improving 64th St., between Main St. and 633.86 ft. westerly, under Cash Contract, involving:

- (1) grading (774 cu. yds. cut and 57 cu. yds. fill, incl. removal of existing improvements);
- (2) 19,368 sq. ft. 6-in. concrete paving;
- (3) 34 sq. ft. class C resurfacing;
- (4) 488 sq. ft. asph. concr. paving of variable thickness (average thickness 2-in.);
- (5) 1306 ft. unplas. light curb;
- (6) 209 sq. ft. 4-in. concr. sidewalk (driveway);
- (7) 9257 sq. ft. 3-in. concr. sidewalk (driveway);

- (8) 26 sq. ft. 8-in. concr. gutter;
- (9) storm drain and appurtenances, complete, not incl. resurfacing.

LOS ANGELES COUNTY, Calif.—I. E. Haddock, Ltd., 357 N Chester Ave., Pasadena, at \$138,119.08 recommended for award by U. S. Bureau of Public Roads, San Francisco, to grade Section C of Route 62, San Gabriel National Forest Highway, Angeles National Forest.

ALHAMBRA, Los Angeles Co., Cal.—City Commission has adopted an ordinance to improve north and south alley between Second St. and Third St., and between Ramona Blvd. and Glendon Way, involving grading and 1½-in. oil macadam pavement, Hearing 9 A. M., February 7.

LANE COUNTY, Ore.—Until Feb. 8, 10 A. M., bids will be received by U. S. Bureau of Public Roads, 316 New Post Office Bldg., Portland, to construct 3.261 miles Siusald Highway Grading Project No. E-7-G. National Forest Road Project, Siuslaw National Forest, involving:

- (1) 19 acres clearing;
- (2) 10 acres grubbing;
- (3) 115,400 cu. yds. unclass. excav.;
- (4) 515,000 sta. yds. overhaul;
- (5) 3,261 mi. finishing earth graded road;
- (6) 2500 cu. yds. loose rip-rap;
- (7) 1090 lin. ft. culverts.

Plans and specifications obtainable from above on deposit of \$10, returnable. Proposal guarantee, 5%.

CLARK COUNTY, Nevada — Bids will be called about February 20 to close March 8 (tentative date) by State Highway Department, Carson City, Nevada, S. C. Durkee, State Highway Engineer, to oil 10.67 mi. between Lower Virgin River Bridge and Mesquite.

Specifications will be available after Feb. 20 at above office; county clerk's office; U. S. Bureau of Public Roads, 461 Market St., San Francisco, and will be obtainable on deposit of \$15, of which \$10 is returnable. Proposal guarantee, 5%.

ELKO COUNTY, Nevada—Bids will be called about Feb. 20 to close Mar. 8 (tentative date) by State Highway Department, Carson City, Nevada, S. C. Durkee, State Highway Engineer, to construct 1.21-mi. Portland cement concrete pavement through the City of Elko.

Specifications will be available after Feb. 20 from above office; county clerk's office; U. S. Bureau of Public Roads, 461 Market St., San Francisco, on deposit of \$15, \$10 of which is returnable. Proposal guarantee, 5%.

MEXICO—Budget appropriations for highways in Mexico to be built during 1933 are:

Mexico City—Ministry of Communications and Public Works—8,000,000 pesos (\$2,665,500 U. S.)

Guanajuato—State Government—310,000 pesos (\$103,000 U. S.)

Durango City—Municipal Government—200,000 pesos (\$66,500 U. S.)

WOODLAND, Yolo Co., Cal.—Until Feb. 17, 2 p. m., bids will be received by Joint Highway District No. 12, Second and C Sts., Yuba City, to construct north approach to Knights Landing bridge, involving 2800 cu. yds. rough grading. Plans and specifications obtainable from Edward von Geldern, engineer for the district.

LOS ANGELES, Cal.—Ordinance of Intention No. 72,250 to improve Barrington Ave., between Dorothy St. and Darlington Ave., and between Wilshire Blvd., and Santa Monica Blvd., and portions of other streets and alleys in the Barrington Ave. and Rochester Ave. Improvement District, adopted by city council January 10. Proceedings under 1911 Act and Assessment Limitation Act of 1931. The council will contribute \$36,000 from the engineering special fund (County Aid Act). Estimated cost, \$78,155.78. Hearing February 9. The work involves:

- (1) grading, lump sum;
- (2) 12,798 sq. ft. 6-in. concr. paving;
- (3) 3786 sq. ft. 6½-in. concr. paving;
- (4) 565 sq. ft. 8-in. concr. local depressions;
- (5) 214,390 sq. ft. 6½-in. asph. concr. paving;
- (6) 80 sq. ft. 8-in. asph. concr. pave;
- (7) 1859 sp. ft. 4-in. asph. concrete wearing surface;
- (8) 3336 sq. ft. asph. concr. wearing surf. (varying thickness);
- (9) 168 ft. unplas. heavy curb;
- (10) 8127 ft. unplas. light curb;
- (11) 3525 ft. reinf. integral curb;
- (12) 57,720 sq. ft. one-course walk;
- (13) 121 sq. ft. 4-in. walk;
- (14) 566 sq. ft. 6-in. walk;
- (15) 168 sq. ft. 6½-in. concr. gutter;
- (16) 106 sq. ft. 8-in. concr. gutter;
- (17) 10,747 sq. ft. 6½-in. combination gutter;
- (18) 43 sq. ft. 8-in. combination gutter
- (19) 26 ft. curb armor;
- (20) 160 ft. wooden guard rail;
- (21) 8 ft. std. wooden bulkhead, 4 ft. high;
- (22) 49 ft. std. wooden bulkhead, 9 ft. high;
- (23) 21 ft. std. wooden bulkhead, 10 ft. high;
- (24) 18 ft. std. wooden bulkhead, 12 ft. high;
- (25) 24 ft. std. wooden bulkhead, 15 ft. high;
- (26) 70 ft. std. wooden bulkhead, 16 ft. high;
- (27) storm drain and appurtenances, complete (est. \$3201.25);
- (28) 436 ft. house connection sewers;
- (29) lowering chimney pipes, lump sum;
- (30) 39.2 ft. 6-in. chimney pipe;
- (31) wat. system complete (not incl. service conn.) (est. \$926);
- (32) remodel manholes (lump sum) (est. \$324);
- (33) highway conduit complete (est. \$225);
- (34) move and reset light posts (est. \$100).

MACHINERY AND EQUIPMENT

SIGNAL HILL, Los Angeles Co., Cal.—Until 3 P. M., Feb. 13 bids will be received by city council for furnishing and installing one chlorinating machine for the city water department in accordance with Specifications No. W-19. Bidders are requested to submit prices on both dry and solution feed machines. Certified check or bid bond, 10%. George H. Cooper, city clerk.

PASO ROBLES, Monterey Co., Cal.—Until April 3, 5 P.M., to be opened at 8 P. M., bids will be received by Lillian B. Henry, city clerk, to furnish and install:

- (1) Diesel engine.
 - (2) water pumps;
 - (3) 1 electric motor.
- Specifications obtainable from the above office on payment of \$1, not returnable.

BUILDING NEWS

APARTMENTS

Contract Awarded.
REPAIRS Cost, \$32,000
SAN FRANCISCO. 765 Geary Street.
 Repair fire damage to apartments.
 Owner—McKinnon Estate Co.
 Architect—Not Given.
 Contractor—L. W. Coburn, 2048 Market St., San Francisco.

Structural Steel Bids Being Taken.
APARTMENTS Cost, \$169,000
SAN FRANCISCO. Pacific Avenue.
 Seven-story Class A steel frame, concrete and brick apartments (70x127 ft.) two elevators, steam heating system, garbage incinerator, tiled baths and kitchens, hardwood floors, electric refrigeration, etc.
 Owner—Bargene Realty Co., Monadnock Bldg., San Francisco.
 Architect—Chas. E. J. Rogers, Phelan Bldg., San Francisco.

BONDS

SAN DIEGO, Cal.—Until 11 A. M., February 6, bids will be received by city council for the sale of bonds of the \$4,500,000 issue of November, 1924, amounting to \$240,000, with maturities from Jan. 1, 1934 to Jan. 1 1965. Certified check, 1%. Allen H. Wright, City Clerk.

FACTORIES AND WAREHOUSES

Contract Awarded.
WAREHOUSE Cost, \$18,900
SAN JOSE, Santa Clara Co., Cal. SW Ninth and Mission Sts.
 Two-story storage warehouse (heavy mill construction, built-up composition roof, concrete and wood floors, automatic sprinkler system, electric lighting, spur track); extreme dimension, 104x178 ft.
 Owner—Continental Can Co., 155 Montgomery St., San Francisco.
 Plans by Austin Co. of California.
 Contractor—Austin Co. of California., 777 E. Washington St., Los Angeles.

Contracts Awarded.
DAIRY BLDGS. Cost, \$40,000
TALMADGE, Mendocino Co., Cal.
 Group of dairy buildings (7 one-story reinforced concrete structures, asbestos shingle roof) creamery, milk barns, bull pen, dairy buildings.

Owner—State of California.
 Architect—George B. McDougall, state architect, Public Works Building, Sacramento.

General Work
 Oliver S. Almlie, 414 23rd St., Merced, \$44,900.

Plumbing and Heating
 Hatley & Hatley, 1710 10th St., Sacramento, \$6,066.

Electrical
 Eddy Electric Co., 309 E Weber St., Stockton, \$886.

Refrigeration
 Cyclops Iron Works, 837 Folsom St., San Francisco, \$2,898.

VISALIA, Tulare Co., Cal.—Sequoia Walnut Growers' Assn., J. C. Walling of Fresno, T. A. Jenkinson of Hanford, Dan Harris of Reedley and Fletcher Ayres, Frank Powell, Frank

Bodine and C. A. Hillard of Visalia, directors, has incorporated and will erect a walnut processing plant in the Visalia district. It will cost, including equipment, about \$45,000. The exact location of the new plant and construction details have not yet been definitely determined.

Contract Awarded.
FACTORY Cont. Price, \$11,539
OAKLAND, Alameda Co., Calif. 16th Avenue near E 12th Street.
 One-story and mezzanine floor steel and brick factory (76x100 ft.)
 Owner—Clayburgh Carnochas, et al.
 Architect—W. E. Schirmer, Financial Center Bldg., Oakland.
 Contractor—Thos. F. L. Furlong, 460 Jerome, Oakland.

Painting Contract Awarded.
DISTRIBUTING PLANT Cost \$300,000
SAN FRANCISCO. Potrero Ave. bet. 25th and Army Streets.

Three-story Class A steel frame and concrete distributing plant and offices; 3-story Class A steel frame and concrete pasteurizing building; 1-story Class A steel and concrete boiler and compressor building with steel trusses, steel frame loading shed, galvanized roof; Class B steel frame and galvanized iron garage and repair shop, composition roof; one-story Class A steel and concrete butter and by-products building; brick exterior walls and concrete and tile floors.

Owner—Dairy Delivery Co., 2550 19th Street, San Francisco.
 Architect—Wm. Toepke, Call Bldg.
 Associated Architect—Otto G. Hinterman, Call Bldg.

Contractor—H. H. Larsen, 64 South Park Street.

Painting—Raphael Company, 270 Tehama St., \$7,850.

GARAGES AND SERVICE STATIONS

Contract Awarded.
REMODELING Cost, \$7000
PALM ALTO, Santa Clara Co., Cal.
 Remodel service station.
 Owner—Associated Oil Co., 79 New Montgomery St., San Francisco.
 Architect—Masten and Hurd, 233 Post St., San Francisco.
 Contractor—Pacific Truck Service Inc. 646 Park Ave., San Jose.

GOVERNMENT WORK AND SUPPLIES

Bids Wanted—To Close February 21, 2 P. M.

BUILDINGS, ETC. Cost, \$—
PORT ORFORD, Oregon.

Large dwelling to house officers' quarters, etc., laundry, storm clothes room, storage rooms, toilets, showers, etc.; two-story and basement frame construction; frame boat house (60x36 ft.) 288 launchway, concrete piers and trackage for life boats; frame garage (46x24 ft.); two-story cottage (34x27 ft.) reinforced concrete reservoir, 14x12 ft.; pump house, 10x12 feet; water supply system, standard look out tower, etc.

Owner—United States Government.
 Plans by Coast Guard Headquarters, Washington, D. C.

Bids will be received at the U. S. Coast Guard Headquarters, Washington, D. C.

Preparing Plans.
POST OFFICE Cost, \$168,000
SOUTH PASADENA, Los Angeles Co. United States Post Office Building.
 Owner—United States Government.
 Architect—Marsh, Smith & Powell, Architects Bldg., Los Angeles.

OAHU, T. H.—Until Feb. 15, 11 A. M., bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., for two automatic telephone systems complete, with central office equipment, wiring, storage batteries, charging rectifier, and connections to existing lines at the Naval Ammunition Depot, Oahu, T. H. Specification No. 7020. Plans and specifications available from the above office and from Commandant, 14th Naval District, Navy Yard, Pearl Harbor, and from 12th Naval District, 100 Harrison St., San Francisco, upon deposit of \$10.

Construction Started.
ALTERATIONS Cost, \$20,000
OAKLAND, Alameda Co., Calif. 24th and Grove Streets.
 Alterations and additions to two-story brick factory (15,000 sq. ft.)
 Owner—Western Dairy Products Co. (Geo. L. Burt) 2101 S Los Angeles Blvd., Los Angeles.
 Plans by Eng. Dept. of Owner.
 Construction Engineer—D. O. Lamb, premises.
 Leasing Agent—Harold Wachs, Bank of America Bldg., Oakland.

Bids Opened.
BUILDINGS Cost, \$—
FORT LEWIS, Washington.
 Concurrent training camp (three enlisted men's lavatories, two enlisted men's mess and kitchen).
 Owner—United States Government.
 Plans by Constructing Quartermaster, Fort Lewis.
 Low Bidder—C. Ted Brady, 6242 36th Ave. NE., Seattle.

MARE ISLAND, Calif.—Until February 21, 11 A.M., bids will be received by Public Works Officer, U.S. Navy Yard, Mare Island, for furnishing and installing oil tanks on a concrete platform, all supported on a pile foundation, including earth fill berm, asphalt macadam lined oil basin, pump house with pit, pumps, purifier, piping and electric wiring all complete. Specification No. 7079.

Plans and specification available from Commandant, Navy Yard, Mare Island, upon deposit of \$10.

SUNNYVALE, Santa Clara Co., Cal.—Alta Electric Co., 467 O'Farrell St., San Francisco at \$3175 awarded contract by Public Works Officer, 12th Naval District, San Francisco, for underfloor fibre duct system in the hangar at Sunnyvale. Specification No. 7190.

PEARL HARBOR, T. H.—Until Feb. 21, bids will be received by Commandant, Fourteenth Naval District, Pearl Harbor, T. H., for fencing, etc. at the Naval Ammunition Depot Oahu, T. H., under Specification No. 6933. Work involves approximately ten miles of combination galvanized wire fabric and barbed wire fence with metal posts, with certain repairs to the existing stone wall. Plans and specifications will be available from Commandant, 12th Naval District, 100 Harrison St., San Francisco, shortly.

WASHINGTON, D. C.—Sarver and Zoss, Inc., 1015 W 4th St., Los Angeles, at \$231,400 awarded contract by Treasury Department for the construction of a steel and masonry post office at Beverly Hills for the U. S. Government. Will have brick and terra cotta exterior, tile and composition roof, steel sash, marble and tile work, steam heat, vault, etc. Ralph C. Flewelling, 450 N Beverly Blvd., Beverly Hills, architect.
(89) 1st report Nov. 26, 1932; 8th, Jan. 10, 1933. 7

Plans On File.
OFFICERS' QTRS. Cost, \$335,000
SAN RAFAEL. Marin Co., Cal. Hamilton Field.

Twelve sets of officers' quarters (two story and basement hollow tile and stucco structures; tile roof, cast stone, steel casement windows, gas fired, hot water heating system, linoleum, plumbing, electrical work, etc.)

Owner—United States Government.
Plans by Constructing Quartermaster.

SUNNYVALE, Santa Clara Co., Cal.—As previously reported, Automatic Electric Co., Chicago, submitted only bid to Bureau of Yards and Docks at \$9516, for installing an automatic interior communicating system in hangar at the Naval Air Station, Sunnyvale; Spec. No. 7173. Bid rejected and the project has been cancelled.
(278) 1st report Dec. 21, 1931; 6th, Jan. 12, 1932. 7

PEARL HARBOR, T. H.—Until Feb. 21, bids will be received by Commandant, 14th Naval District, Pearl Harbor, to furnish telephone cables at the Naval Ammunition Depot, Oahu, T. H. Work involves the installation of 5 pair guaranteed cable underground for a total length of 7 mi. Spec. No. 7023. Plans and specifications will be available from Commandant, 12th Naval District, 100 Harrison Street, San Francisco, shortly.

MARCH FIELD, Riverside, Calif.—Until 10:30 A. M., Feb. 10, bids will be received by the Constructing Quartermaster, March Field, for the construction of enlisted men's service club at March Field. Plans and specifications may be obtained from Lt. N. H. Cherry, constructing quartermaster, March Field, upon deposit of \$25. The appropriation for the building is \$45,000. It will be a one-story and part basement structure, 98x55 ft. in area, containing a lounge, library, bedrooms, dining room, kitchen, bathrooms and toilets; concrete foundations, hollow tile walls and partitions, brick work, quarry tile loggia floor, wrought iron railings, tile floors and wainscoting in bathrooms and toilets, wood and linoleum-covered concrete floors, steel casement windows, stucco exterior, clay tile roof, cast stone, waterproofing and dampproofing materials, structural and miscellaneous metal, copper screens, oil-fired steam heating system, etc.

SUNNYVALE, Santa Clara Co., Cal.—Until February 8 (date postponed from February 1) bids will be received by the Bureau of Yards and Docks, Navy Department, Washington, D. C., for nonclimbable and field wire fencing at the Naval Air Station, Sunnyvale. Specification No. 7032. Plans and specifications available from above office and from Commandant, Twelfth Naval District, 100 Harrison St., San Francisco, upon deposit of \$10.

PANAMA CANAL ZONE.—Dayton Dodd Co., Quincy, Ill., at \$10,078 submitted low bid to General Purchasing Officer, Panama Canal Zone, Washington, D. C., to furnish pumping equipment for new dry dock at Cristobal, involving:

- 2 main vertical pumps with motors and controllers;
- 2 do (alt.);
- 1 vertical drainage pump;
- 1 bilge pump;
- 2 suction valves;
- 2 discharge valves;
- 2 high pressure pumps;
- 1 dry dock flushing pump;
- 2 caisson pumps.

Worthington Pump and Machinery Corp., Harrison, N. J., second low at \$11,612.

Newport News Shipbuilding Company third low at \$16,900.

MARCH FIELD, Riverside Co., Cal.—H. G. Klusman, 154 N. Archibald Ave., Cucamonga, submitted low bid to Constructing Quartermaster, March Field at \$41,697 for laundry and \$11,450 for bakery to be erected at March Field. Second low bid was submitted by the Southwest Construction Co., Los Angeles, at \$45,500 for laundry and \$13,200 for bakery.

Laundry will be one-story and basement structure, 128 x 36 feet, with laundry equipment on main floor and boiler room, electrical room and store room in basement. Will have concrete foundations, steel columns and roof trusses, hollow tile walls, stucco exterior, built-up roofing, concrete floors, steel windows, dampproofing, brick smoke stack, oil-fired high pressure steam system. Bakery will be one-story structure, 60 x 30 feet, with concrete foundations, hollow tile walls and partitions, stucco exterior, built-up roofing, steel windows, concrete floor, waterproofing, insect screens, slate work, insulation, gas-fired low pressure gravity steam system and gas-heating units.

Bids Wanted—To Close Feb. 28, 11 A. M.

GENERATOR, SET, ETC. Cost, \$—
SAN FRANCISCO. Letterman General Hospital.

Steam turbine generator (100 kw) and new turbine end for 200 kw generator (work consists of air reduction gear and generator, piping, new switchboard panel with instruments, gate valves, etc.)

Owner—United States Government.
Plans by Construction Quartermaster, Fort Mason, San Francisco.

SUNNYVALE, Santa Clara Co., Cal.—Heafey-Moore Co., 344 High Street, Oakland, at \$15,870 awarded contract by 12th Naval District, to construct airplane runway and taxiway composed of gravel and a warming-up platform composed of cement concrete on a gravel base course, together with tile drains along center line and sides, with a connection to the existing sewerage system. Spec. No. 7156.

WASHINGTON, D. C.—Until February 28, bids will be received by the Treasury Department, for the construction of a six-story and basement reinforced concrete Federal office building in the Civic Center, San Francisco, for the U. S. Government. Will have granite exterior, terra cotta court lining, promenade terrazzo and tile flooring, mastic tile floors in offices, lead roof, metal sash, quarry tile in corridors, oak trim throughout, movable metal partitions, seven elevators, plate glass, main stairs of

marble and main front door of aluminum. Plans prepared by Architect Arthur Brown, Jr., 251 Kearny Street, San Francisco; Leland and Haley, 53 Sutter St., San Francisco, mechanical engineer, and C. H. Snyder, 251 Kearny St., San Francisco, structural engineer. Estimated cost, \$3,500,000.

WASHINGTON, D. C.—Bryce Pibg. & Heat Co., Florence, South Carolina, at \$252,170 awarded contract by Veterans' Administration, Washington, for plumbing and heating in connection with the construction of a six-story reinforced concrete hospital at Fort Miles, San Francisco, for the U. S. Government. Building will contain 300 beds. Included in the contract is a three-story reinforced concrete administration building, nurses' home, garage, storehouse, laundry, etc. As previously reported, the general contract has been awarded to Herbert M. Baruch Corp., 625 S Olive St., Los Angeles, at \$598,810.

SAN DIEGO, Cal.—Until Feb. 7, 11 A. M., bids will be received by Public Works Officer, 11th Naval District, San Diego, for improvement of field and paving at the Naval Operating Base (Air Station) San Diego. Spec. No. 7177. Work will consist of excavation and grading and for provision of materials and paving of roads and areas using one-course Portland cement concrete. Plans and specifications available from above office upon deposit of \$10.

PEARL HARBOR, T. H.—Following contractors and others have secured plans for fencing, etc., at the Naval Ammunition Depot, Oahu, T. H., under Spec. No. 6938. Work involves approximately ten miles of combination galvanized wire fabric and barbed wire fence with metal posts, with certain repairs to the existing stone wall, for which bids will be received Feb. 21, by Commandant, 14th Naval District, Pearl Harbor, T. H.:

Kamlan Fence Co., 351 Bryant St., San Francisco.

E. T. Thurston, 57 Post Street, San Francisco.

Thos. H. Davies Co., Matson Bldg., San Francisco.

American Factors, Ltd., Matson Bldg., San Francisco.

Concrete Engineering Co., 1280 Indiana St., San Francisco.

Standard Fence Co., 1940 San Bruno Ave., San Francisco.

Plans available from Commandant, 12th Naval District, 100 Harrison St., San Francisco, upon deposit of \$10.

Bids Wanted—To Close March 7.
INSEPECTION STA. Cost \$50,000
TECATE, San Diego Co., Cal.
Masonry inspection station.

Owner—United States Government.
Plans by Supervising Architect, Treasury Dept., Washington, D. C.

SUNNYVALE, Santa Clara Co., Cal.—Until February 15, 11 A. M., bids will be received by the Bureau of Yards and Docks, Navy Department, Washington, D. C., for a balloon hangar at the Naval Air Station, Sunnyvale. Work includes concrete, steel and iron work, steel doors and windows, built-up roofing, metal studding, and lathing, plastering, stucco, marble work, carpentry and joinery, and plumbing and electrical systems. Specifications No. 7027. Plans and specifications available from above office or from Commandant, 12th Naval District, 100 Harrison St., San Francisco, upon deposit of \$25.00.

PEARL HARBOR, T. H.—Following have procured plans for the purpose of submitting bids to the Commandant 14th Naval District, Pearl Harbor, for furnishing telephone cables at the Naval Ammunition Depot, Cahu, T. H. Work involves the installation of five pair guaranteed cable underground for a total length of seven miles; Spec. No. 7023:

E. T. Thurston, 57 Post Street, San Francisco.

American Factors, Ltd., Matson Bldg., San Francisco.

Theo. H. Davies Co., Matson Bldg., San Francisco.

Plans and specifications available from Commandant, 12th Naval District, 100 Harrison Street, San Francisco, upon deposit of \$10.

WASHINGTON, D. C.—Until February 9, bids will be received by Treasury Department, Washington, D. C., for insect screens for the Post Office Building at Pomona, Calif.

WASHINGTON, D. C.—Until Feb. 17, bids will be received by the Supervising Architect, Treasury Department, Washington, D. C., for furnishing and installing two freight elevators in the U. S. post office at San Jose. Ralph Wyckoff, San Jose National Bank Bldg., San Jose, architect.

WASHINGTON, D. C.—Until February 15 (date postponed from Feb. 1), bids will be received by Bureau of Yards and Docks, Navy Department, Washington, for furnishing and installing air conditioning system at the Naval Operating Base, (Fleet Air Station) Pearl Harbor, T. H. Spec. No. 7165. (366) 1st report Jan. 5; 3rd Jan. 24, 1933.

WASHINGTON, D. C.—The following bids received by General Purchasing Office, Washington, to furnish 350,000 barrels of Portland cement for delivery at Cristobal or Balboa, Canal Zone. Schedule No. 2819:

Alpha Portland Cement Co., Easton, Pa., 350,000 barrels, 10%, 15 days, \$735,000.

Henry Cowell Lime & Cement Co., 2 Market St., San Francisco, deduct 30 days 2%, \$941,500.

Lehigh Portland Cement Co., 718 Hamilton St., Allentown, Pa., deduct 10c per barrel 15 days, \$735,000.

Lone Star Cement Co. of Texas, Santa Fe Bldg., Dallas, Texas, deduct 10% 15 days, \$733,250.

North American Cement Corp., 285 Madison Ave., New York City, deduct 10% 15 days, \$2.29 barrel, 100,000 bbl. shipments.

Santa Cruz Portland Cement Co., Crocker Bldg., San Francisco, deduct 2% 30 days, \$710,500.

Florida Portland Cement Co., 305 Morgan St., Tampa, Fla., 10% 15 days \$735,000.

United States Steel Products Co., American Securities Bldg., Washington, D. C., \$735,000.

Pennsylvania-Dixie Cement Corp. 60 E 42nd St., New York City, 10% 15 days, \$735,000.

Vulcanite Portland Cement Co., 239 Park Ave., New York City, \$735,000.

Pacific Portland Cement Co., 111 Sutter St., San Francisco, 1-82,500 bbls., \$173,250; 1b-100,000, \$210,000.

Lone Star Cement Co. of Pennsylvania, Nazareth, Pa., 10% 15 days, \$735,000.

Empire Contracting Supply Co., 401 Broadway, New York City, \$743,400.

POST OFFICE BREMERTON, Wash. Cost, \$135,000. Site To Be Selected.

Post Office. Owner—United States Government. Plans by Supervising Architect, Treasury Dept., Washington, D. C.

WASHINGTON, D. C.—Until Feb. 15, 2 P. M., bids will be received by Supervising Architect, Treasury Department, Washington, D. C., for furnishing and installing interior lighting fixtures at the United States post office in Marysville, Yuba County, Cal. Plans and specifications available from above office.

WASHINGTON, D. C.—As previously reported, Murch Bros. Construction Co., Railway Exchange Building, St. Louis, Mo., at \$99,999 for sandstone and \$97,500 for terra cotta, submitted low bid to Treasury Department for the construction of the post office building to be erected at Chehalis, Wash., for the U. S. Government. Following is complete list of bids:

(1) Sandstone. (2) Terra Cotta. Murch Bros. Construction Co., St. Louis, Mo.:

(1)\$ 99,999

(2) 97,500

McCarthy Bros. Construction Co., St. Louis, Mo.:

(1)\$101,300

(2) 99,370

C. Ted Brady & Co., Seattle, Wash.:

(1)\$103,400

(2) 100,600

Wm. Wills, Seattle, Wash.:

(1)\$104,913

(2) 102,913

A. F. Mowatt, Seattle, Wash.:

(1)\$105,000

(2) 102,500

J. H. Hoffman, Portland, Ore.:

(1)\$105,990

(2) 103,730

Johnson Bros., Inc., Seattle, Wash.:

(1)\$106,348

(2) 104,848

A. D. Belanger, Everett, Wasa.:

(1)\$106,500

(2) 104,000

Chas. Weitz Sons, Inc., Des Moines:

(1)\$107,000

(2) 104,168

A. M. Lundberg, St. Louis, Mo.:

(1)\$107,700

(2) 104,700

MacDonald Building Co., Tacoma:

(1)\$108,960

(2) 105,665

Western Construction Co., Seattle:

(1)\$109,445

(2) 106,345

Warrack Construction Co., Seattle:

(1)\$109,625

(2) 106,300

Harry Boyer Sons & Co., Olympia, Wash.:

(1)\$109,977

(2) 108,756

Devereux-Olson Construction Company, Minneapolis:

(1)\$110,800

(2) 108,300

Fitton & Livergreen, Seattle:

(1)\$111,800

(2) 108,800

Schuler & McDonald, Inc., Oakland:

(1)\$112,000

(2) 108,000

Wm. MacDonald Construction Co., St. Louis, Mo.:

(1)\$112,290

(2) 101,000

Hedeon Construction Co., Seattle:

(1)\$113,339

(2) 110,900

Peder P. Gjarde, Seattle:

(1)\$113,996

(2) 110,355

Standard Construction Co., Tacoma:

(1)\$116,883

(2) 114,109

Pacific States Construction Company, Seattle:

(1)\$118,375

(2) 115,675

Eivind Anderson, Tacoma:

(1)\$118,900

(2) 115,500

Edward Ekren, Seattle:

(1)\$119,950

(2) 116,200

MacRae Bros., Seattle:

(1)\$122,772

(2) 119,272

Neil MacDonald, Seattle:

(1)\$123,026

(2) 119,468

Dolph Jones, Inc., Tacoma:

(1)\$127,000

(2) 124,000

George Isackson, Portland:

(1)\$128,344

(2) 126,944

E. P. Brewster, Chehalis:

(1)\$131,260

(2) 126,543

Ring Construction Co., Minneapolis:

(1)\$137,000

(2) 135,000

Bids held under advisement.

HALLS AND SOCIETY BUILDINGS

Contracts Awarded.

FURNITURE, ETC. Cost, \$—

PLEASANTON, Alameda Co., Cal. Furniture and kitchen equipment for Veterans' Memorial Building.

Owner—County of Alameda. Architect—H. H. Meyers, Kohl Bldg., San Francisco.

Curtains, Hangings & Drapes—Hickey Furniture Co., 3630 E 14th Street, Oakland, \$954.

Floor Covering—Kronke Brampton, 3212 San Pablo Ave., Oakland, \$157

Occasional Chairs—Remington Rand, 1733 Telegraph Ave., Oakland, \$720

End Tables—Dahl Furniture Co., \$18.

Writing Desks, Small Tables, Etc.—C. L. Robinson, \$138.

Cuspidors and Service Trays—G. C. Laird, 5771 Shafter, Oakland, \$68.

Kitchen Equipment—Dohrmann Hotel Supply Co., 13th and Clay Streets, Oakland, \$532; T. J. Hopper, 321 13th St., Oakland, \$284; Mangrum Holbrook, 1235 Mission Street, San Francisco, \$73.

HOSPITALS

Construction Postponed Indefinitely. **PSYCHOPATHIC BLDG.** Cost, \$—

SAN FRANCISCO. Potrero Ave. and Twenty-second St.

Five-story Class A steel frame and reinforced concrete psychopathic institute building (tar and gravel roof, steam heating system to connect to main plant, etc.)

Owner—City and County of San Francisco.

Architect—Alfred I. Coffey and Martin J. Rist, Associated, Phelan Bldg., San Francisco.

SAN JOSE, Santa Clara Co., Cal.—A. J. Peters & Son, 455 E Washington St., San Jose, at \$302 awarded contract by Board of Supervisors for a ventilating system at the Service Building at the County Hospital. Binder & Curtis, 35 W San Carlos St., San Jose, architect. Following is a complete list of bids:

A. J. Peters & Son, San Jose.....\$302.00

Chas. Merritt & Sons, San Jose 349.24

Chas. R. Moody, San Jose..... 370.00

Wm. F. Serpa, San Jose..... 390.00

Herman Moltzen, San Jose..... 425.00

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.....1316-17 Edwards & Wildey Bldg., L. A., Tr.	3629
Atkinson, Guy F., Co., Inc. (BHPR) 601 Russ Bldg., S. F., Sut.	6722
Ball, N. M. (HP).....1889 Yosemite Rd., Berkeley, AS.	1344
Basalt Rock Co., Inc. (H).....900 8th St., Napa, Napa	0780
Bechtel Co., W. A. (BHPR).....155 Sansome St., S. F., GA.	7470
Bevanda, M. J. (HP).....319 Elks Bldg., Stockton	2456
Bishop, E. B. (HP).....900 Forum Bldg., Sacramento, Capitol	5022
Bodenhamer Const. Co. (HPR).....Box 643, 354 Hobart St., Oakland, Clencourt	4820
Calif. Const. Co. (BHPR).....715 Standard Oil Bldg., S. F., DO.	856
Casson, Jack A. (HP).....Hayward, Calif., Hayward	2903
Clark & Henry Const. Co. (HP).....564 Market St., S. F., DO.	1323
Colley, W. C. (HPR).....35 Northampton Ave., Berkeley, ASH.	1137 M
Conner, J. L. (HP).....P. O. Box No. 86, Monterey	6408
Connelly, T. E. (BHPR).....461 Market St., S. F., Kearny	9391
Conyes, R. A. (HPR).....1043 38th St., Oakland, Olym.	3497
Currie, James (HPR).....1100 Peninsula Ave., Burlingame, Burl.	7107
Delin, C. M. (HPR).....206 Sansome St., San Francisco, Gar.	176 W
Dodge Bros., Inc. (HP).....Fallon, Nevada, Main	44 W
Drumm, A. D., Jr. (HP).....Fallon, Nevada, Main	6700
Eaton & Smith (HPR).....715 Ocean Ave., San Francisco, DE.	456
Fairbanks, A. J. & J. L., Inc. (HPR).....Linden Ave., So. S. F.,	4044
Fay Improvement Co., The (HPR).....Phelan Bldg., S. F., KE.	2490
Fitzmaurice, J. H. (HP).....2857 Hannah St., Oakland, Higate	9349
Force Const. Co. (HP).....70 Bellevue, Piedmont, Calif., HU.	6684
Franks Contracting Co. (RPW), 260 California St., S. F., DOug.	5974
Frederickson Bros. (BHP).....First Natl. Bank Bldg., Stockton,	1264
Frederickson & Watson Const. (BPHR).....873 81st Ave., Oakland, SW.	6676
French, George J., Jr. (HP).....P. O. Box No. 675, Stockton,	8454
Gerwick, Ben C., Inc. (HP).....112 Market St., S. F., SU.	988
Granite Construction Co. (BHPR).....Watsonville, California,	1639
Hanrahan Co. (HP).....Hobart Bldg., San Francisco, CA.	1711
Harney, Charles L. (HP).....74 New Montgomery St., S. F., GA.	6790
Hauser, W. H. (HPR).....3129 E. 7th St., Oakland, FRuivale	0466
Heafey-Moore Co. (HP).....344 High St., Oakland, AN.	433
Hemstreet & Bell (HP).....411 "C" Street, Marysville,	5596
Heple, Earl W. (BHPR).....494 Delmas Ave., San Jose, Bal.	1563
Hodgman & MacVicar (HP).....714 Plymouth, Pasadena, Ter.	5400
Holland, J. P., Inc. (HPR).....1834 McKinnon Ave., S. F., MI.	472
Isbell Const. Co. (HP).....Carson City, Nev., Ph. 1754 (Also Fresno)	74
Jenkins, M. A. (HPR).....3560 Y St., Sacramento Capital	2614
Jones & King (HPR).....Hayward, Calif., Hay.	1620
Kaiser Paving Co. (BHPR).....Latham Square Bldg., Oak., HI.	Gal.
Knapp, J. F. (HPR).....916 Financial Center Bldg., Oak., GL.	1717
Larsen Bros. (HP).....Galt, Calif.	471
Lee, U. B. (HP).....10059 Carpenter St., San Leandro Sweet,	3981
Le Tourneau, R. G. (HPR).....122 Moss Ave., Stockton,	1990
Lord & Bishop (HPR).....Native Sons Bldg., Sacramento, Main	277
Lovelace, Nate (HP).....3433 "N" St., Sacramento, Capital	1806
Malcom, C. T. (HPR).....Walnut Creek, Calif., W. C	2170
McDonald, D. (HPR).....204 23rd St., Sacramento, Cap.	3876
McGillivray Const Co. (HPR).....Box 927, Sacramento, Capital	808
McMillan, W. K. (HP).....2088 Howard St., San Francisco, MA.	1851
Mercer-Fraser Co. (BHPR).....Eureka, Eureka,	5291
Nevada Contracting Co. (HPR).....Fallon, Nevada, Phone	4178
Nevada Rock & Sand Co. (HP).....Reno, Nevada, Reno	0879
Nightbert, Fred W. (HP).....No. 10 "H" St., Bakersfield	4471
Pacific Pavements Co., Ltd. (HP).....85 Barstow St., S. F., HE.	1457
Pacific States Construction Co. (HP).....Call Bldg., S. F., DO.	6141
Phillips, John, Co. (HP).....582 Market St., San Francisco, KE.	3842
Pollock, Geo., Co. (HPR).....P. O. Box 903, Sacramento, Main	5140
Rohl, H. W., Co. (HPR) 4351 Alhambra Ave., Los Angeles, CH.	921
Six Companies, Inc. (BHPR) Financial Center Bldg., S. F., Gar.	6586
Siems-Helmert, Inc. (BHPR).....206 Sansome St., S. F., EX.	8635
Skels & Graham Co. (HPR).....P. O. Box 576, Roseville, Calif.	7583
Tedford, J. N. (HP).....Fallon, Nevada, Main	921
Teichert, A., & Son, Inc. (HP) 1846 37th St., Sacramento, Main	6672
Tieslau Bros. (HP).....2819 Grove St., Berkeley, BE.	8743
Tucker, H. V., Co. (HP).....300 Vermont St., S. F., MA.	3743
Ulrich Const. Co., Geo. J. (BHP).....Modesto, Modesto	5551
Von der Hellen & Pierson (HPR).....Castaic, Calif.	
Ward Engineering Co. (HP) 315 Montgomery St., S. F., DOug.	
Wood, C. W. (HP).....P. O. Box 1435, Stockton,	
Young, Clarence (HP).....5250 Broadway Ter., Oakland, OL.	
Young & Son Co., Ltd. (HP) 599 Colusa Ave., Berkeley, Berk	

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American Bitumuls Co. (Bitumuls).....200 Bush St., S. F., GA.	6653
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Andrews, F. T., Co. (C. P. A.).....1922 Russ Bldg., S. F., SU.	0832
Associated Oil Co. (Asso. Prod.).....79 N. Mont'y St., S. F., KE.	4800
Austin Western Road Machinery Co. (Road Machinery)	
.....435 Brannan St., San Francisco, DO.	2183
Autocar Sales & Service Co. (Autocar Trucks).....	
.....1020 Harrison, San Francisco, UN.	4545
Bacon, Edward R., Co., (Road Machinery).....	
.....Folsom and 17th Sts., San Francisco, HE.	3700
Blake Bros. Co. (Crushed Rock).....Balboa Bldg., S. F., KE.	5320
Calaveras Cement Co.....315 Montgomery, San Francisco, DO.	4224
California Corrugated Culvert Co. (Corrugated Pipe).....	
.....5th & Parker, West Berkeley, BE.	5420
Cement Gun Construction Co. (Gunite).....	
.....35 Second St., San Francisco, SU.	8306
Contractors' Ins. Agency (Insurance) 206 Sansome, S. F., SU.	3400
Cowell Lime & Cement Co. (Cement).....2 Market St., S. F., GA.	4870
Geiger Iron Works (Equip.).....P. O. Box 423, Stockton, Stock.	1898
Granite Rock Co. (Crushed Rock).....Watsonville, Wat.	988
Harneschfeger Sales Corp. (Equip.).....82 Beale St., S. F., DO.	2313
Harron, Rickard & McCone Co. (Equip.).....	
.....1600 Bryant St., San Francisco, UN.	3740
Link-Belt Co. (Equip.).....400 Paul Ave., San Francisco, DE.	6400
Marion Steam Shovel Co. (Power Shovels)	
.....571 Howard St., San Francisco, KE.	7493
Modern Vehicle Co. (Mfrs. Steel Dump Bodies).....	
.....437 4th St., San Francisco, GA.	1402
Murray & Ready (Labor Agency) 784 Howard St., S. F., SU.	1205
Northwest Engineering Co. (Shovels).....23 Main St., S. F., SU.	7053
Pacific Coast Aggregates.....700 Wells Fargo Bldg., S. F., SU.	8940
Pacific Coast Engineering Co. (Structural Steel).....	
.....Foot of W. 14th St., Oakland, HI.	1322
Pacific H. B. A. Steel Co., Inc. (Drill Steel).....	
.....540 Brannan St., San Francisco, GA.	6683
Pacific Portland Cement Co. (Golden Gate).....	
.....Hunter-Dulin Bldg., San Francisco, GA.	4100
Pland-Evans (Commissary).....Merchants' Ex. Bldg., S. F., GA.	5923
Robinson Tractor Co. (Caterpillar Tractors).....	
.....1705-09 E. 12th St., Oakland, FR.	2485
.....1175 Howard St., San Francisco	
Roebbling's, Jno. A., Sons Co. (Wire Rope).....	
.....646 Folsom St., San Francisco, GA.	6490
Santa Cruz Portland Cement Co. (Santa Cruz).....	
.....Crocker Bldg., San Francisco, GA.	3307
Shell Oil Co. (Shell Products).....100 Bush St., S. F., EX.	5400
Soule Steel Co. (Reinforcing Steel).....1750 Army St., S. F., VA.	4141
Spears-Wells Machinery Co. (Equip.) 1832 9th St., Oak., HO.	4100
Standard Oil Co. of Calif. (Standard Products).....	
.....Standard Oil Bldg., San Francisco, SU.	7700
Traffic Service Bureau (Freight Audits) 24 Calif. St., S. F., GA.	6194
Union Oil Co. of Calif. (Union Prod.) Mills Bldg., S. F., SU.	1400
United Commercial Co., Inc. (Equip.) 234 Steuart St., S. F., DO.	0430
Western Pipe & Steel Co. (Steel Pipe) 444 Market, S. F., GA.	6788

SOUTHERN CALIFORNIA CHAPTER

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Byerts & Dunn.....	7908 Santa Monica Blvd., CRestview	9602
Clinton Construction Co.,	1103 Spring Arcade Bldg., MADison	2597
Crowell, Wm. C.....	495 S. Bdwy., Pasadena, WAKEfield	6692
Crowell Co., Weymouth.....	2104 E. 15th St., WESTmore	5708
DeCamp-Hudson Co., Ltd.....	1277 W. 24th St., WESTmore	3382
Dixon, L. E., Co.....	609 So. Grand Ave., TRinity	4925
Escherich Bros.....	234 W. 37th Place, ADAMS	6294

Class of Construction: (B) Building; (H) Highway; (P) Public Works; (R) Railroad.

Hall, J. F.	531 Douglas Bldg.,	MUtal	6722
Houghton & Anderson	143 Rose St.,	MUtal	5430
K. P. Lowell & Co., Ltd.	606 Union Bank Bldg.,	VAndike	4072
Macdonald & Driver	311 Board of Trade Bldg.,	TUcker	6467
McKee, Robert E.	1128 Central Bldg.,	TRinity	0291
Miller, Geo. E.	401 N. Canon Dr.,	B. H.,	OXford
Simpson Construction Co.	1007 Architects Bldg.,	MUtal	7261
Snell, Fred C.	339 N. Beverly Dr.,	Beverly Hills,	OXford
Willard-Brent Co.	254 E. 27th St.,	Richmond	2101

Bridges, Foundations

Ledbetter Co., W. M.	Box 1264, Arcade St.,	CApitol	13415
Oberg Brothers	707 San Fernando Bldg.,	ANGelus	8759
Raymond Concrete Pile Co.	1008 Washington Bldg.,	VAndike	6536

Highways, Paving, Grading

Basich Bros.	Torrance, Gardena	446
Bock, Geo. J.	1007 S. Harvard,	EMpire
Donovan & Sons, J. G.	4031 Goodwin Ave.,	OLympic
Ferry, Peter L.	San Fernando Rd. and Bdwy.,	Glendale, OL.
Fleming Construction Co.	Pomona	
Griffith Company	L. A. Railway Bldg.,	WESTmore
Hall-Johnson Co.	P. O. Box 387, Alhambra,	Eliot
Herz & Co., Geo.	310 Platte Bldg.,	San Bernardino, S. B.
Heuser, Chas. U.	316 Allen Ave.,	Glendale, DOuglas
Hudson, Chas. H.	408 Rives-Strong Bldg.,	VAndike
Jahn & Bressi	701 Lane Mortgage Bldg.,	TRinity
Lang Transportation Co.	5501 Santa Fe Ave.,	JEfferson
Lewis Construction Co.	300 S. Juanita St.,	WASHington
Packard & Tanner	905 W. Latham St.,	Phoenix, Ariz.
Pearson & Dickerson	4485 Cypress, Riverside,	1600
Ross, M. S.	4011 Goodwin Ave.,	CApitol
Wells & Bressler	P. O. Box 596, Santa Ana,	227
Willis, C. C., & Sons, Inc.	2119 E. 25th St.,	LAfayette

Pipe Lines, Water Works

American Concrete Pipe Co.	P. O. Box 1428, Arcade Sta.,	JE.
Haverty Co., Thos.	316 E. 8th St.,	VAndike
United Concrete Pipe Co.	Box 1, Station H, L. A.,	TWinoaks

Subways, Conduits

Delta Construction Co.	P. O. Box 79, Compton
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General Engineering

Atkinson, Lynn S.	609 S. Grand,	TRinity
Bartmus, Peter	Hollywood Riviera, Redondo,	Redondo
Bent Bros., Inc.	418 S. Pecan S.,	ANGelus
Campbell-Reichert Co.	4000 Whiteside Ave.,	ANGelus
Cox, R. L.	1100 Westminster,	ALhambra
Emsco Conc. Cutting Corp.	1517 Santa Fe Ave.,	VAndike
Fitz-Gerald Eng. & Constr. Co.	216 Rowan Bldg.,	TRinity
Foley, D. A., Construc. Co.	716 Grant Bldg.,	TUcker
Kemper Const. Co., Ltd.	3701 Overland,	Los Angeles
Macco Construction Co.	Hynes,	JEfferson
Merritt-Chapman-Scott Corp.	P. O. Box 507, San Pedro,	2880
Mittry Bros. Construction Co.	722 Detwiler Bldg.,	VAndike
Morrison-Knudsen Co.	411 West Fifth St.,	MUtal
Robinson-Roberts Co.	706 Rives-Strong Bldg.,	TRinity
Spicer, C. A.	818 Financial Center Bldg.,	TUcker
Standard Dredging Co.	325 Central Bldg.,	TRinity
Watson, R. A.	1026 N. McCadden Pl.,	GRanite

Affiliates

Brashears & Co., G.	501 Security Bldg.,	TRinity
Consolidated Rock Prod. Co.	656 S. Los Angeles St.,	TRinity
Gilmore Oil Co.	2423 E. 28th St.,	JEfferson
Graham Brothers	1215 W. 7th St.,	Long Beach, L. B.
Hartford Accident & Ind. Co.	548 S. Spring St.,	MADison
L. A. Brick Co.	1078 Mission Road,	ANGelus
Sun Lumber Co.	Crescent Drive, Beverly Hills,	OXford
Union Oil Co.	Union Oil Bldg.,	TUcker

ALAMEDA COUNTY CHAPTER

354 Hobart St., Rm. 410—Glencourt 7400—Oakland, Calif.

S. G. Johnson, President
 Geo. J. Maurer, Vice-President
 H. J. Christensen, Treasurer
 W. E. Hague, Manager

Brennan, J. P. (B)	2820 Regent, Berkeley, BE.	0346
Christensen, H. J. (B)	1924 Broadway, Oakland, LA.	7164
DeVelbiss, C. Dudley (B)	369 Pine St., S. F., GA.	3225
Furlong Construction (B)	337 17th St., Oakland, GL.	3203
Furlong, Thos. H. L. (B)	460 Jerome Ave., Piedmont, HU.	0620
Jacobs & Pattianl (BP)	337 17th St., Oakland, GL.	3203
Johnson, S. C. (B)	4652 Dolores Ave., Oakland, FR.	6650
Keating, W. C. (B)	925 Forum Bldg., Sacramento	
Lesure, E. T. (B)	87 Ross Circle, Oakland, OL.	0389
Littlefield, R. W. (B)	337 17th St., Oakland, HI.	0994
Lyons, W. E. (B)	354 Hobart SSt., Oakland, HO.	5325
Maurer, George J. Co. (B)	50 York Drive, Oakland, HU.	3457
Nordstrom, David H. (B)	354 Hobart St., Oakland, GL.	7400
Pedgrift, James H. (B)	4106 Broadway, Oakland, HU.	1300
Petersen, George (B)	1841 Bancroft, San Leandro, TR.	2043
Petersen, James B. (B)	4021 Agua Vista, Oakland, FR.	9887
Schultz, Herbert (B)	811 Mendocino, Berkeley, AS.	2360
Sullivan & Sullivan (B)	2653 Best Ave., Oakland, AN.	4724
Thornally, W. G. (B)	354 Hobart St., Oakland, GL.	8476
Westlund, Fred J. (B)	625 40th St., Oakland, OL.	7446

Associate Members

Calaveras Cement Co.	315 Montgomery St., San Francisco
Cowell, Henry, Lime & Cemt. Co.	81 Franklin St., Oakland, HI.
East Bay Glass Co.	621 Sixth St., Oakland
Lannom Bros. Mfg. Co.	Fifth and Magnolia Sts., Oakland
Maxwell Hardware Co.	1320 Washington St., Oakland
Melrose Building Materials Co.	4591 Tidewater Ave., Oakland
Oakland Planing Mill.	Second and Washington Sts., Oakland
Pacific Portland Cement Co.	111 Sutter, San Francisco, GA.
Santa Cruz Portland Cement Co.	354 Hobart St., Oakland
Sunset Lumber Co.	400 High St., Oakland
Tilden Lumber Co.	Foot of University Ave., Berkeley

SAN DIEGO CHAPTER

Spreckels Theater Bldg.—Main 4289—San Diego, Calif.

George R. Dalry, President
 M. H. Golden, Vice-President
 M. A. Mathias, Manager

Carroll, B. C.	4396 Maryland St., Hillcrest	5274-M
Daley Corporation (HP)	4430 Boundary St., Randolph	1136
Dennis Constr. Co., V. R. (HP)	Box 183, Sta. A, Hillcrest	8293
Ford, E. Paul (HP)	Box 201, E. San Diego, Randolph	5101
Golden, M. H. (B)	404 California Bank Bldg., Franklin	7983
Grove, Cecil B.	4316 Island Ave., Franklin	7474
Hazard Constr. Co., R. E. (HP)	2508 Kettner Blvd., Franklin	6315
Jarboe Constr. Co. (B)	208 Spreckels Theatre Bldg., Franklin	3792
Kier Const. Co., W. E. (B)	First National Bank Bldg., Main	2427
Larsen, B. O. (B)	1340 E St., Main	4752
Miracle Constr. Co. (HP)	Box 601, E. San Diego, Main	2295
Penick & Sons, T. B. (HP)	3075 L St., Main	4582

PACIFIC NORTHWEST BRANCH

4134 Arcade Building, Seattle, Wash.

J. C. Compton, President
 H. V. BOGERT, Rec. Secretary
 J. B. WARRACK, Treasurer
 P. L. CROOKS, Vice-Pres. and Secretary

PORTLAND CHAPTER

Multnomah Hotel—Atwater 7883—Portland, Ore.

Paul L. Crooks, President
 Carl Schram, 1st Vice-President
 Ross B. Hammond, 2nd Vice-Pres.
 J. A. Lyons, Treasurer
 G. B. Herington, Executive Secretary

Baker Construction Co. (B)	Security Bldg., Atw.	9211
Christensen, Fred, Inc. (BHP)	187 E. 34th St., Ea.	8934
Cochrane Construction Co. (HP)	65th & Ainsworth, Tr.	5944

Compton, J. C. (HP)	McMinnville, Ore., McM.	106
Crooks, P. L., Inc. (HPR)	Henry Bldg., Atw.	7767
Dann, J. J. (PHR)	300 Henry Bldg., Atw.	5837
Edlefsen-Weygandt Co. (HP)	Foot of Jefferson, Atwater	4090
Endicott, Wm.	Corvallis, Oregon	
Gates, E. L. (HPR)	Eugene, Oregon	
Gilpin Construction Cn. (HPR)	Henry Bldg., Atw.	6220
Greenwood, A. C. (HPR)	500 N. Front St., Br.	3030
Guthrie & Co., A., Inc. (BPHR)	552 Sherlock Bldg., Atw.	8316
Hammond, Ross B. (B)	1312 Public Service Bldg., Atw.	2159
Hauser Bros. Construction Co. (PHR)	Multnomah Hotel, Atw.	7441

Class of Construction: (B) BUILDING; (H) HIGHWAY; (P) PUBLIC WORKS; (R) RAILROAD.

Hoffman, L. H. (BP)	Public Service Bldg., Atw. 3181
Jacobsen-Jensen Co. (PH)	407 Stanton, Gar. 3313
Johnson Contract Co. (HPR)	414 Exchange Bldg., Atw. 0678
Johnson-Gardner Co. (HPR)	414 Exchange Bldg., Atw. 0678
Kern & Kibbe (HPR)	290 E. Salmon St., Ea. 4116
Kernan, F. J.	Porter Bldg., At. 2055
La Pointe Constr Co.	1291 Cumberland Rd., Be. 6000
Lindstrom & Feigenson (BPHR)	1991 Halsey St., Ta. 9226
Lyons, J. A. (BPHR)	1001 Halsey St., Tr. 2841
Milne Constr. Co.	1853 E. Broadway, Tab. 7277
Morrison & Knudsen (BHPR)	319 Broadway, Boise, Idaho
Morgan, T. M. (H)	5410 Wilshire Blvd., Los Angeles
Newport Construction Co. (PHR)	317 Exchange Bldg., Atw. 5900
Pacific Bridge Co. (BPHR)	Ft. of E. Salmon St., Ea. 2164
Parker & Banfield (BP)	984 E. 17th St., Sel. 6182
Parker-Schram Co. (PHR)	Couch Bldg., Atw. 4375
Peck, E. C., & Co. (PH)	Aberdeen, Wash.
Puckett, W. H. Co. (PHR)	319 Broadway, Boise, Idaho
Quinn, J. L. (B)	Box 1109, Klamath Falls, Ore.
Rebman, J. (PH)	343 Vancouver Ave., Tr. 7825
Robertson, Hay & Wallace (B)	605 Weatherly Bldg., Ea. 3613
*Saxton & Looney	Corvallis, Ore.
Seed, John S. (B)	201 Worcester Bldg., Atw. 6444
Honorary Member and Director of Chapter	
Shea & Co., J. F. (PHR)	211 Henry Bldg., Atw. 2435
Sullivan & Doyle (PHR)	Ft. of Curry St., Atw. 5297 Box 104, Portland, Ore.
United Contracting Co. (BPHR)	309-10 Stock Ex. Bldg., Atw. 5296
von der Hellen & Pierson (HR)	Naches, Wash.
White, Ernest & Co. (B)	Twin Falls, Idaho
Wren & Greenough (PHR)	485 28th St.
Wright Constr. Co. (BPH)	Aberdeen, Wash.
Young, I. L. (BPH)	524 Henry Bldg., At. 0297

Associate Members Portland Chapter

Balzer Machinery Co.	275 Pine St., Atw. 9391
Beall Pipe & Tank Co.	85 Columbia Blvd., Wa. 3171
Clyde Equipment Co.	555 Thurman St., Br. 5561
Collins Concrete Pipe Co.	410 River St., Wa. 7670
Feenaughty Machinery Co.	309 E. Yamhill, Ea. 2187
Grand Sheet Metal Works	60 E. Third N., Ea. 2181
Latture, J. L. Equip. Co.	312-314 E. Madison St., Ea. 8166
Loggers & Contractors Machy. Co.	345 E. Madison St., Ea. 4128
Metropolitan Casualty Ins. Co., The	Wilcox Bldg., Atw. 7521
National Hospital Assn.	400 Mohawk Bldg., Atw. 5291
Oregon Portland Cement	321 E. Madison, Ea. 3116
Phoenix Iron Works	360 Hawthorne, Ea. 0029
Pomeroy, J. H., & Co.	Box 48, Seattle, Wash.
Pure Iron Culvert & Mfg. Co.	763 Gladstone, Sel. 2275
Santa Cruz Portland Cement	45 Fourth St., Atw. 9848
Standard Oil Co.	Pacific Bldg., Bea. 4161
Swigert, Hart & Yett	Ft. of E. Salmon St., Lan. 1125
Union Oil Co. of California	Yeon Bldg., Atw. 9521
Wallace Bridge & Structural Steel	P. O. Box 48, Seattle, Wash.
Shell Oil Co.	Commerce Bldg., At. 7321

SPOKANE CHAPTER

West 515 First Avenue—Main 6822—Spokane

James Crick, President	C. W. Joslin, Director
A. McLellan, Vice-President	Louis Larsen, Director
F. R. Hewitt, Vice-President	Dan Hannah, Secty.-Treas.
Alloway & Georg (B)	Hutton Bldg.
Auld & Shinn (B)	1121 Indiana
Burnette, C. A. (H)	1118 Ide Ave.
Byers, W. A. (H)	W. 1204 Mansfield
Clifton & Applegate (HPR)	Hutton Bldg.
Collins, J. H. & Co. (H)	S. 1924 Post St.
Colonial Building Co. (BH)	W. 326 First Ave.
Crick, James (H)	Realty Bldg.
Degerstrom, N. A. (HPR)	Peyton Bldg.
Edwards, J. E. (H)	S. 1423 Adams
Geist, W. L. (H)	W. 444 23rd Ave.
Hansen Construction Co. (H)	Opportunity
Harding, Geo. (H)	Walla Walla, Wash.
Hewett, F. R. (H)	W. 420 Twenty-second
Joslin & McAllister (H)	East 3038 Trent Ave.
Kuney, Max J. (H)	Hutton Bldg.
Larsen Bros. (B)	S. 2607 Grand Ave.
Long, Oliver J. (H)	W. 1924 Mansfield
Lyon & Munro (H)	W. 503 Fourteenth
March Construction Co. (H)	Roosevelt Apartments
Marrazzo, Tony, (H)	E. 618 Dalton Ave.
Materne Bros. (H)	E. 227 Longfellow Ave.

Martin, F. E. (B)	Galax Hotel
McLellan, A. (B)	E. 932 Ermina
Medby, M. C. (B)	S. 3614 Arthur
Meyers, W. G. (B)	S. 2217 Tekoa St.
Morin, S. G. (B)	S. 307 Bernard
Norman, Nick (B)	231 Waverly Place
Nyberg, Carl (H)	Realty Bldg.
Orino, Sam (H)	E. 3104 Boone
Payne, Mrs. C. M. (H)	N. 2602 Ihamilton St.
Power, C. A. (H)	S. 1703 Grand
Siems, Spokane Co. (BPHR)	Realty Bldg.
Standard Asphalt Paving Co. (HP)	Chronicle Bldg.
Sullivan, D. A., & Co.	E. 415 Sprague Ave.
Terteling, J. A., & Sons (HP)	511 Sound Ave.
Tobin, James, & Son (H)	Clarkston, Wash.
Triangle Construction Co. (H)	W. 1220 Ide
True-House Construction Co. (B)	No. 121 Browne
Wheeler & England (HP)	St. Maries, Idaho
Young, Peter J. (B)	S. 11 Cedar St.

Associate Members

Beall Pipe & Tank Corp.	West 2007 York
Brandt Bros.	W. 14 Main Ave.
Building Specialties, Inc.	1310 Ide Ave.
Coeur d'Alene Hardware & Foundry	Wallace, Idaho
Commercial Importing Co.	W. 904 Broadway, Seattle, Wash.
Construction Equipment Co.	1118 Ide Ave.
General Machinery Co.	E. 3501 Riverside
Gladding-McBean & Co.	524 Old National Bldg
Haweys Fuel Co.	N. 740 Division St.
Hofius-Ferris Equipment Co.	W. 728 Mallon
Marshall Wells Co.	S. 157 Howard
Jones & Dillingham Co.	W. 715 First Ave.
Jones & Mitchell	Hutton Bldg.
Long Lake Lumber Co.	N. 348 Wall St.
W. S. McCrea & Co.	212 Symons Bldg.
J. E. McGovern Co.	550 Peyton Bldg.
Nott-Atwater Co.	S. 157 Monroe St.
Spokane Concrete Pipe Co.	N. 2627 Dakota
Spokane Culvert & Tank Co.	N. End Division Street Bridge
Spokane Paper & Stationery Co.	S. 152 Jefferson
Standard Oil Co. of Calif.	Old National Bldg.
Union Oil Co.	611 Chronicle Bldg.
Washington Brick, Lime & Sewer Pipe Co.	S. 151 Washington St.
Washington Machinery & Supply Co.	W. 9 Cataldo

MOUNTAIN PACIFIC CHAPTER

(Strictly a Public Works Chapter, practically every member carrying on highway, public works and railroad construction)

Washington Hotel—Seattle, Wash.

J. W. Rumsey, President	Lee H. Johnson, Secretary-Treasurer
John M. Clifton, Vice-President	James D. Brown, Manager
Allen & Goven	Olympia, Wash.
Barnard Curtiss Co.	Ellensburg, Wash.
Clifton & Applegate	Hutton Bldg., Spokane, Ma. 4415
Columbia Power & Investment Co.	Stevenson, Wash.
Coyle Construction Co.	901 Westlake N., Seattle, Gar. 5741
N. A. Degerstrom	444 Peyton Bldg., Spokane
Dorsey & Wilder, Inc.	2006 State St., Bellingham, Wash., 1310
Fuel Oil Service Corporation	Box 348, Chehalis, Wash.
Goodfellow Bros.	Wenatchee, Wash.
Grays Harbor Const. Co.	Hoquiam, Wash., Hoq. 303
Hargrave Construction Co.	W. 418, 20th Ave., Spokane
Hendricks & Co.	Chehalis, Wash.
F. R. Hewitt	420 W. 22nd, Spokane, Riv. 7554
Johnson, Homer G.	Perkins Hotel, Portland
Joslin & McAllister	Realty Bldg., Spokane, Wash.
Lee H. Johnson	920 N. Tacoma Ave., Tacoma, Ma. 6241
Lidral, Wiley	Securities Bldg., Seattle
Lyon & Munro	503 W. 14th, Spokane, Riv. 5319-R
Norris Bros.	Burlington, Wash.
Chas. A. Power	S. 1703 Grand, Spokane, Riv. 3640
Puget Sound Bridge & Dredging Co.	Seattle, El. 7300
Puget Construction Co.	Colman Bldg., Seattle, El. 7311
Fred G. Redmon	206 S. 4th Ave., Yakima, 9133
Rumsey & Co.	Medical Arts Bldg., Seattle, Ma. 8751
Standard Asphalt Paving Co.	Chronicle Bldg., Spokane, Ma. 1689
von der Hellen & Pierson	Cosmopolis, Wash.
Winston Bros. Co.	4580 Colorado Ave., Seattle, Glen. 2268

Class of Construction: (B) Building; (H) Highway; (P) Public Works; (R) Railroad.

SEATTLE CHAPTER

4134 Arcade Bldg.—Main 4709—Seattle, Wash.

James Murdock, President M. Phil Butler, Secretary
George E. Teufel, Vice-President A. S. Downey, Treasurer
H. V. Bogert, Manager

Table listing members of the Seattle Chapter, including Bartleson & Ness (B), Bromley, H. C. (Honoary), Butler, W. T., Inc. (B), etc.

SEATTLE CONSTRUCTION COUNCIL

Affiliated with
ASSOCIATED GENERAL CONTRACTORS OF AMERICA
Building Material Dealers' Association

Table listing members of the Seattle Construction Council, including Abel, Inc., C. S. Barlow & Sons, Inc., Builders Brick Co., etc.

Seattle Association of Insulation Contractors

Table listing members of the Seattle Association of Insulation Contractors, including Asbestos Covering & Supply Co., Brower & Co., Chas. R., etc.

Contracting Plasterers' Association of Seattle

Table listing members of the Contracting Plasterers' Association of Seattle, including Allyn, W. A., Blake, C. W., Carr Bros., etc.

Amalgamated Sheet Metal & Roofing Association

Table listing members of the Amalgamated Sheet Metal & Roofing Association, including Builders Sheet Metal & Roofing, Getchell Roofing & Flooring Co., etc.

Northwest Master Painters' Assn., Inc., Seattle Chapter

Table listing members of the Northwest Master Painters' Assn., Inc., including Anderson & Nelson, Atlas Painting & Decorating, etc.

Associated Woodwork Manufacturers of Seattle

Table listing members of the Associated Woodwork Manufacturers of Seattle, including Guarantee Millwork, Inc., Nordquist & Nelson, Inc., etc.

Unclassified

Table listing unclassified members, including Superior Portland Cement, Pacific Lime Co., Ltd., Seattle Hardwood Floor Co., etc.

INTERMOUNTAIN BRANCH

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Karl Nelson, Vice-President Mark Tuttle, Manager

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Class of Construction: (B) Building; (H) Highway; (P) Public Works; (R) Railroad.

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IN THIS ISSUE



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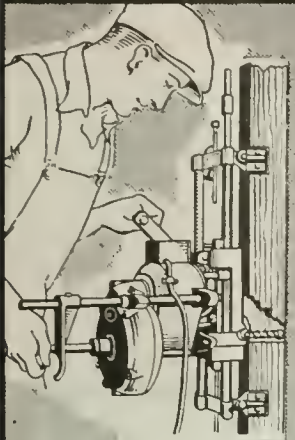
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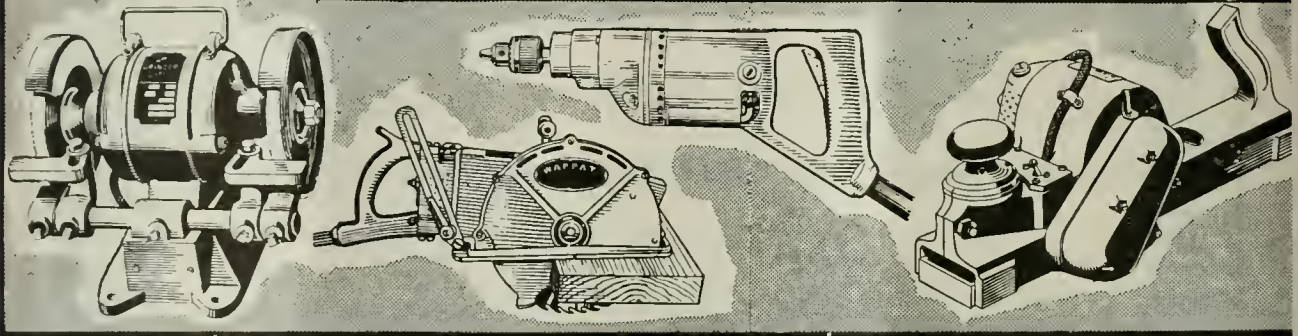
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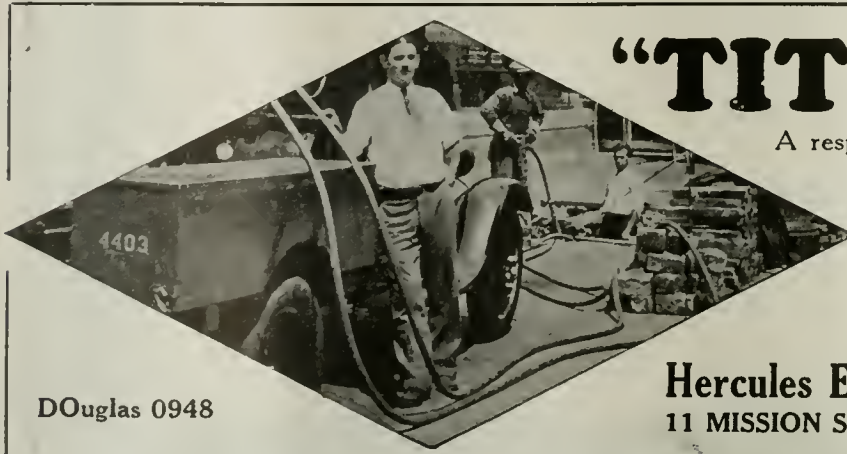
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PACIFIC CONSTRUCTOR

With which is Consolidated Building and Engineering News

Official Publication of the Associated General Contractors of America
for the Eleven Pacific Coast States

SAM B. EUBANKS, *Editor*

Vol. 16.

SAN FRANCISCO, CALIF., FEB. 11, 1933

No. 4

BRIDGE CONTRACTS RAISE S. F. PERMIT TOTAL FOR MONTH

Additional Golden Gate Awards Allotted to City In January

Additional Golden Gate Bridge contracts are included in the January valuation of San Francisco building permits, bringing the total for the month to \$14,557,555, according to the report filed by William H. Worden, director of public works.

The bridge permits account for \$12,440,700 of the total. They include portions of the steel superstructure, cable and pier contracts. The allocation of \$10,000,000 of the steel superstructure contract to San Francisco valuations is based on the fact that the San Francisco county line extends to the Marin shore and therefore, brings virtually the entire bridge structure within the county boundaries. For this reason the north pier contract, amounting to \$450,000 and an additional portion of the cable contract valued at \$1,990,700 are added to this month's permits.

United States government work accounts for \$1,798,850 of the total. This includes permits for the Fort Miley veterans hospital work, aggregating \$1,150,980 and for the post office addition, \$645,479.

Remodeling and repair work compares favorably with the volume reported in January, 1932, both in number of permits and in dollar value. For this classification 227 permits were issued last month, compared with 257 for January a year ago. The value of work represented is only about 10 percent below the value reported a year ago, being \$100,055 this year, compared with \$112,683 in January last year.

Following is a report of the month's permits, showing totals for each classification in comparison with last January:

Class	January, '33		January, '32	
	No. P'mts	Est. Cost	No. P'mts	Est. Cost
A	.....	.....	.....	.....
B	2	\$ 105,000	1	\$ 25,000
C	4	5,750	4	8,525
Frames	31	107,200	107	414,005
Alteration	227	100,055	257	112,683
Public	3	12,440,700	1	39,000
U.S. Govt.	5	1,798,850	1	6,936
Total	272	\$14,557,555	371	\$606,149

CITY ASKS BIDS ON HETCH HETCHY PIPE LINE LINK

Bids will be received Feb. 24 by the San Francisco Public Utilities Commission for construction of a pipe line in the Bay Crossing Division of the Hetch Hetchy aqueduct. The estimated cost is \$200,000.

Proposals will be for steel pipe line and accessories and for an alternate specification of steel cylinder reinforced concrete pipe line with short lengths of steel pipe and accessories.

Specifications are obtainable at Room 609, San Francisco Water Department, 425 Mason St.

L. A. GETS LOAN FINANCING NEW ELECTRIC LINE

Interior Department Approves \$13,000,000 Dam Contract

A loan of \$22,800,000, granted by the Reconstruction Finance Corporation to the Los Angeles Bureau of Power and Light will finance the major portion of construction of the proposed high tension power transmission line between the city and the Hoover Dam power project.

In addition to the loaned funds the municipal bureau will expend \$10,000,000 of its own money on the extension.

The power line and switching station will cost \$15,711,000; a step-down station to be located in Los Angeles, \$2,112,000; a local transmission line in the city, \$1,704,000; four receiving stations, \$3,273,000.

E. F. Scattergood, chief engineer, estimates that two years will be required to complete the project and that 2000 men will be required.

Approval has been given by the Department of the Interior to the contract for co-operative construction and operation of the \$13,000,000 diversion dam on the Colorado River at Parker, about 155 miles below Hoover Dam.

Los Angeles Metropolitan Water District will advance the money for construction which will be effected by the Federal government.

The site selected is the one known as the upper Parker site and is just below the mouth of the Bill Williams river. It will raise the water level about 70 feet and will provide a head to generate about 80,000-h.p. of electrical energy. The estimated cost is \$12,958,000. The estimated cost of works designed to pass the river flow after the Colorado river is regulated by the Hoover Dam is \$2,640,000.

The dam will be for the joint benefit of the district and of Indian and public lands in Arizona.

LACK OF LICENSE COSTS \$25 FINE

A fine of \$25 was paid by Robert Sloan of Los Angeles when he pleaded guilty before Justice of the Peace R. K. Roberts at Sunnyvale to operating as a contractor without a license. Sloan is president of the Calnevari Trucking Company, Inc., sub-contractors on a section of the Bayshore highway.

Sloan was arrested on a complaint filed by James Fellow inspector for the registrar of contractors.

Bail of \$1000 bond or \$500 cash is being required by peninsula judges on complaints involving the contractors' license act.

NOMINATIONS FOR DIRECTORS DUE

Directors of the San Francisco Builders' Exchange will be elected at the annual meeting to be held in March. Nominations of the crafts for directors and appointments of delegates and alternates to the central council will be received this month by the Exchange.

Each member of the Exchange will receive a notice to meet with his craft at a given date and hour during February in the Exchange to nominate a director.

\$15,000,000 Remodeling Created By Civic Campaign in Philadelphia

PHILADELPHIA, Feb. 9.—(Special).—Has Philadelphia found a key that can be made to unlock the door to a revival of business and employment? Can the plan which brought about more than \$15,000,000 of new business here in less than three weeks be followed on a national basis through the cooperation of other communities and thus revive business on a tremendous scale?

Leaders of the Renovize Philadelphia Campaign believe the answer to both questions is "yes." They point out that the campaign, still far from complete, has already surpassed the preliminary estimates and they assert that the final results will be an astounding demonstration of what can be accomplished when a community unites its efforts along sound lines to improve business conditions.

Spurred on by the success of the venture in Philadelphia, other cities already are considering similar campaigns. Mrs. Franklin D. Roosevelt, wife of the President-elect, is studying the Philadelphia plan with a view to its application in New York City. Business leaders in half a dozen nearby cities and towns—Harrisburg, Easton, Coatesville, Reading and Lancaster, Pa., and Ocean City, N. J.—are trying to promote the plan in their communities, and requests for information have been received from points as distant as the West Coast.

Launched with the endorsement of President Hoover, the Renovize Philadelphia Campaign is similar in many respects to home modernization plans that have been tried with varying degrees of success in other cities. Yet the whole tenor of it is something quite distinct, something clearly to be differentiated from the "made work" movement.

You won't find "renovize" in the dictionary, but any Philadelphian can tell you that it means "to repair, remodel, restore." And so thoroughly has this campaign been advertised, he might even add the rest of the slogan, "at today's bargain prices."

That is the basic idea of the Philadelphia plan—an appeal to the self-interest of the individual to help himself by making necessary repairs and improvements now and taking advantage of prices the like of which he may ever see again. That these expenditures result in work for the unemployed and in improvement of business generally throughout the community follows as a matter of course. But the appeal is essentially one to the self-interest of the individual.

Conceived by the Philadelphia Federation of the Construction Industry, the "renovize" plan was submitted to the leading business and professional men of this city. They saw its possibilities. Other civic minded persons were consulted and eventually an organization

was perfected with a general council of forty of the outstanding men and women of Philadelphia—conservative, keen-minded bankers, merchants, insurance men, labor leaders and directors of public utilities. A thousand trade, civic, community and religious organizations were induced to cooperate and seven thousand volunteer workers, grouped in teams, went out to canvass every residence and place of business in the city and its suburbs.

Not since the Liberty Loan drives of the war days, has staid old Philadelphia seen such community spirit and enthusiasm. Full-page advertisements cried out the message from every newspaper; signs and posters appeared in every street car, taxicab, subway and elevated; thousands of other posters were placed in store windows by boy scouts; flags flew from rooftops and doorways; billboards displayed the familiar emblem; pamphlets accompanied gas and electric bills; speakers spoke over the radio; an autogiro flew over the city with a gigantic sign "renovize"; and every day the newspapers carried the news of the progress of the campaign. All this cooperation was contributed, as was the services of an advertising agency that organized and conducted the publicity.

It wasn't long before the whole community began to see the possibilities of the thing. One newspaper after another appeared with columns of small classified advertisements—advertisements placed by painters, carpenters, plumbers, roofers, plasterers and others, many of them small business concerns that had not heard the ring of the cash register in months.

A heating contractor, who heretofore confined his work to installations, purchased 25 trucks, made each an individual repair unit, hired 25 mechanics, and went out after the small jobs that were inspired by the mass selling effort. A carpenter and a painter, unemployed since summer, made a canvass of their neighborhood. Two months ago they had done this with no results. This time they obtained enough work to keep them busy 16 weeks. Merchants began replenishing their stocks.

One of the reasons for the success of the campaign, according to Wm. A. Law, chairman, and H. P. Liversidge, vice-chairman, is that no effort was made to parcel out the work to the unemployed. The movement recognized that unemployment applies to the contractor and jobber as well as to the individual craftsman, that if one gets work the other will get work also. Accordingly property owners were not asked to give employment to nor to accept the services of any specified individual or concern. They were asked simply to sign a pledgecard stating the amount they

would spend during the following six months and they were encouraged to call upon their own dealers and tradesmen, preferably those in their own neighborhood. This removed all element of charity and put it up to the property owner simply as a good business proposition. Later on the pledges will be followed up to see that the work has been done.

To assist property owners in developing their renovizing plans the campaign maintained an architectural and engineering bureau, but this bureau would not furnish working drawings or specifications. It also maintained a construction bureau to give advice on estimates and the award of contracts. Seven check lists of suggestions were made available for owners of homes and various types of business buildings—the first time such lists have ever been prepared for the general public. An exposition showing rooms in need of modernization and the same rooms after renovizing was opened to the public—visual evidence of the increased comfort and value that can be obtained by a relatively small expenditure. All this awakened interest and spurred property owners to make needed improvements now without waiting for the turning of that elusive business corner.

Mr. Liversidge, the vice-chairman of the campaign, is vice-president of the Philadelphia Electric Company, which with other public utilities, has been a real leader in the movement. Authoritative studies of the Federal Reserve System, he said, show that every dollar put into circulation multiplies twenty-five times in the period of a year.

"Our Renovize Philadelphia Campaign has already brought in pledges of \$15,000,000 for work to be done in the next six months," Mr. Liversidge said. "That is equivalent to an annual volume of business of \$375,000,000. Before we have finished, our figure will be much higher than that."

"There is no magic about what has been done here. I do not see why it could not be done in any other community, large or small. If the plan were adopted throughout the country, there is no doubt but that business would be improved and unemployment would be decreased."

QUARANTINE STATION PLANS ARE COMPLETE

Plans are complete for the new \$250,000 federal quarantine station to be constructed at Hudson Point at the entrance to Townsend Harbor, Washington, it was reported yesterday in Seattle. The government is expected to ask bids soon for the contract which will include a two-story executive building, attendants' quarters, a slip for boarding launches, and miscellaneous small structures.

Buildings will be of brick construction and will be built on a pier foundation extending over the tide flats.

Eastbay Needs 5000 Single-Family Dwellings, Says Real Estate Board

A building program which will supply 5000 new single-family homes within the next three years for the accommodation of Eastbay people is justified by analysis of official data compiled by the Oakland Real Estate Board, according to a report to the members of that organization by James H. L'Hommedieu, its president.

Such a program would result in the release of more than \$10,000,000 in pay roll wages to building trades and in increasing current business activity by \$100,000,000; it would put the building trades to work again, giving employment to the largest group of wage earners now included in the local unemployment list; and it would provide adequate housing for Eastbay families, 5000 of whom now occupy homes jointly with other families, L'Hommedieu points out. He states

Program Urged

"With our local population steadily increasing by more than three per cent per year, according to United States Government data, our current building activity reduced to a negligible volume, an existing occupancy status approximating total absorption, and with the San Francisco bay bridge project promising 60,000 newcomers within a year after its completion, it is evident that a strong building program should be started immediately.

"Although the records of the realty board show that the Eastbay cities have issued permits for the erection of new single-family homes during the last twelve years at the average rate of 2700 per year and costing \$10,000,000 per year to build the building program of 1932 comprised less than 360 such structures and involved less than \$1,300,000 in construction costs. The record for 1931 was but little more than twice as great.

Occupancy Complete

"The realty board's occupancy survey of last March disclosed that of the 100,000 single-family homes of the Eastbay, 95,000 are occupied and of the latter, 5000 houses more than one family. Economists hold that a 90 per cent occupancy of such property is normal. It is expected that the survey of 1933 will show a greater percentage of occupancy and a greater volume of dual occupancy.

"Although the building program of the last several years has shown a rapid decrease in annual totals, statistics show that it has reflected the demand for new homes. In 1929 single-family homes absorbed 21.6 per cent of the total new construction cost. For 1930 the ratio was 22.4 per cent. For 1931 it was 33.6 per cent. For 1932 new single-family homes absorbed 45.4 per cent of the total.

Market for Homes

"Although there is now, and has been for some time, a dependable

market for new homes, inability to finance building operations from customary lending institutions has effectually prevented builders from carrying out their plans."

"Recently, however, there is being developed an increasing tendency on the part of private capital to lend money for this purpose. Of the \$45,000,000 loaned for Eastbay realty and building operation during 1932, nearly 40 per cent came from private parties and less than 53 per cent was supplied by banks. It is believed that the next few months will see a considerable building program begun financed by private capital."

BERKELEY ARCHITECT OPENS DISPLAY OF SMALL HOME PLANS

In a move to stimulate home building and home modernization, Architect Edwin L. Snyder of Berkeley has opened a special exhibit in quarters at 2104 Addison street, adjoining his offices.

Cooperating with Snyder are a group of hay district manufacturers and dealers. The display will be open for the month of February.

Emphasis is placed on the present low cost of building and home furnishing. In conjunction with the display the Mason-McDuffie Real Estate Company is advertising its new residential tract in the north Berkeley hills where special inducements are being offered for building small residences.

Distinctive homes designed for Berkeley sites are shown in a variety of sketches and plans by Snyder. Each drawing shows the general specifications and the estimated cost.

The exhibition of furnishings and fixtures includes living room and bedroom furniture and draperies, floor coverings, lighting fixtures, hardware, kitchen and bathroom equipment.

Firms cooperating with Snyder include L. H. Bennett Company, Standard Sanitary Mfg. Co., Rigney Tile Company, Roberts Mfg. Co., Smith Lumber Co., Allied Arts Guild, Parker-Allen Company, Mrs. Harold Keith, interior decorator, Julian Mesic, architectural modelist, and Thomas Church, landscape architect.

BAKERSFIELD PERMITS

Building permits in the city of Bakersfield totaled \$15,742.50 for the month of January, compared with \$15,296 in December, according to the report of Building Inspector R. H. Hubbard.

BRIDGE TO START BAY CONSTRUCTION ASSERTS KELLY

Cities Around Bay Will Develop Rapidly With Improved Communication

A drastic change in San Francisco's history will be made by the San Francisco-Oakland Bay Bridge, it was declared by Director Earl Lee Kelly of the State Department of Public Works, speaking before the Pacific Masonic Lodge in San Francisco.

"When Governor Rolph opens the bids on February 28th for the construction of the first unit of this bridge, San Francisco will be entering a new phase of its development," Kelly said.

"Breaking down this water barrier will work many changes, some of which traffic engineers have sought to estimate and predict. These engineers tell us that the average San Franciscan of the future will live twenty miles from his work, and we are told that San Francisco is destined to become a city of skyscrapers, giant business structures, and huge hotels and apartments, forcing out the single family dwelling.

"Oakland is expected to experience increased industrial development along the Bay shore, with residential development extending out in a radius of twenty-five miles, by reason of the improved rapid transportation, which the bridge will usher into the Bay region.

"San Francisco Harbor will be as one great dock, all of its shores filled with shipping and industry, and community rivalry unknown, as the Bay region will be just one great metropolis."

Supervisor Carl W. Miles presided.

BUREAU PUBLISHES STUDY OF PERMITS

The U. S. Bureau of Labor Statistics has compiled and published the reports of a study of elapsed time in building construction. The report covers a survey of building permits in 14 representative cities showing the time between the date of issue of a building permit and the date work is started and between the date work is started and the date of completion. A comparison for the years 1929 and 1931 is given.

Originally published in the Monthly Labor Review for January, 1933, it has been reprinted in a bulletin.

ALTERATION WORK INCREASES

More than half of Seattle's building permit value total for January is represented in alteration and remodeling work, which aggregated \$145,000. Total building permits were \$232,800. The bulk of this work other than alteration was for industrial building, including two warehouses and one wholesale structure.

Steel Institute Director Says Program Of Building Self-Liquidating Projects Handicapped by R.F.C. Interest Rates

Work must be supplied our 12,000,000 unemployed if we are to pull out of this depression, and there is no better way of supplying this work than by financing self-liquidating projects, declared Charles F. Abbott, of New York, executive director of the American Institute of Steel Construction, in a recent speech before the industrial rehabilitation committee of the Chamber of Commerce of Los Angeles.

Mr. Abbott said:

The prime essential of prosperity in this country depends upon a large and continuing program of capital investment. This is represented by the constant building and rebuilding of our cities and our industries. Construction work takes up the slack in employment caused by technological improvements in the factory and puts to work the men discharged by mass production. From 1914 to 1918 the army engaged the men who might otherwise have been unemployed. At the end of the World War we were behind in our shelter needs and that gave tremendous impetus to construction and provided work to the vast number of men turned out of uniform.

Today the United States is facing a like situation. Other than public works, we have been building nothing during the past three years. As low as automobile sales have been, we spent approximately only half as much on new homes during the past year. We are today as far behind in our shelter needs as we were at the end of the World War. With an investment of two and a half billions in projects which will pay for themselves within a reasonable time, the great bulk of our unemployed could be put back to work.

Most of these great works are not going forward today despite the fact that Congress enacted the Wagner bill authorizing the Reconstruction Finance Corporation to make loans on self-liquidating projects for the purpose of "relieving unemployment." Even the best of projects would not be undertaken if it were necessary to borrow money at seven per cent for their building. That is partly why so few self-liquidating projects have as yet been financed under the emergency act of Congress, and the fact that the restricting provisions put into the law make it much easier and cheaper for the states to borrow money from the Corporation for a "dole" instead. Direct relief money "dole," can be had at only three per cent interest.

There are indications, however, that the revivifying effects of putting these great projects into execution will be realized without the aid of the Government. As money becomes more plentiful in the banks

and the private lending institutions realize that it is essential to find use for idle funds, these self-liquidating projects will be started. It is unfortunate in the meantime that our Government did not rush into the breach sooner and thus spare the country the serious burden of the present unemployment crisis. Had these projects been financed last summer immediately after the enabling law was enacted a million of the present idle would have been working by now.

It is a pitiful sight to see thousands of men in our great cities standing around waiting for a chance blizzard to get an engagement for a few hours cleaning away the snow when they might just as well have been employed building the Tri-Borough Bridge in New York, the Golden Gate Bridge at San Francisco, or the Trans-Mississippi Bridge at New Orleans. These later will prove definite additions to our national wealth, whereas the money spent on soup kitchens is but transitory. They should have been financed last summer so that men would have been at work on them during the winter months when the need for employment was greatest.

The conservative attitude maintained by the Reconstruction Finance Corporation is not entirely to blame for this stalemate. Our states and municipalities, goaded by the popular drive for economy, have been loath to sanction these needed construction projects and ask for the financial assistance to put them through. I believe in economy, but it is not economy to stop investments in civic improvements and civic needs. Destitute men and women must be cared for even though we find it necessary to cut the salaries of civil employees. It is our duty to provide either a dole or work, and I venture to say that the vast majority of our people, both employed and unemployed, would prefer work to charity.

Worthy projects, like the Catskill Bridge over the Hudson River, the Tri-Borough Bridge in New York City, incinerator plants for Detroit, waterworks for Los Angeles, and many others, will pay for themselves over a period of years, and in the meantime they will add much needed facilities to these congested centers. It is no economy to delay these projects just because a drive is being made on all governments to eliminate wastes in public appropriations and to reduce taxation on the public. The erection of self-liquidating projects will assist greatly in lifting the present tax burden.

Some cities have appealed for funds to build incinerator plants with figures to prove that they would save the taxpayers in 4 years enough to pay for the whole invest-

ment. The Reconstruction Finance Corporation is compelled to turn the applications down because Congress added a provision that no project could be financed which depends upon taxation, and even a saving in taxation would not make the project subject to aid under the law. If that is a fact then certainly this seems an appropriate time that we look into this matter carefully and that we endeavor to persuade our legislators to take a more constructive view of the present emergency and adopt a more economical method of dealing with unemployment.

Our duty to our fellow man requires that we give either work or a dole. The American citizen prefers work to charity. As fast as we can finance these two and a half billion dollars of self-liquidating projects throughout the United States the fewer workmen there will remain who need a dole.

In the process of capital investment, the provision of the fixed structures and works required by industry, commerce and community service are a substantial factor. It is this function that we call the construction industry. Aggregating \$7, to \$9,000,000,000 per year, it exerts a profound influence upon the economic well-being of the nation. It represents the transformation of our savings into consuming power, it employs millions of men and women, uses the products of thousands of mills and factories, provides thousands of car loadings to our railroads, absorbs millions of horsepower produced by our utilities. It converts the surplus accumulated by our productive capacity into new buying and consuming power, so vitally necessary to the maintenance of our trade in consumer goods.

Heretofore, too much emphasis has been laid upon the production aspect of our industry and not enough upon its consumption aspect. We have worshipped the one and only god of production, and forgotten that without the balancing consumption we are but smothered under the produce of our own genius and industry. So we have viewed the constructive activities of our country exclusively from the standpoint of investment and production; we have not seen them as performing this peculiarly vital function of translating our surplus into buying power for the goods and services produced by our factories and utilities. It is only when this function is suspended that we are conscious of our almost devastating loss.

B. C. BUILDING TOTAL OFF BY TWO-THIRDS

Building totals in British Columbia for 1932 were approximately one-third of the figure for the previous year, according to statistics compiled by the Vancouver Journal of Commerce.

The total for 21 cities reporting is \$5,267,690, compared with \$14,516,708 in 1931.

The December total for the same cities was \$110,466.

LIEN CLAIMS MUST SPECIFY MATERIAL USED

Court Voids Action When Plaintiff Failed To Record Items

The courts as a general rule are more liberal in ruling upon the validity of mechanics' liens filed by claimants. Repeatedly the courts have held that such claimants are held versed in the niceties of the law and have not construed mechanics lien with the same rigidity as they have other pleadings. However, there is certain information which must be given by lien claimants and if such information is left out of the claim of his for any reason, the lien will be held defective, says Harry C. Westover in the current issue of the Orange County Builders' Exchange Bulletin.

"It was the intention of the original framers of the lien law, that liens could be prepared and filed by the claimants without the necessity of hiring a lawyer to prepare and file such claims. Such practice is probably all right in the event the claim is for a small amount, but where the claim represents hundreds or thousands of dollars, an expert should be called in to prepare the claim of lien, or at least to look it over after it has been prepared and pass upon it.

"In the recent case of Shafter vs. Los Serranos Company, 72 C. A. D. 10, decided Dec. 23, 1932, which involved a large sum of money, the Appellate Court held that the claim was so poorly prepared that it did not comply with the provisions of the Mechanics' Lien Law and consequently was void and of no effect.

"The lien as recorded failed to set forth the kind of materials furnished, it being merely stated in the lien that the claimant 'supplied materials.' The claim of lien also failed to state to whom the materials were furnished."

The court held that the failure of the claimant to give such information voided the entire claim. Two of the fundamental requirements of a valid claim of lien is that the lien state the kind of materials which were used, and to whom they were furnished. In other words the interested parties, or owners have a right to know what kind of materials the claim is being made for, whether it is for lumber, steel, sash and doors, flooring etc., and to whom it was furnished. A definite connection must be established between the party to whom the materials were furnished and the owner of the premises. If there is no definite connection established then of course no lien can be impressed upon the property.

The Court said: "Those requisites (statement as to kind of materials used, to whom furnished) are essential for securing and enforcing such a lien as is here involved."

SEATTLE TO REQUIRE HOME-MADE MATERIALS

Contractors on the Diablo unit of the Skagit river power development for the city of Seattle lighting department may be required to take \$1,900,000 worth of municipal bonds in payment, it is reported.

Superintendent J. D. Ross of the city light department indicated that he would recommend this provision be included in the contract and also that use of cement and steel manufactured in Washington be specified. Other materials also must be purchased in the state if obtainable, it is proposed.

It is expected that this will be called shortly.

MATTOON ACT REPEAL URGED BY LAW AUTHOR

Los Angeles Assemblymen Are Asked to Sponsor Assessment Revisions

Everett W. Mattoon, father of the famous "Mattoon Act" affecting property assessment districts, has decided there were too many abuses attributed to the special assessment laws, and has decided to work for their repeal, he announced recently.

Mattoon, county counsel of Los Angeles, has written and personally contacted the county's 30 assemblymen asking them to work for repeal of the Mattoon act and eight other acts pertaining to assessment districts.

The laws which he urges be repealed during the legislative session opening Tuesday are:

Road district improvement act of 1907; municipal improvement district act of 1915; improvement bond act of 1915; acquisition and improvement act of 1925 (the Mattoon act); municipal improvement act of 1927; Vrooman street act of 1885; street opening act of 1889; local improvement act of 1901, and boundary line act of 1911.

"The first five statutes are based upon the same theory of assessment—according to assessed valuation of the land or upon the ad valorem basis," Mattoon said. "The last four statutes are all upon the district assessment plan, which means specific assessments are levied against each particular lot.

"Repeal of the nine acts will still leave upon the statute books the opening and widening act of 1903, and the improvement act of 1911, which are ample for any requirements.

"With the debt limitation act of 1931 in force, which limits the amount of special assessments which can be imposed upon property owners, future abuses through efforts of selfish promoters cannot be made."

APPELLATE COURT ASKED TO DECIDE \$250,000 ACTION

Breach of Contract Suits Grow Out Of Plumus Power Development

Claims involving payment of more than a quarter of a million dollars on the construction contract for a Plumus county hydroelectric development have been submitted to the First District Court of Appeals for adjudication.

The action was carried to the district court after a superior court judgment of \$257,965 had been obtained by H. H. Boomer, Spokane contractor, against Muir & Storrie, San Francisco contractors, and the contractors' bond company.

Muir and Storrie sued Boomer for alleged breach of contract after it is claimed he failed to complete construction of a dam on Bucks Creek which he had undertaken on a sub-contract. Boomer sued the general contractors also for breach of contract, alleging that he was prevented from completing the work and delayed by failure of the general contractors to supply materials.

Both parties appealed from the superior court judgment in favor of Boomer, the plaintiff declaring that the sum awarded was insufficient.

Evidence before the court shows that the Bucks Creek development which was undertaken for the Feather River Power Company cost \$7,697,889 and that Boomer received \$794,459 for the work he performed between 1925 and 1927.

COLOMBIA LAUNCHES 3-YEAR RD. PROGRAM

The Colombian Government is undertaking a 3-year program of national highway construction with the main object of providing a trunk highway from Cucuta, near the Venezuelan border, to Pasto, near the Ecuadorian border, with necessary tributary roads. Funds were obtained in December, 1931, from a loan contract between the Government and the Banco de la Republica. The total appropriated from this loan for 1932, 1933, and 1934 is 4,650,000 pesos, of which (according to official reports) 1,620,000 pesos was expended in 1932. In 1933 there will be spent 1,810,000 pesos, 1,506,000 coming from the loan. For 1934 an expenditure of 1,524,000 pesos is planned. (The Colombian peso during December, 1932, was quoted at \$0.9524 United States currency).

The Government will build these roads under the supervision of its Ministry of Public Works, not letting any contracts to native or foreign firms. It has approximately 5,000,000 pesos worth of road-building machinery purchased during 1928 and 1929 and probably will not be in the market for new machinery for several years, except for spare parts and possibly a few heavy dump trucks. Hand labor is being utilized wherever possible in order to relieve unemployment.

Seek Wider Market For Lumber By Laboratory Studies To Perfect Connectors; Engineer Describes Progress In Design

G. W. Trayer, senior engineer at the U. S. Forest Products Laboratory, Madison, Wisconsin, made a comprehensive report to the West Coast Lumbermen's Association at the annual meeting in Tacoma, January 27, 1932, on research work relating to design, treatment and use of wood, which has now reached important stages at that institution.

"Twenty to thirty years ago it looked like we were facing a timber famine," said Mr. Trayer in his exposition, given at the afternoon session. "We devoted our attention almost entirely to the prevention of waste in the use of wood. But the per capita consumption of lumber has not kept pace with the increase in living standards, with the result that today we are not fearful of a timber shortage and in fact we are searching not only for improved uses of lumber but for new uses. The ultimate purpose is to create a use for land now idle because it is suitable only for the growing of timber.

"Naturally, our efforts are directed largely in that field where lumber finds its greatest market, namely construction. In normal times two-thirds of all the lumber produced gets into construction one way or another," he said.

Joints and Fastenings

Mr. Trayer pointed out that the weakest point in wood construction is in the joints and fastenings. With regard to the usual bolted joint, for example, great discrepancies among authorities were found as to the safe loads for bolts of various sizes. This naturally militated against the use of wood. Several hundred tests of bolted joints were made and as a result dependable figures are now available to engineers and architects.

The next step in this direction was to secure from Europe various styles of metal and wood connectors used extensively there to bolster up the strength of the ordinary bolted joint. These connectors, embedded partly in each of two wood members, act like dowels in transferring load directly from one member to the other. Mr. Trayer exhibited specimens of joints made with the connectors. Some had teeth which were pressed into the members, others fitted into pre-cut grooves. The use of these modern connectors will increase the efficiency of wood connections, especially in heavy construction, they offer possibilities of factory assembly of wood structure, and greatly facilitate erection. The results of this study have been put into a government bulletin which is expected to be off the press within the next month.

Laminated Construction

Laminated columns which con-

sist of several pieces of lumber spiked or bolted together have been tested. Various arrangements of the pieces were tried in a search for an assembly that would most nearly approach the solid timber in strength. No arrangement of pieces or method of nailing or bolting was found that would give the same strength as a solid piece of the same overall dimension but 70 to 90 per cent of the strength of the solid pieces was developed with either of two types of laminated columns. In one several pieces are nailed face to face with their edges tied together by cover plates. In the other four pieces are boxed around a central core.

Laminated beams with horizontal glued joints are now being tested. The object of this study is to produce a large beam from relatively small material, utilizing good quality material in the upper and lower portions where the bending stresses are the greatest and material of poorer quality in the central portions where these stresses are low. This work is in progress and it will be several months before the results are forthcoming.

Laminated wood arches are being tested at the Forest Products Laboratory. The laminations are bent around a form without any steaming or other preparatory treatment, glued and clamped. When the glue has set, the arch will retain its curvature on removal of the clamps. The principles of design of such arches are being studied with a view to their future adoption in this country for large spans. Already they are being used more and more in Europe but very little is known as to the effect of such details as the initial stress due to bending, the quality of material, and the type of splices or joints in the individual pieces. All of these factors are being studied at the moment by the laboratory.

General Details of Design

Mr. Trayer discussed certain general details of design on which there was very little information until the laboratory recently completed studies along those lines. The problem of shear in checked beams has long been a troublesome one to engineers and to the lumber industry. This problem has now been met and it has been proven that drastic reductions made by engineers in the shear allowance for such beams were unwarranted. The correct methods for calculating the shear strength of such beams are about to be published by the laboratory. The effect of notches on the strength of beams and allowable bearing stresses at any angle to the grain of wood were other problems in design that have been definitely solved.

Other Studies

After making a comprehensive report on the above design problems which relate primarily to the strength of wood structures, Mr. Trayer mentioned briefly other research projects that have a direct bearing on wood in the construction field. These latter projects include painting, fire proofing, the development of new preservatives, new methods of seasoning which are only in the experimental stage, freezing, and other treatments to lessen shrinkage difficulties, the development of plastic materials from saw dust, and the fabricated house problem.

In conclusion he stated that the Forest Products Laboratory was now preparing a handbook for engineers that would be somewhat comparable to the handbooks put out by the other industries competing for the construction field.

JUDGMENT AGAINST RENO UNION UPHOLD

Rehearing of the damage suit against the Reno Carpenters' Union which won a \$4000 judgment for Daniel Johnson, Reno carpenter, has been denied by the Nevada State Supreme Court.

Johnson sued the union following his expulsion alleging that he had been deprived from making a livelihood and that he was expelled without cause. Judgment of a superior court in his favor was upheld by the supreme court.

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Architects' Institute Will Campaign For Restriction of Treasury Bureau

The American Institute of Architects, with the support of the entire building industry and other organizations, will press for legislation in 1933 to restrict the functions of the office of the Supervising Architect of the Treasury to an administrative, fact-finding and supervisory body, according to the annual report of Louis LaBeaume of St. Louis, chairman of the Institute's Committee on Public Works, just made public.

"In the cause of better architecture and greater economy to the taxpayer," Mr. LaBeaume declared, the sixty-seven chapters of the Institute as well as the state architectural societies throughout the country will participate actively in the movement seeking to reform the system employed by the Federal government in the erection of public buildings. This system, he said, is opposed on three grounds—efficiency, economy to the taxpayer, and the ethics of the general policy of government competition with private business.

Design of all Federal buildings by huge government bureaus was condemned by Mr. LaBeaume as a costly process which "must inevitably lead to stereotyped, if not mediocre, results."

"Our Federal buildings," he continued, "should reflect the culture, the imagination and spiritual ideals of our people. In a country vast in extent, so varied in climatic and physical characteristics, these buildings can be best designed by competent architects residing in the general localities where they are to be built, and familiar with local needs and traditions, local materials and local methods of procedure. No army of civil service employees, gathered together in any governmental bureau, can be truly responsive to the varying factors entering into the design of widely separated buildings.

"The architects of America, from Massachusetts to California, have demonstrated their ability to the world. This ability should be increasingly drawn upon in the design of our Federal buildings, whether they be post offices, custom houses, hospitals, court houses or army posts. It is only by the utilization of the best ability in the country that the nation can attain the character in its public buildings to which it is entitled."

Mr. LaBeaume pointed out that the economic crisis has concentrated the attention of the American people on the high cost of government, Federal, state and municipal, and has opened their eyes to "abuses of governmental function, to which they were oblivious or complacent during the years of greater ease." He maintained that the nation is becoming more conscious of the extravagance of bureaucracy and of the trend of the

government, during the past few years, to infringe on private initiative.

Mr. LaBeaume, a witness last summer before the Shannon Committee of the House of Representatives, asserted that this committee has gathered a great mass of testimony indicating that the Federal government is competing with private business and professional initiative in many fields.

"The government bureaus, which are in effect competing with private architects throughout the country, seek to justify such competition on the grounds of economy," he explained. "They maintain that the cost of their service in the production of plans, specifications and supervision of somewhat less than the cost involved in the employment of architects outside of the bureaus.

"The differential, according to their own figures, is not great, but it may be questioned if all of the legitimate charges against this service have been taken into account in estimating the bureau's costs. It is difficult for the taxpayer to believe that the government can operate as economically as private enterprise. There is not primarily the same incentive, and secondly, there is not the same flexibility.

"Government overhead is not so susceptible to change in the volume of the load. Many governmental employees are carried on the payrolls through slack periods. The aspect of economy, however, has a far deeper significance than would be implied by the mere consideration of the cost of architectural services.

"It is in the adoption of modern methods of specification, modern use of materials and modern processes of construction that savings in the cost of the completed building would accrue. Bureaus become rigid and fixed in their methods, and are apt to be oblivious of change. They cannot easily, nor are they obliged to, take into consideration the current building economies with which the private practitioner is forced to reckon.

"Therefore the excess cost of Federal building construction, due to bureaucratic methods of design and specification must far outweigh any fancied economies attributed to such methods. The real saving in the governmental building budget is not to be made through the paring of fees, but through the use of alert, up-to-date and competent methods of design and building."

The propriety of governmental competition with private business or professional initiative cannot be justified under our present ideal of government, Mr. LaBeaume held.

"If the government of the future is to take over every function of the individual, every activity of

the professional or business man, so that we will all be but cogs in the wheels of one gigantic bureaucracy, that is another matter," he said. "Meantime, however, we as architects, protest against the discrimination.

"If it is proper for the government to design its own Federal buildings, it is not less proper and logical for the government to set up a huge construction bureau to build them; and by the same process of reasoning, to take over quarries, mills and manufacturing plants for the fabrication of building materials."

Other members of the Committee on Public Works are: Charles Butler, New York; Charles D. Maginnis, Boston; Frederick L. Ackerman, New York; G. Frederic Ashley, San Francisco; James O. Betelle, Newark; N. Max Dunning, Chicago; R. K. Fuller, Denver; Frederick G. German, Duluth; Myron Hunt, Los Angeles; Ellis F. Lawrence, Portland, Ore.; Allison Owen, New Orleans; H. I. Schenck, Dayton; Nat G. Walker, Fort Myers.

OAKLAND LICENSE FEES ARE REDUCED

City of Oakland has amended its business license ordinance to fix the fees paid by professional men on a graduated scale ranging from \$12 to \$214 a year, the minimum applicable to gross receipts not exceeding \$5000. The license fee minimum formerly was \$24 on gross receipts not exceeding \$10,000.

Including in the professions to which the license is applicable are Appraisers, Architects, Civil Engineers, Consulting Engineers, Designers and Decorators, Draftsmen, Electrical Engineers, Electrologists Insurance Adjusters and Claims Adjusters, Insurance Brokers, Landscape Gardeners, Landscape Architects, Mechanical Engineers.

NEW FOLDER

C. F. Pease Company, Chicago, has published a new folder for distribution to the trade announcing improvements in the line of Thermex globes for arc lamps.

L. A. ENGINEER NEW PRESIDENT OF BOARD

Ralph J. Reed of Los Angeles, has been elected president of the State Board of Registration for Civil Engineers, succeeding H. J. Brunner of San Francisco. Henry D. Dewell is the new vice-president and Asa G. Proctor of Woodland, succeeds Brunner as a member of the board.

NAME CHANGE VETOED

Nevada legislators defeated a proposed request to Congress that the name of Hoover dam be changed officially to Boulder dam. The vote was 20 to 19.

Reduction In Lumber Freight Rates To South And Mid-West Is Ordered

Notification has been received by the West Coast Lumbermen's Association, Seattle, of freight rate changes, both reductions and increases on West Coast lumber, which will be effective April 1 from the Pacific Northwest and the Pacific Southwest to the South and Middle West. Reductions predominate in the changes announced by Trans-Continental Freight Bureau in lumber rates from the Pacific Northwest.

The rate reductions from Pacific Northwest points on lumber as announced are, rates being per 100 lbs. of lumber):

Southeastern Kansas, new rate 62½c; reduction, 7½c; Oklahoma, northern area, new rate 62½c; reduction 7½ and 15c; Oklahoma, southeastern area, new rate, 72c; reduction, 5½c; Southeastern Missouri and Arkansas, and Memphis, Tenn., new rate 72c; reduction, 5½c; Louisiana, new rate, 72c; reduction 13c.

To the State of Texas the announcement includes both increases and decreases in the rates, made to equalize difference in the rate structure. Southeast of Amarillo, Texas, where the present rates are 62½, 70 and 77½ cents, the new rates will be 70 and 72 cents, involving reductions of 5½ cents to two-thirds of the entire state; but also an increase of 7½ cents to Fort Worth and Denver City Railway and Wichita Valley Railway points beyond Amarillo to Wichita Falls, and 9½ cents to points east of Wichita Falls to Dallas inclusive.

New rates on shingles will be 12 cents per hundred pounds more than the announced rates for lumber, as detailed, both reductions and increases as given for lumber to govern for shingles. Similarly, the rates on doors will be reduced and increased.

The changes in rates as announced, according to the West Coast Lumbermen's Association, have been pending since the early part of 1930, or just after the first conference of the West Coast lumber committee, organized by J. D. Tennant of Longview, Washington, then president of the Association, with western railway executives in Chicago during February of that year. The Association considers the reductions just granted as the first answer to the pleas of western lumbermen for freight rates more in harmony with the ability of the lumber industry to pay and market its products.

On receipt of the information, the West Coast Association wired H. G. Toll, chairman of the Trans-Continental Freight Bureau at Chicago, asking that an application be made by the Bureau to the Interstate Commerce Commission seeking authority to establish these rates on one day's notice, instead of April 1, as announced. The Association pointed out that no ele-

ment of surprise exists as the rate change has been under consideration for three years; and urged that the present bad situation of the West Coast lumber industry might be measurably improved by an immediate freight rate reduction, whereas the thirty day notice might cause some buyers to withhold purchases.

ALBANY PERMITS \$3895

Permits for new building in Albany for the month of January were valued at \$3895, according to the report of Building Inspector H. I. Dygert. Six permits were issued. The value of permits in January a year ago was \$11,295.

BRICK CONTRACTORS ADOPT \$9 WAGE IN CITIES OF EASTBAY

Leading bricklaying contractors of Oakland and other Eastbay cities have agreed to pay bricklayers \$9 a day, in accordance with the recommendations of the Impartial Wage Boards of San Francisco and the Eastbay, was reported.

A wage of \$11 a day has been demanded by the Bricklayers' Union, a wage which the contractors declare entirely out of line with present conditions and disproportionate to wages prevailing in other building crafts.

With the low price of brick, it is anticipated that by fixing a wage in keeping with other costs, brick construction will be materially stimulated and increase employment for bricklayers.

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UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

GRANITE PASS&GROMMET-EARP RDS-MET. WAT DIST

LOS ANGELES, Cal.—As previously reported, the low bids on each of the four schedules for constructing 84 miles of roads for the Colorado river aqueduct opened by the Metropolitan Water District Feb. 1, are as follows:

A. Teichert & Son, Inc., 1068 45th St., P. O. Box 1118, Sacramento, at \$88,603.50, Schedule No. 1, for constructing the Granite Pass Road, station 0 to station 1105.

Clyde W. Wood, Box 1435, Stockton, at \$106,860, Schedule No. 2, for constructing the Granite Pass Road, station 1105 to station 2280.

George French, Jr., P. O. Box 675, Stockton, at \$67,948.30, Schedule No. 3, for constructing the Granite Pass Road, station 7280 to station 3060, and the Grommet-Earp Road from station 3060 to station 3345.

Clyde W. Wood, Box 1435, Stockton, at \$137,327.70, Schedule No. 4, for constructing the Grommet-Earp Road, station 3345 to station 4381 plus 97.

The total of these low bids is \$400,739.50.

Guy F. Atkinson Co., 925 Story Bldg. Los Angeles, submitted the low bid on Schedule No. 2 at \$101,777.50 and on Schedule No. 3 at \$65,830.20, but qualified the bid by stipulation that it would not accept an award on all four schedules. The total of the Atkinson Co. bid was \$405,701.70.

The proposed roads are located in Riverside and San Bernardino counties, and are known respectively, as the Granite Pass Road reaching 59 miles from a point on the state highway near Desert Centre to Grommet, a siding on the Santa Fe Railway about nine miles east of Rice, and the Grommet-Earp Road extending thence 25 miles to a point near the Colorado river opposite the town of Parker, Arizona. The work to be contracted for consists of all necessary excavation and grading, the placing of surfacing materials, culvert pipes, riprap, and protection work, and the construction of timber culverts and bridges. All materials are to be furnished by the contractor. The work has been divided into four schedules, each requiring the construction of approximately 20 to 22 miles of road and appurtenant works as noted below. The schedules and items follow:

SCHEDULE NO. 1

Schedule of prices for the construction of the Granite Pass Road from Station 0 to Station 1105.

Bids will be considered upon the following schedule, but no bids will be considered for less than all the items of the schedule.

- (1) 76,000 cu. yds. roadway borrow & channel change excavation;
- (2) 78,000 sta. yds. excav., overhaul;
- (3) 130 cu. yds. struc. excavation;
- (4) 350 cu. yds. concrete;
- (5) 9700 lbs. reinf. steel—furnishing, hauling and placing;
- (6) does not apply to this schedule;
- (7) do;
- (8) do;
- (9) 200 cu. yds. hand-placed riprap;
- (10) 800 cu. yds. dumped riprap;
- (11) 270 M. gals. watering embank.;
- (12) 1000 M. gals. watering subgrade;
- (13) 16,200 cu. yds. furnishing selected material for subgrade and treatment;
- (14) 4000 cu. yds. furnsh crushed rock
- (15) 82,000 cu. yds. miles haul selected material and crushed rock;
- (16) 474,200 gals. road oil—furnishing, hauling and sreading;
- (17) 253,000 sq. yds. prepare surface, mix, spread and finish oil-treated surface;
- (18) 63,200 gals. seal coat oil—furnish and haul;
- (19) 253,000 sq. yds. seal coat—apply;
- (20) 750 cu. yds. stockpiles of oil-treated material;
- (21-1) furnish all materials and construct 2 standard timber bridge culverts, each 12-ft. span;

The bids follow:

- (A) A. Teichert & Son, Inc., 1068 45th St., P. O. Box 1118, Sacramento, \$88,603.50.
- (B) Guy F. Atkinson Co., Los Angeles, \$88,485.50 (bid qualified, see introductory note).
- (C) Basich Bros. Co., Torance, \$88,658.
- (D) Winston Brothers Co., Los Angeles, \$90,884.30.
- (E) Morrison-Knudsen Co., Los Angeles, \$91,493.50.
- (F) Heafey-Moore Co. and J. A. Casson, Oakland, \$94,788.
- (G) Peter L. Ferry, Glendale, \$112,251.
- (H) S. J. Grove & Sons Co., Los Angeles, \$119,526.94.

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
(1).....	\$.18	\$.25	\$.17	\$.17	\$.25	\$.20	\$.32	\$.40
(2).....	.005	.02	.001	.0175	.01	.02	.02	.03
(3).....	1.00	1.25	1.50	.92	1.10	1.00	1.00	1.00
(4).....	15.00	13.00	15.00	16.15	14.00	12.00	15.00	18.00
(5).....	.06	.05	.05	.033	.06	.06	.05	.10
(6).....	.....	.....	.....	.....	.....	.....	.....	.....
(7).....	.....	.....	.....	.....	.....	.....	.....	.....
(8).....	.....	.....	.....	.....	.....	.....	.....	.....
(9).....	2.50	3.50	2.00	3.06	3.30	2.50	4.00	4.00
(10).....	1.50	2.00	2.00	1.87	2.00	1.00	2.50	2.50
(11).....	3.50	2.00	3.00	4.35	3.30	4.00	4.00	4.50
(12).....	3.00	2.00	3.00	3.45	2.75	3.00	4.00	4.00
(13).....	.65	.46	.48	.60	.50	.65	.80	.75
(14).....	1.00	.65	.68	1.00	.90	1.00	1.00	1.25
(15).....	.10	.08	.09	.09	.10	.08	.11	.08
(16).....	.045	.045	.06	.048	.045	.05	.05	.0457
(17).....	.035	.039	.0375	.035	.04	.05	.05	.05
(18).....	.075	.07	.075	.09	.08	.08	.10	.08
(19).....	.0125	.007	.005	.015	.0075	.01	.01	.02
(20).....	1.60	2.50	2.00	1.02	1.30	2.00	3.00	3.50
(21-1).....	450.00	1000.00	300.00	405.00	450.00	600.00	600.00	300.00

SCHEDULE 2

Schedule of prices for the construction of the Granite Pass Road from Station 1105 to Station 2280.

Bids will be considered upon the

following schedule, but no bids will be considered for less than all the items of the schedule.

- (1) 69,000 cu. yds. rdwy., borrow and channel change excavation;

ARIZONA STATE—Ralph Pleasant Constr. Co., Phoenix, Arizona, awarded contract by State Highway Commission, Phoenix, Dec. 28, at \$97,608.46 for highway construction on the Benson-Vail Highway, E-18-D (A. F. E. No. 8052), E-18-E (A.F.E. No. 8019). The work, which begins at the Pima-Cochise County line and extends easterly approximately 9.33 miles to the west city limits of Benson, consists of grading, draining and placing of subgrade stabilizer in part and oil processing the entire length by the plant mix method, and is to be completed on or before June 15, 1933. The items are:

F. A. NO. E-18-D—ROADWAY

- (1) 21,854 cu. yds. roadway excav. (unclass.);
- (2) 1024 cu. yds. drainage excav. (unclass.);
- (3) 9150 lin. ft. Vee (V) ditches;
- (4) 729 cu. yds. structural excav. (unclass.);
- (5) 6116 cu. yds. borrow excav. (unclass.);
- (6) 23,005 sta. yds. earthwork overhaul;
- (7) 10,206 cu. yds. subgrade stabilizer;
- (8) 13,504 cu. yds. mi. subgrade stabilizer haul;
- (9) 371 cu. yds. class A concrete (including cement);
- (10) 21 cu. yds. class B concrete (including cement);
- (11) 23,472 lbs. reinf. steel;
- (12) 72 lin. ft. 24-in. C.M.P.;
- (13) 122 lin. ft. 30-in. C.M.P.;
- (14) 136 lin. ft. 36-in. C.M.P.;
- (15) 59 cu. yds. plain riprap;
- (16) 7260 lin. ft. cable road guard;
- (17) 100 lin. ft. rail bank protection, type A;
- (18) 200 lin. ft. rail bank protection, type B;
- (19) 1 special cattle guard;
- (20) 9150 lin. ft. standard line fence;
- (21) 59 cu. yds. removal of old concr.;
- (22) 200 hours rolling fills;
- (23) 123 M. gallons water applied to roadway;
- (24) 271 tons cutback asphalt cement for plant mix;
- (25) 6777 tons plant mixed oil treated surf.;
- (26) 66,881 ton mi. plant mixed oil treated surfacing haul;
- (27) 3.753 ml. spreading compacting and finishing;
- (28) 290 cu. yds. screenings for seal coat;
- (9) 23 tons cutback asphalt cement for seal coat;
- (30) 1614 cu. yds. shoulder material;
- (31) 1728 cu. yds. shoulder material haul;
- (32) 4 oil surfaced approaches;
- STRUCTURES OVER 20-FT. CLEAR SPAN
- (33) 1660 cu. yds. roadway excav. (unclass.);
- (34) 4200 cu. yds. drainage excav. (unclass.);
- (35) 300 lin. ft. Vee (V) ditches;
- (36) 350 cu. yds. structural excav. (unclass.);
- (37) 888 sta. yds. earthwork overhaul
- (38) 278 cu. yds. subgrade stabilizer;
- (39) 157 cu. yds. mi. subgrade stabilizer haul;
- (40) 273 cu. yds. class A concrete (including cement);
- (41) 25,835 lbs. reinf. steel;
- (42) 20 hours rolling fills;
- (43) 7 M. gals. water applied to rdwy;
- (44) 15 tons cutback asphalt cement for plant mix;
- (45) 370 tons plant mixed oil treated surf.;
- (46) 3298 ton mile plant mixed oil treated surf. haul;

SCHEDULE NO. 4

Schedule of prices for the construction of the Grommet-Earp Road from Station 2245 to Station 4381+97.

Bids will be considered upon the following schedule, but no bids will be considered for less than all the items of the schedule.

- (1) 255,000 cu. yds. rdwy., borrow & channel change excavation;
- (2) 260,000 sta. yds. excav. overhaul;
- (3) 2700 cu. yds. struc. excav.;
- (4) 140 cu. yds. concrete;
- (5) 2700 lbs. reinf. steel—furnishing, hauling and placing;
- (6) 1505 lin. ft. 24-in. dia. corr. pipe culvert—furnish and place;
- (7) 1135 lin. ft. 30-in. do;
- (8) 2060 lin. ft. 36-in. do;
- (9) 200 cu. yds. hand-placed riprap;
- (10) 500 cu. yds. dumped riprap;
- (11) 260 M. gals. watering embank;
- (12) 920 M. gals. watering subgrade;

- (13) 32,500 cu. yds. furnishing selected material for subgrade and treatment;
 - (14) does not apply to this schedule;
 - (15) 125,000 cu. yds. miles hauling selected material and crushed rock;
 - (16) 435,800 gals. road oil, furnishing, hauling and spreading;
 - (17) 232,500 sq. yds. prepare surface, mix, spread and finish oil-treated surface;
 - (18) 58,000 gals. seal coat oil, furnish and haul;
 - (19) 232,500 sq. yds. seal coat—apply;
 - (20) 700 cu. yds. stock piles of oil-treated material;
 - (21-4) furnish all materials and construct 1 standard timber bridge of ten 19-ft. spans.
- (A) Clyde W. Wood, Stockton, \$137,227.70.
- (B) Weymouth Crowell Co., Los Angeles, \$145,618.00.

- (C) Gny F. Atkinson Co., Los Angeles, \$149,608.50 (bid qualified four schedules or none).
- (D) Morrison-Knudsen, Los Angeles, \$149,892.50 (bid qualified, will accept No. 4 only or all four schedules, but no other combination).
- (E) Artukovich Bros., Hynes, \$155,002.75.
- (F) Winston Bros. Co., Los Angeles, \$162,187.60 (reserve the right to accept or reject any schedule other than Schedule No. 4 or all).
- (G) Basch Bros., Torrance, \$167,501.75.
- (H) Hall-Johnson Co., Alhambra \$177,892 (alternative proposal submitted by letter was not considered).
- (I) Lang Trans. Co., Los Angeles, \$178,986.25.
- (J) Oswald Bros., Los Angeles, \$187,638.80.
- (K) S. J. Groves & Son, Los Angeles, \$205,470.95.

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)
(1).....	\$.18	\$.16	\$.22	\$.22	\$.19	\$.24	\$.25	\$.25	\$.275	\$.30	\$.35
(2).....	.005	.01	.02	.01	.02	.015	.01	.025	.02	.03	.03
(3).....	.50	.75	1.00	1.10	1.00	.75	.60	1.00	1.25	1.00	1.00
(4).....	20.00	20.00	13.00	11.00	10.00	16.15	15.00	18.00	15.00	20.00	18.00
(5).....	.08	.06	.05	.06	.05	.033	.05	.06	.04	.04	.10
(6).....	2.00	1.75	2.00	1.70	2.25	1.85	3.00	2.25	1.80	1.80	1.80
(7).....	2.40	2.20	2.50	2.15	3.40	2.35	3.50	3.00	2.15	2.20	2.25
(8).....	3.00	3.40	3.00	3.20	4.50	3.65	4.50	4.00	3.40	3.40	3.50
(9).....	2.00	3.50	3.50	2.50	2.50	3.10	2.00	5.00	2.50	3.00	4.00
(10).....	1.50	3.00	2.00	1.50	1.00	1.87	2.00	3.00	1.50	1.60	2.50
(11).....	4.00	4.50	2.0	3.50	4.50	5.25	4.00	4.00	6.25	4.25	4.50
(12).....	4.00	4.50	2.00	3.00	4.00	5.90	4.00	3.75	6.25	4.00	4.00
(13).....	.50	.65	.46	.50	.50	.55	.48	.70	.60	.56	.75
(14).....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
(15).....	.09	.09	.08	.10	.10	.09	.10	.10	.13	.09	.08
(16).....	.044	.05	.05	.045	.05	.05	.06	.05	.05	.051	.043
(17).....	.035	.045	.039	.04	.05	.035	.0375	.045	.027	.06	.05
(18).....	.08	.0925	.07	.08	.05	.09	.08	.085	.065	.095	.088
(19).....	.01	.0075	.0007	.0075	.015	.015	.005	.0125	.015	.01	.02
(20).....	1.00	2.50	2.50	1.30	2.00	1.02	2.00	1.00	1.25	1.25	3.50
(21-4).....	5500.00	4100.00	6500.00	5055.00	4800.00	3920.00	3250.00	4200.00	5350.00	5000.00	4800.00

- (23) 2.50 2.50 2.50 2.35 3.00
- (24) 23.00 22.00 21.00 24.50 22.30
- (25) .98 .95 1.25 1.58 1.20
- (26) .07 .07 .06 .07 .08
- (27) 230.00 250.00 275.00 234.00 300.00
- (28) 2.60 1.75 3.50 1.99 3.50
- (29) 25.00 22.00 23.00 27.00 25.00
- (30) .34 .37 .20 .40 .55
- (31) .10 .10 .10 .09 .12
- (32) 10.00 10.00 30.00 22.00 15.00
- (33) .27 .35 .31 .29 .45
- (34) .27 .21 .18 .27 .45
- (35) .05 .05 .02 .03 .02
- (36) 1.00 1.00 1.55 .90 .90
- (37) .02 .02 .02 .025 .02
- (38) .34 .37 .30 .28 .47
- (39) .10 .10 .10 .09 .12
- (40) 19.50 21.00 20.00 20.00 18.50
- (41) .0425 .045 .04 .048 .039
- (42) 2.50 2.50 2.50 3.00 4.00
- (43) 2.50 2.50 2.50 2.35 3.00
- (44) 23.00 22.00 21.00 24.50 22.30
- (45) .98 .95 1.25 1.58 1.30
- (46) .07 .07 .06 .07 .08
- (47) 230.00 250.00 275.00 234.00 300.00
- (48) 2.60 1.75 3.50 1.99 3.50
- (49) 25.00 22.00 23.00 27.00 25.00
- (50) .34 .37 .30 .40 .55
- (51) .10 .10 .10 .09 .12
- (52) 2.00 2.00 1.00 2.20 3.00
- (53) 3.00 3.00 2.25 3.50 2.50
- (54) .34 .37 .30 .38 .45
- (56) .001 .005 .008 .006 .02
- (57) 2.50 2.50 2.50 2.35 3.00
- (58) .98 .95 1.25 1.58 1.30
- (59) .07 .07 .06 .07 .08
- (60) 23.00 22.00 21.00 24.50 22.30
- (61) 25.00 22.00 23.00 27.00 25.00
- (62) 230.00 250.00 275.00 234.00 300.00
- (63) 2.60 1.75 3.50 1.99 3.50
- (64) .34 .37 .30 .40 .55
- (65) .10 .10 .10 .09 .12
- (66) 1.00 1.00 1.55 .90 .90
- (67) .34 .37 .30 .38 .47
- (68) .10 .10 .10 .09 .12
- (69) 19.50 21.00 20.00 20.00 18.50
- (70) .0425 .045 .04 .048 .039
- (71) 5.00 3.50 8.00 6.50 9.00
- (72) .001 .005 .008 .006 .02
- (73) 2.50 2.50 2.50 2.35 3.00
- (74) .98 .95 1.25 1.58 1.30
- (75) .07 .07 .06 .07 .08

- (76) 23.00 22.00 21.00 24.50 22.30
- (77) 25.00 22.00 23.00 27.00 25.00
- (78) 230.00 250.00 275.00 234.00 300.00
- (79) 2.60 1.75 3.50 1.99 3.50
- (80) .34 .37 .30 .40 .55
- (81) .10 .10 .10 .09 .15
- (82) 2.00 1.00 1.00 2.20 3.00

PERSHING COUNTY, Nev.—Dodge Bros., Inc., Fallon, Nev., at \$69,293.28 awarded contract by State Highway Commission Jan. 19 (bids opened Jan. 11) to construct a cement concrete pavement through the city of Lovelock, 1.22 miles. Complete bids follow:

- (A) Dodge Bros., Fallon, \$69,293.28.
 - (B) M. J. Bevanda, Stockton, \$70,343.64.
 - (C) Engineer's estimate, \$54,547.26.
- Quantities follow:
- (1) 11,529 cu. yds. roadway excav.;
 - (2) 1,580 cu. yds. structure excav.;
 - (3) 16,081 cu. yds. select borrow;
 - (4) 1,746 sta. yds. overhaul;
 - (5) .77 mile subgrade, 10-ft. width;
 - (6) .12 mile subgrade, 20-ft. width;
 - (7) 12,930 sq. yds. subgrade for pave.
 - (8) 2 acres clearing;
 - (9) 2684 cu. yds. reinf. cement con
 - (10) 1600 cu. yds. crushed gravel or crushed rock in place;
 - (11) 122 cu. yds. Class A concrete;
 - (12) 2 cu. yds. Class B concrete;
 - (13) 30 lin. ft. 15-in. corr. metal pipe
 - (14) 70 lin. ft. 36-in. do;
 - (15) 86 lin. ft. 48-in. do;
 - (16) 208 lin. ft. 24-in. part circle c.m.p.
 - (17) 702 lin. ft. 4-in. sewer;
 - (18) 450 lin. ft. 6-in. do;
 - (19) 424 lin. ft. 8-in. do;
 - (20) 1726 lin. ft. 10-in. do;
 - (21) 772 lin. ft. 12-in. do;
 - (22) 10 monuments;
 - (23) 11,971 gals. asph. fuel oil applied to surface;
 - (24) 0.77-mi. mix (10-ft. width);
 - (25) 0.12-mi. mix (20-ft. width);
 - (26) 1.22-mi. finish roadway;
 - (27) 2 removing wooden culverts;
 - (28) 42 lin. ft. remove pipe culverts;
 - (29) 108,820 lbs. reinf. steel;

- (30) 7,100 lbs. castings;
- (31) 1,574 lin. ft. remove and reconstruct fence;
- (32) 516 lin. ft. construct fence.

Unit bids follow:

	(A)	(B)	(C)
(1).....	\$.35	\$.40	\$.40
(2).....	.60	1.00	1.00
(3).....	.65	.60	.55
(4).....	.02	.03	.04
(5).....	100.00	100.00	50.00
(6).....	200.00	200.00	100.00
(7).....	.07	.15	.08
(8).....	50.00	100.00	50.00
(9).....	13.50	13.00	8.40
(10).....	1.00	.70	.70
(11).....	20.00	25.00	25.00
(12).....	20.00	25.00	24.00
(13).....	1.25	1.25	1.10
(14).....	3.50	4.00	4.00
(15).....	6.50	7.00	6.00
(16).....	1.75	2.00	1.20
(17).....	.30	.20	.40
(18).....	.40	.30	.45
(19).....	.50	.40	.50
(20).....	.65	.50	.60
(21).....	.75	.70	.75
(22).....	3.00	3.00	3.00
(23).....	.06	.053	.07
(24).....	600.00	300.00	250.00
(25).....	600.00	500.00	500.00
(26).....	100.00	400.00	100.00
(27).....	10.00	40.00	50.00
(28).....	.50	1.00	.50
(29).....	.06	.07	.05
(30).....	.10	.07	.15
(31).....	.10	.10	.10
(32).....	.10	.15	.15

WASHOE COUNTY, Nevada—As previously reported, Union Paving Co., Call Bldg., San Francisco, at \$93,769.14 awarded contract January 11 by State Highway Department, Carson City, to grade and asphaltic concrete surface 5.42 mi. between Reno and Huffakers, involving:

- (1) 10,200 cu. yds. rdwy. excav.;
- (2) 1,150 cu. yds. struc. excav.;
- (3) 24,057 cu. yds. select borrow;
- (4) 1,786 sta. yds. overhaul;
- (5) 15,100 sq. yds. subgrade for pave.

- (6) 69 demollish culvert inlets and outlets;
- (7) 2,500 sq. yds. demollish conc. pave.
- (8) 14,143 lin. ft. remove fence;
- (9) 4,322 lin. ft. remove and reconstruct fence;
- (10) 14,113 lin. ft. construct fence;
- (11) 2,900 lin. ft. enlarging expansion joint;
- (12) 30,300 lbs. reinf. steel;
- (13) 243 cu. yds. Class A concrete;
- (14) 160 cu. yds. Class B concrete;
- (15) 36 lin. ft. 15-in. corr. metal pipe
- (16) 886 lin. ft. 18-in. do;
- (17) 556 lin. ft. 24-in. do;
- (18) 66 lin. ft. 30-in. do;
- (19) 50 lin. ft. 36-in. do;
- (20) 183 lin. ft. remove pipe culverts;
- (21) 806 lin. ft. remove and reset pipe culverts;
- (22) 842 lin. ft. 24-in. corr. metal siphon pipe;
- (23) 72 lin. ft. 6-in. cast iron pipe;
- (24) 49,000 sq. yd. asph. paint blinder;
- (25) 54,784 lin. ft. sideforms;
- (26) 32 cu. yds. riprap;
- (27) 96 lin. ft. timber guard rail;
- (28) 30 monuments;
- (29) 3,300 tons asph. conc. base course
- (30) 7,200 do. leveling course;
- (31) 7,100 do. wearing course;
- (32) 1 furnish and install posts for F. A. M.;
- (34) 5.42 miles finish roadway;
- (35) 105 tons tread course;
- (36) 157 remove trees;
- (37) 5.42 miles paint center line;
- (38) 20 wooden diversion box.
- (39) miscellaneous items.

Complete bids follow:
 (A) Union Paving Co., San Francisco, \$93,769.14.
 (B) Jones & King, Hayward, \$98,561.89.
 (C) Clark & Henry Constr. Co., San Francisco, \$99,867.82.
 (D) A. Teichert & Son, Sacramento, \$111,516.88.
 (E) Engineer's Estimate, \$103,119.66.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)
(1)	.20	.20	.25	.27	.30
(2)	1.00	11.00	1.25	.75	1.00
(3)	.30	.28	.33	.36	.35
(4)	.01	.04	.02	.02	.04
(5)	.07	.07	.07	.08	.08
(6)	5.00	5.00	5.00	5.00	5.00
(7)	.50	.25	.25	.20	.20
(8)	.02	.025	.02	.02	.03
(9)	.06	.08	.10	.07	.07
(10)	.10	.11	.15	.14	.12
(11)	.15	.25	.20	.10	.10
(12)	.04	.05	.04	.03	.05
(13)	18.00	20.00	20.00	18.00	20.00
(14)	14.00	19.00	20.00	17.50	18.00
(15)	1.00	1.25	1.25	1.25	1.10
(16)	1.20	1.50	1.30	1.25	1.25
(17)	2.00	2.00	2.00	1.80	2.00
(18)	2.50	2.50	2.50	2.75	2.50
(19)	3.00	3.50	4.00	4.00	3.25
(20)	.50	.50	.50	.50	.40
(21)	1.00	.60	.60	.75	.75
(22)	2.60	2.15	3.00	3.00	2.75
(23)	.30	1.50	1.00	1.50	.60
(24)	.015	.015	.015	.02	.015
(25)	.10	.12	.12	.13	.12
(26)	2.00	3.00	3.00	3.00	4.00
(27)	.70	1.00	1.00	1.00	1.00
(28)	3.00	2.50	3.00	2.50	3.00
(29)	2.75	3.09	2.97	3.56	3.00
(30)	2.80	3.09	2.97	3.56	3.05
(31)	3.20	3.09	2.97	3.56	3.25
(32)	150.00	150.00	100.00	100.00	150.00
(33)	5.00	5.00	5.00	5.00	10.00
(34)	150.00	100.00	100.00	100.00	100.00
(35)	3.00	3.69	4.00	5.00	3.60
(36)	4.00	6.00	10.00	10.00	10.00
(37)	80.00	100.00	100.00	75.00	150.00
(38)	10.00	20.00	20.00	20.00	17.50
(39)	250.00	500.00	150.00	300.00	250.00

LOS ANGELES COUNTY, Cal.—Fredrickson & Watson Co., 873 81st St., Oakland, at \$175,335.60 awarded contract by State Highway Commission to grade 3.8 mi. between 1-mi. east of Gorman and the northerly boundary; of which 3.5 mi. are to be paved with Portland cement concrete.

11-MI. GRADE & ASPH. CONC. PAVE—RIVERSIDE CO.

RIVERSIDE COUNTY, Cal.—Oswald Bros., 366 E 58th St., Los Angeles, at \$171,115.90 submitted low bid Feb. 1 to State Highway Commission, Sacramento, to grade and pave with asphaltic concrete about 11 miles bet. Edom and Indio, involving:
 (1) 9,000 cu. yds. imp. borrow;
 (2) 11,000 cu. yds. sel. material;
 (3) 180 cu. yds. struc. excav.;
 (4) 8,500 sq. yds. subgrade for pave.;
 (5) 127,000 sq. yds. asph. paint binder
 (6) 42,500 tons asphaltic concrete;
 (7) 25,300 tons crushed gravel or stone (oil treated surf.);
 (8) 7,450 bbls. fuel oil (oil treated surf.);
 (9) 73 tons cut-back asph., seal coat;
 (10) 224 lin. ft. 24-in. corr. metal pipe;
 (11) 146 lin. ft. 36-in. do;
 (12) 10 cu. yds. concrete removed from

exist. pave. and disposed of;
 (13) 11.5 miles paint traffic stripe;
 (14) 130 monuments complete in place.
 State will furnish corrugated metal pipe and lacquer.
 Complete bids follow:
 (A) Oswald Bros., Los Angeles, \$171,115.90.
 (B) Griffith Co., Los Angeles, \$172,819.10.
 (C) Southwest Paving Co., Los Angeles, \$177,562.10.
 (D) Basich Bros., Torrance, \$181,372.10.
 (E) Gogo & Rados, Los Angeles, \$192,864.00.
 (F) A. Teichert & Sons, Sacramento, \$203,118.90.
 (G) United Concrete Pipe Co. and C. O. Sparks, Los Angeles, \$244,81.70.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
(1)	.20	.18	.295	.24	.27	.40	.40
(2)	.415	.60	.41	.58	.46	.56	1.00
(3)	.60	.60	1.25	.60	.40	1.00	1.00
(4)	.06	.07	.10	.08	.07	.10	.10
(5)	.013	.02	.012	.02	.019	.015	.02
(6)	2.58	2.73	2.63	2.75	2.92	3.20	3.59
(7)	1.64	1.40	1.76	1.57	1.76	1.70	2.40
(8)	1.25	1.10	1.20	1.21	1.35	1.22	1.50
(9)	17.00	13.00	16.00	16.00	40.00	15.80	20.00
(10)	.40	.50	.75	.30	.40	.50	.50
(11)	.55	.60	.85	.40	.60	.75	.70
(12)	5.00	2.00	3.00	4.00	1.50	5.00	2.00
(13)	21.00	25.00	30.00	20.00	22.00	50.00	25.00
(14)	2.50	2.00	3.00	2.00	2.00	2.50	2.00

C. I. PIPE AND FITTINGS—PASADENA—BIDS OPENED

PASADENA, Los Angeles Co., Cal.—Bids for furnishing cast iron pipe and fittings f.o.b. water department pipe yards on Raymond Avenue near Glenarm St., opened by city directors Jan. 24. Bids were taken on items as follows:
 (1) 20,000 ft. of 6-in. cast iron water pipe for service under 150 pounds working pressure. Minimum wall thickness, .37 inches.
 (2) 20,000 ft. of 8-in. do; minimum wall thickness, .42 inches.
 (3) 10,000 ft. of 12-in. do for service under 200 lbs. working pressure; minimum wall thickness .57 in.
 (4) 1200 ft. of 16-in. do; minimum wall thickness .68 in.
 (5) 600 ft. of 20-in. do; minimum wall thickness .78 in.
 (6) 800 ft. of 24-in. do; minimum wall thickness .88 in.

(7a) 240 ft. of 10-in. do; minimum wall thickness .52 in.
 (7b) 48 ft. of 14-in. do; minimum wall thickness .62 in.
 (8) 408 ft. of 18-in. Class B cast iron water pipe.
 (9a) 50 6x6-in. cast iron tees, 3 bells, Class D;
 (9b) 20 8x6-in. do;
 (9c) 10 12x6-in. do.
 Bidders follow:
 (A) U. S. Pipe & Foundry Co.
 (B) Utilities Supply Co.
 (C) American Cast Iron Pipe Co.
 (D) National Cast Iron Pipe Co.
 (E) Alhambra Foundry Co.
 (F) Enterprise Foundry Co.
 (G) Vernon Foundry Co.
 (H) Southwest Welding & Mfg. Co.
 (I) Relibale Iron Foundry.

Unit bids follow:

	(1)	(2)	(3)	(4)	(5)	(6)	(7a)	(7b)	(8)	(9a)	(9b)	(9c)
(A)	\$.53	\$.8175	\$.154	\$2.60	\$3.80	\$5.15	\$1.21	\$2.14	\$6.85	\$6.46	\$8.14	\$15.43
(B)	.535	.8175	1.55	2.62	3.78	5.04	1.20	2.15	6.95	.....	.....	.....
(C)	.64	.82	1.56	2.59	3.72	5.00	1.18	2.10	7.10	6.80	8.56	16.24
(D)	.80	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
(E)	.....	.....	.....	.....	.....	.....	.....	.....	.....	4.47	5.82	9.18
(F)	.....	.....	.....	.....	.....	.....	.....	.....	.....	5.28	6.82	10.74
(G)	.....	.....	.....	.....	.....	.....	.....	.....	.....	4.80	6.30	12.00
(H)	.....	.....	.....	.....	.....	.....	.....	.....	.....	4.80	6.30	12.50
(I)	.....	.....	.....	.....	.....	.....	.....	.....	.....	6.46	8.13	15.43

OAKLAND, Cal.—Following bids received by city council to furnish corrugated iron pipe for the City of Oakland, involving:
 (1) 100 lin. ft. 8-in.
 (2) 100 lin. ft. 10-in.;
 (3) 2000 lin. ft. 12-in.;
 (4) 200 lin. ft. 15-in.;
 (5) 200 lin. ft. 18-in.;
 (6) 200 lin. ft. 21-in.;
 (7) 200 lin. ft. 24-in.;
 (8) 200 lin. ft. 27-in.

Complete bids follow:

(3)	.87	.92	.82	.72
(4)	1.05	1.11	.99	.89
(5)	1.26	1.33	1.18	1.05
(6)	1.45	1.53	1.36	1.22
(7)	2.28	2.41	2.14	1.87
(8)	2.85	2.79	2.48	2.11

Complete bids follow:
 (A) Golden State Culvert Mfg. Co., \$3635.00.
 (B) California Corrugated Culvert Co. (grade A) \$3796.00.
 (C) Alt. (grade B) \$3379.00.
 (D) Alt. (grade C&D), \$2966.50.

Unit bids follow:

	(A)	(B)	(C)	(D)
(1)	\$.53	\$.55	\$.49	\$.45
(2)	.64	.67	.60	.535

LONG BEACH, Los Angeles Co., Cal.—City Council has adopted a preliminary resolution (No. C-5338) determining the nature, extent and location of the proposed improvement of Loma Ave., between Ocean Blvd. and Second St., between Second St. and Broadway, and between Broadway and Third St., in accordance with the provisions of the Assessment Limitation Act of 1931. The proceedings are under the 1911 Improvement Act. The work involves grading and surfacing the roadway with oil and screenings.

ENGINEERING NEWS

BRIDGES

HUMBOLDT COUNTY, Cal.—Daniel G. Longtin, 621 DeYoung Bldg., San Francisco, at \$17,939.55 awarded contract by U. S. Bureau of Public Roads, to construct the Mill Creek and Hosler Creek bridges, Unit 2-D of California Federal Lands Pro. No. 1, Hoopa Valley Indian Reservation.

MARICOPA, Kern Co., Cal.—Plans and specifications for a timber bridge, 400 ft. in length, to be built across the Cuyama River on the route of the Maricopa-Ventura Highway were ordered by the directors of Joint Highway Dist. No. 6 at the meeting Jan. 28. The estimated cost is \$10,000. No action was taken on the proposed call for bids for the Coyote Creek bridge or the tunnel lining. C. W. Petit is the engineer.

LOS ANGELES, Cal.—Concrete Engineering Co., 1450 Mirasol St., submitted low bid to County Supervisors January 30 at \$873.92, for furnishing reinforcing steel for the construction of a concrete culvert on Burbank Blvd. at Victory Blvd., as follows:

- (1) 4,650 lbs. 7/8-in. round deformed;
 - (2) 17,800 lbs. 3/4-in. do;
 - (3) 8,400 lbs. 1/2-in. square deformed;
 - (4) 10,000 lbs. 1/2-in. round deformed;
 - (5) 150 lbs. 3/8-in. do.
- Complete bids follow:
- (A) Concrete Engineering Co., Total (1), \$878.31; total (2)* \$873.92.
 - (B) Los Angeles Iron & Steel Co., (1) \$889.88; (2)* \$885.43.
 - (C) Blue Diamond Corp., Ltd., (1) \$949.54; (2)* \$944.79.
 - (D) Soule Steel Co., (1) \$946.00 (2)* \$959.18.

*Total is with discount deducted. Unit bids follows, (A) being the first line, etc.

(1)	(2)	(3)	(4)	(5)
\$.02051	\$.02051	\$.02251	\$.02251	\$.02451
.02	.0215	.0222	.0224	.0247
.02	.0224	.022	.0269	.0268
.0226	.0226	.0246	.0246	.0266

SAN FRANCISCO—Ariss-Knapp Co., 961 41st St., Oakland, approved by directors of the Golden Gate Bridge District as sub-contractors for Barrett & Hilp for the San Francisco anchorage.

STOCKTON, San Joaquin Co., Cal.—Moore Drydock Co., Foot of Adeline St., Oakland, awarded sub-contract by Lord & Bishop, Sacramento, to furnish and fabricate 240 tons structural steel for Southern Pacific Bridge over the San Joaquin River.

SANTA BARBARA, Calif.—E. B. Brown, City Engineer, has been authorized to prepare estimates for a bridge to be built on Valerio Street across Mission Creek.

PIERCE COUNTY, Wash.—As previously reported, Carl Bjork, 2437 W 63rd, Seattle, at \$32,687 submitted low bid Feb. 2 to U. S. Bureau of Public Roads, Portland, to construct one log stringer bridge over North Puyallup river, together with approaches and parking area on the West Side Highway Proj. E-2-C2, Mt. Rainier National Park, involving: clearing and grubbing; 8500 cu. yds. unclass. excav.; 3 60-ft. log spans; 6200 sq. ft. log crib face; 435 cu. yds. Class A concrete; 200 cu. yds. masonry facing; 40,000 lbs. reinf. steel; 85 cu. yds. masonry walls; 60 cu. yds. masonry guard rails;

170 lin. ft. corr. galv. metal pipe. Complete bids follow:

- Carl Bjork, Seattle, \$32,687
 - Elich & Co., Seattle, 37,086
 - Chris Yanlick, Seattle, 37,279
 - Myers & Goulter, Seattle, 37,620
 - Western Const. Co., Seattle, 38,553
 - Butler Const. Co., Seattle, 39,229
 - A. Del Guzzo, Seattle, 41,857
 - J. F. Johnson, Newberg, 41,403
 - Stoner & Kunney, Seattle, 43,900
 - General Const. Co., 44,220
 - Newton Const. Co., Seattle, 45,870
 - P. C. MacRae, Seattle, 45,887
 - A. C. Greenwood, Portland, 46,565
 - Kuckenber-Wittman, Portland 48,440
- Bids held under advisement.

DREDGING, HARBOR WORKS & EXCAVATIONS

PORTLAND, Ore.—Hauser Const. Co., Multnomah Hotel, Portland, at \$498,754, total bid for north and south jetties, awarded contract by U. S. Engineer Office to reconstruct the north and south rubble mound jetties at the entrance to Yaquina Bay, Lincoln County, Ore.

SACRAMENTO, Cal.—Baker & Taylor, Chester, at \$27,898 submitted low bid to U. S. Engineer Office, Sacramento, to construct a levee, approximately three miles long, along the embankment of the Western Pacific Railroad which runs along westerly outskirts of North Sacramento, and along the southerly bank of Arcade creek, along the northerly edge of North Sacramento, involving 377,000 cu. yds. embankment in place.

Complete bids follow: Baker & Taylor, Chester, \$074; \$27,898.

Guy Bros., Stockton, \$.087; \$32,799. Morrison-Knudsen, L. A., \$.088; \$33-176.

Willard-Biasotti-Lovatti, Stockton, \$.0948; \$35,739.

R. L. Oakley, Palo Alto, \$.103; \$38,-831.

Ajax Dredging Co., S. F., \$.1073.

Haas, Doughty & Jones, S. F. \$1,075 \$40,527.

Porter Bros., S. F., \$.112; \$42,334.

Milton A. Purdy, Oakland, \$.1275; \$48,067.

A. Teichert, Sacramento, \$.133; \$50-141.

J. R. Reeves, Sacramento, \$.134; \$50-518.

John Phillips, S. F., \$.14; \$52,780.

Bids held under advisement.

SAN DIEGO, Cal.—Maj. W. H. Langan, U. S. Engineer at Los Angeles,

recommended to the San Diego harbor department that the city co-operate with the federal government in raising funds to provide for dredging the "middle ground," a shoal lying near the Benson Lumber Wharf, in order that the channel may accommodate U. S. Navy ships. The harbor department has the matter under consideration. Total cost of the dredging would be between \$200,000 and \$300,000. The channel would be widened to 500 ft. and deepened from its present depth of 14 ft. minimum and 18 ft. maximum depth to 26 ft. The length is 3000 ft.

SACRAMENTO, Cal.—State Reclamation Board authorized condemnation proceedings to complete rights-of-way for construction of the west levee of the Sacramento River from Colusa to Wohlfrom's Bend. The balance of the rights-of-way necessary have been secured by Reclamation District No. 2047, Colusa.

PORTLAND, Ore.—As previously reported, General Const. Co., 3840 Iowa St., Seattle, at \$174 cu. yds. (approximately \$77,000) submitted low bid to U. S. Engineer Office, 321 Customhouse, Portland, for dredging approx. 435,711 cu. yds. of material from a channel and for constructing a dike with about 41,600 cu. yds. of the dredged material, in Willamette river between points about one mile and 2 1/2 miles downstream from Oregon City.

Complete bids follow: Tacoma Dredging Co., Tacoma, \$1,1885.

Pacific Bldg. Material Co., Portland, \$1,938.

Oakland, \$47.

Oregon Bldg. & Dredging Co., \$488. Engineer's estimate.

Bids held under advisement.

STOCKTON, San Joaquin Co., Cal.—San Francisco Bridge Co., 503 Market St., San Francisco, at \$1,235 submitted low bid to U. S. Engineer Office, Sacramento, to dredge 309,000 cu. yds. of material from the 26-ft. channel between the mouth of Mormon Channel and Edison St., Stockton. Complete bids follow:

S. F. Bridge Co., \$1,235

Hydraulic Dredging Co., 1471

American Dredging Co., 157

Engineer's estimate 1615

Bids held under advisement.

SACRAMENTO, Cal.—Ajax Dredging Co., 249 1st St., San Francisco, at \$6.45 per hour awarded contract by U. S. Engineer Office, Sacramento, to furnish and operate a dragline for 80 hours.

PORTLAND, Ore.—U. S. Engineer Office, 321 Customhouse, Portland, will ask bids shortly to construct wharf, dolphins, trestle, land track-
age, dikes, etc., at Sand Island in Columbia River 3 mi. from Astoria, Oregon, involving:

- 131,700 lin. ft. piling;
- 664 M ft. lumber;
- 141 M. ft. ties;
- 56,400 lbs. tie rods;
- 15,700 lbs. bolts;
- 15,400 lbs. ship spikes;
- 15,200 lbs. track spikes;
- 180 tons steel rails;
- 9 sets frogs and switches;
- 17,000 cu. yds. stone;
- 45,000 cu. yds. stone.

Specifications not yet complete.

CAPITAL CITY TITLE COMPANY

▼

J. C. PALEN,
Manager

▼

914 Seventh Street
Sacramento :: California

PORTLAND, Ore.—U. S. Engineer office, 321 Customhouse, Portland, will ask bids shortly to repair south jetty at mouth of Columbia River, involving:

221,000 lin. ft. piling;
64,000 lbs. drift bolts;
122,000 lbs. machine bolts;
153,000 lbs. spikes;
650 tons steel rails;
91,000 lin. ft. wire rope;
52,000 lbs. steel straps;
1,600,000 tons stone.

Specifications not yet complete.

SEATTLE, Wash.—Dredging channel 10-ft. deep and 200-ft. wide in Bakers Bay, Washington, through the eastern passage at Sand Island to the port of Ilwaco recommended to Congress. Estimated cost, \$54,000; annual maintenance, \$6000.

DENVER, Colo.—George Herz Co., Platt Bldg., San Bernardino, submitted low bid to U. S. Bureau of Reclamation, Department of the Interior, Yuma, Ariz., Jan. 30 at a total of \$17,430 or \$.883 per cu. yd., for furnishing labor and materials and performing all work for raising about 11 miles of the Colorado river levee, Palo Verde Irrigation District, Calif. The work is located near Blythe and Ripley, Calif. The principal item and the estimated quantity involved is as follows:

210,000 cu. yds. excav. for levee.

The bids were referred to the Denver office of the Bureau for award.

PEARL HARBOR, T. H.—Hawaiian Dredging Co., Honolulu, T. H., awarded contract by the Bureau of Yards and Docks, Washington, D. C., at \$100,000 for dredging at the Middle Lock Shoal, Pearl Harbor.

SACRAMENTO, Cal. — Olympian Dredging Co., 249 First St., San Francisco, at \$66,748 submitted low bid to U. S. Engineer Office, Sacramento, to build stretches of new levee and to raise and strengthen an existing levee along the easterly bank of the Sacramento river from Meridan downstream for 11.5 mi. to Winship School, including clearing and grubbing right-of-way and moving, extending or reconstructing fences, road ditches, pipes, etc., involving 451,000 cu. yds. embankment in place in levee.

Complete bids follow:

Olympian Dredging Co., \$148, \$66,748.
Franks Contracting Co., San Francisco, \$156, \$70,356.

Bids held under advisement.

IRRIGATION PROJECTS

SHORT CREEK, Ariz.—The Silverlake Project Company has been organized with J. M. Lauritzen, Sr., president, and Charles Hanson, secretary-treasurer, for the purpose of developing a cooperative irrigation project. The promoters plan to impound 10,000 acre feet of flood and high waters from Short Creek canyons in Silverlake, a natural reservoir near Short Creek. This would be used to irrigate 3000 or more acres below the reservoir. As the construction consists entirely of movement of dirt by team and scraper, it is planned to allow early members of the project to work out their shares. Later, shares will be sold for cash to buy equipment.

CALIFORNIA.—Following is a list of Permits granted by the State Department of Public Works, Division of Water Resources, Sacramento, during the month of January, 1933, to appropriate water:

Permit 4049, Application 7307 (Sacramento Co.) issued to R. W. Spencer, et al, 3429 Folsom Blvd., Sacramento, for 800 gals. per day from un-

named spring, for domestic purposes. Est. cost, \$500.

Per. 4050, App. 7348 (Sierra Co.) C. E. Brewer, 503 Southwest Bldg., Los Angeles, for 3 second feet from Newhouse Creek, for mining purposes. Estimated cost, \$500.

Per. 4051, App. 7349 (Mono Co.) Mrs. Frankie M. Beatty, Bishop, 200 gals. per day from unnamed stream, for domestic purposes. Est. cost, \$50.

Per. 4052, App. 5992 (San Francisco Co.) Ednah M. Black, care Jos. A. Bien, atty., 209 Post St., San Francisco, for 670 ac. ft. from Burney creek for irrigation and domestic use on 866 acres. Est. cost, \$10,000.

Per. 4053, App. 7376 (Siskiyou Co.) Murty Brickley, care J. D. Fairchild, atty., Yreka, for 2.5 c.f.s. from Walker Creek, for irrigation and domestic use on 79 acres. Est. cost, \$25.

Per. 4054, App. 7377 (Siskiyou Co.) M. J. Brickley, care J. D. Fairchild, atty., Yreka, for 2.5 c.f.s. from Walker Creek, for irrigation and domestic use on 65 acres. Est. cost, \$100.

Per. 4055, App. 7366 (San Diego Co.) Julius Wieden, care Delemere Thurber, atty., Fallbrook, for 0.21 sec. ft. from unnamed creek, for irrigation and domestic use on 10 acres. Est. cost, \$1000.

Per. 4056, App. 7261 (Humboldt Co.) C. O. Rothermund, Dyerville, for five sec. ft. from Bull creek, for industrial purposes for fish ponds. Est. cost \$500.

Per. 4057, App. 7423 (Siskiyou Co.) H. A. Cook, Hapy Camp, 3 sec. ft. from Twin Gulch for mining purposes. Est. cost, \$500.

Per. 4058, App. 7420 (Trinity Co.) N. R. Ferguson, Junction City, for 0.1 of a second foot from unnamed stream for irrigation of 3 acres. Est. cost, \$200.

Per. 4059, App. 7450 (Trinity Co.) N. R. Ferguson, Junction City, for 0.1 of a second foot from unnamed stream for mining purposes. Est. cost, \$75.

BURLINGAME, San Mateo Co., Cal.—Committee is studying problem of area in North Burlingame flooded at intervals, and work may start later in the spring. Project involves drainage ditches, pipe and drainage pumps. Estimated cost, \$3500. F. A. Bloom, city purchasing agent.

IMPERIAL COUNTY, Cal.—The Board of Directors of the Imperial Irrigation District has filed in the Imperial County Superior Court a suit to validate the All-American Canal contract with the Federal government as approved by voters in the district January 12. The validation is one of the requirements of the Federal government before money can be expended on construction of this unit of the Boulder Canyon Project.

At the same time announcement was made that M. W. Conkling of San Diego has filed suit at El Centro to enjoin the Imperial Irrigation District from expending any money to further the All-American Canal contract. The action names the Imperial Irrigation District, Coachella Valley County Water District and the individual directors of the Imperial District, defendants. After formal allegations, the complaint asks:

First: That the said directors of the said Imperial Irrigation District be prohibited and enjoined from expending any moneys in the furtherance of said contract, or its completion, or in endeavoring to get the same ratified, or completed, or executed, or in getting anything done for the purpose of having the said contract carried out, and that the said directors be likewise enjoined from signing the said contract, or executing the same, or making any attempt to cause the same to be binding upon the said Irrigation district.

Second: That the court by its judg-

ment herein declare the contract and the whole thereof to be invalid and not a binding obligation of said district.

Third: That until the hearing and final determination of this cause, the court enjoin and restrain the said directors of the said irrigation district from expending any moneys in the furtherance of said contract, or its completion, or in endeavoring to get the same ratified, or completed, or executed, or in getting anything done for the purpose of having the said contract carried out, and that the said directors be likewise enjoined from signing the said contract, or executing the same, or making any attempt to cause the same to be binding upon the said irrigation district, and for such other and further relief as may be equitable and for costs.

CALIFORNIA.—Following is a list of APPLICATIONS led by the State Department of Public Works, Division of Water Resources, Sacramento, during the month of January, 1933, to appropriate water:

App. 7478 (Eldorado Co.) C. T. Oeste, % E. O. Anderson, Youngs, Calif., 0.25 c. f. s. from Middle Fork Consumnes River tributary to Consumnes River, thence Sacramento River for irrigation and domestic purposes. (20 acres). Est. cost, \$2000.

App. 7479 (Eldorado Co.) C. M. Carter, R. D. Nicol and W. P. Austin, % R. D. Nicol, 1733 Jefferson Street, Oakland, Calif., for 100,000 acre feet per annum from South Fork American River tributary to American River for municipal purposes. Est. cost \$3,000,000.

App. 7480 (Eldorado Co.) B. W. Stone, 161 Ellis St., San Francisco, Calif., for 500 c. f. s. and 125,000 acre feet per annum from Rubicon River, Pilot Creek, Gerle Creek, Loon Lake, Buck Island Lake, Rockbound Lake, Little South Fork Rubicon River tributary to American River Drainage area, for municipal purposes.

App. 7481 (Kern Co.) Laurel Development Company, 527 Roosevelt Bldg., Los Angeles, Calif., for 0.083 c. f. s. from Erskine Creek tributary to Kern River for mining purposes. Est. cost \$2500.

App. 7482 (Imperial Co.) Imperial Irrigation District, El Centro, Calif., for 10,000 c. f. s. from Colorado River tributary to Gulf of California for irrigation and domestic purposes.

App. 7483 (Imperial Co.) Coachella Valley County Water District, % Stewart, Shaw & Murphey, Atty., 835 Rowan Bldg., 5th and Spring Sts., Los Angeles Calif., for 2000 c. f. s. from Colorado River tributary to Gulf of Lower California, for irrigation and domestic purposes. (150,000 acres) Est. cost \$11,000,000.

App. 7484 (Los Angeles Co.) R. E. Rule, 706 Maltman Ave., Los Angeles, Calif., for 50 c. f. s. from San Gabriel River tributary to Pacific Ocean for irrigation and domestic purposes. (18,000 acres).

App. 7485 (Siskiyou Co.) Geo. R. Vause, 7354 17th Ave., N. W., Seattle, Wash., for 10 c. f. s. from Rock Creek tributary to Klamath River for mining purposes.

App. 7486 (Eldorado Co.) Thomas M. Prior, % J. P. Donovan, 3176 27th St., San Francisco, Calif., for 75 c. f. s. from Pilot Creek tributary to Rubicon River, thence American River for Mining and domestic purposes. Est. cost, \$15,000.

App. 7487 (Riverside Co.) Allen Foster Davis, Box 35, Star Route, Redlands, Calif., for 1 miners inch from unnamed spring tributary to whitewater River Watershed for irrigation and domestic purposes. (2 acres). Est. cost \$2000.

App. 7488 (Placer Co.) J. E. Faustina, 2714 E. 14th St., Oakland, Calif.,

for 10,000 gallons per day from Lake Tahoe for domestic purposes. Est. cost \$500.

App. 7489 (Eldorado Co.) W. P. Frick, 212 Easton Bldg., Oakland, Calif., for (1) 20 c. f. s., (2) 5 c. f. s., total 25 c. f. s., from (1) Middle Fork of Cosumnes River, tributary to Consumnes River, (2) Sopiago Creek (also known as Clear Creek) tributary to Middle Fork Cosumnes River for mining and domestic purposes.

App. 7490 (Siskiyou Co.) J. H. Terrett, Central Point, Oregon, for 3 c. f. s. from Butte Fork Creek tributary to Middle Fork of Applegate River for mining purposes.

App. 7491 (Mono Co.) George W. Kemper, 3701 Overland Ave., Los Angeles, Calif., for 200 gallons per day from unnamed stream tributary to Mammoth Creek and Owens River for domestic purposes. Est. cost, \$100.

App. 7492 (Plumas Co.) State of California, Department of Public Works, Division of Highways, % C. H. Purcell, State Highway Engineer, Public Works Bldg., Sacramento, Calif., for 0.025 c. f. s. from unnamed stream tributary to East Branch of North Fork of Feather River for domestic purposes. Est. cost, \$100.

App. 7493 (Plumas Co.) State of California, Department of Public Works, Division of Highways, % C. H. Purcell, State Highway Engineer, Public Works Bldg., Sacramento, Calif., for 0.025 c. f. s. from unnamed stream tributary to East Branch of North Fork of Feather River for domestic purposes. Est. cost \$50.

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LA MESA, Imperial Co., Cal.—American Concrete & Steel Pipe Co., 4635 Firestone Blvd., South Gate, submitted low bid to La Mesa, Lemon Grove and Spring Valley Irrigation District, Feb. 4, on all five schedules at total bids shown below, for furnishing and laying of a centrifugal concrete pipe involving 60,000 ft. of 36-in., 39-in., 42-in. and 48-in. centrifugal concrete pipe-line complete with fittings and miscellaneous structures for the replacement of the district's flume or pipe-line, located at certain points between the Diverting Dam of the La Mesa Irrigation District on the San Diego River and Eucalyptus Reservoir near La Mesa. The total length is about 60,000 feet. C. Harritt, 4769 Spring St., La Mesa, General Mgr. The award of contract is contingent upon obtaining a loan of \$500,000 from the Reconstruction Finance Corp. The bids were:

American Concrete & Steel Pipe Co.—(1) Main line Proposal No. 1, \$423,690.46; (2) Main line with alt. "A" Prop. No. 2, \$413,795.40; (3) Main line with Alt. "B" Prop. No. 3, \$424,372.30; (4) Main line with Alt. "C" Prop. No. 4, \$424,917.45; (5) Main line with Alt. "D" Prop. No. 5, \$419,834.25.
United Concrete Pipe Co.—(1) \$444,888; (2) \$433,789; (3) \$451,000; (4) \$444,288; (5) \$438,888.
Bonna Pipe Co.—(1) \$470,536.50; (2) \$460,249.45; (3) \$473,642.25; (4) \$469,319.35; (5) \$468,915.50.

MACHINERY AND EQUIPMENT

SOUTH GATE, Los Angeles Co., Cal.—Until 7:30 P. M., Feb. 21, bids will be received by city council to furnish, for the use of the police department, two new, light, 8-cylinder automobiles, coach type body, etc., f.o.b. South Gate. Specifications may be obtained from H. C. Peiffer, city clerk. Certified check or cash, 5%.

WENATCHEE, Wash.—Until Feb. 20, 2 P. M., bids will be received by L. L. Mathews, city clerk, to furnish gasoline pump, equipped with totaliz-

ing meter and individual load meter. Specifications obtainable from above.

MODESTO, Stanislaus Co., Calif.—Following bids received by city council January 25 to furnish one tree spraying machine and engine mounted on skids:

John Bean Mfg. Co., San Jose, at \$1355 less 2% 30 days, Bean Spraying Machine, gas engine driven, 500-gal. tank. Deduct \$20 for 400-gal. tank.

Friend Mfg. Co., Gasport, N. Y. (30 Channing Road, Burlingame) at \$1091 less 5% 30 days, "Friend" Sprayer, LeROI Motor driven pump, 600-gallon tank.

Stanislaus Imp. & Hdwe. Co., Modesto, at \$1558 net, Hardie Twin Park Special Power Sprayer, Model A Ford motor engine driven pumps, 400-gal. tank. For 600-gal. tank add \$33.25 net.

Fitzhenry Guptill Co., East Cambridge, Mass., at \$1794 net for Model V-Special Power Sprayer, Waukesha Model V engine, 400-gal. tank. Add \$25 for each 100-gal. tank capacity. Also at \$1285 net for Model XA - Power Sprayer, Waukesha XA engine, 400-gal. tank. Add \$25 for each 100-gal. tank capacity.

All bids f.o.b. Modesto.

Bids held under advisement until February, 7:30 P. M.

PETALUMA, Sonoma Co., Cal.—Until Feb. 11, to be opened Feb. 14, 2 P. M., bids will be received by R. K. Forrest, Maintenance Superintendent, State Highway Department, P. O. Box 151, Petaluma, to rent one or two pneumatic tired low bed dump trucks not over 4 years old, 1½ cu. yd. capacity dump body for 100 days equipment to be used in Marin, Sonoma and Napa counties.

LOS ANGELES, Cal.—Mano Construction Co., 1427 N. Sycamore Ave., awarded contract by A. J. Holm, city purchasing agent, at an estimated total of \$2030 for furnishing one 1¾-cu. yd. gas shovel without operator on rental basis for a period of approximately 70 days, under Specifications No. 3007. The rental is \$29 per day.

SAN FRANCISCO—Main Engineering Co., 110 Hooper St., at \$70 submitted low bid (informal) to Department of Public Works to furnish new liners for asphalt plant. Complete bids follow:

Main Engineering Co. \$70.00
N. K. Davis (extra \$22) 75.00
S. F. Mill Furniture Co. 81.85
Bids held under advisement.

NORTH HOLLYWOOD, Los Angeles Co., Cal.—Bids for furnishing one ½-sack tilting type concrete mixer mounted on 2-wheel pneumatic tired trailer, f.o.b. North Hollywood via freight, under Req. No. 5776, were opened by the State Purchasing Agent Jan. 28. The bids were:

California Equip. Co.—Rex—\$180; above with roller bearing wheels, solid tires, \$160. Delivery, 2 days on pneumatic tires, at once on solid tires.

Concrete Machinery & Supply Co.—Rex—\$208. Delivery at once. Terms 3% 30 days.

Essick Machinery Co.—Essick Big Boy—\$225. Delivery at once. Terms, 2% 15 days.

W. A. Bremer—\$225. Delivery, five days. Terms, 5% 15 days.

Smith Booth Usher Co.—Jaeger 3½ C T \$235; Jaeger 3½ H R \$195. Delivery at once. Terms 3% 30 days.

Brown-Bevis Co.—3½ S Wonder—\$240; 3½ S Lakewood \$210. Delivery, 1 day. Terms, 2% 30 days.

Garlinghouse Bros.—Knickerbocker 3½ S \$269; with cushion type rubber tired wheels, \$249. Delivery, 1 day. Terms, 4% 30 days.

Harron, Rickard & McCone—3½ S

Smith 2-hp., \$283; 3-hp. with cushion tired wheels \$310. Delivery, 10 days. Terms, 3% 10 days.

LOS ANGELES, Cal.—Bids for furnishing three concrete mixers under Specifications No. 2988 were opened by A. J. Holm, City Purchasing Agent, Jan. 27. Bids were taken as follows:

(1) 3 power driven concrete mixers, equipped with shaking skips.

(Alt. 1) 3 power driven concrete mixers, but without shaking skips.

The bids were:

Harron, Rickard & McCone Co.—(1) \$4236, (1 alt.) no bid. Allowances, (a) P-8713, \$367, (b) P-7823, \$367; (c) P-8701, \$367. Terms, net. No. 10 S. Dandy.

Consolidated Machinery & Supply Co. (1) no bid, (2) \$2285. Allowances: (a) \$75, (b) \$50, (c) \$100. Terms, 5% 20 days. Republic 10-S L. C.

Garlinghouse Bros.—(1) no bid, (2) \$3588, Spring Mount Ransom 10-S, \$3869. Allowances: \$100 each. Terms, 4% 30 days. Ransom 10-S H. & D. or Ransom Spring Mount "S."

Brown-Bevis Co.—(1) \$3750, (2) \$3675. Allowances: \$350 each. Terms 2% 30 days. Master 10-s.

W. A. Bremer Co.—(1) no bid, (2) \$3825. Allowances: (a) \$140, (b) \$200, (c) \$200. Terms: 2% 20 days. Bremer new type 2-bag mixer.

Concrete Machinery & Supply Co.—(1) \$4885, (2) no bid. Allowances: \$150 each. Terms: 3% 30 days. Rex 10-S. If all three purchased, deduct \$50 on each machine.

Harry C. Collins Machinery Co.—(1) \$3235.50, (2) \$3070.50. Allowances: \$100 each. Terms: 3% 30 days. Leach 10-S.

Smith Booth Usher Co.—(1) \$3975, (2) no bid. Allowances: \$285 each. Terms: net. Jaeger 10 D L 4 R.

CENTERVILLE, Alameda Co., Cal.—Patchett & Crstenson, Newman, at \$2200 awarded contract by Washington Union High School to furnish two school bus bodies, 41 to 48 passenger capacity.

SAN FRANCISCO.—Link Belt Co., 400 Paul Ave., at \$113.16 submitted low bid to Department of Public Works to repair sand bucket elevator at the municipal asphalt plant. Only other bid submitted by Chain Belt Co. at \$132.91. Bids held under advisement.

FIRE ALARM SYSTEMS

SAN DIEGO, Cal.—Public Safety Commission has approved the recommendations of A. V. Goeddel, City Purchasing Agent, for the replacement of six fire engines. The proposed fire equipment program, which involves an estimated cost of \$180,000, includes the rebuilding or repair of ten stations and the building of three new stations, besides the purchase of new equipment.

PORTLAND, Ore.—Until Feb. 10, 2 P. M., bids will be received by Lee A. Baumhover, City Purchasing Agent, Room 208, City Hall, to furnish fire hydrants. Specifications are obtainable from above office. Certified check 10% payable to City of Portland, required with bid.

RESERVOIRS AND DAMS

LOS ANGELES, Cal.—Construction approved by Department of the Interior of Parker Dam on the Colorado River, a co-operative project of the Government and the Metropolitan Water District; estimated cost \$18,000,000. Project calls for construction of a dam on the Colorado River just below the mouth of the Bill Williams River.

RENO, Nev.—Sierra Pacific Power Co. plans to construct one or more reservoirs on the Truckee River between Boca and Floriston, capacity 280 acre feet; estimated cost \$150,000.

PASADENA, Los Angeles Co., Cal.—Bids for furnishing removable galvanized steel trash racks and appurtenances for the Pine Canyon Dam, approximately 170,000 lbs., opened by city board of directors January 31. The bids which were taken under advisement until 4:30 P. M. Feb. 1, were as follows:

Pacific Iron & Steel Co.—3.95c lb.; total, \$6715.

Emil Brown Co.—3.96c lb.; total, \$6732.

Emsco Derrick & Equip. Co.—riveted, 4.3c; total, \$7310; welded, 4.2c; total, \$7140.

Alhambra Foundry Co.—4.429c; total, \$7546.30.

Soule Steel Co.—4.54c; total, \$7718.

Southwest Welding & Mfg. Co.—4.75c; total, \$8975.

Consolidated Steel Corp.—4.8c; total, \$8160.

Truscon Steel Co.—4.85c; total, \$8245.

Western Pipe & Steel Co.—5c; total, \$8500.

National Supply Co. of Calif.—5½c; total, \$9066.67.

Apex Steel Corp.—riveted, 5.58c; total, \$9486; welded, 5.18c; total, \$8806.

Standard Steel Works—5.8c; total, \$9860.

Lee & Tallman—welded, 5.83c; total, \$9911.

National Tank & Mfg. Co.—6.05c; total, \$10,285 (delivered at dam).

LOS ANGELES, Cal.—Bids for furnishing steel vent pipe and fittings for San Gabriel Dam No. 2 opened by County Supervisors Jan. 30. Nine bids were identical, the tenth bid being for item (1) only, and the eleventh varying only in the addition of the extensions. The bids were taken as follows:

PROPOSAL NO. 1

Item (1):

- (a) 2, 16x14-in. reducers;
- (b) 5, 16-in., 45° elbows;
- (c) 3, 14-in., 90° elbows;
- (d) 1, 16x14x14-in. reducing tee;
- (e) 1, 12-in., 45° elbow;
- (f) 1, 14x14x12-in. reducing tee;
- (g) 3, 16x12x14-in. reducing tees.

Item (2):

- (a) 1 piece, 16-in. dia., 2-ft. 6-in. standard steel pipe, flanged one end;
- (b) 1 piece, 16-in. dia., 6-ft. 6-in. standard steel pipe, flanged both ends;
- (c) 1 piece, 16-in. dia., 13-ft. standard steel pipe, flanged one end;
- (d) 1 piece, 16-in. dia., 9-ft. standard steel pipe, flanged one end;
- (e) 3 pieces, 16-in. dia., 12-ft. standard steel pipe, flanged one end;
- (f) 2 pieces 14-in. dia., 3-ft. 8-in. standard steel pipe, flanged both ends;
- (g) 2 pieces, 16-in. dia., 3-ft. ½-in. standard steel pipe, flanged both ends;
- (h) 4 pieces, 12-in. dia., 2-ft. 6-in. standard steel pipe, flanged one end;
- (i) 2 pieces, 12-in. dia., 5-ft. 6-in. standard steel pipe, flanged one end;

Item (3):

- (a) 72 ¾-in. machine bolts with hex. nuts, 3½-in.;
- (b) 348 1-in. machine bolts with hex. nuts, 4-in.

E. C. Eaton, 202 N. Broadway, County Flood Control Engineer.

Identical bids were submitted by the following: Crane Co., Ducommun Corp., Southwest Welding & Mfg. Co., Grinnell Co., Santa Fe Pipe & Supply Co., Alhambra Foundry Co., Ltd., Ilacker Pipe & Supply Co., Vernon Foundry, Inc., and Commercial Iron

Works. The prices were: (1) (a) \$64.40 each, (b) \$42.84, (c) \$32.58, (d) \$70.92, (e) \$23.40, (f) \$53.64, (g) \$70.92; (2) (a) \$22.33, (b) \$50.12, (c) \$60.45, (d) \$45.93, (e) \$56.82, (f) \$27.49, (g) \$25.40, (h) \$14.58, (i) \$23.53; (3) (a) \$9.32 per C or \$,0932 each, (b) \$12.12 per C or \$,1212 each; total, \$1418.77; with discount, \$1390.39.

Long Beach Iron Works bid on item (1) only at prices as shown in preceding bids.

Midwest Piping & Supply Co., Inc.—itemized prices identical—totals, \$1,418.79; with discount, \$1390.41.

LOS ANGELES, Cal.—The contract for the co-operative construction and operation of the \$13,000,000 diversion dam on the Colorado River at Parker, by the Metropolitan Water District and the Federal Government, has been approved by the Department of the Interior, according to an announcement by Ray Lyman Wilbur, Secretary. The dam is designed to stabilize the flow of the Colorado River subject to the provisions of the Colorado River Compact. The site selected is the upper of the two Parker sites. The plan now adopted by the Bureau of Reclamation will substitute the upper site and employ power generated there for the pumping of water to the Parker area and the Gila lands as separate projects, in lieu of a 130-mile canal to the Gila area under the alternative plan.

The proposed dam will be located in the Colorado River just below the mouth of Bill Williams River. It will raise the water level about 70 ft. and will provide a head to generate about \$0,000 H. P. of electrical energy. The estimated cost is \$12,958,000. The estimated cost of river diversion is \$2,640,000 for works designed to pass the river flow after the Colorado River is regulated by the Hoover Dam.

According to previous estimates prepared by James Munn, Chief of Construction of the Metropolitan Water District, the unit price of the tunnel excavation is \$7.50 cu. yd., the concrete lining, \$20, open cut excavation, 75c for each work, \$3 for rock work, \$1 for earth fill, and \$2.50 for excavation is estimated at \$2,603,000 for 1,271,000 cu. yds. or at an average of about \$2.05 per cu. yd. Deepest bedrock is about 200 ft. below water level. Borings indicate a class of material which should not be particularly hard to move. According to Mr. Munn, to move the quantity in the available time will require a carefully planned program with adequate equipment. With this and favorable river conditions fairly well assured the estimated price is believed to be sufficient.

Mass concrete in the dam is estimated at \$8 per cu. yd. for 280,000 cu. yds. Concrete in piers, at \$25; operating platform, parapets, and outlet tower at \$27; tower foundations at \$15, and concrete lining at \$20. Instead of the usual addition of 25 per cent for engineering, general expense and contingencies, an addition of 30 per cent has been made to the construction costs. This is to offset the extra chance that the diversion works may not control the flow if the Bill Williams River undergoes a flood at an inopportune time.

All the money will be advanced by the Metropolitan Water District and construction will be effected by the United States, which will retain ownership of the dam. The dam will be for the joint benefit of the district and of Indian and public lands in Arizona.

In return for its service, the United States will retain one-half the power privileges. About 40,000 horsepower will thus be acquired for use in Arizona without capital investment, thereby advancing by many years the feasibility of reclamation of large

areas in the Colorado River Indian reservation and the proposed Gila project in Arizona. Statutory authority already exists for the construction of the dam in aid of reclamation of the Colorado Indian reservation.

Among other privileges which the United States will reserve under the contract will be the right to control all water passing the dam and to utilize the top ten feet of storage capacity for their regulation in connection with Hoover Dam power operations and flood control. The district will transmit Arizona's share of Hoover Dam power, 117,000 horsepower, over its lines from Hoover Dam to Parker Dam at cost to the extent of the available capacity of the district's lines.

LOS ANGELES, Cal.—West Slope Construction Co., Financial Center Bldg., Los Angeles, contractor for San Gabriel Dam No. 1, has filed with County Board of Supervisors a formal request for the Board's approval of wishes to sub-let as follows:

Diversion tunnels and all appurtenances to Morrison-Knudsen Co., 1121 Title Guarantee Bldg., Los Angeles.

Boarding of men and operating of commissary store to Holmes Supply Co., 4th St. and Santa Fe Ave., Los Angeles.

The West Slope Construction Co. has completed cleaning and preparing of the camp and will have the building ready for occupancy within the next few days. Shovel work will probably start about Feb. 6.

SEWERS AND SEWAGE DISPOSAL PLANTS

LOS ANGELES, Calif.—Artukovich Bros., 912 S Atlantic Blvd., Hynes, submitted low bid to board of public works Feb. 1 at \$34,958 to construct Wilmington intercepting sewer in Fries Ave. and a private right of way in Fries Ave. bet. Water St. and a pt. 734 ft. southerly therefrom, and in a portion of Water Street, and another right of way, under cash contract.

This is a readvertisement. The other bids were:

John Topich	\$36,000
Martin Const. Co., Inc., Ltd.	36,444
Chutuk, Kordich & Vukojevich	39,563
Mike Radich	43,800
Mlagenovich & Gillespie	48,900
Culjak & Zelko	49,000
Leo Miletech	61,890

The previous low bid, Dec. 21, was submitted by Simunovich & Plich at \$31,400. The engineer's estimate was \$41,225.

LOS ANGELES, Cal.—J. C. Hickey, 320 S Palm Ave., Alhambra, awarded the contract by the board of public works February 1, at \$63,413.04 for the construction of three intercepting sewers and two local sewers in the Ventura Blvd. and Milbank St. Sewer District, under the 1911 Act. The interceptors are: First, Van Nuys Blvd. between Milbank St. produced and Ventura Blvd., Milbank St. bet. Woodman Ave. and Van Nuys Blvd., and Woodman Ave. bet. north outfall sewer and Milbank; second, Ethel Ave. bet. Moorpark St. and Ventura Blvd.; third, Laurel Grove Ave. bet. Valleyheart Drive and Ventura Blvd., Valleyheart Dr. bet. Laurel Canyon Blvd. and Laurel Grove Ave., and Laurel Canyon Blvd. bet. Woodbridge Street and Valleyheart Drive north. The two local sewers are: Robler Place, bet. its east terminus and Tyrone Ave., and Dunbar Place bet. its east terminus and South Sherman Way. The total length of the sewer is 18,321.49 lin. ft. and the average depth of the structures, exclusive of cleanout manholes, is 14.5 ft. The resurfacing will include both decomposed granite and rock and oil.

MISCELLANEOUS CONSTRUCTION

LOS ANGELES, Cal.—Wenzel & Henoch Construction Co. of Milwaukee, Wis., the contracting firm which has been re-instated as the low bidder on the San Jacinto Tunnel following the rescission of the tentative contract with the Metropolitan Engineering Corp. last Friday, is a Wisconsin corporation organized with a capital stock of 1500 shares of no par value. All of the stock is owned by the three directors and officers, viz.:

- R. G. Wenzel, President.
- O. P. Seefeld, Vice-president.
- E. F. Henoch, Secretary.

The company's Milwaukee address is 1524 North 27th St., Milwaukee. E. F. Henoch is representing the company in Los Angeles. His present address is the Los Angeles Biltmore Hotel.

The Wenzel and Henoch Construction Co. lists in its statement of experience nine completed tunnel projects and one now being completed. These are exclusive of approximately \$10,000,000 in sewer and tunnel contracts in Milwaukee County, Wisconsin, since 1924. The list of recent projects follows:

- Sewer Department, Milwaukee, 26th St. Tunnel, 1927, \$1,157,912.16.
- Sewer Department Milwaukee, Morgan Ave. Tunnel, 1929, \$598,318.91.
- Sewer Department, 4th and Brown Tunnel, 1931, \$303,005.
- Sewer Department, Beecher St. Tunnel, 1930, \$429,935.
- Sewerage Commission, Milwaukee, First Ave. Tunnel, 1927, \$296,570.
- Sewerage Commission, River Hills Tunnel, 1932, \$426,146.93.
- Whitefish Bay, Milwaukee, District No. 1 Tunnel, 1930, \$140,321.12.
- Commonwealth of Massachusetts, Boston, Water Tunnel, now being completed, \$4,978,031.80.
- Sewer Department, Milwaukee, Intercepting Sewers, 1928, \$365,000.
- Sewerage Commission, Milwaukee, Highland Low Level Tunnel, 1925, \$598,000.
- Sewerage Commission, Milwaukee, Barnekow Tunnel, 1928, \$354,152.

LOS ANGELES, Cal.—Metropolitan Water District, 306 W Third St., Los Angeles, F. E. Weymouth, General Manager and Chief Engineer, today (Feb. 3) rescinded their contract with Metropolitan Engineering Corp., 1003 Union Bank Bldg., Los Angeles (C. P. Ross, president; W. F. Hanrahan, treasurer and secretary, with stockholders as follows: Johnston P. Porter, Chas. R. Ross, George Pollock, T. E. Connolly, Wm. F. Hanrahan and Alfred B. Swinerton) in the amount of \$7,333,315, and reinstated Wenzel & Henoch Const. Co., 1524 N 27th St., Milwaukee, Wis. (second low bidders at \$7,339,100).

Wenzel & Henoch re-tendered new \$400,000 check.

Metropolitan Engineering Corp. failed to fulfill bonding requirements and the signing of the contract has been pending since bills were opened, Nov. 29, 1932.

Chief Engineer and General Manager F. E. Weymouth instructed to negotiate with Wenzel and Henoch regarding preliminaries incident to the execution of a contract.

WATERWORKS

SAN LUIS OBISPO, Cal.—The Santa Maria Gas Co. has announced that work will start at once on the excavation, reconditioning, and relaying of 40,000 ft. of pipe originally laid in 1914. The line runs in Edna Road from San Luis Obispo south to Reed's Station, Allen T. Fessler, 1141 Chorro St., is the superintendent in charge.

FORT LEWIS, Wash.—West Coast Construction Co., Lloyd Bldg., Seattle, at \$17,772 (second low bid submitted) recommended for award by Constructing Quartermaster, Fort Lewis, for laying cast iron water-mains.

PASADENA, Calif.—City directors have adopted an ordinance providing for the issuance of bonds in the San Gabriel Water Project in the sum of \$992,000. The issue will consist of 992 bonds of \$1000 each, dated Feb. 15, 1933, bearing interest at a rate not to exceed 6%. The board of directors has also authorized the city clerk, Bessie Chamberlain, to issue and publish a notice of sale of the said bonds.

RIO VISTA, Solano Co., Cal.—Chicago Bridge & Iron Co., Rialto Bldg., San Francisco, at \$2450 submitted low bid to U. S. Engineer Office, Sacramento, to provide and erect a 20,000-gal. steel water tank with a 70-ft. steel tower at the U. S. Engineer Department yard at Rio Vista. Complete bids follow:

Chicago Bridge & Iron Co.	\$2450
Rolph, Mills Co.	2500
Pittsburgh-Des Moines Steel Co.	2724
California Steel Prod. Co.	2774
Ralph C. Day, Portland	2885
McClintic-Marshall Corp.	4137

Bids held under advisement.

CAMARILLO, Ventura Co., Calif.—Harry F. Miller, 1908 W 75th St., Los Angeles, at \$15,287 submitted low bid to State Division of Architecture, Sacramento, to construct water storage system at the new state hospital at Camarillo. Proposal water storage system consists of one 226,700-gallon concrete tank, one 100,000-gallon concrete tank, one concrete pump house, pumps, piling, and electrical work. Complete bids follow:

H. F. Miller, Los Angeles	\$15,287
Anton Johnson Co., Inc., South Pasadena	15,850
Clinton Const. Co., S. F.	17,000
Guy F. Atkinson, S. F.	17,260
Wigg Const. Co. Redondo Beach	17,997
W. L. Snook, Santa Barbara	18,149
A. F. Anderson, Chico	18,217
Johnson & Hanson, Ventura	18,437
Loesch & Son, Pasadena	18,900
A. Schroeder, San Diego	18,982
Macco Matick, Los Angeles	19,300
H. G. Klusman, Cucamonga	19,337
Contracting Engineers, L. A.	19,850
Silveria & Robbins, Ventura	19,850
M. B. McGowan, San Francisco	20,129
H. Mayson, Los Angeles	21,839
John Strona, Chino	22,497
R. G. Whinery, Los Angeles	23,855
Andy Sordal, Long Beach	27,188
C. Haverlandt, Long Beach	31,445

Bids held under advisement.

MONTEREY PARK, Los Angeles Co., Cal.—The call for bids for constructing extensions to the water system in a private subdivision in Monterey Park, issued by O. A. Glerlish, consulting engineer of Monrovia, has been cancelled.

DUFUR, Wasco Co., Oregon.—City council granted \$10,000 loan at 6% from Reconstruction Finance Corporation to extend and replace parts of the municipal water supply line.

SACRAMENTO, Cal.—Diamond Springs Lime Co., at \$10.60 per ton, f.o.b. cars filtration plant, awarded contract by city council to furnish hydrated lime for filtration plant during 1933.

SANTA CRUZ, Cal.—Utilities Supply Co., Los Angeles, at \$5399.95 awarded contract by city council to furnish cast iron pipe (no fittings).

No bids were considered on the fittings, which will be bought in the open market.

OAKLAND, Cal.—California Corrugated Culvert Co., 5th and Parker Sts. Berkeley, awarded contract (no total given) by city council to furnish grade C corrugated iron pipe.

SANTA ROSA, Sonoma Co., Cal.—Following bids received by Santa Rosa Junior College District to furnish pumps for water well recently completed:

- Felton Water Wheel Co., \$1295.
 - Ketterlin Bros., Santa Rosa, \$1390, deduct \$227 if tank omitted.
 - Simonds Machinery Co., \$1338.50.
 - Robert Garcla, Palo Alto, \$1353.50.
 - Jacuzel Bros., Berkeley, \$1192, ded. \$215.
 - Byron Jackson Co., \$1395.
 - Wesco-Chippewa Pump Co., \$1552.
 - Woodin & Little, \$1710.
 - Worth Pump Co., \$1779.90, ded. \$130.
- Bids held under advisement until March 3.

SEATTLE, Wash.—Until Feb. 15, 10 A. M., bids will be received by W. A. Gaines, City Purchasing Agent, 511 County-City Bldg., to furnish one hydraulic turbine. Specifications obtainable from above office.

OAKLAND, Cal.—United States Pipe & Foundry Co., Monadnock Bldg., San Francisco, at \$22,800 awarded contract by East Bay Municipal Utility District, Oakland, to furnish 40,000 feet of cast iron pipe, 6-in. d'a.

SOLEDAD, Monterey Co., Cal.—Work will proceed immediately with municipal water system, awarded to Earl W. Heple, 494 Delmas Ave., San Jose, at \$21,115.75; consisting of wells, pumps, motors, wiring, reservoirs tanks etc.; as bonds of \$37,000 have been sold to local individuals.

PORTLAND, Ore.—Until Feb. 10, 2 P. M., bids will be received by Lee A. Baumhover, City Purchasing Agent, Room 208, City Hall, to furnish gate valves. Specifications obtainable from above office. Certified check 10% payable to City of Portland, required with bid.

HEBER, Imperial Co., Calif.—The \$15,000 bond issue to provide funds for the construction of a municipal water works plant and distributing system carried at the election Jan. 31. A loan from the Reconstruction Finance Corp. will be asked to provide funds for immediate work. The election was called at the instance of the Heber Public Utility District, Imperial County; Clauce Torrence, president; John Stindt, clerk.

LOS ANGELES, Cal.—Santa Fe Pipe & Supply Co. awarded contract by A. J. Holm, city purchasing agent, at \$1275 or 51c ft. for furnishing 2500 ft. 4-in. standard black steel line pipe, T. & C. f.o.b. trucks of department at 2451 E 15th St., Los Angeles. Bidder will furnish pipe manufactured by Allegheny Steel Co. Bid No. 3251.

SANTA ANA, Orange Co., Cal.—National & Mfg. Co., 8201 Santa Fe Ave., Los Angeles, submitted low bid to the city council, January 30 at \$1063, for constructing a steel water tank of approximately 45,000 gallons capacity. The other bids were: Lacy Mfg. Co., \$1200; California Steel Products Co., \$1248; alternate on riveted tank, \$1397; Western Pipe & Steel Co., \$1273; Consolidated Steel Corp., \$1490; Chicago Bridge & Iron Co., \$1554. The bids were taken under advisement until February 13.

SANTA ANA, Orange Co., Calif.—Bids for furnishing one direct connected electrically driven deep well turbine pump complete with motor, opened by city council, January 30.

Bids were taken on (1) a 960-r.p.m. and (2) 1450-r.p.m. pump. The bids were:

- Kimball Pump Co., (1) \$2994 (2) \$2369.
 - Worthington Pump Co., (1) \$3749 (2) \$383.10; 5% 30 days.
 - Peerless Pump Co., (1) \$3400 (2) \$2,659.
 - Fairbanks, Morse & Co., (2) \$2938.
 - Wintroath Pumps, Ltd., (1) \$3185 (2) \$2848.
 - John Bean Mfg. Co., (1) \$2795 (2) \$2477; 5% 30 days.
 - Layne & Bowler Corp., (1) \$2861 (2) \$2382.
 - Pomona Pump Co., (1) \$2345 (2) \$2,120.
 - Submersible Pump Co., (1) \$3090, 5% 30 days.
 - Byron-Jackson Co., (1) \$3189 (2) \$2,786; 5% 30 days.
 - Johnson Pump Co., (1) \$2568, alt. \$2923; 5% 30 days.
- The bids were taken under advise-ment until Feb. 13.

SIGNAL HILL, Los Angeles Co., Cal.—Bids for furnishing and liquid chlorine, hydrated lime, etc., for a period of one year f.o.b. Signal Hill opened Jan. 30 by the city council. Bids were taken on the following items:

1. Liquid chlorine—150 lbs. per cylinder;
 - (a) 2 to 4 cylinders each delivery;
 - (b) 5 to 19 cylinders each delivery;
 - (c) 20 to 40 cylinders each delivery.
2. Liquid chlorine—2,000 lbs. per container.
 - (a) 1 to 5 containers per delivery.
3. Hydrated lime. Quantities estimated for year—500 lbs. min.; 2,000 lbs. max. Prices to be quoted for delivery as follows:
 - (a) 100 lbs. per container, and 1 to 4 per order;
 - (b) 100 lbs. per container, and 5 to 10 per order.
4. Aluminum sulphate. Quantities—estimated per year: 500 lbs. min., 2,000 lbs. max. Prices to be quoted for delivery as follows:
 - (a) 100 lbs. per container, and 1 to 4 per order.
 - (b) 100 lbs. per container, and 5 to 10 per order.

The bids were as follows:
 Mefford Chemical Co. (1a) \$7.80 (1b) \$7.55 (1c) \$7.30 (2a) \$5 (3a) \$1.15 (3b) \$1.05 (4a) \$2.25 (4b) \$2.
 McKesson-Western Wholesale Drug Co., Ltd., (1a) 7.80 (1b) \$7.55 (1c) \$7.30 (2) \$5 (3a) \$1.30 (3b) \$1.20 (4a) \$1.85 (4b) \$1.75.
 Braun Corp., Ltd. (1a) \$7.80 (1b) \$7.55 (1c) \$7.30 (2) \$5 (3a) \$2 (3b) \$1.75 (4a) \$2.50 (4b) \$2.25.
 L. A. Chemical Co., (1a) \$7.80 (1b) 7.57 (1c) \$7.30 (2) \$5 (3a) \$1.25 (3b) \$1.20 (4a) \$1.95 (4b) \$1.85.

Lewis W. Osborne, Inc., on hydrated lime in 450-lb. lots, 65c per sack; 1000-lb. lots, 60c per sack; 2000-lb. lots, 55c per sack.

Blue Diamond Corp., Ltd., Hitex hydrated lime in 50-lb. sacks, 45c ea.; Arrowhead Longspread lime, 55c per sack.

All bids were referred to the water superintendent for report.

SANTA CRUZ, Cal.—Pacific States Cast Iron Pipe Co., Rialto Bldg., San Francisco, at \$6273.50 (lump sum bid, \$6000) submitted low bid to city council to furnish:

- (1) 1750 ft. 8-in. c. i. pipe;
- (2) 12,000 ft. 4-in. do;
- (3) 18 4x4x4-in. c. i. crosses;
- (4) 30 4x4-in. c. i. tees;
- (5) 40 4-in. c. i. plugs with 2-in. outlet threaded for 2-in. pipe.

Complete bids follow:
 (A) Pacific States C. I. Pipe Co., \$6273.40.
 (B) U. S. Pipe & Foundry Co., \$6625.70
 (C) American C. I. Pipe Co., \$7355.20.

(D) Utilities Supply Co. (pipe) \$5,-399.95.

Unit bids follow:

	(A)	(B)	(C)	(D)
(1).....	\$.82	\$.86	\$.94	\$.6994
(2).....	.38	.40	.44	.348
(3).....	5.40	6.65	9.15	—
(4).....	4.05	5.10	7.05	—
(5).....	1.20	1.20	1.35	—

OAKLAND, Cal.—Rensselaer Valve Co., 55 New Montgomery Street, San Francisco, at \$4785 (lump sum bid) awarded contract by East Bay Municipal Utility District, Oakland, to furnish 500 gate valves, sizes 4- 6 and 8-in. diameter.

SEATTLE, Wash.—Until Feb. 15, 10 A. M., bids will be received by W. A. Gaines, city purchasing agent, 511 County-City Bldg., to furnish 2 pumping units for 17th Avenue N. E. pipe line. Specifications obtainable from above office.

SONOMA, Sonoma Co., Cal.—City trustees vote to hold bond election March 7 to authorize issuing of \$33,000 bonds to construct municipal water system.

Ordinance No. 185 calling special election introduced, and adjournment taken until Feb. 8 for second reading

Hussey & Belcher, Syndicate Bldg., Oakland, prepared the plans, which calls for two wells 200-ft. or more deep, 250 GPM capacity; two electric pumps; a 400,000-gal. reinforced concrete reservoir to be located at West First Street at the top of the hill near the N. W. P. Railroad, involving approximately 800 lbs. reinforcing steel and 150 cu. yds. concrete; a pump house and work shop. Project will include 265 services with meter connections; hydrants will remain as they are and will be re-connected.

STREETS AND HIGHWAYS

HERMOSA BEACH, Los Angeles Co., Cal.—Plans are being made by Hermosa Beach for the improvement of Railroad Drive from Pier Ave. to the Manhattan Beach city limits, a 20,080 job, according to Mayor L. R. Cotton. The street will be widened, graded and paved with labor furnished from the County Stabilization Department. The city has under way a \$10,000 park improvement project on an 8-acre tract between 8th and 10th Sts. Plans provide for tree planting, installation of playground apparatus and other recreational features. Mayor Cotton also announced that the city will endeavor to get work started soon on opening Gould Lane from Prospect Ave. to Sepulveda Blvd., a \$12,000 project. The county has been asked to furnish funds from the gasoline tax to complete the work.

ROCKWELL FIELD, San Diego Co., Cal.—Griffith Co., 502 L. A. Railway Bldg., Los Angeles, submitted the low bid to the Constructing Quartermaster, Rockwell Field, Coronado, Jan. 31, at \$4100 for grading and oiling of landing field, 310x1040 ft., at Rockwell Field. The Constructing Quartermaster recommended that the contract be awarded to the low bidder. The other bids were:

Miracle Company	\$4239.00
E. Penn Watson, Jr.....	4298.64
Walter Treptke	4969.26
Geo. Gardner & Son	4987.00
R. E. Hazard Contr. Co.....	5454.00
V. R. Dennis Const. Co.....	5500.00
Ygleisas Brothers	6743.00

COCHISE COUNTY, Ariz.—H. J. Hagen, Globe, Ariz., at \$57,416.50 submitted low bid to U. S. Bureau of Public Roads, Phoenix, for 2.793 mi. grading Section C and a portion of Section B, Chiricahua National Monument Highway.

SEATTLE, Wash.—Southern California Const. Co., 219 Insurance Bldg., Seattle (also Los Angeles) desires sub-bids on masonry, wall and culvert work in connection with the \$146-142 grading of 2.626 miles East Side Highway recently awarded them by the Bureau of Public Roads.

LOS ANGELES, Calif.—J. E. Hadcock, Ltd., 357 N Chester Ave., Pasadena, at \$138,119.08 awarded contract by U. S. Bureau of Public Roads to grade Section C of Route 62, San Gabriel National Forest Highway, Angeles National Forest.

ORANGE COUNTY, Cal.—Griffith Co., 502 Los Angeles Railway Bldg., Los Angeles, at \$85,420.15 awarded contract by State Highway Commission to grade and pave with Portland cement concrete 5.6 mi. between Irvine and Tustin.

SAN BERNARDINO COUNTY, Cal.—United Concrete Pipe Corp., Box 1, Station H, at \$309,386.30 awarded contract by State Highway Commission to grade and pave with Portland cement concrete 10.2 miles bet. Vineyard Ave. and Sierra Ave.

PHOENIX, Ariz.—Gravel surfacing of approximately 30 miles of alleys in Phoenix will be undertaken by the city with co-operation of the Reconstruction Finance Corporation through its unemployment relief program.

RIVERSIDE COUNTY, Cal.—Oswald Bros., 366 E. 58th St., Los Angeles, at \$171,115.90 awarded contract by State Highway Commission to grade and pave with asphaltic concrete about 11 mi. between Edom and Indio.

IMPERIAL COUNTY Cal.—B. G. Carroll, 4396 Maryland St., San Diego, at \$20,856.45 awarded contract by State Highway Commission to grade and pave with Portland cement concrete about 0.4 ml. at Brawley.

DUNSMUIR, Siskiyou Co., Cal.—A. Young, 345 Main St., Yreka, at \$3,395 awarded contract by U. S. Lighthouse Service, Dept. of Commerce, for clearing and leveling runway for 3,300 ft. and a minimum width of 250 ft. at the new Dunsmuir airport. Bids were taken January 24 from a selected list of bidders.

SAN FRANCISCO—Until Feb. 24, 3 P. M., bids will be received by Public Utilities Commission, Room 225, City Hall, to construct pipe line in the Bay Crossing Division of the Hetch Hetchy Aqueduct, H. H. W. S. Contract No. 137, estimated cost \$200,000, under two alternate propositions:
 (A) steel pipe line and accessories;
 (B) steel cylinder reinforced concrete pipe line with short lengths of steel pipe and accessories.

HUMBOLDT COUNTY, Cal.—Hemstreet & Bell, 501 11th St., Marysville, at \$84,671.05 awarded contract by U. S. Bureau of Public Roads for 7.507 miles of grading Unit 2-C, California Federal Lands Project No. 1, Hoopa Valley Indian Reservation.

WENATCHEE, Washington—Chelan county commissioners will receive bids until Feb. 15 for \$200,000 general obligation bonds; to refund a road bond issue; also for relief fund.

OAKLAND, Cal.—\$100,000 of the \$3,000,000 relief bonds recently voted will be used for highway construction, which will start in about two weeks. George Wilhelm, County Engineer.

BUILDING NEWS

APARTMENTS

To Take Segregated Bids In One Week.

APARTMENTS Cost, \$100,000
SAN FRANCISCO. Pacific Avenue.

Seven-story Class A steel frame, concrete and brick apartments (70x127 ft.) two elevators, steam heating system, garbage incinerator, tiled baths and kitchens, hardwood floors, electric refrigeration, etc.

Owner—Bargene Realty Co., Monadnock Bldg., San Francisco.

Architect—Chas. E. J. Rogers, Phelan Bldg., San Francisco.

Structural steel bids are now being taken and segregated bids on all other portions of the work will be taken by N. Ayer, % Bargene Realty Co. in about one week.

CHURCHES

Preliminary Plans Prepared.

ADDITION Cost, \$50,000
VALLEJO, Solano Co., Cal. Florida and Sacramento Sts.

Extension to St. Vincent's Church (seating capacity to be increased to 400); repairs to floors, windows, pews and roof; two-story rectory (brick and steel construction).

Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco (St. Vincent's Church), Father O. P. Naselli, Pastor.

Architect—Arnold Constable, 5801 Market St., San Francisco.

Contract Awarded.

ALTERATIONS Cost, \$2500
BERKELEY, Alameda Co., Calif. 1918 Blake Street.

Alterations to church.
Owner—Swedish Free Church, premises.

Architect—Not Given.
Contractor—H. Carlson, 1619 Parker St., Berkeley.

FACTORIES AND WAREHOUSES

Preliminary Plans Completed

SAN FRANCISCO, Calif.—
EXTENSION Cost, \$—

Extension of wharf shed for Dock No. 2 (150x92 feet) steel frame, five rolling doors, copper beaming monitor sash, copper gutters; out side walls of reinforced concrete.

Owner—United States Government.
Plans by Constructing Quartermaster, Fort Mason, San Francisco.

Preliminary plans have been forwarded to Washington for approval.

Low Bidders.

FACTORY
SEATTLE, Wash. Sixth Ave. S. and Alaska Street.

Three-story concrete, brick and mill macaroni factory (91x105); brick facing, machinery and equipment.

Owner—A. F. Ghiglione & Sons, Inc.
Architect—B. Marcus Priteca, Pantages Bldg., Seattle, Wash.

General Work—Walter Construction Co., % architect.....\$14,435

Plumbing & Heating—Massart Bros., 319 North 85th St., Seattle.... 4,165
Bids held under advisement.

Contracts Awarded.

ADDITION Cost, \$—
AVON, Contra Costa Co., Cal.
Addition to refinery (structural steel and hollow tile construction).

Owner—Associated Oil Co., 79 New Montgomery St., San Francisco.

Plans by Eng. Dept. of Owner.

Treating Plant—Dinwiddie Constr. Co. Crocker Bldg., S. F., at \$9000.

Pumping Plant—Lindgren & Swinerton, Inc., 1723 Webster St., Oakland, at \$6000.

OAKLAND, Calif.—Nat Lena, 1174 19th St., Oakland, at \$15,695 awarded contract by City of Oakland Port Commission to recondition floors in Warehouse 'D' outer harbor.

Preparing Working Drawings.

PRINTING PLANT Cost, \$100,000
SAN FRANCISCO. Washington Street near Montgomery St. (125x127 ft.)

Two-story reinforced concrete printing plant.

Owner—Edward Barry Co., 32 Clay St., San Francisco.

Architect—H. A. Minton, 525 Market St., San Francisco.

Bids will be asked shortly.

February 7, 1933

Contract Awarded.

DEHYDRATOR Cost, \$25,000
FARMINGTON, Tulare Co., Cal.
Dehydrating plant (first unit).

Owner—Planters Packing Corp., New York (Frank E. Bowden, 2011 Clay St., Fresno, Rep.)

Plans by Engineering Dept. of Owner.
Contractor—Fulton's Inc., 301 Broadway, Fresno.

OAKLAND, Calif.—W. P. Koetitz, 2235 E 7th St., Oakland, at \$650 submitted low bid to City of Oakland Port Commission for repairs to fender system at the Grove Street Terminal.
Following bids received:

W. P. Koetitz, Oakland.....	\$ 650
Healy-Tibbitts Const. Co., S. F.....	656
Duncanson-Harrelson Co., S. F.....	725
A. W. Kitchen, S. F.....	1,047
M. B. McGowan, S. F.....	1,454
Clinton Const. Co., S. F.....	1,600

Bids held under advisement.

WASHINGTON, D. C.—Bids are being received by Bureau of Yards and Docks, Navy Department, Washington, D. C., for storehouse extension at Pearl Harbor, T. H. Specification No. 7085. Date of opening bids not yet

GARAGES AND SERVICE STATIONS

Contract Awarded.

SERVICES STATION Cost, \$6000
OAKLAND, Alameda Co., Cal. No. 350 Grand Avenue.

One-story steel service station and one story steel super service station.

Owner—Associated Oil Co., 2395 Webster St., Alameda.

Architect—Masten and Hurd, 233 Post St., San Francisco.

Contractor—C. N. Peterson, 1211 E-34th St., Oakland.

GOVERNMENT WORK AND SUPPLIES

ALAMEDA, Alameda Co., Calif.—General Fireproofing Co., 534 4th St., San Francisco, at \$3,323.13 submitted low bid to Bureau of Public Roads, San Francisco, for furnishing and installing metal shelving, counters and bins in the Bureau of Public Roads and Administration Buildings at Government Island, Alameda, involving 62,500 lbs. metal shelving, counters and bins, and 2,500 lbs. metal counter tops.

PANAMA CANAL ZONE—Santa Cruz Portland Cement Co., Crocker Bldg., San Francisco, at \$704,500

awarded contract by General Purchasing Office, Washington, D. C., to furnish 350,000 bbls. Portland cement for delivery at Cristobal or Balboa, C. C., under Schedule No. 2819.

OAHU, T. H.—Following are additional prospective bidders who have procured plans for fencing, etc., at the Naval Ammunition Depot, Oahu, T. H., under Specification No. 6938. Work involves approximately ten miles of combination galvanized wire fabric and barbed wire fence with metal posts, with certain repairs to the existing stone wall. Bids will be opened February 21st by the Commandant, 14th Naval District, Pearl Harbor, T. H.

Anchor Post Fence Co., 460 5th St., San Francisco.

Pacific Coast Steel Corp., 20th & Illinois Sts., San Francisco.

Owner To Take Bids Shortly.

STORE Cost, \$10,000
MONTEREY, Monterey, Calif., Del Monte Avenue.

One-story concrete store (70x25) tile roof, plate glass front, etc.

Owner—Mrs. L. R. Bussey, 518 Light-house Ave., Monterey.

Plans by A. McBain, 2nd and Mission Sts., San Francisco.

Lessee—American Railway Express Co., 2nd and Mission Streets, San Francisco.

WASHINGTON, D. C.—Until February 28, bids will be received by Treasury Department, Washington, D. C., for complete elevator plant in connection with the Federal Building to be erected in the Civic Center, San Francisco, for the U. S. Government.
Following have secured plans:
Pacific Elevator & Equipment Co., 45 Rausch St., San Francisco.
Richards-Wilcox Mfg. Co., Aurora, Illinois.

WASHINGTON, D. C.—Franburg & Co., 3220 Carroll Ave., Chicago, Ill., at \$490 awarded contract by Treasury Department for furnishing and installing interior lighting fixtures in the U. S. Post Office at Monterey. W. O. Raiguel Hotel Del Monte, Monterey, Architect.

WASHINGTON, D. C.—Edwin F. Guth, Jefferson and Washington Aves., St. Louis, Mo., at \$700 awarded contract by Treasury Department for furnishing and installing interior lighting fixtures for the Post Office Building at Palo Alto.

WASHINGTON, D. C.—Until March 8, bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., for freight elevators at the Naval Operating Base, Pearl Harbor, T. H. Specification No. 7122.

Refrigeration Contract Awarded.
HOSPITAL BLDGS

Cost, Price, \$898,810
SAN FRANCISCO. Fort Miley.

Six-story reinforced concrete hospital (300 beds) 3-story concrete administration building, nurses' home, garage, storehouse, laundry, etc., (prepared roof.)

Owner—United States Government.
Plans by U. S. Veterans' Administration Veterans' Hospital, Palo Alto.
Contractor—Herbert M. Baruch Corp., 625 South Olive St., Los Angeles.

Refrigeration—Kohlenberger Machine Co., York, Pa., at \$18,510.

LONG BEACH, Los Angeles Co., Cal.—Until Wednesday, March 1, bids will be received by the Custodian, U. S. post office, Long Beach, for platform beam scales.

MONTEREY, Calif.—Herring-Hall-Marvin Safe Co., 214 California Street, San Francisco, submitted low bid to Treasury Dept., Division of Supply, at \$661.67 for a safe for the Monterey post office. (Other bids were: Mosler Safe Co., \$700; York Safe & Lock Co., \$750.)

Bids Wanted—To Close Feb. 28, 3 P. M.

REFORMATORY Cost, \$580,000
EL RENO, Oklahoma.

Mess hall and school buildings at U. S. Federal Southwestern Reformatory.

Owner—United States Government.
Plans by Supervising Architect, Treasury Dept., Washington, D. C.

Plans obtainable from above office upon deposit of \$15.

POST OFFICE Cost, \$530,000
SAN DIEGO, San Diego Co., Cal. E Street, between 8th and 9th.

Two-story and basement steel frame masonry post office (190x150 ft.) granite and terra cotta exterior, metal windows, doors and skylights, bronze entrance doors, marble, tile and terrazzo work, steam heat, vaults, loading platforms, etc.

Owner—United States Government.
Architect—Wm. T. Johnson, San Diego Trust & Savings Bank Bldg., San Diego.

WASHINGTON, D. C.—Frink Corp., Long Island City, New York, at \$330 submitted low bid to Treasury Department, for illuminated signs for the post office building at Berkeley, Calif. Second low bid was submitted by Scott-Buttner Electric Co., Oakland, at \$496.

Complete list of bids will be published shortly.

WASHINGTON, D. C.—Shaw Elec. Crane Co., Muskegon, Michigan, at \$20,596 awarded contract by Bureau of Yards and Docks Navy Department, for eight monorail electric traveling hoists and trolley beams in the hangar at the Naval Air Station, Sunnyvale, Calif. Specification No. 7170.

Contracts Awarded.

ADDITION Cost, \$50,000
SAN FRANCISCO, Presidio.

Three-story reinforced concrete addition to headquarters building (85 feet), flat roof, passenger elevator, plumbing, hot water heating system, to contain the present plant.

Owner—United States Government.
Plans by Constructing Quartermaster, Port Mason, San Francisco.

General Work

Meyer Bros., 727 Portola Drive, at \$23,742.

Plumbing and Heating

Skelly & Kohler, 1344 Ninth Ave., at \$2280.

Electrical

Lynn & Heffernan, 114 Ashton St., at \$782.

Heating

George Rehn, 1919 Mission St., at \$2105.

Additional Prospective Bidders.

OFFICERS' QTRS. Cost, \$—
SAN RAFAEL, Marin Co., Cal. Hamilton Field.

Twelve sets of officers' quarters (two story and basement hollow tile and stucco structures; tile roof, cast stone, steel casement windows, gas fired hot water heating system, linoleum, plumbing, electrical work, etc.)

Owner—United States Government.
Plans by Constructing Quartermaster

Following are additional prospective bidders. Bids open February 15:

Leo Epp, 2201 Pacific Ave.
Russell & Irwin, New Britain, Connecticut.

Redwood Mfg. Co., Hobart Bldg.
Pacific Coast Steel Co., 20th and Illinois Sts.

Walter C. Kinder, Napa.
Mangrum & Holbrook, 1235 Mission St.

San Francisco Constr. Co., 3159 Fillmore St.

Meyer Bros., 747 Portola Drive.
F. C. Amoroso & Sons, Wallace and Keith Sts.

MacGruer & Co., 266 Tehama St.
Crane Co., 301 Brannan St.

T. I. Strand, 471 Colon St.
G. H. Armstrong, 2890 Howard St.
J. H. Kruse, 23rd and Shotwell Sts.
Atlas Electric Engr. Co., 343 4th St.
T. B. Strand, 1880 Pacific Ave.

WASHINGTON, D. C.—Until March 8, bids will be received by the Bureau of Yards and Docks, Navy Department, Washington, D. C., to remove four 250-hp. boilers, two boiler feed pumps, feed water heater, certain walkways, piping and accessories and their replacement with three 500-hp. water tube boilers including foundations, setting, oil-burning units, soot blowers, deaerating feed water heater, boiler feed pumps, boiler appurtenances, walkways, alterations to breeching and complete piping systems and accessories, at the naval operating base, San Diego. Spec. 7171. Deposit of \$10 required for plans.

WASHINGTON, D. C. — Following have secured plans for the purpose of submitting bids to the Treasury Department, Washington, D. C., on Mar. 7 for the construction of the masonry inspection station to be erected at Tecate, San Diego County, Calif. Estimated cost, \$50,000.

Associated Constructors, Inc., 1226 S. La Brea Ave., Los Angeles.

W. F. Jackson Co., Inc., Denrke Bldg., Washington, D. C.

Herbert M. Baruch Corp, 265 South Olive St., Los Angeles.

Mechanical Engineering Service, 1315 H St., N. W., Washington, D. C.

Prospective Bidders.

BUILDINGS, ETC. Cost, \$—
PORT ORFORD, Oregon.

Large dwelling to house officers' quarters, etc., laundry, storm clothes room, storage rooms, toilets, showers, etc.; two-story and basement frame construction; frame boat house (60x36 ft.) 288 launchway, concrete piers and trackage for life boats; frame garage (46x24 ft.); two-story cottage (34x27 ft.); reinforced concrete reservoir, 14x12 ft.; pump house (10x12 ft.); water supply system, standard look out tower, etc.

Owner—United States Government.
Plans by Coast Guard Headquarters, Washington, D. C.

Ernest S. Gwinn, 515 Central Bldg., Seattle, Wash.

P. Burdin, Port Orford, Wash.
F. C. Dillard, Medford, Oregon.

Wm. Wills, 1529 8th Ave., W., Seattle, Wash.

BOULDER CITY, Nev.—Until March 1, 10 A. M., (postponed from Feb. 3, 10 A. M.) bids will be received by U. S. Bureau of Reclamation, Denver, Colo., to furnish and deliver f. o. b. cars at the factory shipping point, three, four or five 115,000-H.P. vertical shaft, hydraulic turbines with or without butterfly type shutoff valves; one or two 55,000-H.P. vertical shaft hydraulic turbines, etc., for installation in the Hoover power plant, Boulder Canyon project, Arizona-California-Nevada. All apparatus will be installed by the Government. Spec. No. 540, obtainable from above; also at Boulder City, Nev., or

Washington, D. C. No charge to prospective bidders, \$2, not returnable, to others.

WASHINGTON, D. C.—Until March 8, bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., for painting coal trestle, at Pearl Harbor, T. H. Specification No. 7286.

Contract Awarded.

QUARTERS Cont. Price, \$87,597
SAN RAFAEL, Marin Co., Cal. (Hamilton Field).

Eight double sets of non-commissioned officers' quarters (two-story and basement, hollow tile and stucco structures, tile roof, etc.)

Owner—United States Government.
Plans by Constructing Quartermaster.

Hamilton Field (Marin Meadows), Bombing Base, San Rafael.

Contractor—Frank J. Reilly, 6350 Fulton St., San Francisco.

Contracts awarded on items 1, 2 and 7.

MARCH FIELD, Riverside, Calif.—War Department, Office of the Quartermaster General, Washington, D. C., is preparing plans for additional buildings to be erected at March Field. They are: Enlisted men's barracks for hospital to cost \$22,500; isolation ward for hospital to cost \$10,800; and officers' mess building to cost \$45,000. It is possible that construction of the officers' mess building may be deferred for several months.

WASHINGTON, D. C.—As previously reported, Herman Lawson, 465 Tehama St., San Francisco, at \$21,275 awarded contract by Bureau of Yards and Docks, Navy Dept., Washington, D. C., for extension of existing services to the mooring circles, including motor-driven gasoline pumps, gasoline storage tanks, pump pits, light, power and telephone manholes; transformers; electric apparatus and all piping, wiring and accessories at the Naval Air Station, Sunnyvale, Calif. Specifications No. 7161. Following is complete list of bids:

Herman Lawson, San Francisco.....	\$21,275
F. W. Snook Co., S. F.....	22,193
Bennett & Taylor, S. F.....	22,246
Alta Electric Co., S. F.....	22,400
Baldwin & Butler, Berkeley.....	23,290
Butte Elec. Equip. Co., S. F.....	23,346
Pittsburgh-Des Moines Steel Co.	
Pittsburgh, Pa.	24,444
Torrance Electric Contracting Co., San Francisco.....	26,000
Bay City Iron Works, S. F.....	27,000
Severin Electric Co., S. F.....	28,000
H. Sneed, Berkeley.....	29,555

WASHINGTON, D. C.—Murch Bros. Constr. Co., Railway Exchange Bldg., St. Louis, Mo., at \$97500 awarded contract by Treasury Department for construction of the Post Office Building to be erected at Chehalis Washington, for the U. S. Government.

WASHINGTON, D. C.—The following have procured plans for the purpose of submitting a bid to the Bureau of Yards and Docks, Navy Department, Washington, for furnishing and installing air conditioning system at Naval Operating Base (Fleet Air Station) Pearl Harbor, T. H. Spec. No. 7165. Bids open Feb. 15:
Bahnon Co., Box 1015, Winston-Salem, N. C.
American Factory, Ltd., San Francisco.

David C. Jones, 627 N Martel Street, Hollywood, Calif.

Carbondale-New York Co., Inc., 175 Christopher Bldg., New York City.

Emil Brown & Co., 300 E 9th St., Los Angeles.

W. P. Thurston Co., P. O. Box 2089, Richmond, Va.

American Sheet Metal Corp., Colley Ave., and 28th St., New York City.

WALLA WALLA, Wash.—Until Feb. 27, 2:30 P. M., bids will be received by Veterans' Administration at the office of the Supervising Superintendent of Construction, Veterans Administration Hospital, Palo Alto, for installing linoleum on floors, rubber stair tread covering and metal nosings in Building No. 63 at the Veterans' Administration Hospital, Walla Walla. Work consists of preparing cement, tile and wood floors to receive new linoleum, furnishing and installing linoleum in rooms indicated on drawings. Plans and specifications available from above office.

MARE ISLAND, Cal.—Until Feb. 21, 11 A. M., bids will be received by the Public Works Officer, Navy Yard, Mare Island, for moving frame quarters and other buildings at the U. S. Navy Yard, Mare Island. Specification No. 7229. Specifications available from above office upon deposit of \$5. (616) 7

OAHU, T. H.—Until March 8 (date postponed from February 21), bids will be received by the Commandant, Fourteenth Naval Ammunition Depot, Pearl Harbor, T. H., for furnishing telephone cables at the Naval Ammunition Depot, Oahu, T. H. Work involves the installation of five pair guaranteed cable underground for a total length of seven miles. Specification No. 7023. Following will submit bids:

E. T. Thurston, 57 Post St., San Francisco.
American Factors, Ltd., Matson Bldg., San Francisco.
Theo. H. Davies Co., Matson Bldg., San Francisco.

Plans and specifications available from Commandant, 12th Naval District, 100 Harrison Street, San Francisco, upon deposit of \$10.

WASHINGTON, D. C.—Until March 3, bids will be received by Quartermaster Office Department, Quarry Heights, Canal Zone, for construction of runways, connecting warming up aprons; storm drain-opening, etc., at Albrook Field, Canal Zone. (619) 7

SUNNYVALE, Santa Clara Co., Cal.—Following are additional contractors, et al. who have procured plans for the purpose of submitting bids to the Bureau of Yards and Docks, Navy Department, Washington, D. C., on Feb. 15 for a balloon hangar at the Naval Air Station, Sunnyvale. Work includes concrete, steel and iron work, steel doors and windows, built-up roofing, metal studding and lathing, carpentry, stucco, marble work, carpentry and joinery, and plumbing and electrical systems; Spec. No. 7027:

Herrick Iron Works, 18th and Campbell Sts., Oakland.

F. J. Early, Jr., 369 Pine St., San Francisco.

Westinghouse Electric & Mfg. Co., 371 Sutter St., San Francisco.

LeRoy Bldg. Service, 165 Jessie St., San Francisco.

Fire Protection Products Co., 1101 16th St., San Francisco.

Golden Gate Iron Works, 1541 Howard St., San Francisco.

A. H. Vogt, Call Bldg., San Francisco.

Crane Co., 301 Brannan St., San Francisco.

Moore Drydock Co., Balfour Bldg., San Francisco.

San Francisco Const. Co., 3159 Fillmore St., San Francisco.

Butte Elec. & Equip. Co., 2014 Folson St., San Francisco.

J. F. Hunt, Los Angeles.

Pacific Coast Engr. Co., foot of 14th St., Oakland.

NePage-McKenny, 128 10th St., Oakland.

J. A. Fazio, 402 Castro St., Oakland.

Enterprise Foundry, 2302 19th St., San Francisco.

General Electric Supply Co., 1201 Bryant St., San Francisco.

Wallace Bridge & Steel Co., Pacific Coast Steel Co., 20th and Illinois Sts., San Francisco.

Soule Steel Co., 1750 Army St., San Francisco.

Link Belt Co., 400 Paul Ave., San Francisco.

Leo Epp, 4745 Geary St., San Francisco.

George Petersen, San Leandro.

Pioneer Const. Co., 2616 San Jose Ave., San Francisco.

Ray Cook Marble Co., 1535 Powell St., Oakland.

C. L. Wold, 4416 Fulton Street, San Francisco.

SUNNYVALE, Santa Clara Co., Cal.—Following are additional contractors, et al. who have procured plans for the purpose of submitting bids to the Bureau of Yards and Docks, Navy Department, Washington, D. C., on Feb. 23 for constructing three concrete garages at the Naval Air Station, Sunnyvale. Work includes swinging and sliding doors, wire mesh partitions, steel windows, built-up roofing and sheet metal work, water and electrical services, etc. Specification No. 7178:

Bruce Delhi.

C. L. Wold, 4416 Fulton Street, San Francisco.

LeRoy Bldg. Service, 165 Jessie St., San Francisco.

San Francisco Const. Co., 3159 Fillmore St., San Francisco.

Michel & Pfeffer Iron Works, Harrison and 10th Sts., San Francisco.

Contract Awarded.

ALTERATIONS Cost, \$2000
OAKLAND, Alameda Co., Cal. 24th and Telegraph Avenues.

Alterations to ground floor of four-story building for stores.

Owner—Public Food Stores.

Architect—Bertz, Winter & Maury, 210 Post St., San Francisco.

Contractor—C. H. Thrans, 28 Home Place, Oakland.

WASHINGTON, D. C.—W. F. Wahrrenberger, 3924 Henry St., San Diego, at \$68,866 awarded contract by the Constructing Quartermaster, Rockwell Field, for constructing bachelor officers' quarters at Rockwell Field, Coronado. Quarters will be housed in one building which will be a U-shaped structure, extreme dimensions, 171x 225; 16 suites each. Contract price was previously reported at \$239,400, which was in error.

WASHINGTON, D. C.—Otis Elevator Co., Washington, D. C., at \$10,987 awarded contract by Treasury Department for elevators to be installed in the Forest Service Bldg., Ogden Utah.

WASHINGTON, D. C.—As previously reported, Robert E. McKee, 1128 Central Bldg., Los Angeles, at \$121,850 for terra cotta and \$130,250 for tufa submitted low bid to Treasury Department, Washington, for the construction of a two-story masonry and steel Federal Building to be erected at Yuma, Ariz. Building will house the post office, immigration and custom departments. Plans prepared by Architect Roy Place, 70 N Stone Ave., Tucson, Ariz.

SAN DIEGO, Calif.—As previously reported, until 11 A. M., March 8, bids will be received by the Bureau of Yards and Docks, Navy Department, Washington, D. C., for steel floating dock, 333 ft. long by 50 ft. beam, having a closed bow and a hinged gate at the stern, and including oil engine generator, pumps, piping and electric power and light systems, for the Naval Operating Base

(Destroyer Base) San Diego. Spec. No. 6532. Plans obtainable from the above on deposit of check or postal money order for \$100, payable to the Chief of the Bureau of Yards and Docks. The estimated cost is \$425,000.

WASHINGTON, D. C.—The following are additional contractors who have procured plans for the purpose of submitting bids to the Treasury Department, Washington, D. C., on February 15 for the construction of the one-story and basement Class A concrete and steel post office building in Visalia for the U. S. Government. W. D. Coates, Jr., Rowell Bldg., Fresno, architect:

McCarthy Bros. Const. Co., Roosevelt Bldg., St. Louis, Mo.

James McHugh Sons, Inc., 6449 S Park Ave., Chicago.

Fisher & McNulty Corp., 505 Mattei Bldg., Fresno.

Schuler and McDonald, Inc., 1723 Webster St., Oakland.

Peck Const. Co., Kansas City, Mo.

Columbia Engr. Co., Equitable Bldg., Baltimore, Md.

Rice Const. Co., 30 N Dearborn St., Chicago.

Standard Const. Co., 622 Manida St., Bronx, New York.

Chas. Weitz's Sons, 713 Mulberry St., Des Moines, Iowa.

Andy Sordal, 722 Magnolia Avenue, Long Beach, Calif.

Bannister - Field Co., 4101 Goodwin Ave., Los Angeles.

Orndorff Co., 1033 N Cahuenga Blvd., Los Angeles.

W. J. Cchs, American Trust Bldg., San Jose, Calif.

WASHINGTON, D. C.—The following are additional contractors who have procured plans for the purpose of submitting bids to the Treasury Department, Washington, D. C., on February 17 for the construction of a two-story and basement Class A post office building in San Jose for the U. S. Government. Ralph Wyckoff, San Jose National Bank Bldg., San Jose, architect. L. H. Nishkian, 525 Market St., San Francisco, mechanical engineers. Cost, \$300,000:

Alfred H. Vogt Co., 250 11th Street, San Jose.

James McHugh Sons, Inc., 6449 S Park Ave., Chicago.

Carl N. Swenson Co., 355 Stockton Ave., San Jose.

Wm. MacDonald Const. Co., Syndicate Trust Bldg., St. Louis.

WASHINGTON, D. C.—Screw Machinery Products Corp., 1012 Eddy St., Providence, R. I., has procured plans for the purpose of submitting a bid to the Bureau of Yards and Docks, Navy Department, Washington, D. C., February 15 for two automatic telephone systems complete, with central office equipment, wiring, storage batteries, charging rectifier and connections to existing lines at the Naval Ammunition Depot, Oahu, T. H. Spec. No. 7020.

WASHINGTON, D. C.—Westinghouse Electric Elevator Co., 166 7th St., San Francisco, at \$19,940 awarded contract by Treasury Department, for furnishing and installing a complete elevator plant in the U. S. post-office and court house, located at 7th and Mission Sts., San Francisco. Geo. Kelham, 315 Montgomery Street, San Francisco, architect.

WASHINGTON, D. C.—As previously reported low bid was submitted by the Cincinnati Fly Screen Co., Gest and Evans Sts., Cincinnati, at \$2,757 to Bureau of Yards and Docks, Navy Department, for providing door, window and transom screens at the Naval Air Station, Sunnyvale. Spec. No. 7076.

BOULDER CITY, Nev.—Westinghouse Elec. & Mfg. Co. at \$334,737 submitted low bid to Bureau of Reclamation, Denver, Colo., to furnish 8 welded plate-steel cylinder gates; Goslin-Birmingham Corp. at \$56,000 submitted low bid for tunnel liners, as follows:

- (1) entrance liners for intake tunnel;
- (2) cylinder gates for same;
- (3) combination bid on (1) and (2).

Bidders follow:

- (A) Goslin-Birmingham Corp.
- (B) Marion Mach. Foundry & Supply Company.
- (C) Baldwin & Southwark Corp.
- (D) Westinghouse Elec. & Mfg. Co.
- (E) American Engineering Co.
- (F) Reading Iron Company.
- (G) Allis-Chalmers Mfg. Co.
- (H) Babcock & Wilcox Co.
- (I) Continental Roll & Steel Foundry.
- (J) Hardie-Tynes Mfg. Co.
- (K) Consolidated Steel Corp., Ltd.
- (L) The Aldrich Pump Co.
- (M) Mesta Machine Co.
- (N) Stacey-Schmidt Mfg. Co.
- (O) Bethlehem Steel Co.
- (P) Traylor Eng. & Mfg. Co.
- (Q) Newport News Shipbuilding and Drydock Corp.
- (R) Bethlehem Shipbuilding, Corp.
- (S) J. W. Beam.
- (T) Lake Erie Engineering Corp.
- (U) American Locomotive Co.
- (V) General Electric Co.

Bid prices follow:

	(1)	(2)	(3)
(A)	\$ 56,000	\$450,000	\$498,000
(B)	74,120	.....	.....
(C)	79,900	408,000	485,000
(D)	82,675	334,737	412,316
(E)	88,220	.....	.....
(F)	88,429	.....	.....
(G)	89,000	369,000	449,000
(H)	93,232	516,287	609,519
(I)	93,242	.....	.....
(J)	95,000	405,000	485,000
(K)	98,000	396,200	486,000
(L)	98,900	.....	.....
(M)	102,500	442,000	544,000
(N)	103,000	.....	.....
(O)	105,268	545,051	636,086
(P)	106,873	.....	.....
(Q)	111,150	404,500	.....
(R)	115,000	.....	.....
(S)	120,000	.....	.....
(T)	120,835	.....	.....
(U)	131,000	436,893	565,000
(V)	154,400	592,600	747,000

Plans Being Prepared.

ALTERATIONS Cost, \$2000
SAN JOSE, Santa Clara Co., Cal. No. 233 W. Santa Clara St.

Alterations to Hotel (ornamental plaster in lobby, tearing out partitions, maple dance floor in lounge) Owner—De Anza Hotel (H. D. White, Manager).

Plans by Frank Moore, 1132 Glenn Ave., San Jose.

Furnishings will bring the total cost of improvements to approximately \$10,000.

Planned
REMODEL BUILDING Cost \$—
SAN MATEO, San Mateo, Calif., El Camino Real.

Rebuild hospice house.
Owner—20-30 Club.

Architect—E. L. Norberg, 407 Occidental Ave., Burlingame.

WASHINGTON, D. C.—As previously reported, Shaw Electric Crane Co., Muskegon, Mich., at \$20,596 submitted low bid to Bureau of Yards and Docks, Navy Department, for eight monorail electric traveling hoists and trolley beam in the hangar at the Naval Air Station, Sunnyvale. Spec. No. 7170.

Following is complete list of bids:
Shaw Elec. Crane Co., Muskegon, Mich. \$20,596
Harnischfeger Sales Corp., Milwaukee 21,290
Schroder Iron Works, Inc., S. F. 22,737
Dinwiddie Const. Co., S. F. 23,900
Euclid Crane & Hoist, Co., Euclid, Ohio 24,493

Judson Pacific Co., S. F. 27,655
Golden Gate Iron Works, S. F. 28,360
American Eng. Co. Philadelphia 28,892
Detroit Hoist & Machine Co., Detroit 30,200
J. H. Pomeroy & Co., Inc., Mt. View, Calif. 36,800
J. S. Mundy Hoisting Eng. Co., Newark, N. J. 39,100
Bids held under advisement.

Sub-Bids Being Taken.
HOSPITAL BLDGS.
Cont. Price, \$898,810

SAN FRANCISCO. Fort Miley.
Six-story reinforced concrete hospital (300 beds) 3-story concrete administration building, nurses' home, garage, storehouse, laundry, etc., (prepared roof).

Owner—United States Government.
Plans by U. S. Veterans' Administration Veterans' Hospital, Palo Alto Contractor—Herbert M. Baruch Corp., 625 South Olive St., Los Angeles.

Mr. Paul Neal, representative of the Baruch Corp., is at the Gaylord Hotel, 620 Jones St., San Francisco, and is receiving sub-bids on all portions of the work. As previously reported the plumbing and heating contract awarded to Bryce Plumbing & Heating Co., Florence, South Carolina, at \$252,170.

WASHINGTON, D. C.—Until February 20, 3 P. M., bids will be received by Treasury Department for painting plaster, etc., in the U. S. Post Office, Court House, etc., at Havre, Montana.

PEARL HARBOR, T. H.—As previously reported, Hawaiian Dredging Co., 854 Kaahumann St., Honolulu, T. H., at \$35 cu. yd. (approximate total \$100,000) awarded contract by Bureau of Yards and Docks for dredging at the Middle Lock Shoal, Pearl Harbor. Only other bid submitted by Standard Dredging Co., Honolulu, at \$3725 per cu. yd. Spec. No. 7092.

WASHINGTON D. C.—Following are additional contractors who have procured plans for the purpose of submitting bids to the Bureau of Yards and Docks, Navy Department, Washington, on February 15 for furnishing and installing air conditioning system at the Naval Operating Base (Fleet Air Station) Pearl Harbor, T. H. Specification No. 7165:

Bahnsen Co., Box 1915 Winston-Salem, N. C.

American Factors, Ltd., Matson Bldg., San Francisco.

David C. Jones, 627 N. Martel St., Hollywood.

Carbondale-New York Co., Inc., 175 Christopher Bldg., New York City.

Emil Brown & Co., 300 E Ninth St., Los Angeles.

W. P. Thurston Co., P. O. Box, 2089 Richmond, Va.

American Sheet Metal Corp., Colley Ave. and 28th St., New York City.

MARCH FIELD, Riverside Co., Cal.—Until 10 A. M. February 27, bids will be received by Quartermaster Corps, Contracting Officer, March Field, for installing storm drain system and applying seat coat and repairing paved aprons, warm-up areas, and hangar line runway at March Field. Bid bond or guarantee must accompany each bid. Work involves approximately 84,000 sq. yds. of paved area to be treated and repairs, 500 ft. of 12-in. concrete pipe, and reinforced concrete catchbasins with steel grate covers.

SEATTLE, Washington.—University Plumbing and Heating Company, 3939 University Way, Seattle, awarded the contract by Treasury Department, Washington, D. C., to install sprinkler system in the Marine Hospital.

Site Selected.
POST OFFICE Cost, \$—
MADERA, Madera Co., Cal. Sixth and D Streets.
Post office.
Owner—United States Government.
Plans by Supervising Architect, Treasury Dept., Washington, D. C.
Cost not to exceed \$100,000.

Site Selected.
POST OFFICE Cost, \$—
HOLLISTER, San Benito Co., Calif. SW Fifth and Solly Sts.
Post office.
Owner—United States Government.
Plans by Supervising Architect, Treasury Dept., Washington, D. C.
Cost of building not to exceed \$100,000.

Site Selected.
POST OFFICE Cost, \$—
ROSEVILLE, Placer Co., Calif.
Post office.
Owner—United States Government.
Plans by Supervising Architect, Treasury Dept., Washington, D. C.
Cost of building not to exceed \$100,000.

WASHINGTON, D. C.—Berger Manufacturing Co., Canton, O., at \$253.80 submitted low bid to Treasury Department for metal filing cases, counters, etc., to be installed in the Port Angeles, Washington, post office. Following is a complete list of the bids received:

Berger Manufacturing Co., Canton, Ohio	\$253.80
Metal Office Furniture Co., Co., Grand Rapids	311.75
Commercial Office Furniture Co., Washington	347.00
Peerless Steel Equipment Co., Baltimore, Md.	349.00
Globe Wernicke Co., Washington	367.90
Jamestown Metal Equipment Co., Jamestown	382.00
Art Metal Construction Co., Washington	473.00
General Fireproofing Co., Washington	499.00

Bids held under advisement.

WASHINGTON, D. C.—W. F. Wahrenberger, 3924 Henry St., San Diego, at \$239,400 awarded contract by Constructing Quartermaster, Rockwell Field, for constructing bachelor officers' quarters at Rockwell Field, Colorado. Quarters will be housed in one building which will be a U-shaped structure, extreme dimensions, 171x 225 feet; 16 suites each.

ICE AND COLD STORAGE PLANTS

Plans Being Prepared.
ADDITION Cost, \$70,000
SAN FRANCISCO. Channel Street. Extend refrigeration terminal (200,000 cu. yds. floor space); new machinery, piping, etc.
Owner—State of California (Harbor Board).
Engineer—Frank G. White, Ferry Bldg., San Francisco.

POWER PLANTS

Preparing Plans.
SUBSTATION Cost, \$175,000 including equipment
PALMS, Los Angeles Co., Cal. Kincaidine Ave. near Durenga Ave. One-story brick power substation (130 by 50) steel roof trusses, and columns, concrete roof and floor, ruff brick facing, art. stone trim, steel sash, hollow metal doors, etc.
Owner—Los Angeles Bureau of Power and Light.
Plans by Eng. Dept. of Owner.

LOS ANGELES, Cal.—E. F. Scattergood, Chief Engineer, Bureau of Power and Light, has prepared a list of approximate amounts of materials that will be used in the construction of the 271 miles of transmission line from the power plant at Hoover Dam to Los Angeles. In addition to the loan of \$22,800,000, made by the Reconstruction Finance Corp., the Bureau will expend probably \$11,000,000 of its own funds. Including extensions and betterments to be made within the next two years the cost will probably reach \$41,300,000 according to a conservative estimate made by the department.

The proposed transmission line will involve the construction of a double circuit transmission line with a capacity of 215,000 kilowatts at 275,000 volts pressure. Orders for electrical power equipment of special design, costing \$11,500,000, will be ordered as soon as the loan has been approved by the California Supreme Court. The equipment and materials required total about 61,910 tons. Among the items of equipment are:

13,500 tons copper transmission conductor;

1,090 tons copper-steel ground wire; 28,000 tons struc. steel, principally in towers;

1,540 tons insulators; 2,310 tons oil-circuit breakers; 2,150 tons transformers; 1,090 tons synchronous condensers; 2,500 tons underground cable;

The Boulder Canyon power plant will require:

2,450 tons hydraulic turbines, gate valves, etc.;

2,750 tons electric generators; 1,320 tons transformers; 660 tons oil circuit breakers.

The project will necessitate 12,000 carloads of freight handled.

CHIHUAHUA CITY, Mexico.—The Chihuahua state government is considering plans for the construction of an electric light and power plant and water works system at the town of Escandon, Chihuahua. The reported cost of the projects, which would be taken care of by the state, is 250,000 pesos (approx. \$85,000).

LOS ANGELES, Cal.—The proposed \$22,000,000 self liquidating loan to finance the construction of a transmission line from the Hoover Dam to Los Angeles has been approved by engineers for the Reconstruction Finance Corp. Construction of the proposed lines will require two and a half years and require new equipment costing \$14,000,000.

LOS ANGELES, Cal.—Bids for furnishing outdoor type gang-operated disconnect switches, opened by A. J. Holm, City Purchasing Agent, Feb. 1, under Specification No. 2983. The items are:

(1) four 138,000-volt, 600-amp., 3-pole switches;

(2) two 115-volt, 1200-amp., 3-pole switches.

The bids were: Delta Star Electric Co.—(1) \$3080, (2) \$1420. Delivery 60 days. Terms net.

Pacific Electrical Mfg. Co.—(1) \$3825, (2) \$2172. Delivery: switches, less motor controls, 30 days; controls within 45 days. Terms net.

Railway & Ind. Eng. Co.—(1) \$2242.20 (add 3-pole gr. switches, each \$180.75) (2) \$1258.30 (alt. 1 and 2 combined), \$3448; add. \$310 for rail shipment. Delivery 2 weeks. Terms net.

Southern States Equipment Co.—(1) \$2200, (2) \$1200. Delivery by March 1, 1933. Terms, 1% 10 days.

Bowie Switch Co.—(1) \$3680, (2) \$1830 (alt. 1 and 2 combined) \$5475. (If grease boxes are not required deduct \$30 from each unit). Delivery one month. Terms net.

LOS ANGELES, Cal.—Bids for furnishing approximately 2,700,000 pounds of copper cable or approximately 1,700,000 pounds of aluminum cable, in accordance with Specifications No. M-2008, were opened by the Metropolitan Water District Feb. 6. Bids were taken as follows:

COPPER CONDUCTOR

For furnishing f.o.b. cars at Colton, Calif., the following cable:

(1) 211,600 circular mil (4/0 B & S), seven strand copper cable;

- (a) 402,000 lbs.;
- (b) 402,000 lbs.;
- (c) 440,000 lbs.;

(2) 133,225 circular mil (2/0 B & S) do;

- (a) 346,000 lbs.;
- (b) 524,000 lbs. at (f.o.b. point);
- (c) 524,000 lbs. at (f.o.b. point);

(3) 66,564 circular mil (No. 2 B & S) do;

- (a) 32,000 lbs. at (f.o.b. point).

ALUMINUM CONDUCTOR

For furnishing f.o.b. cars at Colton, Calif., the following cable:

(Alternative to Item No. 1)

(4) 336,400 circular mil steel reinf. aluminum cable with vibration dampers;

- (a) 471,000 lbs.;
- (b) 225,000 lbs.;

(Alternative to Item No. 2)

(5) 211,600 circular mil (4/0 B & S) steel reinf. aluminum cable with armor rods;

- (a) 246,000 lbs.;
- (b) 747,500 lbs.

Six bidders submitted bids identical in prices on copper conductor.

The Aluminum Corp. of America submitted the only bid on aluminum conductor.

The bids were:

American Electrical Works, Philipsdale, R. L.—15-day delivery; \$12 charge and credit reels, 1/2 of 1% 10 days.

Anaconda Wire & Cable Co. of Calif. (General Electric Supply Corp., agent)—10-day delivery; \$12 reels; 1/2 of 1% 10 days.

Graybar Electric Co.—15-day delivery; reels, \$12; 1/2 of 1% 10 days.

Phelps-Dodge Corp.—15-day delivery; reels, \$12; 1/2 of 1% 10 days.

Pacific Wire Rope Co.—15-day delivery; reels, \$12; 1/2 of 1% 10 days.

General Cable Corp.—Same.

The prices on copper conductors were: (1) (a) \$7.60 cwt., (b) \$7.60 (c) \$7.60 (2) (a) \$7.60 (b) \$7.60 (c) \$7.60 (3) (a) \$8.35.

Aluminum Co. of America—Delivery, 150,000 lbs. 15 days, balance 30 days; no charge for reels; no discount. The prices were: (4a) \$13.29 cwt.; (4b) \$15.29; (5a) \$11.52; (5b) \$11.52.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

SAN FRANCISCO—Until February 14, 2 P. M., bids will be received by the Trustees of the War Memorial, Veterans' Bldg., Civic Center, for Pipe Trenches for Veterans Building. Plans and specifications available from above office upon deposit of \$10.

SAN FRANCISCO—Herman Lawson, 465 Tehama St., at \$2375 submitted low bid to Trustees of the San Francisco War Memorial for alterations to the sprinkler system in the Veterans' Building, Civic Center. Only other bid was submitted by J. A. Nelson, Inc., at \$3100. Bids held under advisement.

Sub-Contracts Awarded.

AUDITORIUM Cost, \$40,000 PALO ALTO, Santa Clara Co., Cal. Rinconada Park.

Auditorium and theatre (Spanish type) frame, steel and concrete construction.

Owner—City of Palo Alto.

Architect—Birge M. Clark, 310 University Ave., Palo Alto.

Contractor—Wells P. Goodenough, 310 University Ave., Palo Alto.

Glass—Acme Glass Co., 551 Alma St., Palo Alto.

Roofing—C. L. Frost, 2286 El Camino Real, Palo Alto.

Structural Steel—Schrader Iron Wks., 1247 Harrison St., San Francisco.

Ornamental Iron—H. Blebler, 744 High St., Palo Alto.

Steel Sash—Soule Steel Co., 1750 Army St., San Francisco.

Screens—M. Arthur, 532 Emerson St., Palo Alto.

Masonry—Alexander Walker, 950 Roble Ave., Palo Alto.

Ornamental Tile—Robert Tanner, 1111 High St., Palo Alto.

Toilet Stalls—Price Building Specialties Co., 683 Howard St., S. F.

Lumber—Merner Lumber Co., 795 Highway, Palo Alto.

Heating and Sheet Metal—Spangler Sheet Metal Works, 841 Alma St., Palo Alto.

Floor Furnace—Standford Sheet Metal Works, 921 Alma St., Palo Alto.

Reinforcing Steel—W. C. Hauck, 280 San Bruno Ave., San Francisco.

Mill Work—Progress Mill & Lumber Co., Redwood City.

Plumbing—Lee & Sharp, Palo Alto.

Wiring—E. F. Burkhardt, 444 Emerson St., Palo Alto.

Plastering—E. C. Bipham, Palo Alto.

Painting—J. Stroner, 430 Kipling St., Palo Alto.

Steam Shovel Work—J. C. Baker, 108 Bancroft Road, Burlingame.

Excavation work is now under way by the City's unemployed.

LOS ANGELES, Cal.—Until Feb. 28, 2 P. M., bids will be received by State Department of Public Works, Division of Architecture, Public Works Bldg., Sacramento, for furnishing and installing one passenger elevator in the Los Angeles State Bldg.

RESIDENCES

Complete Bid Listing.

RESIDENCE Cost \$— ROSS, Marin Co., Cal.

Two-story and basement frame and stucco residence (7 rooms, 3 baths) shingle roof, gas hot air heating system, tiled baths, hardwood floors, etc.

Owner—Howard Allen, San Anselmo.

Architect—N. W. Sexton, deYoung Bldg., San Francisco.

Low Bidder—DeLuca & Son, 666 Mission St., San Francisco, at \$5729.

Following is complete list of bids:

- DeLuca & Son, San Francisco.....\$5729
- Leach & Wallace, San Anselmo..... 5790
- Wm. Dwyer, San Anselmo..... 5795
- Woolrich & Roy, San Anselmo..... 5957
- D. B. Ferrero, San Rafael..... 6300
- T. Lawrence 6400
- Siemer & Kendall, San Rafael..... 6700
- M. Dos Reis, San Anselmo..... 7200
- Otis H. Smith, San Rafael..... 7800
- Ed. Jackson, San Rafael..... 7980

Bids held under advisement.

Contract To Be Awarded. RESIDENCE Cost, \$50,000

RENO, Washoe Co., Nevada.

Two and one-half-story brick residence (12 rooms, 5 baths) painted brick exterior finish, brick frame, wood interior partitions, shingle roof, walnut and oak floors, dumb waiter, air conditioning heating system, oil furnace, chromium metal plumbing goods.

Owner—Mrs. L. D. Graham, Reno.

Architect—F. J. DeLongchamps, Inc., Reno Gazette Bldg., Reno.

Contractor—J. C. Dillard, 805 S-Virginia St., Reno.

Contract Awarded.
RESIDENCE Cont. Price, \$23,749
SAN MATEO, San Mateo Co., Calif.,
Caralands Tract.
Two-story frame and stucco or brick
residence (15 rooms, 5 baths; Eng-
lish type).
Owner—C. C. Young, 2223 Easton Dr.,
Burlingame.
Architect—Willis Polk Co., 277 Pine
St., San Francisco.
Contractor—G. W. Williams Co., 315
Primrose Road, Burlingame.
Grading—H. E. Casey Co., San Mateo.

Plans Completed.
STORE AND RESIDENCE Cost, \$—
OAKLAND, Alameda Co., Cal. No.
4231-4235 E-14th St.
Two-story frame and stucco residence
and store (11 rooms).
Owner—Lola Texeira, 7532 Krause
Ave., Oakland.
Architect—Not Given.

Low Bidder.
Preparing Sketches.
RESIDENCE Cost, \$7500
SAN FRANCISCO—St. Francis Wood.
Two-story and basement frame and
stucco residence (tile roof, gas
heat, hardwood floors, etc.)
Owner—Alfred Matthews.
Architect—Masten & Hurd, 233 Post
St., San Francisco.

Contract Awarded.
RESIDENCE Cost, \$10,000
SAN JOSE, Santa Clara Co., Cal.
Nagles and Chapman Sts.
Two-story and basement frame and
stucco residence (11 rooms and 3
baths); seven gabled roof, gas
heat, hardwood floors, etc.
Owner—Dr. H. Spencer Lewis, 1342
Naglee Place, San Jose.
Architect—Not Given.
Contractor—Paul Anderson, 1210 Lin-
coln Ave., San Jose.

Sub-Bids Being Taken.
RESIDENCE Cost, \$12,000
SAN MATEO, San Mateo Co., Cal.
Baywood Park.
Two-story and basement frame, half-
timber and stucco residence (8
rooms and 3 baths); shake roof,
gas heating system, hardwood
floors, brick porches, electric re-
frigeration, double garage, etc.
Owner—Withheld.
Architect—Chester H. Treichel, 679
Haddon Road, Oakland.
Contractor—Preston Dietz, 1110 Grove
St., Burlingame.

Plans Completed.
RESIDENCE Cost, —
SAN FRANCISCO, W San Andreas
Ave. (St. Francis Wood).
Two-story and basement frame and
stucco residence (9 rooms and 3
baths); tile roof, canvas walls,
oak flooring, electric refrigeration,
etc.
Owner—Mr. and Mrs. Thos. C. Boyle.
Architect—H. C. Baumann, 251 Kear-
ny St., San Francisco.
Bids will be taken shortly.

To Be Done By Day's Work.
RESIDENCE Cost, \$8000
PALO ALTO, Santa Clara Co., Calif.
2000 Bryant Street.
Two-story and basement frame and
stucco residence.
Owner and Builder—Marcus Stedman,
432 Embarcadero, Palo Alto.
Private Plans.

SCHOOLS

YUBA CITY, Sutter Co., Cal.—Un-
til March 1, 10 A. M., bids will be
received by George F. Algeo, Super-
intendent of Schools, Yuba City, for
furnishing to schools of Sutter coun-
ty standard school supplies. Specifi-
cations available from above office.

Date of Opening Bids Postponed.
ADDITION Cost, \$50,000
DALY CITY, San Mateo Co., Cal.
Class C concrete addition to h i g h
school (all six classrooms) wood
joists, tile roof, wood and con-
crete floors, steam heating sys-
tem.

Owner—Jefferson Union High School
District.
Architect—Resing & McGuinness, 488
Pine St., San Francisco.

Plans are being revised and a new
date for opening bids will be set
shortly.

Final Plans Awaiting Approval.
HOUSE OF STUDIES
Cost (1st unit) \$70,000
OAKLAND, Alameda Co., Cal. Chabot
Road and College Avenue.

Three-story and basement Class A
steel frame and concrete house of
studies (main wing, 140x36 feet);
concrete basement, c a s t stone
trim, slate roof.

Owner—College of Saint Albert, The
Great (Dominican House of Stud-
ies), Steiner and Bush Sts., San
Francisco.

Architect—Arnold Constable, 580 Mar-
ket St., San Francisco.

It is expected to ask for bids with-
in two weeks.

Contract Awarded.
SCHOOL Cost, \$1500
KIRKWOOD, Tehama Co., Calif.
One-story frame school.
Owner—Kirkwood School District.
Plans by State Bureau of Architecture
Contractor—McCabe and Hunter, Red
Bluff.

Plans Approved.
SCHOOL Cost, \$100,000
NORTH SACRAMENTO, Sacramento
Co., Calif.

One- and two-story Class C brick high
school (17 classrooms) gymnasium
two shop rooms, etc.

Owner—Grant Union High School Dis-
trict.

Architect—Harry Devine, Califor-
nia State Life Bldg., Sacramento.

BANKS, STORES & OFFICES

Plans Being Completed.
STORE Cost, \$—
BERKELEY, Alameda Co., Calif. 2036
Shattuck Ave.

Brick and concrete store (brick and
terra cotta facing, composition
roof, structural steel, cement,
hardwood and t e r r a z z o floors,
plate glass, metal fire doors, orna-
mental iron, gas heating, etc.)

Owner—S. H. Kress Co., 114 5th Ave.,
New York City.

Plans by Eng. Dept. of Owner.
Bids will be asked within thirty
days from a selected list of contrac-
tors.

Plans Being Completed.
STORE Cost, \$40,000
OAKLAND, Alameda Co., Cal. Broad-
way N 19th St.

One-story and basement and mezza-
nine reinforced concrete store (30
x 100 ft.)

Owner—Twentieth & Broadway Realty
Co., 1175 Market St., San Fran-
cisco.

Architect—Albert Evers, 525 Market
St., San Francisco.

Lessee—Kushlins Shoe Co.
Bids will be asked shortly.

Bids In—Under Advisement.
ADDITION Cost, \$3000
SAN FRANCISCO, N Mission St. bet.
4th and 5th.

Class C basement for storage.
Owner—The Emporium, 825 Market St.
Engineer—V. H. Poss, 2929 Russell St.,
Berkeley.

Building permit has been applied
for.

Low Bidder.
ALTERATIONS Cost, \$7500
OAKLAND, Alameda Co., Calif. 1450
Broadway.
Alterations to store.
Owner—Metropolitan Life Insurance
Company.
Architect—Bliss & Fairweather, Bal-
boa Bldg., San Francisco.
Lessee—Hart Schaffner & Marx stree.
Low Bidder—H. S. Meinberger, 343 4th
St., San Francisco.

MISCELLANEOUS CONSTRUCTION

BERKELEY, Alameda Co., Cal.—
W. V. Bernard, 3045 Humboldt Ave.,
Berkeley, at \$999 submitted low bid
to City Council for constructing a
wood truss canopy for warehouse, 25x
100 feet at the Municipal Wharf,
Foot of University Avenue, Berkeley.
Following bids received:

(1) add for constructing enclosure
walls on SW corner of building:
W. V. Bernard, Berkeley.....\$ 999
(1) 127

J. R. Armstrong, Oakland..... 1099
(1) 120

F. A. Stead, Berkeley..... 1114
(1) 99

George Swanstrom, Oakland..... 1196
(1) 112

Willis F. Lynn, Oakland..... 1215
(1) 130

Lindgren and Swinerton, Inc.,
Oakland 1253
(1) 130

T. D. Courtright, Oakland..... 1262
(1) 120

Connor & Connor, Oakland..... 1278
(1) 147

F. H. Cress, Oakland..... 1435
(1) 175

J. B. Peterson & Son, San Le-
andro 1477
(1) 191

Emil Person, Berkeley..... 1495
(1) 189

W. E. Lyons, Oakland..... 1548
(1) 144

S. O. McDonald, Oakland..... 1582
(1) 148

H. B. Sneed, Oakland..... 1636
(1) 180

A. Icardi, Oakland..... 1875
(1) 65

Bids held under advisement.
(527) 1st report Jan. 23; 2nd Feb. 1.

Sub-Contracts Awarded.

MAUSOLEUM Cost, \$15,000
PALO ALTO, Santa Clara Co., Cal.

Alta Mesa Memorial Park.
One-story reinforced concrete mauso-
leum(60x80 ft.) to contain crema-
torium, columbarium and chapel,
iron griddled doors, decorative tile,
provision for 90 cypsts.

Owner—Alta Mesa Improvement Co.,
Palo Alto (Professor W. H. Sloan,
Pres.), Stanford University, Palo
Alto.

Architect—Birge M. Clark, 310 Uni-
versity Ave., Palo Alto.

Contractor—Carl Linholm, Mountain
View.

Reinforcing Steel—San Jose Placing
Co., 13th and Berryessa Road, San
Jose.

Electric—F. A. Pritchett, Mt. View.

Mill Work—Hubbard & Carmichael
Bros., 384 W-Santa Clara St., San
Jose.

Lumber—Sterling Lumber Co., Mt.
View.

Glass—Palo Alto Glass Co., 2137 El
Camino Real, Palo Alto.

Bids are now being taken on marble,
leaded glass, special windows, and
steel sash.

ROSEVILLE, Placer Co., Cal.—Un-
til March 1, 7:30 P. M., bids will be
received by F. R. Chilton, city clerk,
to furnish gasoline and oils for the
years 1933 up to March 1, 1934. Speci-
fications obtainable from above.

MEMBERS OF THE ASSOCIATED GENERAL CONTRACTORS

PACIFIC COAST AND INTERMOUNTAIN TERRITORY

CALIFORNIA STATE BRANCH

1151 South Broadway—Prospect 9107—Los Angeles

O. C. STRUTHERS, President

E. L. KIER, Vice-President

GEORGE HERZ, Secretary

MELVILLE DOZIER, JR., Manager

NORTHERN CALIFORNIA CHAPTER

351 California St.—Garfield 7107—San Francisco, Calif.

Geo. G. Pollock, President

R. D. Watson, Vice-President

Floyd O. Booe, Secretary-Manager

- Atkinson, Lynn S. (HPR).....1316-17 Edwards & Wildey Bldg., L. A., Tr. 7451
 Atkinson, Guy F., Co., Inc. (BHPR) 601 Russ Bldg., S. F., Sut. 3629
 Ball, N. M. (HP).....1889 Yosemite Rd., Berkeley, AS. 6722
 Basalt Rock Co., Inc. (H).....900 8th St., Napa, Napa 1344
 Bechtel Co., W. A. (BHPR).....155 Sansome St., S. F., GA. 0780
 Bevanda, M. J. (HP).....319 Elks Bldg., Stockton 7470
 Bishop, E. B. (HP).....900 Forum Bldg., Sacramento, Capitol 2456
 Bodenhamer Const. Co. (HPR).....Box 643, 354 Hobart St., Oakland, Glencourt 5022
 Calif. Const. Co. (BHPR).....715 Standard Oil Bldg., S. F., DO. 4820
 Casson, Jack A. (HP).....Hayward, Calif., Hayward 856
 Clark & Henry Const. Co. (HP).....564 Market St., S. F., DO. 2903
 Colley, W. C. (HPR).....35 Northampton Ave., Berkeley, ASH. 1323
 Conner, J. L. (HP).....P. O. Box No. 86, Monterey 1137-M
 Connolly, T. E. (BHPR).....461 Market St., S. F., Kearny 6408
 Conyes, R. A. (HPR).....1043 38th St., Oakland, Olym. 9391
 Currie, James (HPR).....1100 Peninsula Ave., Burlingame, Burl. 3497
 Delin, C. M. (HPR).....206 Sansome St., San Francisco, Gar. 7107
 Dodge Bros., Inc. (HP).....Fallon, Nevada, Main 176-W
 Drumm, A. D., Jr. (HP).....Fallon, Nevada, Main 44-W
 Eaton & Smith (HPR).....715 Ocean Ave., San Francisco, DE. 6700
 Fairbanks, A. J. & J. L., Inc. (HPR).....Linden Ave., So. S. F., 436
 Fay Improvement Co., The (HPR).....Phelan Bldg., S. F., KE. 4044
 Fitzmaurice, J. H. (HP).....2857 Hannah St., Oakland, Higate 2490
 Force Const. Co. (HP).....70 Bellevue, Piedmont, Calif., HU. 9349
 Franks Contrctg. Co. (RPW).....260 California St., S. F., DOug. 6684
 Frederickson Bros. (BHP).....First Natl. Bank Bldg., Stockton, 5974
 Frederickson & Watson Const. (BHPR).....873 81st Ave., Oakland, SW. 1264
 French, George J., Jr. (HP).....P. O. Box No. 675, Stockton, 6676
 Gerwick, Ben C., Inc. (HP).....112 Market St., S. F., SU. 8454
 Granite Construction Co. (BHPR).....Watsonville, California, 988
 Hanrahan Co. (HP).....Hobart Bldg., San Francisco, GA. 1639
 Harney, Charles L. (HP).....74 New Montgomery St., S. F., VA. 1711
 Hauser, W. H. (HPR).....3129 E. 7th St., Oakland, FRuitvale 6790
 Heafey-Moore Co. (HP).....344 High St., Oakland, AN. 0466
 Hemstreet & Bell (HP).....411 "C" Street, Marysville, 433
 Heple, Earl W. (BHPR).....494 Delmas Ave., San Jose, Bal. 5596
 Hodgman & MacVicar (HP).....714 Plymouth, Pasadena, Ter. 1563
 Holland, J. P., Inc. (HPR).....1834 McKinnon Ave., S. F., MI. 5400
 Isbell Const. Co. (HP).....Carson City, Nev., Ph. 1754 (Also Fresno)
 Jenkins, M. A. (HP).....3560 Y St., Sacramento Capital 472
 Jones & King (HPR).....Hayward, Calif., Hay 72
 Kaiser Paving Co. (BHPR).....Latham Square Bldg., Oak., HI. 2614
 Knapp, J. F. (HPR).....916 Financial Center Bldg., Oak., GL. 1620
 Larsen Bros. (HP).....Galt, Calif. 1717
 Lee, U. B. (HP).....10059 Carpenter St., San Leandro, Sweet. 1717
 Le Tourneau, R. G. (HPR).....122 Moss Ave., Stockton, 3981
 Lord & Bishop (HPR).....Native Sons Bldg., Sacramento, Main 1990
 Lovelace, Nate (HP).....3433 "N" St., Sacramento, Capital 277
 Malcom, C. T. (HPR).....Walnut Creek, Calif., W. C. 277
 McDonald, D. (HPR).....204 23rd St., Sacramento, Cap. 1806
 McGillivray Const Co. (HPR).....Box 927, Sacramento, Capital 2170
 McMillan, W. K. (HP).....2088 Howard St., San Francisco, MA. 3876
 Mercer-Fraser Co. (BHPR).....Eureka, Eureka 808
 Nevada Contracting Co. (HPR).....Fallon, Nevada, Phone 1851
 Nevada Rock & Sand Co. (HP).....Reno, Nevada, Reno 5291
 Nighbert, Fred W. (HP).....No. 10 "H" St., Bakersfield
 Pacific Pavements Co., Ltd. (HP).....85 Barstow St., S. F., HE. 4178
 Pacific States Construction Co. (HP).....Call Bldg., S. F., DO. 0879
 Phillips, John, Co. (HP).....582 Market St., San Francisco, KE. 4471
 Pollock, Geo., Co. (HPR).....P. O. Box 903, Sacramento, Main 1457
 Rohl, H. W., Co. (HPR) 4351 Alhambra Ave., Los Angeles, CH. 6141
 Six Companies, Inc. (BHPR) Financial Center Bldg., S. F., Gar. 3842
 Siems-Helmets, Inc. (BHPR).....206 Sansome St., S. F., EX. 5140
 Skeels & Graham Co. (HPR).....P. O. Box 576, Roseville, Calif.
 Tedford, J. N. (HP).....Fallon, Nevada, Main 461
 Teichert, A., & Son, Inc. (HP) 1846 37th St., Sacramento, Main 6586
 Tieslau Bros. (HP).....2819 Grove St., Berkeley, BE. 8653
 Tucker, H. V., Co. (HP).....300 Vermont St., S. F., MA. 7583
 Ulrich Const. Co., Geo. J. (BHP).....Modesto, Modesto 921
 Von der Hellen & Pierson (HPR).....Castaic, Calif.
 Ward Engineering Co. (HP) 315 Montgomery St., S. F., DOug. 6072
 Wood, C. W. (HP).....P. O. Box 1435, Stockton, 8743
 Young, Clarence (HP).....5250 Broadway Ter., Oakland, OL. 3743
 Young & Son Co., Ltd. (HP) 599 Colusa Ave., Berkeley, Berk 5551

Associate Members

- American Bitumuls Co. (Bitumuls).....200 Bush St., S. F., GA. 6653
 Anderson Bros. Supply Co. (Commissary).....Boulder City, Nev.
 Andrews, F. T., Co. (C. P. A.).....1922 Russ Bldg., S. F., SU. 0832
 Associated Oil Co. (Asso. Prod.).....79 N. Mont'y St., S. F., KE. 4800
 Austin Western Road Machinery Co. (Road Machinery).....435 Brannan St., San Francisco, DO. 2183
 Autocar Sales & Service Co. (Autocar Trucks).....1020 Harrison, San Francisco, UN. 4545
 Bacon, Edward R., Co. (Road Machinery).....Folsom and 17th Sts., San Francisco, HE. 3700
 Blake Bros. Co. (Crushed Rock).....Balboa Bldg., S. F., KE. 5320
 Calaveras Cement Co.....315 Montgomery, San Francisco, DO. 4224
 California Corrugated Culvert Co. (Corrugated Pipe).....5th & Parker, West Berkeley, BE. 5420
 Cement Gun Construction Co. (Gnnite).....95 Second St., San Francisco, SU. 8306
 Contractors' Ins. Agency (Insurance) 206 Sansome, S. F., SU. 3400
 Cowell Lime & Cement Co. (Cement).....2 Market St., S. F., GA. 4870
 Geiger Iron Works (Equip.).....P. O. Box 423, Stockton, Stock. 1898
 Granite Rock Co. (Crushed Rock).....Watsonville, Wat. 988
 Harneschfeger Sales Corp. (Equip.).....82 Beale St., S. F., DO. 2313
 Harron, Rickard & McCone Co. (Equip.).....1600 Bryant St., San Francisco, UN. 3740
 Link-Belt Co. (Equip.).....400 Paul Ave., San Francisco, DE. 6400
 Marion Steam Shovel Co. (Power Shovels).....571 Howard St., San Francisco, KE. 7493
 Modern Vehicle Co. (Mfrs. Steel Dump Bodies).....437 4th St., San Francisco, GA. 1402
 Murray & Ready (Labor Agency) 784 Howard St., S. F., SU. 1205
 Northwest Engineering Co. (Shovels).....23 Main St., S. F., SU. 7053
 Pacific Coast Aggregates.....700 Wells Fargo Bldg., S. F., SU. 8940
 Pacific Coast Engineering Co. (Structural Steel).....Foot of W. 14th St., Oakland, HI. 1322
 Pacific H. B. A. Steel Co., Inc. (Drill Steel).....540 Brannan St., San Francisco, GA. 6683
 Pacific Portland Cement Co. (Golden Gate).....Hunter-Dulin Bldg., San Francisco, GA. 4100
 Pland-Evans (Commissary).....Merchants' Ex. Bldg., S. F., GA. 5923
 Robinson Tractor Co. (Caterpillar Tractors).....1705-09 E. 12th St., Oakland, FR. 2485
 Roebbling's, Jno. A., Sons Co. (Wire Rope).....1175 Howard St., San Francisco 6490
 Santa Cruz Portland Cement Co. (Santa Cruz).....Crocker Bldg., San Francisco, GA. 3307
 Shell Oil Co. (Shell Products).....100 Bush St., S. F., EX. 5400
 Soule Steel Co. (Reinforcing Steel).....1750 Army St., S. F., VA. 4141
 Spars-Well Machinery Co. (Equip.) 1832 9th St., Oak., HO. 4100
 Standard Oil Co. of Calif. (Standard Products).....Standard Oil Bldg., San Francisco, SU. 7700
 Traffic Service Bureau (Freight Audits) 24 Cal'f. St., S. F., GA. 6194
 Union Oil Co. of Calif. (Union Prod.) Mills Bldg., S. F., SU. 1400
 United Commercial Co., Inc. (Equip.) 234 Steuart St., S. F., DO. 0430
 Western Pipe & Steel Co. (Steel Pipe) 444 Market, S. F., GA. 6788

SOUTHERN CALIFORNIA CHAPTER

1151 South Broadway, Suite 350—Prospect 9107
 Los Angeles, Calif.

Lynn S. Atkinson, President
 Stephen M. Griffith, Vice-Pres.

F. C. Connolly, Manager
 C. C. Fitzgerald, Secty.-Treas.

The address of the firm is the same city in which is located the Chapter office unless otherwise shown in membership list.

Building Contractors

- Atkinson, J. F.....1102 Story Bldg., Vandike 7783
 Baruch Corp., Herbert M.....1015 Lincoln Bldg., Trinity 5473
 Bradley Constr. Co., K. R.....1833 West Pico, Washington 2786
 Burgin, W. Jay.....1100 Redondo Ave., Long Beach, L. B. 81103
 Byerts & Dunn.....7908 Santa Monica Blvd., Crestview 9602
 Clinton Construction Co., 1103 Spring Arcade Bldg., MADison 2597
 Crowell, Wm. C.....495 S. Bdwy., Pasadena, WAKEfield 6692
 Crowell Co., Weymouth.....2104 E. 15th St., Westmore 5708
 DeCamp-Hudson Co., Ltd.....1277 W. 24th St., Westmore 3382
 Dixon, L. E., Co.....609 So. Grand Ave., TRINity 4925
 Escherich Bros.....234 W. 37th Place, ADams 6294

Class of Construction: (B) Building; (H) Highway; (P) Public Works; (R) Railroad.

Hall, J. F.	531 Douglas Bldg.,	MUtual	6722
Houghton & Anderson	143 Rose St.,	MUtual	5430
K. P. Lowell & Co., Ltd.	606 Union Bank Bldg.,	VAndike	4072
Macdonald & Driver	311 Board of Trade Bldg.,	TUcker	6467
McKee, Robert E.	1128 Central Bldg.,	TRinity	0291
Miller, Geo. E.	401 N. Canon Dr.,	B. H.,	OXford 7404
Simpson Construction Co.	1007 Architects Bldg.,	MUtual	7261
Snell, Fred C.	339 N. Beverly Dr.,	Beverly Hills,	OXford 6409
Willard-Brent Co.	254 E. 27th St.,	Richmond	2101

Bridges, Foundations

Ledbetter Co., W. M.	Box 1264, Arcade St.,	CApitol	13415
Oberg Brothers	707 San Fernando Bldg.,	ANGelus	8759
Raymond Concrete Pile Co.	1008 Washington Bldg.,	VAndike	6536

Highways, Paving, Grading

Basich Bros.	Torrance, Gardena	446
Bock, Geo. J.	1007 S. Harvard, EMpire	7614
Donovan & Sons, J. G.	4031 Goodwin Ave.,	OLympic 0423
Ferry, Peter L.	San Fernando Rd. and Bdwy.,	Glendale, OL. 0164
Fleming Construction Co.	Pomona	
Griffith Company	L. A. Railway Bldg.,	WEStmore 9343
Hall-Johnson Co.	P. O. Box 387, Alhambra,	ELiot 1855
Herz & Co., Geo.	310 Platte Bldg.,	San Bernardino, S. B. 241-42
Heuser, Chas. U.	316 Allen Ave.,	Glendale, DOuglas 3965
Hudson, Chas. H.	408 Rives-Strong Bldg.,	VAndike 3374
Jahn & Bressi	701 Lane Mortgage Bldg.,	TRinity 8674
Lang Transportation Co.	5501 Santa Fe Ave.,	JEfferson 3104
Lewis Construction Co.	300 S. Juanita St.,	Washington 1407
Packard & Tanner	905 W. Latham St.,	Phoenix, Ariz.
Pearson & Dickerson	4485 Cypress, Riverside,	1600
Ross, M. S.	4011 Goodwin Ave.,	CApitol 7603
Wells & Bressler	P. O. Box 596, Santa Ana,	227
Willis, C. G., & Sons, Inc.	2119 E. 25th St.,	LAfayette 9826

Pipe Lines, Water Works

American Concrete Pipe Co.	P. O. Box 1428, Arcade Sta.,	JE. 4211
Haverty Co., Thos.	316 E. 8th St.,	VAndike 1171
United Concrete Pipe Co.	Box 1, Station H, L. A.,	TWinoaks 9196

Subways, Conduits

Delta Construction Co.	P. O. Box 79, Compton
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General Engineering

Atkinson, Lynn S.	609 S. Grand, TRinity	7451
Bartmus, Peter	Hollywood Riviera, Redondo,	Redondo 6404
Bent Bros., Inc.	418 S. Pecan St.,	ANGelus 7510
Campbell-Reichert Co.	4000 Whiteside Ave.,	ANGelus 0598
Cox, R. L.	1100 Westminster, ALhambra	1699
Emsco Conc. Cutting Corp.	1517 Santa Fe Ave.,	VAndike 7168
Fitz-Gerald Eng. & Constr. Co.	216 Rowan Bldg.,	TRinity 5088
Foley, D. A., Construc. Co.	716 Grant Bldg.,	TUcker 7814
Kemper Const. Co., Ltd.	3701 Overland, Los Angeles	
Macco Construction Co.	Hynes, JEfferson	1148
Merritt-Chapman-Scott Corp.	P. O. Box 507, San Pedro,	2880
Mittry Bros. Construction Co.	722 Detwiler Bldg.,	VAndike 0210
Morrison-Knudsen Co.	411 West Fifth St.,	MUtual 7684
Robinson-Roberts Co.	706 Rives-Strong Bldg.,	TRinity 2889
Spicer, C. A.	818 Financial Center Bldg.,	TUcker 9570
Standard Dredging Co.	325 Central Bldg.,	TRinity 3253
Watson, R. A.	1026 N. McCadden Pl.,	GRanite 4121

Affiliates

Brashears & Co., C.	501 Security Bldg.,	TRinity 5091
Consolidated Rock Prod. Co.	656 S. Los Angeles St.,	TRinity 0241
Gilmore Oil Co.	2423 E. 28th St.,	JEfferson 1211
Graham Brothers	1215 W. 7th St.,	Long Beach, L. B. 65251
Hartford Accident & Ind. Co.	548 S. Spring St.,	MAdison 1471
L. A. Brick Co.	1078 Mission Road,	ANGelus 5684
Sun Lumber Co.	Crescent Drive, Beverly Hills,	OXford 6191
Union Oil Co.	Union Oil Bldg.,	TUcker 7211

ALAMEDA COUNTY CHAPTER

354 Hobart St., Rm. 410—Glencourt 7400—Oakland, Calif.

S. G. Johnson, President
 Geo. J. Maurer, Vice-President
 H. J. Christensen, Treasurer
 W. E. Hague, Manager

Brennan, J. P. (B)	2820 Regent, Berkeley, BE.	0346
Christensen, H. J. (B)	1924 Broadway, Oakland, LA.	7164
DeVelbiss, C. Dudley (B)	369 Pine St., S. F.,	GA. 3225
Dyer Construction (B)	337 17th St., Oakland, GL.	3203
Furlong, Thos. H. L. (B)	460 Jerome Ave., Piedmont, HU.	0620
Jacobs & Pattiani (BP)	337 17th St., Oakland, GL.	3203
Johnson, S. G. (B)	4652 Dolores Ave., Oakland, FR.	6650
Keating, W. C. (B)	925 Forum Bldg., Sacramento	
Lesure, E. T. (B)	87 Ross Circle, Oakland, OL.	0389
Littlefield, R. W. (B)	337 17th St., Oakland, HI.	0994
Lyons, W. E. (B)	354 Hobart SSt., Oakland, HO.	5325
Maurer, George J. Co. (B)	50 York Drive, Oakland, HU.	3457
Nordstrom, David H. (B)	354 Hobart St., Oakland, GL.	7400
Pedgrift, James H. (B)	4106 Broadway, Oakland, HU.	1300
Petersen, George (B)	1841 Bancroft, San Leandro, TR.	2043
Petersen, James B. (B)	4021 Agua Vista, Oakland, FR.	9887
Schultz, Herbert (B)	811 Mendocino, Berkeley, AS.	2360
Sullivan & Sullivan (B)	2653 Best Ave., Oakland, AN.	4724
Thornally, W. C. (B)	354 Hobart St., Oakland, GL.	8476
Westlund, Fred J. (B)	625 40th St., Oakland, OL.	7446

Associate Members

Calaveras Cement Co.	315 Montgomery St., San Francisco
Cowell, Henry, Lime & Cemt. Co.,	81 Franklin St., Oakland, HI. 3398
East Bay Glass Co.	621 Sixth St., Oakland
Lannom Bros. Mfg. Co.	Fifth and Magnolia Sts., Oakland
Maxwell Hardware Co.	1320 Washington St., Oakland
Melrose Building Materials Co.	4591 Tidewater Ave., Oakland
Oakland Planing Mill	Second and Washington Sts., Oakland
Pacific Portland Cement Co.	111 Sutter, San Francisco, CA. 4100
Santa Cruz Portland Cement Co.	354 Hobart St., Oakland
Sunset Lumber Co.	400 High St., Oakland
Tilden Lumber Co.	Foot of University Ave., Berkeley

SAN DIEGO CHAPTER

Spreckels Theater Bldg.—Main 4289—San Diego, Calif.

George R. Dalry, President
 M. A. Mathias, Manager
 M. H. Golden, Vice-President

Carroll, B. G.	4396 Maryland St., Hillcrest	5274-M
Daley Corporation (HP)	4430 Boundary St., Randolph	1136
Dennis Constr. Co., V. R. (HP)	Box 183, Sta. A, Hillcrest	8293
Ford, E. Paul (HP)	Box 201, E. San Diego, Randolph	5101
Golden, M. H. (B)	404 California Bank Bldg., Franklin	7983
Grove, Cecil B.	4316 Island Ave., Franklin	7474
Hazard Constr. Co., R. E. (HP)	2508 Kettner Blvd., Franklin	6315
Jarboe Constr. Co. (B)	208 Spreckels Theatre Bldg., Franklin	3792
Kier Const. Co., W. E. (B)	First National Bank Bldg., Main	2427
Larsen, B. O. (B)	1340 E St., Main	4752
Miracle Constr. Co. (HP)	Box 601, E. San Diego, Main	2295
Penick & Sons, T. B. (HP)	3075 L St., Main	4582

PACIFIC NORTHWEST BRANCH

4134 Arcade Building, Seattle, Wash.

J. C. Compton, President
 H. V. BOGERT, Rec. Secretary
 J. B. WARRACK, Treasurer
 P. L. CROOKS, Vice-Pres. and Secretary

PORTLAND CHAPTER

Multnomah Hotel—Atwater 7883—Portland, Ore.

Paul L. Crooks, President
 Carl Schram, 1st Vice-President
 G. B. Herington, Executive Secretary
 Ross B. Hammond, 2nd Vice-Pres.
 J. A. Lyons, Treasurer

Baker Construction Co. (B)	Security Bldg., Atw.	9211
Christensen, Fred, Inc. (BHP)	187 E. 34th St., Ea.	8934
Cochrane Construction Co. (HP)	65th & Ainsworth, Tr.	5944

Compton, J. C. (HP)	McMinnville, Ore., McM.	106
Crooks, P. L., Inc. (HPR)	Henry Bldg., Atw.	7767
Dann, J. J. (PHR)	300 Henry Bldg., Atw.	5837
Edlefsen-Weygandt Co. (HP)	Foot of Jefferson, Atwater	4090
Endicott, Wm.	Corvallis, Oregon	
Gates, E. L. (HPR)	Eugene, Oregon	
Gilpin Construction Co. (HPR)	Henry Bldg., Atw.	6220
Greenwood, A. C. (HPR)	500 N. Front St., Br.	3030
Guthrie & Co., A., Inc. (BPHR)	552 Sherlock Bldg., Atw.	8316
Hammond, Ross B. (B)	1312 Public Service Bldg., Atw.	2159
Hauser Bros. Construction Co. (PHR)	Multnomah Hotel, Atw.	7441

Class of Construction: (B) BUILDING; (H) HIGHWAY; (P) PUBLIC WORKS; (R) RAILROAD.

Hoffman, L. H. (BP).....	Public Service Bldg., Atw. 3181
Jacobsen-Jensen Co. (PH).....	407 Stanton, Gar. 3313
Johnson Contract Co. (HPR).....	414 Exchange Bldg., Atw. 0678
Johnson-Gardner Co. (HPR).....	414 Exchange Bldg., Atw. 0678
Kern & Kibbe (HPR).....	290 E. Salmon St., Ea. 4116
Kernan, F. J.	Porter Bldg., At. 2035
La Pointe Constr Co.....	1291 Cumberland Rd., Be. 6000
Lindstrom & Feigenson (BPHR).....	1991 Halsey St., Ta. 9226
Lyons, J. A. (BPHR).....	1001 Halsey St., Tr. 2841
Milne Constr. Co.....	1853 E. Broadway, Tab. 7277
Morrison & Knudsen (BPHR).....	319 Broadway, Boise, Idaho
Morgan, T. M. (H).....	5410 Wilshire Blvd., Los Angeles
Newport Construction Co. (PHR).....	317 Exchange Bldg., Atw. 5900
Pacific Bridge Co. (BPHR).....	Ft. of E. Salmon St., Ea. 2164
Parker & Banfield (BP).....	984 E. 17th St., Sel. 6182
Parker-Schram Co. (PHR).....	Couch Bldg., Atw. 4375
Peck, E. C. & Co. (PH).....	Aberdeen, Wash.
Puckett, W. H. Co. (PHR).....	319 Broadway, Boise, Idaho
Quinn, J. L. (B).....	Box 1109, Klamath Falls, Ore.
Rebman, J. (PH).....	343 Vancouver Ave., Tr. 7825
Robertson, Hay & Wallace (B).....	605 Weatherly Bldg., Ea. 3613
*Saxton & Looney.....	Corvallis, Ore.
Seed, John S. (B).....	201 Worcester Bldg., Atw. 6444
Honorary Member and Director of Chapter	
Shea & Co., J. F. (PHR).....	211 Henry Bldg., Atw. 2435
Sullivan & Doyle (PHR).....	Ft. of Curry St., Atw. 5297
Box 104, Portland, Ore.	
United Contracting Co. (BPHR).....	309-10 Stock Ex. Bldg., Atw. 5296
von der Hellen & Pierson (HR).....	Naches, Wash.
White, Ernest & Co. (B).....	Twin Falls, Idaho
Wren & Greenough (PHR).....	485 28th St.
Wright Constr. Co. (BPH).....	Aberdeen, Wash.
Young, I. L. (BPH).....	524 Henry Bldg., At. 0297

Associate Members Portland Chapter

Balzer Machinery Co.....	275 Pine St., Atw. 9391
Beall Pipe & Tank Co.....	85 Columbia Blvd., Wa. 3171
Clyde Equipment Co.....	555 Thurman St., Br. 5561
Collins Concrete Pipe Co.....	410 River St., Wa. 7670
Feenaughty Machinery Co.....	309 E. Yamhill, Ea. 2187
Grand Sheet Metal Works.....	60 E. Third N., Ea. 2181
Latture, J. L. Equip. Co.....	312-314 E. Madison St., Ea. 8166
Loggers & Contractors Machy. Co.....	345 E. Madison St., Ea. 4128
Metropolitan Casualty Ins. Co., The.....	Wilcox Bldg., Atw. 7521
National Hospital Assn.....	400 Mohawk Bldg., Atw. 5291
Oregon Portland Cement.....	321 E. Madison, Ea. 3116
Phoenix Iron Works.....	360 Hawthorne, Ea. 0029
Pomeroy, J. H., & Co.....	Box 48, Seattle, Wash.
Pure Iron Culvert & Mfg. Co.....	763 Gladstone, Sel. 2275
Santa Cruz Portland Cement.....	45 Fourth St., Atw. 9848
Standard Oil Co.....	Pacific Bldg., Bea. 4161
Swigert, Hart & Yett.....	Ft. of E. Salmon St., Lan. 1125
Union Oil Co. of California.....	Yeon Bldg., Atw. 9521
Wallace Bridge & Structural Steel.....	P. O. Box 48, Seattle, Wash.
Shell Oil Co.....	Commerce Bldg., At. 7321

SPOKANE CHAPTER

West 515 First Avenue—Main 6822—Spokane

James Crick, President	C. W. Joslin, Director
A. McLellan, Vice-President	Louis Larsen, Director
F. R. Hewitt, Vice-President	Dan Hannah, Secty.-Treas.
Alloway & Georg (B).....	Hutton Bldg.
Auld & Shinn (B).....	1121 Indiana
Burnette, C. A. (H).....	1118 Ide Ave.
Byers, W. A. (H).....	W. 1204 Mansfield
Clifton & Applegate (HPR).....	Hutton Bldg.
Collins, J. H. & Co. (H).....	S. 1924 Post St.
Colonial Building Co. (BH).....	W. 326 First Ave.
Crick, James (H).....	Realty Bldg.
Degerstrom, N. A. (HPR).....	Peyton Bldg.
Edwards, J. E. (H).....	S. 1423 Adams
Geist, W. L. (H).....	W. 444 23rd Ave.
Hansen Construction Co. (H).....	Opportunity
Harding, Geo. (H).....	Walla Walla, Wash.
Hewett, F. R. (H).....	W. 420 Twenty-second
Joslin & McAllister (H).....	East 3038 Trent Ave.
Kuney, Max J. (H).....	Hutton Bldg.
Larsen Bros. (B).....	S. 2607 Grand Ave.
Long, Oliver J. (H).....	W. 1924 Mansfield
Lyon & Munro (H).....	W. 503 Fourteenth
March Construction Co. (H).....	Roosevelt Apartments
Marrazzo, Tony, (H).....	E. 618 Dalton Ave.
Materne Bros. (H).....	E. 227 Longfellow Ave.

Martin, F. E. (B).....	Galax Hotel
McLellan, A. (B).....	E. 932 Ermina
Medby, M. C. (B).....	S. 3614 Arthur
Meyers, W. G. (B).....	S. 2217 Tekoa St.
Morin, S. G. (B).....	S. 307 Bernard
Norman, Nick (B).....	231 Waverly Place
Nyberg, Carl (H).....	Realty Bldg.
Orino, Sam (H).....	E. 3104 Boone
Payne, Mrs. C. M. (H).....	N. 2602 Hamilton St.
Power, C. A. (H).....	S. 1703 Grand
Siems, Spokane Co. (BPHR).....	Realty Bldg.
Standard Asphalt Paving Co. (HP).....	Chronicle Bldg.
Sullivan, D. A., & Co.....	E. 415 Sprague Ave.
Terteling, J. A., & Sons (HPR).....	511 Sound Ave.
Tobin, James, & Son (H).....	Clarkson, Wash.
Triangle Construction Co. (H).....	W. 1220 Ide
True-House Construction Co. (B).....	No. 121 Browne
Wheeler & England (HP).....	St. Maries, Idaho
Young, Peter J. (B).....	S. 11 Cedar St.

Associate Members

Beall Pipe & Tank Corp.	West 2007 York
Brandt Bros.....	W. 14 Main Ave.
Building Specialties, Inc.	1310 Ide Ave.
Coeur d'Alene Hardware & Foundry.....	Wallace, Idaho
Commercial Importing Co.	W. 904 Broadway, Seattle, Wash.
Construction Equipment Co.....	1118 Ide Ave.
General Machinery Co.....	E. 3501 Riverside
Gladding-McBean & Co.....	524 Old National Bldg
Haweey Fuel Co.....	N. 740 Division St.
Hofus-Ferris Equipment Co.....	W. 728 Mallon
Marshall Wells Co.....	S. 157 Howard
Jones & Dillingham Co.....	W. 715 First Ave.
Jones & Mitchell.....	Hutton Bldg.
Long Lake Lumber Co.....	N. 348 Wall St.
W. S. McCrea & Co.....	212 Symons Bldg.
J. E. McGovern Co.....	550 Peyton Bldg.
Nott-Atwater Co.....	S. 157 Monroe St.
Spokane Concrete Pipe Co.....	N. 2627 Dakota
Spokane Culvert & Tank Co.....	N. End Division Street Bridge
Spokane Paper & Stationery Co.....	S. 152 Jefferson
Standard Oil Co. of Calif.....	Old National Bldg.
Union Oil Co.....	611 Chronicle Bldg.
Washington Brick, Lime & Sewer Pipe Co.....	S. 151 Washington St.
Washington Machinery & Supply Co.....	W. 9 Cataldo

MOUNTAIN PACIFIC CHAPTER

(Strictly a Public Works Chapter, practically every member carrying on highway, public works and railroad construction)

Washington Hotel—Seattle, Wash.

J. W. Rumsey, President	Lee H. Johnson, Secretary-Treasurer
John M. Clifton, Vice-President	James D. Brown, Manager
Allen & Goven.....	Olympia, Wash.
Barnard Curtiss Co.....	Ellensburg, Wash.
Clifton & Applegate.....	Hutton Bldg., Spokane, Ma. 4415
Columbia Power & Investment Co.	Stevenson, Wash.,
Coyle Construction Co.....	901 Westlake N., Seattle, Gar. 5741
N. A. Degerstrom.....	444 Peyton Bldg., Spokane
Dorsey & Wilder, Inc.....	2006 State St., Bellingham, Wash., 1310
Fuel Oil Service Corporation.....	Box 348, Chehalis, Wash.
Goodfellow Bros.....	Wenatchee, Wash.
Grays Harbor Const. Co.....	Hoquiam, Wash., Hoq. 303
Hargrave Construction Co.....	W. 418, 20th Ave., Spokane
Hendricks & Co.....	Chehalis, Wash.
F. R. Hewitt.....	420 W. 22nd, Spokane, Riv. 7554
Johnson, Homer G.....	Perkins Hotel, Portland
Joslin & McAllister.....	Realty Bldg., Spokane, Wash.
Lee H. Johnson.....	920 N. Tacoma Ave., Tacoma, Ma. 6241
Lidral, Wiley.....	Securities Bldg., Seattle
Lyon & Munro.....	503 W. 14th, Spokane, Riv. 5319-R
Norris Bros.....	Burlington, Wash.
Chas. A. Power.....	S. 1703 Grand, Spokane, Riv. 3640
Puget Sound Bridge & Dredging Co.....	Seattle, El. 7300
Puget Construction Co.....	Colman Bldg., Seattle, El. 7311
Fred G. Redmon.....	206 S. 4th Ave., Yakima, 9133
Rumsey & Co.....	Medical Arts Bldg., Seattle, Ma. 8751
Standard Asphalt Paving Co.....	Chronicle Bldg., Spokane, Ma. 1689
von der Hellen & Pierson.....	Cosmopolis, Wash
Winston Bros. Co.....	4580 Colorado Ave., Seattle, Glen. 2268

Class of Construction: (B) Building; (H) Highway; (P) Public Works; (R) Railroad.

SEATTLE CHAPTER

4134 Arcade Bldg.—Main 4709—Seattle, Wash.

James Murdock, President
George E. Teufel, Vice-President
H. V. Bogert, Manager
M. Phil Butler, Secretary
A. S. Downey, Treasurer

Bartleson & Ness (B)	6824 17th NE., Ke.	0513
Bromley, H. C. (Honorary)	1619 42nd N., Ea.	6644
Butler, W. T., Inc. (B)	3419 13th S. W., El.	5670
Cawsey, C. C. (B)	Title Trust Bldg., El.	2830
Gjarde, Peder P. (B)	Lyon Bldg., El.	2660
Goerig, A. C. (HP)	413 Fairview N. (Rear), El.	7625
Hedeen Construction Co. (B)	American Bank Bldg., Se.	1080
Henrikson-Alstrom Constr. Co. (B)	Textile Tower, El.	6870
Manson Construction Co.	Grand Trunk Dock, El.	4526
McDonald, Neil (B)	Lloyd Bldg., El.	5638
Murdock & Eckman (B)	Liggett Bldg., El.	7760
Nelse Mortensen & Co. (B)	1021 Westlake N., Ga.	6669
Pederson, Hans (BHP)	Prefontaine Bldg., El.	8855
Quist Co., A. W. (BP)	Exchange Bldg., Ma.	4497
Sound Constr. & Eng. Co. (B)	Northern Life Tower, El.	4961
Sylliaasen & Sando (B)	Arcade Bldg., Ma.	1641
Teufel & Carlson (B)	Skinner Bldg., El.	6431
Warrack Construction Co. (BP)	McDowall Bldg., El.	8265
Western Construction Co. (B)	Textile Tower, El.	6043

SEATTLE CONSTRUCTION COUNCIL

Affiliated with

ASSOCIATED GENERAL CONTRACTORS OF AMERICA
Building Material Dealers' Association

Abel, Inc.	2700 Westlake N., Ga.	9800
C. S. Barlow & Sons, Inc.	1326 Northlake, Me.	0700
Builders Brick Co.	3800 9th St., El.	0893
Calbraith & Co.	Foot of Madison St., Ma.	8700
Clay Products Delivery Co.	1546 Westlake N., Ga.	6870
Columbia Lumber Co.	3935 University Way, Ra.	2400
Dally, S. W. R.	Pioneer Bldg., Ma.	8678
Fairmount Fuel Co.	4210 W. Alaska, We.	0483
Fryer, D. E. & Co.	411 Douglas Bldg., Ma.	7147
Gladding, McBean & Co.	1500 1st Ave. S., Ma.	9389
Hunter, Sam, Inc.	3155 Elliott Ave., Ga.	0320
Klinker Sand & Gravel Co.	6515 W. Marignal Way, Cl.	0098
McMullen & Co.	462 N. 34th, Me.	5900
Pioneer Sand & Gravel Co.	901 Harrison St., Ma.	2900
Queen Anne Sand Co.	Third W. and Fulton, Ga.	2743
Spring Hill Fuel Co.	5223 California Ave., We.	1650
Spokane Grain & Fuel Co.	7109 Woodlawn Ave., Ke.	0151
Salmon Bay Sand & Gravel Co.	Ft. 20th NW., Su.	0034
Tourtellotte-Bradley, Inc.	314 Seneca St., Ma.	7650
Wash. Brick, Lime & Sewer Pipe Co.	Seaboard Bldg., Ma.	1542

Seattle Association of Insulation Contractors

Asbestos Covering & Supply Co.	1037 Sixth S., El.	4234
Brower & Co., Chas. R.	114 Virginia St., El.	2049
Fryer, D. E., & Co.	1233 Utah, Ma.	7147
Jenkins, V. S., Co.	1559 Railroad S., El.	7516

Contracting Plasterers' Association of Seattle

Ailyn, W. A.	4240 Raymond, Ra.	1459
Blake, C. W.	4359 W. Willow, Cl.	1266
Carr Bros.	10241 15th SW., Cl.	2584-R1
Clarberg, Walter	1121 W. Elliott, El.	7858
Al. Craig	3207 Belvidere, We.	4594
Dines, Chas.	1601 Lakeview Blvd., Ca.	4977
Edwards, A. E.	7706 27th NW., He.	2264
Erickson, O. C.	2904 W. McCraw, Ga.	8223
Cooch, Wm.	110 W. 83rd, Su.	1541
Haley & Smyth	311 24th S., El.	8406
Hoeffle, E. F.	7827 46th S., Ra.	2323
Johnson, Joe	722 N. 103rd, Su.	8974
Jensen, Pete	7029 18th NE., Ke.	1339
Kelly, J. J.	115-20 North, Su.	7683
Lauch & Sons, Gust.	9 W. Cremona, Ga.	5494
Linhoff, A. G.	2107 W. Barret St., Ca.	0790
McDougall & Co., E. C.	Lloyd Bldg., Ma.	5441
Mortensen, J. K.	12040 7th NW., Su.	0945
Nelson & Son, C. H.	815 Yale Ave. N., Ca.	2221
Sorensen, Chas.	2502 30th S., Ra.	4774
Stevens, John	3450 23rd W., Ga.	6711
Thorlakson, G. B.	3026 W. 69th, Su.	0868
Ward, E. P.	2309 Warren Ave., Ga.	5011
Wilson & Long	Railway Exchange Bldg., Ma.	5159

Amalgamated Sheet Metal & Roofing Association

Builders Sheet Metal & Roofing	1716 Yale, El.	3650
Gretchell Roofing & Flooring Co.	901 Westlake N., Ga.	5741
Independent Sheet Metal Co.	1723 Westlake N., Ga.	7616
Occidental Sheet Metal Works	2310 Rainier, Be.	2300
Penn Sheet Metal & Roofing Co.	550 Denny, El.	3729
Puget Sound Sheet Metal Works	3631 E. Marginal Way, Ma.	0176
Seattle Cornice Works	1730 First Ave. S., Ma.	1544
Van Doren Roofing & Cornice Co.	1007 Westlake N., Ga.	7577
Washington Sheet Metal Works	1275 Westlake N., Ga.	5718

Northwest Master Painters' Assn., Inc., Seattle Chapter

Anderson & Nelson	10708 First Ave., N. W. SU.	5828
Atlas Painting & Decorating	3404 Woodlawn Park Ave., ME.	0610
Boseck, Larry H.	6553 24th Ave., N. W., SU.	8497
Branch, Stephen F.	6518 12th Ave., N. W., HE.	0116
Cuff, Harry W.	764 Belmont Place, EL.	3427
Erickson Painting & Decorating Co.	Lloyd Bldg., EL.	2025
Featherstone, James J.	4318 W. Juneau St., WE.	2768
Grant, R., & Sons	4411 Woodlawn Ave., EV.	0216
Gustavson, O. A.	4211 Juneau, Ra.	0248
Maier, Geo. S.	338 16th Ave., N. EA.	6525
Nelson & Chrystal, Inc.	211 E. Garfield, Ca.	2844
Nielson, A. P.	1820 17th Ave., Pr.	3322
Shepherd, A. F., Co.	524 5th Ave. W., Ca.	6196
Sundberg, Oscar	7007 21st Ave., N. E., KE.	4969
Vandenburgh, Geo. H.	7612 Linden Ave., SU.	6392
Weissenborn, A., Decorating Co.	516 Westlake, North, EL.	1834
West Coast Painters Co.	322 Kulien Bldg., CA.	0401
Western Painting & Decorating Co.	525 Pontius, MA.	5866
Zeberg, Louis	9274 52nd Ave, South, RA.	0815

Associated Woodwork Manufacturers of Seattle

Guarantee Millwork, Inc.	N. 34th and Woodlawn, Mel.	6500
Nordquist & Nelson, Inc.	120 W. Nickerson, Ca.	7173
Pacific Door & Mfg. Co.	7th S. and Charleston, Cl.	0410

Unclassified

Superior Portland Cement	Seaboard Bldg., El.	2280
Pacific Lime Co., Ltd.	Arctic Bldg., El.	3591
Seattle Hardwood Floor Co.	616 7th Ave. N., Ca.	1274
Rodgers Tile Co.	117-21 Yale Ave. N., Ma.	3446
Olympic Portland Cement Co., Ltd.	Dexter Horton Bldg., El.	1464
W. P. Fuller & Co.	Second S. and Jackson, El.	5334
Standard Gypsum Co.	1871 16th Ave. SW., El.	4033
Pacific Coast Cement Co.	L. C. Smith Bldg., Ma.	5080
Lockwood Lumber Co.	Western Ave. and Broad St., El.	2569
C. C. Belknap Class Co.	Railroad Ave. and Stewart, Ma.	9469

INTERMOUNTAIN BRANCH

Central Bldg.—Salt Lake City, Utah

J. B. Mullins, President
Karl Nelson, Vice-President
T. C. Sorensen, Secretary-Treasurer
Mark Tuttle, Manager

Alston & Hoggan (B)	Beason Bldg., Was.	2374
Berntsen Brothers (B)	1180 Warnock Ave., Hy.	4927-W
Bundy, Ora (PBH)	Kiesel Bldg., Ogden,	972
Burke, J. J., Co. (PHB)	Kearns Bldg., Was.	845
Christenson Const. Co. (HR)	Felt Bldg., Was.	5756
Christensen & Gardner (PH)	Terminal Bldg., Was.	2962
Clyde, W. W., Co. (PH)	Springville, Utah	
*Compton, J. C. (HPR)	McMinnville, Oregon	
Dinsmore, C. F. & Co. (PB)	Eccles Bldg., Ogden,	589
Gibbons & Reed (HP)	165 East 4th South, Was.	1238
Griffith, J. L. (PHR)	17 Central Bldg., Was.	1919
Jacobsen Construction Co. (B)	724 So. 3rd East, Salt Lake City	
*Morrison-Knudson Co. (HPR)	Cont. Natl. Bank Bldg., Was.	6585
Moser, John H. (B)	Logan, Utah	
Mullins & Wheeler (P)	2203 Hyland Drive, Hy.	1944
Nelson, Olaf (HPR)	Logan, Utah	
Palfreyman, B. D. (H)	167 East 2nd North, Provo,	Utah
Paulsen, Paul (B)	2109 Berkeley St., Salt Lake City	
Reynolds, Ely, Construction Co. (HPR)	Springville, Utah	
Rowland T. G. (BP)	1558 Yale Ave., Was.	3433
Ryberg Brothers (HPR)	207 Terminal Bldg., Was.	2962
Ryberg-Sorensen Co. (B)	207 Terminal Bldg., Was.	2962
Schraven, H. E. (B)	Dooly Bldg., Was.	6431
Strong & Grant (PBH)	Springville, Utah	
Sumsion, J. M. (HPR)	Springville, Utah	
Thorn, A. O. (HR)	Springville, Utah	
Union Construction Co. (HP)	Ogden, Utah,	53
Utah Construction Co. (PHR)	McIntyre Bldg., Was.	4435
Utah Construction Co. (PHR)	First Natl. Bank Bldg., Ogden	491
Walker Bros Trucking Co.	609 McCormick Bldg., Salt Lake City	
Wattis-Samuels Co. (PHR)	Walker Lane, Holiday,	Utah
Wheelwright Constr. Co. (HPR)	2434 Monroe Ave., Ogden,	451
Whiting, Floyd S. (HPR)	Spanish Fork, Utah	
Whiting, J. W. (HPR)	Springville, Utah	
Whitmeier, Geo. A. & Sons Co. (B)	2759 Grant Ave., Ogden,	246
Young & Ogden (HPR)	Richfield, Utah	

*Contributing Members.

Class of Construction: (B) Building; (H) Highway; (P) Public Works; (R) Railroad.

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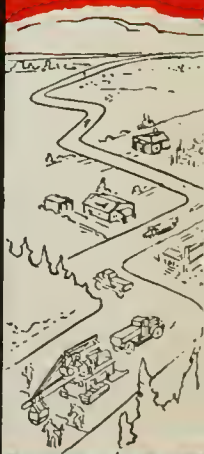


ENGINEER PREDICTS VAST MARKET FOR
AIR-CONDITIONING APPARATUS

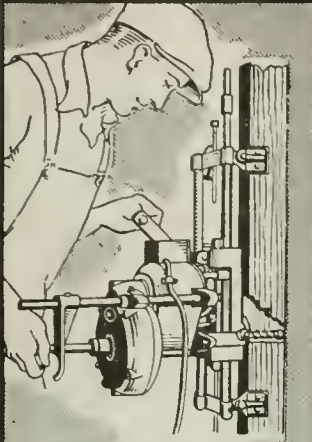
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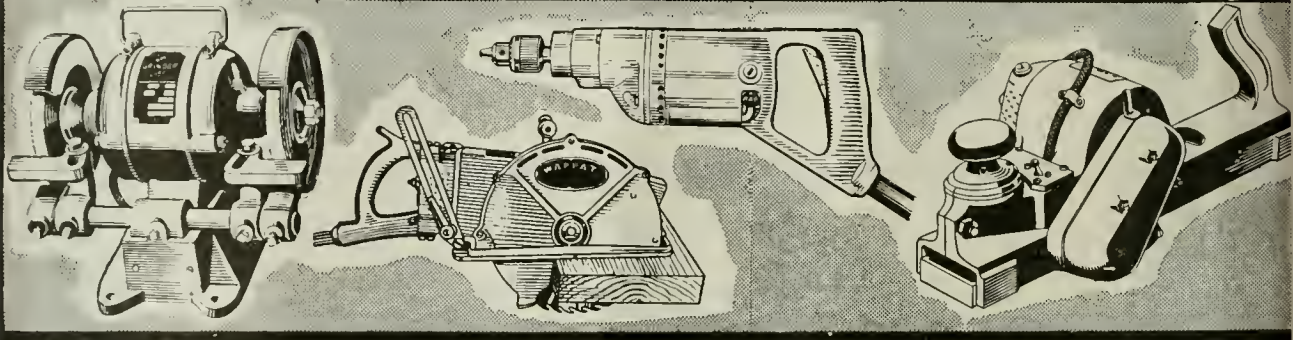
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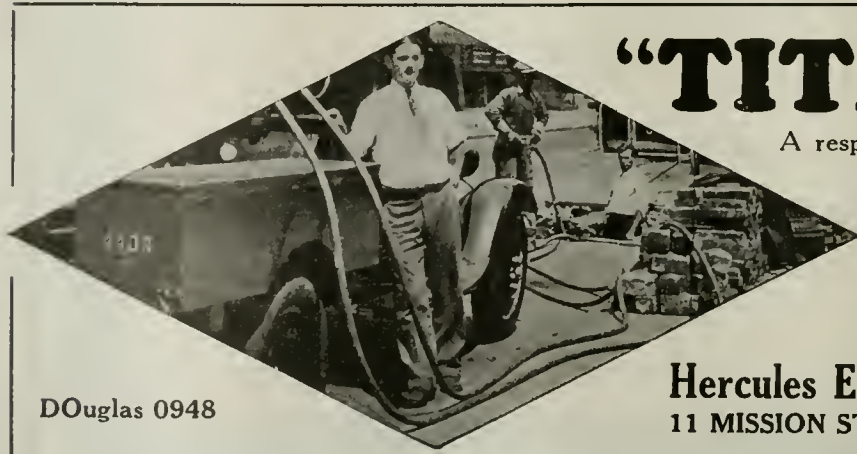
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Official Publication of the Associated General Contractors of America
for the Eleven Pacific Coast States

SAM B. EUBANKS, Editor

Vol. 16.

SAN FRANCISCO, CALIF., FEB. 18, 1933

No. 5

MEYER BROS. BID \$104,442 ON MARIN FIELD QUARTERS

Eastern Firms Submit Low
Figures on Visalia
Postoffice

Thirteen proposals were received on the contract for construction of 12 sets of officers' quarters at Hamilton Field, Meyer Bros., San Francisco, being low at \$104,442.

The second and third low figures were submitted by Robert E. McKee, Los Angeles, at \$109,900, and Leo Epp, San Francisco, at \$114,353.

Two eastern contracting firms presented the first and second low bids on the Visalia postoffice. The low bid was \$105,700 by Murch Bros. Const. Co., St. Louis. North Moller Company of Jackson, Mich., was second at \$109,989, and Bannister-Field, Los Angeles, third at \$110,500.

Bids for grading and paving 2.9 miles of state highway north of Bakersfield were opened yesterday in Sacramento, the low figure submitted by Gogo and Rados, Los Angeles, at \$118,547. Fredrickson and Watson and Jones and King, Oakland, were second low at \$137,341.

BRICKLAYERS TO GET \$11 ON U. S. CONTRACT

Thirty bricklayers employed on the Government Island building project will continue to receive \$11 a day, the Department of Labor has ruled.

Protests were entered by brick contractors against the \$11 wage scale which it is contended is higher than the prevailing rate in this vicinity. The controversy was settled by appealing to Secretary of Labor Wm. N. Doak. His decision was received yesterday, upholding the union.

Bricklayers in the Eastbay recently made an agreement to pay \$9 a day for all labor, conforming to the scale fixed by the Impartial Wage Board.

THE WEEK'S NEWS Highlights

SAN FRANCISCO BAY BRIDGE: Official bid calls were issued for three additional contracts on the San Francisco-Oakland Bay Bridge, bringing the total work authorized to date to approximately \$40,000,000. The first bids will be received February 28 at Sacramento, and others in San Francisco, March 2, 7 and 8.

BUILDING PERMITS: San Francisco's January building permit total, including \$12,440,700 in work on the Golden Gate Bridge, were the equivalent of all the building permits reported by the ten largest cities in the United States during December. The city's total was \$14,557,555.

AIR-CONDITIONING: Engineers, architects and contractors held a two-day conference in San Francisco and Berkeley devoted to the engineering and commercial aspects of the air-conditioning industry. Speakers predicted air-conditioning would be part of all new building specifications in the near future.

AQUEDUCT ROAD CONTRACTS: Los Angeles Metropolitan Water District awarded contracts for 84 miles of roads in the Colorado aqueduct system. The awards aggregated \$400,739 under four schedules.

LUMBER ORDERS: New orders showed a consistent gain over production at western lumber mills during January and the early part of February, according to the West Coast Lumbermen's Association.

IMPORTANT OPENINGS: Include proposals on the construction of 12 sets of officers' quarters at Hamilton Field (Meyer Bros. low at \$104,442); Visalia post office (Murch Bros. low at \$105,700).

EXPECT TEN TO BID ON BAY BRIDGE

Sixty Sets Of Specifications
Out From Commission
Office

Ten of the largest contractors in the United States are studying plans and specifications for the construction of the West Bay Foundations of the San Francisco-Oakland Bay Bridge, bids on which will be opened February 28, it was reported yesterday by Chief Engineer C. H. Purcell.

Director of Public Works Earl Lee Kelly requested an estimate of the number of bidders anticipated and was informed by Purcell no estimate could be made but that the largest contractors in the United States including firms in New York City, Pittsburgh, Philadelphia, Chicago, St. Paul, Kansas City and Los Angeles had requested and received sets of plans and specifications and were making extensive investigations of the contract.

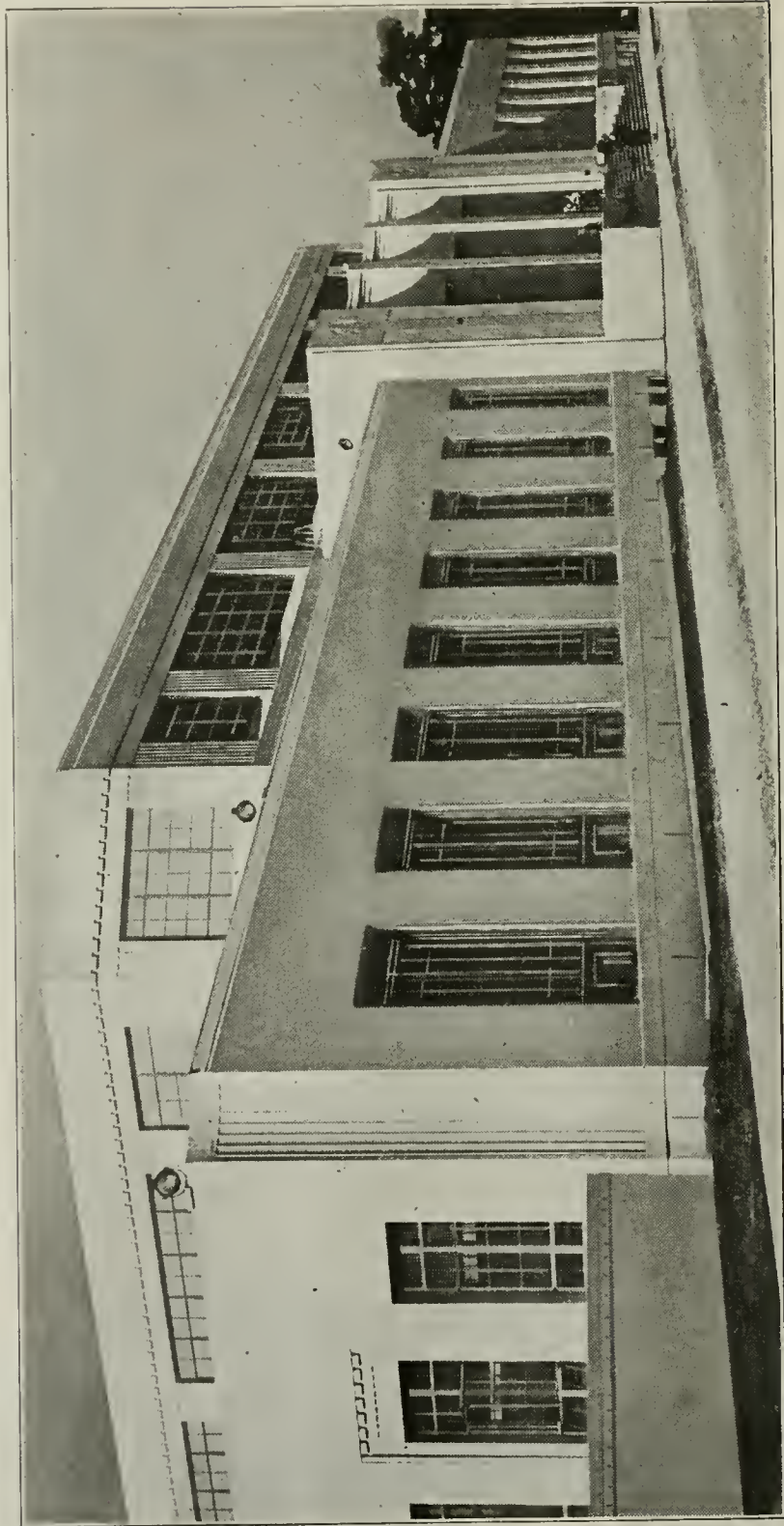
"The Bridge engineers are gratified by the interest shown by the largest contractors of the United States in our first contract, No. 2, which provides for the building of the substructures in the West Bay" Chief Engineer Purcell said.

"More than sixty sets of plans and specifications have been issued. Of course, the larger number goes to those interested in materials, and probably some to firms incapable of bidding. There are, however, more than ten of the largest contractors in the United States showing an active interest in this first contract for the San Francisco-Oakland Bay Bridge."

Contract No. 2 calls for the construction of five deep water piers between San Francisco and Yerba Buena Island at an estimated cost of nine million dollars.

MOVE BRANCH OFFICES

Branch offices of Allis Chalmers Manufacturing Company, tractor division, have been moved from Spokane to Portland, A. E. Mills is branch manager. Clyde Equipment company will continue as dealers, it is announced.



Modern gymnasium just opened at University of California, Berkeley, replaces antiquated plant in use more than fifty years. The new building and equipment represents the most modern development in an institution dedicated to physical training and protection of student health. The building was designed by Architect George W. Kelham; H. J. Brunner, structural engineer, and Hunter & Hudson, mechanical engineers.

Pacific Coast Dealers' Installations. Make Berkeley Athletic Plant Model Center Of Student Physical Training

University of California men students now have the advantage of a gymnasium equal to that of any institution in the world in construction and facilities. With the opening of classes in 1933 athletic activities at the Berkeley campus were transferred from the ancient Harmon gymnasium to the new plant, built and equipped at a cost of approximately \$1,000,000.

The building was designed by Architect George W. Kelham of San Francisco in collaboration with H. J. Brunner, structural engineer, and the firm of Hunter and Hudson, mechanical engineers.

Leading Pacific Coast manufacturers and dealers participated in furnishing the variety of up-to-date equipment specified by university athletic directors and physicians who made their recommendations after a survey of gymnasia throughout the nation. The complete plant brings into one institution for the first time a combination of all up-to-date devices for the care of student health and promotion of indoor sports.

The gymnasium is in fact a group of gymnasia, including a main basketball court and auditorium that will seat 7000 persons, three specially equipped rooms 40 by 60 ft. each for boxing, wrestling and apparatus work, and a fencing room, 21 by 59 feet. There are five squash courts, convertible to handball singles courts.

Armories for the military and naval officers' training units are located in separate quarters.

Two rooms are equipped with sunlamps under which students ailing from colds and minor respiratory diseases will receive ultra-violet treatments.

Four thousand lockers provide individual storage space for clothing and gym suits for all physical training students. There are 225 heads in the shower rooms.

The main hall can accommodate 7000 spectators for a basketball game or three simultaneous boxing or wrestling matches or will allow three practice basketball games to be played at the same time. The hall measures 160 feet by 210 feet with a 52-foot ceiling. Clear floor dimensions are 100 by 150 feet.

Five thousand spectators may be seated in the balcony, while an additional 2000 are accommodated in portable bleachers extending from the balcony to the main floor.

Two swimming pools are located outdoors at the southern end of the building. The general pool is 60 by 100 feet with a depth varying from 4 to 9 feet. It is supplemented by a special pool for diving practice ranging in depth from 9 to 12 feet and measuring 40 by 75 feet. Diving equipment includes six 1-meter boards, two 3-meter boards, two sand-pit boards and a 5-meter diving tower.

The building itself is 395 feet in length, 205 feet in width, and 60 feet in height, including 3,450,000 cubic feet of space and 119,000 square feet of useful floor space. Outdoor pools and decks which are enclosed by a concrete wall add another 49,000 feet of space.

Materials used in construction included 10,800 cubic yards of concrete; 14,500 barrels of cement; 360 tons of reinforcing steel; 1,010 tons of structural steel; 550,000 board feet of form lumber.

FRESNO BUILDERS ELECT MARCH 24

Officers of the Fresno Builders' Exchange will be elected at the annual meeting of the directors March 24.

Eugene O. Thompson, head of Thompson Bros. and vice president and acting president of the exchange since the recent death of A. M. Goedel, is slated to be elevated to the presidency.

Other officers are J. M. Brown, treasurer; Harry Cayford, secretary-manager, and Thompson, Brown, F. M. Low, A. M. Healey, M. W. Hancock, H. G. Rohr, L. G. Jeffrey, R. E. Jolly and T. A. Osborn, directors.

Delegates to the semi-annual convention of the California State Builders' Exchange in Los Angeles, March 17 and 18, are soon to be named by the directors.

U. C. ENGINEERS' DAY CELEBRATION MAR. 10

Engineers' Day will be observed on the University of California campus, March 10, it is announced by a committee of the engineering college in charge of the day's program.

Open house will be held in the departments of electrical, civil, mining, mechanical and chemical engineering from 1 o'clock to 6 o'clock. Among the demonstrations and exhibits will be a symposium on welding, models of the Golden Gate and San Francisco Bay bridges, television, modulated light beam communication, kerosene, hot air and Diesel engines, tesla coil high frequency, fatigue tests, aircraft construction, Pelton water wheel and liquid air.

The public is invited to visit all the college departments.

SAN ANSELMO PERMITS

Permits for two new residences were issued in San Anselmo during January, according to the report of Chas. H. Cartwright, building inspector. The total value of new construction for the month was \$12,300.

\$4150 IN NEW STATE LABOR LAW PENALTIES

MacDonald Drive To Enforce Wage Scale on Public Works Is Launched

Frank C. MacDonald, State Labor Commissioner, announced yesterday that, in a drive to enforce the Prevailing Wage Rate Law on Public Works, he has notified the California Highway Division and Division of Architecture that investigations made by his office disclosed 415 violations of this law by contractors and subcontractors doing public work and that he has asked penalties totaling \$4150 be assessed and held out of the payments due on the three jobs involved. These new penalties are in addition to the \$4220 announced by Mr. MacDonald on Feb. 4, 1933, and are as follows:

1. Against Rocca & Caletti of San Rafael, contractors on the Livingston Bridge, Merced County, being erected for the State Highway Division, for failure in 121 instances to pay steelmen, carpenters, trouble shooters and piledriver men the prevailing rate as set forth in the contract covering the job at \$10 per day for each violation, \$1210.00.

2. Against Wm. G. & A. Gilmour of San Francisco, plastering subcontractors under R. W. Littlefield, contractor erecting Veterans Home at Yountville, Napa County, for failure in 200 instances to pay plasterers employed on the job the prevailing scale set forth in the contract covering the job, at \$10.00 per day for each violation, \$2000.

3. Against D. McDonald and N. M. Ball of Sacramento, contractors engaged in widening the Yolo Causeway in Yolo County for the State Highway Division, for failure in 94 instances to pay pile driver men engaged in capping piles the prevailing scale set forth in the contract covering the job, at \$10.00 per day for each violation, \$940.00.

Penalties announced Feb. 4 were as follows:

1.—On State Armory job at Salinas, Guth & Fox of Sacramento, contractors, total penalty \$830.00 against the following subcontractors:

1.—P. H. Donnelly of Oakland, plastering subcontractor, 52 violations, \$520.00.

2.—W. A. Dontanville, Salinas, excavating subcontractor, 19 violations, \$190.00.

3.—Tynan Roofing & Tile Co., Salinas, roofing subcontractors, 12 violations, \$120.00.

II.—On State Teachers' College job at Arcata, Humboldt County, Andy Sordal, contractor, total penalty \$3390.00, against the following subcontractors:

1.—Leon R. Smart, Los Angeles, lathing subcontractor, 145 violations, \$1450.00.

2.—Estate of W. H. Robinson, Los Angeles, steamfitting subcontractor, 195 violations, \$1940.00.

General Electric Engineer Says U. S. Homes And Offices To Spend Billions For Air-Conditioning Installations

NOTE: Following is a portion of a paper by Elliott Harrington, Engineer in the Air-Conditioning Department of the General Electric Company.

Back in 1915, Dr. Steinmetz wrote as follows:

"When heating is done electrically, if I want 70 degrees in my home, I shall set the thermostat at 70 and the temperature will not rise above that point. This temperature will be maintained uniformly without regard to the temperature outside.

"If it is very cold, electric heaters will hold the temperature at 70. If it should be 90, or 100 degrees outside, the same electrical apparatus will cool the air inside. In this way, we shall have a uniform temperature in our homes throughout the year.

"Besides temperatures, we have to suffer from humidity, or from dryness of the air. This is especially true with the present-day furnace. With electric equipment, we shall be able to control this and have humidity normal at all times. This electric equipment will have an absolute automatic control of both temperature and humidity.

"Ventilation doesn't exist in the average home today. At present, we have to depend upon the windows and doorways, or we turn on an electric fan to blow the bad air out. When electricity is developed, we shall have apparatus that will destroy the bad air, bring fresh air into the home, and when the air outside is not sufficiently invigorating, automatically arrange a distribution of ozone. We shall constantly have good, fresh, pure air indoors."

A substantial portion of this prophecy, made 17 years ago, has come true and the balance of Dr. Steinmetz' prediction, with the possible exception of the proposed use of ozone, is destined to be realized.

Some of the further developments in the field of air conditioning will be as follows:

It is recognized that the best mechanical treatment of air which is known today does not reproduce the buoyant and exhilarating air conditions of a spring morning in the open country. In other words, one or more fundamental requirements must be added to the definition of air conditioning for comfort and health, as given previously in this paper. Ionization of the air has been suggested as one essential factor but it has not yet been identified. Perhaps there are other missing elements. Some day they will be fully recognized.

The effect of air conditioning on comfort is well established but its full effect on health is not entirely proven. The A.S.H.V.E. is carrying on an investigation, aiming to fully identify the benefits of air conditioning to health.

A more definite measure of comfort is needed than that given on the Comfort Chart referred to previously. In other words, a comfort meter is essential to the accurate handling of air conditioning problems. Perhaps a very exact measure of skin surface temperature will lead to the development of such a meter.

Adequate as our present heating systems are, they are susceptible to fundamental improvement. In this regard, the following quotation from a paper by Professor C. P. Yaglou of the Harvard School of Public Health is pertinent:

"It is now beginning to be recognized that our present heating methods are crude and much less healthful than Nature's method. There seems to be a great difference between the sensations of warmth, comfort, and well being, produced by solar radiation falling upon the human body on a pleasant cool day, and those which arise in rooms heated by the usual convection methods. The assertion is often made that the 'common cold' and other more serious respiratory diseases begin with the heating season, and there are good reasons to suspect that the effect may be due, at least in part, to the source and nature of radiation employed in modern heating systems."

Professor Yaglou then goes on to show that the most obvious difference between heat from the sun and the heat given off by our accepted systems of heating, is the form of the heat ray. Generally speaking, our artificial heat sources emit only the 'long infra-red' rays, whereas the "short infra-red," the "visible" and the still shorter "ultra violet" rays which go to make up sunshine, are almost entirely absent. It is now believed that rays from this portion of the spectrum are essential to life and health and that many of the common winter ailments are due to the absence of the visible and ultra-violet rays of the sun.

Leonard Hill recently reported some very interesting observations to the Royal Institute of Public Health in London. Hill said that he was very sensitive to the depressing stuffy effect produced by the "long infra-red" rays and that the direct heat from an ordinary radiator deflected the septum of his nose closing up the left side. A dull electric fire under a well ventilated chimney produced the same effect, but when the source of radiant heat was screened from his face, the stuffiness disappeared and his nose reopened. Carrying his observations further, Hill is reported to have cut a hole in a piece of cardboard and, using this to screen his face he breathed the warm air thru the hole. In this case, the nose remained open until the screen was removed, when it closed again.

The same results were obtained

from the heat radiated by coal stoves and panel heated walls, but gas or electric incandescent heaters did not produce these results. It seems fair to assume that this was because these sources of heat give off "short infra-red" rays as well as a small percentage of "visible" and "ultra-violet" rays.

Summing up the above, it seems obvious that man-made heating systems now in general use do not equal the characteristics of nature's heating system. The increasing use of sun lamps in the home is at least in the direction of overcoming this probable deficiency.

It is difficult to determine the extent of the future market for Air Conditioning apparatus because of the rapid development which is now taking place. It has been estimated that in the present state of the art, the potential market is at least five billion dollars. This does not seem excessive when one thinks of the thirty million homes in this country, over twenty million of which are electrically wired. Added to this there are twenty five hundred large theatres, one thousand large department stores, fifteen hundred banks, not to mention the office buildings, chain stores, restaurants, hotels, specialty shops, railway trains and motor buses. It is certainly safe to say that the market possibilities are tremendous and the resultant benefits to health and comfort are well worth the investment.

On every hand, there is evidence of a growing interest in better housing. With thirty million homes in this country, a great majority of them are either obsolete or deficient in one or more major respects. In fact, probably not one per cent of these homes, fine as many of them are, approach the readily possible standard of comfort, convenience, cleanliness and health.

Perhaps the greatest economic force in this country is represented by the two hundred and forty eight billion dollars of assessed real estate valuation in the United States. Isn't it perfectly conceivable that some day we may see a substantial improvement in the home building industry? The forces are already at work. There are separate programs under way, all dedicated to the production of a moderate sized home erected from factory-made sections in a few days instead of three to six months, embodying equipment for comfort and health undreamed of a few years ago; all at a cost of less than the corresponding cost with present accepted methods. All of this is well into the future, but it is on the way.

The unit kitchen, with every conceivable convenience built in, is already a reality. So is the unit laundry. It remains to amplify these and other unit principles, reduce them to practice and then obtain the distribution which will permit quantity manufacture. And what is more necessary to the health and comfort of the families who will abide in these homes, than the proper air conditions within? Air Conditioning will certainly

be part and parcel of them all; inconspicuously built into the units, standardized completely and provided at a cost absurdly low when the resultant benefits are considered.

The would-be prophet is often a dangerous person to have around but, nevertheless, it does seem in order to make the following rather conservative and entirely justified prediction:

The day is coming when the air conditioning of the enclosures in which we live and work will be the generally accepted standard and apparatus for conditioning air will be installed, even in small homes, with the same nonchalance that electric lighting and modern plumbing are now specified. The air conditioner for the home will be a single unit installed much as a boiler is now placed in the basement. It will be a perfectly standardized article, manufactured in large quantity, relatively light in weight and purchasable at a reasonable price. It will not only provide the four essential elements of air conditioning as now understood but will take care of additional factors yet to be discovered, to produce in the home a degree of comfort and health as yet unknown. The Air Conditioning contractor will be skilled in application engineering as well as in the merchandising of his product.

Air Conditioning is not a great new industry which has sprung into being over night and which, alone and unaided, will carry the country out of present economic difficulties. However, it is an industry which has been gradually growing for years, and which will continue to grow, rich in achievement and full of promise for greater health, happiness and prosperity to all mankind.

\$140,000 R. F. C. FUNDS FOR STATE RELIEF

First funds from the Reconstruction Finance Corporation for relief work in California have been deposited with the state treasurer, according to S. Resford Black, director of the labor camp committee.

The R. F. C. has forwarded a check for \$140,000 and this will be supplemented with an equal amount to be delivered in February. An additional \$250,000 may be obtained later in the spring, Black said.

Machinery was put in motion immediately to enlarge the state labor camp program for care of unemployed transients. The number to be housed in the camps will be increased from 5,000 to 15,000.

"This means there will no longer be any occasion for further 'panhandling' on the streets of California cities by jobless men," said Black.

"If any one stops you on the street and asks you for a dime to buy coffee and doughnuts, you will be justified in telling him that good food, warm clothes and shelter are now available at the state labor camps, and all he needs to do is to apply."

L. A. HAS THIRD OF STATE TRUCKS

There was 106,233 trucks registered in the state of California during 1932, according to a report of the state department of motor vehicles. More than one-third of this number were in Los Angeles county. In the same period licenses were issued for 61,860 trailers.

The division of pneumatic tired trucks and solid tired trucks was as follows: Pneumatic, 93,244; solid, 8,039; trailers, pneumatic, 54,752; solid, 7,118.

Complaints To State Contractors' Bureau Average 42 Monthly; 113 Suspended

The Bureau of Contractors' Registration has been exceedingly active during recent months in stamping out the unethical and illegal practices of the irresponsible contractor and builder, and the work of this unit of the Department is meeting with an increasing degree of success, reports Glen V. Slater, assistant registrar of contractors.

The number of cases brought before this bureau is on the upward trend, and in ratio to the decline in general building operations of two years ago, the number of complaints handled is vastly larger, even though the number of complaint cases does not show an increase in round figures, according to Slater.

During the 12-month period ending December 31, approximately 500 contractors were hailed before the Registrar upon complaints of their patrons charging fraudulent substitution of cheaper and inferior materials, departure from plans and specifications, violations of labor and safety laws, abandoning projects illegally, or leaving labor and material liens from claims for which the owner had issued funds.

This is an average of almost 42 complaints per month of a serious nature, and the monthly inflow of cases is on an even keel with the average during the two and a half year period from the time the Bureau was created by the 1929 legislature until June 30, 1932.

Investigations and formal hearings held upon the charges against the 495 contractors resulted in the suspension of the licenses of 113 builders to operate in California, while 20 licenses were unconditionally revoked during the past year when the contractor was found guilty of charges lodged against him. Of the 362 cases where suspension or revocation orders were not given, a substantial number were dismissed either at the hearing or prior thereto because of satisfactory adjustments made.

"A total of 635 former hearings were held by the Registrar during the year," the report states. "These figures, however, do not include the large number of informal cases handled by inspectors in the field and settled to the satisfaction of all concerned by arbitration following the filing of formal charges, but prior to and without the neces-

LARSEN BROS. GET LEVEE CONTRACT

Larsen Brothers, of Galt, Sacramento county, have been awarded a contract to complete 366,000 cu. yds. of fill for the American River Flood Control District. The district is constructing a levee to protect North Sacramento from floods and originally awarded a contract for the work to T. S. Atkins of Berkeley at \$.0719 per yard.

Atkins abandoned the contract after moving 224,000 yards. His bondsmen, the Hartford Accident and Indemnity Company, employed Larsen Brothers to complete the work at \$.085 per cubic yard.

sity and expense of a formal hearing. An average of more than 50 such cases are adjudicated monthly.

"The recently inaugurated policy of settling as many of the cases as possible in an informal manner and by arbitration in the field has greatly expedited the work of the Registrar and eliminated the necessity of many prolonged actions of a quasi-judicial nature.

"While we have been singularly successful in weeding out the incompetent and irresponsible contractor, thus averting heavy losses to property owners, we have similarly endeavored to exercise a policy of tolerance and leniency and have avoided ruling a man out of the right to engage in his chosen field of endeavor when and wherever possible.

"Consequently, 27 of the contractors whose licenses had been suspended were able to obtain reinstatement upon making satisfactory restitution to the complainant for damages suffered and upon presentation of evidence that he would re-engage in his business in a law-abiding manner and live up to the standards and ethics within the industry, which must be maintained for public safety.

"However, it was necessary to resort to criminal action in many cases where persons engaged in the building industry without a license and in defiance of the State Registration Law. A total of 81 prosecutions were instituted during the 12 months, resulting in convictions being obtained in 74 cases, approximately 92 per cent of the court cases ending in guilty verdicts.

"In view of the surplus accumulated by the Registrar's office, formal recommendation was made that the fee be reduced from \$10.00 to \$5.00 per year by the legislature.

"Strange enough, this proposed reduction is being opposed by substantial groups within the industry, the first to go on record being the California Council of Master Painters and Decorators, who at a recent convention in San Jose, passed resolutions urging the legislature to not lower the fee, and advocated the expenditure of the full revenue for the employment of additional inspectors in order to permit greater stringency in the enforcement of the act."

ALTA ELECTRIC WILL SUE ON SCHOOL AWARD

Sacramento District Bid Rejection To Be Taken To Court

Suit will be instituted to contest the validity of a contract awarded for the electrical, plumbing and heating work on the new Kit Carson junior high school the Sacramento board of education has been notified by the Alta Electric and Mechanical Company of San Francisco.

Walter A. Dold, attorney for the company, notified the board his firm would take the award into court unless the directors rescinded their action in awarding the contract to the second low bidder.

The combined bid of the Alta company was rejected although it was low by approximately \$1800 because the firm failed to submit its proposal on the bid form furnished by Architect Chas. F. Dean.

The three contracts were awarded to three Sacramento firms, Hatley & Hatley, Carpenter & Mendenhall and George C. Foss.

Dold claimed in his letter to the board that no provision was made in the architect's bid form for a combination bid on the segregated contracts and therefore the Alta company was forced to use its own bid form.

A letter from the Sacramento Chamber of Commerce commended the board for rejecting the San Francisco bid and keeping the contract in the hands of Sacramento firms.

Superintendent of School Chas. C. Hughes was instructed to confer with the district attorney as to legality of the award.

RECOMMEND AGAINST CONTRACT RELEASE

In a letter to William H. Worden, Director of Public Works, City Engineer John J. Casey recommended that the application of his contract on a city paving job be denied.

Treacy won a contract in February, 1932 for the improvement of Rutledge Street, Alabama Street to Peralta Avenue. While public proceedings were in progress, the State of California acquired a lot fronting on this portion of Rutledge Street. Treacy asks release on the ground that he cannot collect for work done in front of State property.

Imperial Granite Company, 414 S bond he retained, and the project readvertised.

Installation of mechanical stokers totaled 1,287 units in 1932 compared with 2,463 in 1931. A significant feature of the manufacturers' report to the Department of Commerce is in the installations in residences which totaled 6783 units in 1932 compared with 6915 for the preceding year.

NEW SPECIFICATIONS READY SOON FOR AQUEDUCT TUNNELS

LOS ANGELES, Feb. 11— Revised specifications for the Valverde and Bernasconi tunnels of the Colorado River aqueduct will be completed shortly and the contracts will be readvertised, F. E. Weymouth, general manager and chief engineer, informed the board of directors of the Los Angeles Metropolitan Water District today.

Weymouth said he would recommend that bids be taken on both full and half-capacity tunnels. The alternative proposal will provide for a reduction in diameter of from 16 feet to 12 feet, probably.

The original call for bids on the two tunnels was cancelled when the directors decided to revise the specifications.

DISTRICT AGENT MOVES OFFICES

C. F. Henderson, manufacturers' representative in this district for a group of companies, announces a change of address to 420 Market street, San Francisco. His office formerly was in the Call Building. Henderson represents the following companies: Cleveland Worm & Gear Co.; Electric Controller and Mfg. Co.; Electric Furnace Co.; Electric Machinery Mfg. Co.; Esterline-Angus Co.; General Control Corp.; Griscom-Russell Co.; Jewell Electrical Inst. Co.; Kuhlman Elec. Co.; Marshall Electric Co.; Terry Steam Turbine Co.; Western Electro-Mechanical Co.; Weston Electrical Inst. Corp.

CATTON CONVICTED ON GRAND THEFT

Francis J. Catton, whose operations as self-styled architect in Northern California brought him under the scrutiny of the board of architectural examiners, has been found guilty of grand theft in the San Francisco court of Superior Judge Conlan. Catton has asked for probation and his plea will be heard on February 15.

SET PROGRAM FOR BAY BRIDGE BID OPENING FEB. 28

Elaborate Ceremonies Arranged By Kelly at State Capitol

Program for opening of the bids for the seventy-eight million dollar San Francisco-Oakland Bay Bridge has been announced by State Director of Public Works Earl Lee Kelly, Executive Chairman of Governor Rolph's Committee in charge of this history making event in Sacramento February 28.

Under the program outlined, the governor's committee will assemble at Director Kelly's office in the Department of Public Works Building at one thirty o'clock Tuesday afternoon, February 28. A police and military escort in automobiles, marshalled by Adjutant General Seth Howard, will escort Director Kelly and the committee, consisting of the mayors of all interested cities as well as officials and leading citizens from all cities in the bay region, from the State Department of Public Works to the State Capitol. The automobile escort for the bids, sealed in the locked box, will move through the business district of Sacramento on its way to the State Capitol.

At two o'clock in the Assembly Chambers, Director Kelly will announce the bidding closed. Mayor Fred N. Morcom of Oakland will speak, followed by Mayor Angelo J. Rossi of San Francisco. Governor James Rolph Jr., will then make the principal address, and will order the bids read, which will signalize construction of the first unit of the bridge. This unit calls for the construction of foundations for the western half of the bridge and involves work estimated at nine million dollars. The contract provides for the building of five piers founded on rock beneath the bay between San Francisco and Yerba Buena Island. One of these huge piers will extend two hundred feet below and three hundred feet above the water's surface. In plan it will be 92 x 197 feet, exceeding both in height and volume of materials required the Russ Building in San Francisco.

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IRON INDUSTRY WILL CAMPAIGN FOR NEW MARKET

Traditional Attitude Is Reversed As Manufacturers Seek Volume

Business management has learned its lesson from the depression and has perfected plans for fighting back, according to Charles F. Abbott of New York, executive director of the American Institute of Steel Construction, who addressed the joint meeting of the Builders' Exchange and Construction Industries Committee of the Chamber of Commerce of Los Angeles. Mr. Abbott reviewed the experience of the past three years as a sales executive and pointed out that it has clearly been demonstrated that when selling stops, buying stops. That is exactly what happened in 1932, and accounts for the smallest sales turnover in the United States since 1913.

"We went through the low trough of the depression last summer," said Mr. Abbott, "only because our business executives were hamstrung by the financiers who claimed the last ounce of liquidation blood. They discontinued selling through a mistaken notion that there were no more consumers with a cash surplus. Salesmen were taken off the road, advertising was withheld, and all because fear, instilled by liquidationists, had chilled our blood.

"Not only must we renew our advertising and selling efforts to regain our business," said the speaker, "but we must go about the recovery in a scientific way. We have discovered," he said, "that un-economic, wasteful avenues of selling and distribution are a dead weight upon the prosperity of all business. But with the lessons learned from the depression well in mind the business of the United States is prepared to soar ahead to new heights of prosperity.

"The steel industry, of which ours is an important part, is going through a great change. It is one that cannot be effected overnight because of the deep-seated heritages and the vastness of the industry's ramifications. But it is none the less obvious and proves my thesis.

"It is a huge undertaking to transform the steel industry from a production attitude of mind to one wherein distribution becomes the chief incentive. That represents a radical change that calls for a complete revolution in thinking and planning. Ultimately the change will occur as future progress will depend upon the market and not upon the plant. In fact, it has already begun.

"Steel cannot be produced unless it can be sold. It cannot be sold unless a demand exists or is created. Obviously production depends upon sales, therefore, the market should invite the major part of business thinking and planning.

"There is a tremendous opportunity to develop new uses for all kinds of steel products. There are

also possibilities to extend present markets beyond the existing normal rate of consumption. Technical research to reduce costs, improve quality and develop new applications represents a need if these ends are to be accomplished.

"More efficiency in selling, with an aggressive militant approach to market possibilities would then find a way necessary for greater and more profitable results.

"We hear the claim that structural steel is not sold, but that it is bought. That may be the custom, but that it should be sold is evidenced by the fact that profits are a logical conclusion of selling and they disappear whenever the buyer dictates the price.

"We must develop selling on a new basis. Under this new method all compensating rewards must be based upon the amount of net profits that a salesman produces. A profit is the only excuse for any business and without profits there should be no cause for any compensation. Salesmen must become profit-conscious, and they will as soon as they become creative business builders.

"What is profit? It is the amount received for the sale of a commodity in excess of its cost. If there is no excess above its cost the article is given away. If it is sold for a price less than its total cost, then the seller pays for the privilege of giving it away. What is cost? It is the sum total that includes cost of material, labor, insurance, taxes, depreciation, and all overhead burdens that include the selling costs.

"Only a few years we were proud of our thousand-ton furnaces. We marveled at our new mills that would roll our hoops at a speed of thirty-two miles an hour. Mechanical puddling, and all technological improvements were considered as a means of salvation. As important as these engineering improvements undoubtedly are, they failed to solve the marketing problem of the industry. I sometimes wonder if they did not hasten the day of accounting, the day when we were brought face to face with our marketing difficulties?

"Only a few years ago the bulk of sales of this industry was a tonnage product. Today new alloyed steels are being turned out and other specialties in a vaster quantity than was ever dreamed possible. A larger percentage of the ingot capacity of the steel industry is now being consumed in these specialties. In demonstrating technical research it has been discovered that the market and its needs are of greater importance than was credited in those dark days of the past.

"We should not forget that research, new uses and new markets, will fail completely unless the public are acquainted with the product and educated to all of its advantages. Their approval must first be attained before a demand can exist. Orders never happen, they must be stimulated and obtained by conviction, and this calls for intelligent advertising, sales promotion and aggressive salesmanship. The financing of such an undertaking

should be based upon the volume of business that it is possible to obtain and appropriations made in sufficient yearly amounts that would justify a constantly increasing business.

"There is a tendency on the part of too many of our business men to hesitate or postpone the investment of money for the purpose of developing their markets. If it were a problem of production they would be dealing with plants or equipment which are tangible results that they can see following completion. This is not true when it comes to markets. Here we must deal with the intangible represented by a fickle public mind that is always subject to whims and fancies. And yet it is just that public psychology that is encountered and it is responsible for every order that is obtained.

"We should not forget that it was but fifty years ago that a temperature was commercially produced that would melt a steel ingot and which made possible an economical use of steel. Since that time civilization has made greater progress than during all the previous two thousand years.

"All of our electricity, transportation, machinery, tools, agricultural implements, were made possible by this single discovery. Without steel we would return to the Stone Age. Automobiles, radio, motion pictures, aviation, our great steel bridges and skyscrapers and other accomplishments have been made possible by scientific research and invention.

"With the tremendous increase in our educational facilities we are graduating each year greater numbers of students prepared to go forward with advanced knowledge. Laboratories and scientific data accumulated during the past generations are now at the disposal of these students who in turn will add still greater intelligence to the field of science and invention.

"Who would admit that the troublesome times experienced during the present depression have brought an end to scientific progress and invention? No, that is not the American spirit. In the past we have always profited by our adversities and we will do so again.

"Scientific research and invention will bring into being many new industries that will surpass any that we have as yet developed. This progress will be vast and magnificent. It will mark a period of greater opportunities and those who have the will to conquer will benefit the most.

"Just as the master word of yesterday was initiative, so the word of today is cooperation, and the word of tomorrow will be intelligent coordination. Our immediate task is to understand coordination of effort and be prepared to put it into practice."

Oil burner manufacturers reported orders for 67,543 units in 1932, compared with 83,003 in the previous year. Unfilled orders at the end of December were for 607 units compared with 378 in December, 1931.

42 CENTS SHARE NET REPORTED BY PARAFFINE COS.

Substantial Gain Is Shown In Second Period Of 1932

Paraffine Companies Inc., reports net earnings for the second half of 1932, after full charges for depreciation, reserves and Federal taxes, were \$199,567, or approximately 42 cents a share on the outstanding stock.

The second half of the year profits compare with a net loss of \$127,059, or 25 cents per share deficit, in the first six months of 1932.

This upturn in earnings results from the introduction of important economies in operation plus improvement in sales for some of the company's products.

Of the \$199,567 net earnings \$110,940 were added to surplus, the balance being used to write down the price of shares formerly sold to employees to book value at the date of such sale. The company's surplus now totals \$5,156,867.

While the company's second half earnings were below the \$1.09 per share reported for the corresponding period in 1931 nevertheless it was possible to increase the earned surplus account as against a heavy surplus reduction made a year ago. This is due to the fact that the company is now paying no dividends while in the last half of 1931 dividend disbursements exceeded earnings by 66 cents a share.

R. S. Shainwald, president, reports that the plant for manufacture of inlaid linoleums is nearing completion and will be in operation next month.

"This will round out our line of hard surfaced floor covering and should have a very favorable effect upon the operations and earnings of the company," he says.

Paraffine's December 31 balance sheet discloses that the company materially improved its liquid position during the last six months of the year. Net working capital now totals \$2,356,410 as against \$2,152,836 at mid-year. This was effected by reducing notes payable from \$480,000 to \$215,000 and by cutting down accounts receivable. Inventories, notes and accounts receivable were also reduced.

During the period the company's funded debt was cut down \$15,000 to \$1,487,000.

UNION FLAGSTONE EXTENDS AGENCIES

Union Flagstone Company of San Mateo, has established agencies throughout California for Yosemite Slate and San Joaquin sandstone, which it obtains from exclusively owned quarries.

The stones are finding wide acceptance for flagging, roofing, steps and interior and exterior floors and numerous architectural and building uses.

Headquarters of the company are at 1635 El Camino Real, San Ma-

TO RECEIVE BIDS ON \$675,000 PHOENIX POST OFFICE MAR. 21

WASHINGTON, D. C., Feb. 14.—The treasury department today announced March 21 as the date for opening bids on the Phoenix, Arizona, post office building.

The contract is for construction of a six-story, steel frame building with granite and tufa exterior, tile roof. Specifications call for steel sash, bronze doors, marble, tile and terrazzo work, vaults, air-conditioning system, heating plant and elevators.

The appropriation for the building is \$675,560.

Plans are by Architects Lescher and Mahoney, Title and Trust Building, Phoenix.

STATE PLASTERERS TO MEET IN FRESNO

The California State Conference of the Master Plasterers' Association will hold its annual convention in Fresno on February 24 and 25. The program includes a business session Saturday. An informal dinner will be held Friday night.

M. E. Summers of Fresno is president and Harry R. Cayford of Fresno secretary. Other officers are: W. B. Scollan, Sacramento, first vice president; S. L. Ford, Long Beach, second vice president, and William A. Keen, Glendale, third vice president. Members of the executive committee are: R. L. Flinch, Glendale; Lew Hughes, Pasadena; Wm. Makin, Oakland; Jos. Masi, Fresno; Sydney James Los Angeles; George Pedgrift, Los Angeles; Joe Provenzano, San Jose; C. G. Walker, Long Beach,

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DETROIT CONGRESS ADOPTS PROGRAM TO AID BUILDING

Resolutions Outline Industry's Policies For Recovery

Resolutions adopted by the Highway and Building Congress — in which twenty-one national organizations participated at Detroit during the week of January 16 — urge public works for employment, liberalization of the relief act, charging of improvements to capital account, continuation of federal aid for highways, elimination of gas tax diversion, low cost housing, and a federal department of public works.

This program which sets forth an aggressive course for re-employment and business recovery is expressed in 23 resolution planks which follow:

"Recognizing the gravity of the existing business emergency and desiring to assist in relieving it we the Construction Industry of the United States as represented by 21 national organizations meeting in joint session in Detroit, January 16-21, 1933, hereby adopt this platform of policies and measures for employment and business recovery:

"Construction is among the nation's largest industries and revival of its activities will determine in large measure the revival of general business. We confidently believe that general conditions are now favorable to a resumption of business in its normal channels if prompt and effective action is taken.

"1. We are unalterably opposed to the dole system and strongly advocate in lieu thereof first, an immediate constructive program of sound and needed public and semi-public improvements; and second, the adoption of such measures as will hasten the resumption of private construction in industry. Among the public and semi-public projects are highways, waterways, and other forms of transportation; flood control, water works, sewage and refuse disposal, public buildings, and other similar projects.

"2. We demand maximum economy in the current administrative and operating expenses of government as well as an increased program of public works financed out of capital account. To further this end we urge that wherever possible the investment of the national government, states, cities, and other governmental subdivisions in permanent improvements be charged into capital account, as is the practice of private industry, and that only the carrying charges and amortization be included in current operating budgets.

"3. In view of the ineffectiveness of the construction loan operations that have been carried on under the Emergency and Construction Act, we advocate liberalization of self liquidating requirements and reduction of interest rates by suitable amendments of that Act.

"4. We appeal to states and municipalities to enact immediate legislation that will place upon a self-sustaining and self-liquidating basis through service charges such public services as sewage and sewage disposal.

"5. We urge that all public agencies engaged in distributing relief funds adopt the policy of applying these funds wherever possible through planned useful work instead of through welfare doles.

"6. We urge the extension of the date of completion of current emergency federal highway work from July 1 to October 1, 1933.

"7. We deplore the proposal that federal aid to state highway improvement be curtailed or suspended at this time, and we urge Congress to continue the federal aid policy by appropriating during the present emergency a sum equal to that appropriated last year, and in any event not less than the revenues from federal taxes on gasoline and tires.

"8. We demand that the revenues raised from motor and vehicle fuel taxes and license fees be used exclusively for highway construction and maintenance, and we oppose the diversion of these fees and taxes to other purposes.

"9. We advocate the extension of federal aid to these organizations of state and federal aid highway systems within city limits, and we recommend such allocation as will give a fair proportion of the highway funds to municipalities for streets and roads within their corporate limits.

"10. We endorse the proper and reasonable regulation of highway transportation, such regulation to be premised on sound economics and not on a desire to establish parity of cost with other forms of transportation.

"11. We urge that all necessary measures be undertaken to promote the construction of adequate low rental housing and that the various states enact legislation to grant the power of eminent domain for this purpose.

"12. Believing that the heavy interest charges of fixed obligations are a serious obstacle to early credit restoration, we urge as an essential of economic recovery that interest rates on such fixed obligations be reduced and adjusted to conform to the general price level.

"13. We recommend that the federal government and the several states amend their bankruptcy and related statutes to simplify the process of reorganizing public and private financial structures by providing that approval of a substantial majority of bond or other certificate holders shall be sufficient to authorize such reorganization.

"14. We urge that state laws and municipal charters be amended to permit deferring payment for at least two years of the initial installments of special installments without penalty and at moderate interest.

"15. We endorse the uniform mechanics' lien account prepared by the Standard State Mechanics Lien Account Committee of the United States Department of Commerce

and the National Conference of Engineers on Uniform State Laws, and urge the enactment of this legislation by state legislatures.

"16. We urge that the government cease engaging in any form of business and service not clearly necessary to the administration of governmental functions.

"17. We urge that the United States Congress establish a National Department of Public Works.

"18. In view of the vital relation of construction to public welfare, we urge that standing committees on construction be set up in both branches of the Congress of the United States similar to those of agriculture, finance, and so forth, so that Congress may be enabled to act with greater knowledge and broader judgment on construction matters.

"19. Believing that public and semi-public works can be carried out efficiently and economically only under a coordinated and balanced program of national, state, and municipal works, we urge comprehensive advanced planning of public improvements, accompanied by long-term financial planning as the soundest policy of conducting public works, and we recommend that legislation to carry out such policies be enacted.

"20. We favor the enactment of an emergency general sales tax as a means of reducing other forms of taxation and furthering the program of public and semi-public improvements that we advocate.

"21. We recommend that if further financial measures are found necessary to restore employment and value, consideration be given by Congress to the establishment of a rigidly controlled increase of circulation by issue of currency based on labor and materials actually expended in useful construction, such currency to be issued only as compensation for work completed.

"22. To give more immediate aid to the unemployed we urge all communities to plan and put into effect an intensive campaign of rehabilitation and repair.

"23. While recognizing the urgency of reducing unemployment we demand that public work be performed by the most modern and efficient methods and we oppose the indiscriminate substitution of hand labor therefor."

MAY MOVE BUREAU TO LOS ANGELES

Removal of the United States reclamation bureau headquarters from Denver to Los Angeles is being considered, according to reports in Denver.

The change is contemplated, it is said, in order to bring the bureau nearer to the Hoover Dam project where reclamation activities will center in the next few years.

Approximately two hundred persons, most of them engineers, are employed by the bureau which has a payroll of \$600,000 a year. Hundreds of thousands of dollars worth of supplies and equipment are purchased by the bureau every year.

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

9.1 MILES HIGHWAY—WALLA WALLA CO., WASH.

WALLA WALLA COUNTY, Wash.—As previously reported, Lyon & Munro, 503 W. 14th Ave., Spokane, at \$52, 408, awarded contract by the State Department for 9.1-mi. State Road No. 3, Touchet to Vancycle Canyon, involving:

- (1) 3860 yds. cru. stone top.
- (2) 9540 cu. yd. cru. stone base.
- (3) 21,620 cu. yds. cru. stone subbase
- (4) 11,050 cu. yds. cru. rock rain. aggr. stock.
- (5) 830 cu. yds. cru. rock fine aggr. stock.
- (6) 1830 cu. yds. cru. rock coarse aggr. stock.
- (7) 3190 cu. yds. filler.
- (8) 735 M gallons water.
- (9) 520 cu. yds. shouldered.

Complete bids follow:

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
(A)	\$1.12	\$1.07	\$1.03	\$.95	\$.95	\$.95	\$.35	\$1.75	\$.35
(B)	1.10	1.10	1.05	1.00	1.00	1.00	1.00	1.25	.30
(C)	1.09	1.09	1.09	1.00	1.09	1.09	.30	1.00	.30
(D)	1.11	1.11	1.11	1.04	1.11	1.11	.40	.10	.50
(E)	1.26	1.26	1.26	.95	.95	.95	.25	1.45	.40
(F)	1.30	1.30	1.25	.90	.90	.90	.45	2.00	.55
(G)	1.24	1.24	1.19	1.09	1.00	1.00	.50	1.50	1.00
(H)	1.40	1.40	1.40	.90	.90	.90	.40	1.50	.40
(I)	1.30	1.30	1.30	1.30	1.50	1.50	.20	1.50	.20
(J)	1.30	1.30	1.30	1.35	1.39	1.30	.40	1.00	.49
(K)	1.41	1.51	1.51	.94	.94	.94	.55	1.75	.50
(L)	1.55	1.48	1.38	1.10	1.10	1.10	.50	1.50	.70
(M)	1.45	1.45	1.45	1.05	1.20	1.30	.35	2.00	.40
(N)	1.40	1.40	1.35	1.25	2.00	1.60	.40	1.20	.40
(O)	1.48	1.48	1.48	1.48	1.48	1.48	1.00	1.50	1.00
(P)	1.50	1.40	1.40	1.50	1.75	1.75	.80	5.00	1.00
(Q)	1.32	1.32	1.32	.92	.92	.92	.92	1.50	.25
(R)	1.50	1.50	1.50	1.15	1.15	1.15	.35	2.00	.35

- (A) Lyon & Munro, \$52, 408
- (B) H. C. Rogers & Sons, \$53,182.
- (C) Goetz & Brennan, \$54,069.
- (D) J. H. Collins & Co., \$54,926.
- (E) Edw. C. Gerber & P. B. Doherty \$59,220.
- (F) A. Milne, \$59,975.
- (G) Saxton, Looney & Risley,60,-247.
- (H) Mathieson Const. Co., \$63,953.
- (I) Max J. Kuney Co., \$65,725.
- (J) Joslyn & Mcallister, \$66,305.
- (K) Morrison Trucking Co., \$68,640.
- (L) A. C. Greenwood Co., Inc., \$68,080
- (M) Northwest Roads Co., \$68,661.
- (N) Triangle Constr. Co., \$68,713.
- (O) Fred G. Redmon, \$77,032.
- (P) L. Romano Engr. Corp., \$77,391.
- (Q) Wren & Greenough, No total.
- (R) Homer G. Johnson, No total.

Unit bids follow:

COCHISE COUNTY, Arizona—H. J. Hagen, Globe, Ariz., submitted the low bid to C. H. Sweetser, District Engineer, U. S. Bureau of Public Roads, Phoenix, Feb. 2, at \$57,416.60, for 2.793 miles of grading Section C and a portion of Section B, Chirihua National Monument Highway, involving:

- (1) 13 acres clearing;
- (2) 42,500 cu. yds. unclass. excav.;
- (3) 425 cu. yds. unclass. excav. for structures;
- (4) 27,000 sta. yds. overhaul;
- (5) 2,793 miles finish earth graded road;
- (6) 610 cu. yds. Class A concrete;
- (7) 16,300 lbs. reinf. steel;
- (8) 47 cu. yds. cement rubble masonry;
- (9) 1380 lin. ft. 18-in. corru. metal pipe;
- (10) 148 lin. ft. 24-in. do;
- (11) 68 lin. ft. 36-in. do;
- (12) 1200 cu. yds. hand laid rock embankment;
- (13) 220 lin. ft. protection ditch;
- (14) 40 each right of way monuments;
- (15) 1 cattle guard;
- (16) 2000 lin. ft. stand. line fence.

The district engineer recommended that the contract be awarded to the low bidder.

The total bids were:

- (A) H. J. Hagan, Globe, Ariz., \$57,416.60.
- (B) Vinson & Pringle, Phoenix, \$57,706.93.
- (C) L. E. Dixon Co., Los Angeles, \$59,432.90.
- (D) Engineer's estimate, \$55,634.10.

The unit bids were:

	(A)	(B)	(C)	(D)
(1).....	\$200.00	\$320.00	\$200.00	\$100.00
(2).....	.85	.80	.90	.85
(3).....	2.00	2.50	2.00	1.50
(4).....	.04	.025	.02	.03
(5).....	200.00	130.00	300.00	200.00
(6).....	32.50	33.00	30.00	32.50
(7).....	.10	.065	.07	.10
(8).....	16.00	18.00	20.00	16.00
(9).....	1.75	1.73	1.50	1.75
(10).....	2.75	2.43	2.25	2.75
(11).....	4.00	4.10	3.50	4.00
(12).....	2.50	3.80	3.50	2.50
(13).....	.10	.15	.15	.10
(14).....	3.50	3.80	5.00	3.50
(15).....	600.00	640.00	500.00	600.00
(16).....	.07	.10	.20	.07

IMP. 64TH ST.—LOS ANGELES—CITY

LOS ANGELES, Cal.—A. E. Pearson 2225 Glencoe Ave., Venice, submitted low bid to board of public works, Feb. 8, at \$5065.75, for improving 64th St., bet. Main St. and 632.86 ft. westerly, under cash contract, involving:

- (1) grading (774 cu. yds. cut and 57 cubic yards fill, inc. removal of existing improvements);
- (2) 19,368 sq. ft. 6-in. conc. paving;
- (3) 34 sq. ft. Class C resurfacing;
- (4) 488 sq. ft. asph. conc. paving of variable thickness (average, 2-in.);
- (5) 1306 ft. unplas. light curb;
- (6) 209 sq. ft. conc. sidewalk (drive-way);
- (7) 9257 sq. ft. 3-in. do;
- (8) 26 sq. ft. 8-in. conc. gutter;
- (9) storm drain and appurtenances,

complete not inc. resurfacing.

The bids were:

- (A) Arthur E. Pearson, \$5065.75.
- (B) John Topich, \$5072.50.
- (C) N. Tomevich, et al \$5214.95.
- (D) Booth & Tomei, \$5252.66.
- (E) George Nelson, \$5295.87.
- (F) Southern Calif. Roads Co., \$5365.57
- (G) T. E. Shafer, \$5474.30.
- (H) Griffith Co., \$5539.27.
- (I) Geo. R. Curtis Paving Co., \$5577.94
- (J) John Papac, \$5694.78.
- (K) Granich & Granich, \$5825.16.
- (L) Geo. H. Oswald, \$5840.93.
- (M) Bob Kosko, \$5860.65.
- (N) Associated Const., Inc., \$6253.73.
- (O) Geo. A. Shepard, \$6286.21.
- (P) Engineer's estimate, \$5727.24.

Unit bids follow:

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
(A)	\$510.00	\$135	\$30	\$.20	\$.30	\$.099	\$.08	\$.20	\$675.00
(B)	550.00	.125	.25	.05	.30	.10	.10	.20	725.00
(C)	700.00	.13	.20	.10	.30	.09	.10	.20	600.00
(D)	400.00	.14	.25	.12	.30	.12	.10	.25	725.00
(E)	435.00	.133	.35	.11	.35	.15	.10	.20	800.00
(F)	450.00	.14	.25	.055	.39	.13	.10	.25	700.00
(G)	450.00	.15	.05	.15	.32	.10	.10	.18	675.00
(H)	500.00	.123	.40	.10	.42	.35	.115	.25	750.00
(I)	600.00	.145	.20	.05	.40	.12	.10	.20	660.00
(J)	450.00	.15	.40	.20	.40	.12	.10	.20	750.00
(K)	282.75	.16	.25	.07	.35	.12	.12	.30	500.05
(L)	550.00	.155	.28	.125	.37	.13	.10	.28	775.00
(M)	260.00	.16	.15	.10	.375	.13	.11	.18	808.00
(N)	746.00	.17	.39	.14	.27	.15	.095	.20	870.00
(O)	420.00	.145	.30	.20	.40	.20	.125	.25	900.00
(P)	450.00	.16	.35	.10	.38	.14	.12	.25	797.00

SAN FRANCISCO—L. Sartorio, 2627 Lombard St., at \$92 submitted low (informal) bid to Department of Public Works to construct about 900 sq. ft. sidewalks in 31st Ave. from Irving to Judah St. Complete bids follow:

- L. Sartorio, one day.....\$ 92.00
- U. Peira & Son.....99.00
- L. DeCew, 3 days.....102.00
- J. D. O'Hara, 5 days.....105.00
- M. Bertolino, 10 days.....105.00
- D. C. McCabe, 1 day.....108.00
- E. J. Treacy, 7 days.....111.50
- Love & Haun, 10 days.....117.00

Bids held under advisement.

SAN FRANCISCO.—L. DeCew, 53 Frederick St., at \$102 submitted low (informal) bid to Department of Public Works to construct sidewalks on west 18th Ave. between Ulloa and Vicente Sts. Complete bids follow:

- L. DeCew, 3 days.....\$102.00
- J. D. O'Hara, 5 days.....105.00
- L. Sartorio, 2 days.....114.00
- D. C. McCabe, 1 day.....115.00
- M. Bertolino, 10 days.....120.00
- U. Peira & Son.....144.00
- E. J. Treacy, 10 days.....147.50

Bids held under advisement.

ENGINEERING NEWS

BRIDGES

HANFORD, Kings Co., Cal.—Valley Lumber Co., Hanford, at \$4467.83 awarded contract by County Purchasing Agent to furnish lumber for the construction of the Cooper bridge over Kings River in the Riverbend district. Work will be done by day labor as an unemployment relief project. Roy May, county Surveyor.

MARTINEZ, Contra Costa County, Calif.—One year's extension of time granted the Richmond-San Rafael Ferry Company by county supervisors to construct proposed toll bridge from Point San Pablo, Contra Costa Co., to Point San Quentin, Marin County. Estimated cost \$15,000,000.

DOUGLAS COUNTY, Wash.—Western Construction Co., Textile Tower, Seattle, at \$7980 awarded contract by State Highway Department to construct two 40-ft. concr. girder bridges on State Road No. 10 between McLean's Orchard Tracts and Entiat Ferry, E. C. H. Proj. No. E-145-G. Strandberg & Co., Seattle, second low at \$8346; D. Nygren, Seattle, third low at \$8571.

MARIPOSA COUNTY, Cal.—Nelson & Wallace, 2nd and Coley, Escalon, at \$10,359.50 awarded contract by U. S. Bureau of Public Roads, to construct the Bridal Veil Creek Bridge and approaches on Section A1 of Route 5, Wawona Road, Glacier Point, Yosemite National Park.

SAN FRANCISCO—Pacific Coast Aggregates, Inc., 85 Second St., San Francisco, approved by directors of the Golden Gate Bridge District as sub-contractors for Barrett & Hilp, for construction of a cement mixing plant near Fort Point in connection with construction of anchorages.

LOS ANGELES, Calif.—Geo. W. Jones, county road commissioner, has completed plans for a reinforced concrete culvert to be constructed on Citrus Ave. over Little Dalton Wash, in the County of Los Angeles. The plans were filed with the board of supervisors Feb. 10. A date for bids will probably be set within the next few days. The culvert will have an inside width of 13 ft., a height of 11 ft. 6 in. with 20-in. foundations, and 27.15 ft. in length.

LONG BEACH, Cal.—City council has authorized A. H. Adams, director of public service, to prepare estimates of the cost of constructing a pedestrian subway under Ocean Blvd., from Bixby Park to the beach. According to the plan, the tunnel is to be constructed under 16th Place and will be 15 to 20 feet wide and designated as a ramp.

DREDGING, HARBOR WORKS & EXCAVATIONS

LOS ANGELES, Cal.—Pacific Tank & Pipe Co. has been awarded the contract by H. E. Russell, county Purchasing Agent, at \$3880.00 for furnishing circular yokes for pier forms under Spec. No. 5115.

SAN DIEGO, Cal.—W. E. Kier Construction Co., 813 First National Bank Bldg., San Diego, submitted low bid to A. Ray Sauer Jr., Purchasing Agent, February 6, at \$17,963 for furnishing all materials, labor and equipment (except the necessary treated

wood piles and fourteen concrete bearing piles), moving, and reinstalling float service complete, and constructing the shore boat landing, substructure deck and building, at the San Diego Waterfront. The other bids were: Gunnar Johnson, \$18,000; J. A. Hunt, \$19,044.78; Walter Trepke, \$19,576.

SAN FRANCISCO—M. B. McGowan, 74 New Montgomery St., San Francisco, at \$7933 awarded contract by U. S. Coast Guard Service for repairs to wharf and construction of launchway at Point Bonita Station.

DENVER, Colo.—Geo. Herz Co., Platt Bldg., San Bernardino, at \$17,430 awarded contract by U. S. Bureau of Reclamation to construct 11-mi. Colorado River Levee, Palo Verde Irrigation District near Blythe and Ripley California. Unit bid, \$.083 per cu. yd.

SACRAMENTO, Cal.—Larsen Bros., Galt, at \$.085 per cubic yard awarded contract by Hartford Accident & Indemnity Co., bonding company for T. S. Atkins, Berkeley, to complete construction of levee on the north bank of the American River, for which contract was awarded T. S. Atkins by U. S. Engineer Office Aug. 20 at \$.0719 per cu. yd.; less than the engineer's estimated on the job. Approximately 366,000 cu. yds. remain uncompleted.

PORTLAND, Oregon.—Gilpin Const. Co., Henry Bldg., Portland, at \$6804 submitted low bid to city council to replace tide (flood) gate and shear-boom at entrance to Columbia Slough Channel. Complete bids follow:
 Gilpin Const. Co. \$6504
 Parker-Schram Co. 7639
 Jacobsen Const. Co. 7655
 F. J. Gregorie 8844
 Bids held under advisement.

SACRAMENTO, Cal.—Baker & Taylor, Chester, at \$27,898, awarded contract by U. S. Engineer Office, Sacramento, to construct a levee approximately 3 miles long along the embankment of the Western Pacific Railroad which runs along westerly outskirts of North Sacramento, and along the southerly bank of Arcade Creek, along the northerly edge of North Sacramento, involving 377,000 cu. yds. embankment in place.

RIO VISTA, Solano Co., Cal.—Chicago Bridge & Iron Co., Rialto Bldg., San Francisco, at \$2450 awarded contract by U. S. Engineer Office, Sacramento, to provide and erect a 20,000-gal. steel water tank with a 70-ft. steel tower at the U. S. Engineer Department yard at Rio Vista.

SACRAMENTO, Calif.—Olympian Dredging Co., 249 First St., San Francisco, at \$66,748 awarded contract by U. S. Engineer Office, Sacramento, to build stretches of new levee and to raise and strengthen an existing levee along the easterly bank of the Sacramento river from Meridian downstream for 11.5-mi. to Winship School, including clearing and grubbing the right-of-way and moving, extending or reconstructing fences, road ditches, pipes, etc., involving 451,000 cu. yds. embankment in place of levee.

SACRAMENTO, Calif.—Basalt Rock Co., Napa, at \$26,400 submitted low bid to U. S. Engineer's Office, Sacramento, to furnish, deliver and place approximately 30,000 tons of rip-rap stone along the Sacramento river between the mouth of Cache Slough and Collinsville. Complete bids follow:
 Basalt Rock Co., 140 lbs., \$.88, \$26,400
 Daniel Constr. Co., 162 lbs., .88, 26,400
 Hutchinson Co., 165 lbs., .887, 26,610
 Healy Tibbitts Co., 160 lbs., .927, 27,862
 Blake Bros., 167 lbs., .95, 28,500
 Engineer's Estimate, \$1.10, 32,996
 Bids held under advisement.

SAN FRANCISCO—Union Machinery Co., 934 Brannan St., San Francisco, at \$674 submitted low bid to U. S. Engineer's Office, San Francisco, to furnish one 26-in. gate valve for the U. S. Dredge "Marshall." Complete bids follow:
 Union Machine Co. \$674.00
 Bethlehem Shlpbuilding 795.00
 General Eng. & Drydock Co. 827.00
 Pelton Waterwheel Co. 845.00
 Golden State Miners 937.50
 Bids held under advisement.

STOCKTON, San Joaquin Co., Cal.—San Francisco Bridge Co., 503 Market St., San Francisco, at \$1235, awarded contract by U. S. Engineer Office, Sacramento, to dredge 309,000 cu. yds. of material from the 26-ft. channel between the mouth of Mormon Channel and Edison St., Stockton.

PORTLAND, Ore.—General Constr. Co., 3840 Iowa St., Seattle, at \$174 cu. yd. (approximately \$77000) recommended for award by U. S. Engineer Office, Portland, for dredging approximately 435,711 cu. yds. of material from a channel and for constructing a dike with about 41,600 cu. yds. of the dredged material, in Willamette river between points about 1 mi. and 2½ mi. downstream from Oregon City. Complete bids published in issue of February 3.

BELLINGHAM, Wash.—Until Feb. 20, 2 P. M., bids will be received by City Port Commission to furnish 1200 cu. yds. of rock for crib protection in Squaleum Creek Basin. Crib is 325 ft. long by 15 ft. wide. Estimated cost, \$2500.

PEARL HARBOR, T. H.—Hawaiian Dredging Co., Honolulu, T. H., at \$6,500 for item (1) submitted low bid to Bureau of Yards and Docks, Navy Department, Pearl Harbor, for pulling and driving piles at the Submarine Base, Pearl Harbor, under Spec. No. 7200. Complete bids follow:
 Hawaiian Dredging Co., Ltd., 854 Kaahumanu St., Honolulu (1) \$6500
 (2) \$3552 (3) \$4026.
 Kalihi Contracting Co., Honolulu (1) \$13,300 (2) \$6600 (3) \$7100.

CAPITAL CITY TITLE COMPANY

▼

J. C. PALEN,
Manager

▼

914 Seventh Street
Sacramento :: California

LOS ANGELES, Cal.—E. C. Eaton, County Flood Control Engineer, 202 N. Broadway, has announced that fifteen county flood control projects may be included in the list of work which is to be undertaken by the aid of unemployment funds received from the Reconstruction Finance Corp. Mr. Eaton estimates that a total of 237,000 man labor days would be available in the work which he recommends. The list comprises about 51,000 lin. ft. of river channels to be improved. The chief engineer also recommends starting work on the Eaton Canyon Dam east of Pasadena. The suggested program is now in the hands of Hugh A. Thatcher, supervisor, and his flood control committee for further study. The list follows:

Los Angeles River Wilbur Ave. to Van Owen Blvd., excavation of channel, three and one-half miles. This project involves draining the Reseda area in upper San Fernando Valley, 18,000 feet.

Los Angeles River, Fifty-second St. to Wilmington St. in Long Beach, training channel, 1500 feet.

Los Angeles River, near Firestone Blvd., training channel, 6000 feet.

Los Angeles River, below Sewart and Grady road, widen new training channel, 3500 feet.

San Gabriel River, Beverly Blvd., remove island in channel and widen training channel down-stream, 2500 feet.

Rio Hondo River, one-fourth mile below Garvey Ave., training.

Compton Creek, Alameda St. to existing channel, excavation of new channel, 1200 feet.

Los Angeles River, Ethel St. to Diaz St., excavation of new channel and pipe and wire levees, near studio City, 1500 feet.

Alhambra Wash, Main St. of Alhambra to Mission Road, excavation and pipe and wire, 3200 feet.

Thompson Creek, Pomona city limits to Santa Fe Railroad, 2100 feet, excavation, pipe and wire.

Rubio Wash, Southern Pacific Railroad to Mission Road, excavation and pipe and wire, 2000 feet.

Ballona Creek, below Inglewood Blvd., widen channel and place pipe and wire, 4500 feet.

Eaton Canyon Dam, excavation and backfill for proposed gravel debris dam, including stripping, excavating and filling of embankment. Bond funds are sufficient for estimated construction of physical works. Additional financing to relieve bond funds of part of the physical costs might result in releasing sufficient funds to complete project. Project urgently needed for flood protection and conservation. Estimated yardage, 325,000; estimated man days of labor, 105,000.

IRRIGATION PROJECTS

MODESTO, Stanislaus Co., Calif.—Valley Construction Co., Modesto, at \$1938 awarded contract by Modesto Irrigation District to construct new spillway on Lateral No. 2, emptying into Dry Creek near Modesto. District will pay \$750; balance of cost to be paid by the owner, T. H. Kewin.

SACRAMENTO, Calif. — American River Flood Control District board accepted bid of State Department of Finance to purchase \$78,000 of the district's bonus for work on the levee project. Bonds for \$25,000 will be purchased at once, a second block of \$25,000 and a third of \$25,000 to be bought shortly.

LA MESA, Imperial County, Cal.—American Concrete & Steel Pipe Co., 635 Firestone Blvd., South Gate, tentatively awarded contract by the La Mesa, Lemon Grove and Spring Val-

ley Irrigation District, at \$419,834.25 (alternate Proposal D) to furnish and lay centrifugal concrete pipe involving 60,000 ft. of 36-39-42- and 48-in. centrifugal concrete pipeline complete with fittings and miscellaneous structures for the replacement of the district's flume or pipe line, located at certain points between the Diverting Dam of the La Mesa Irrigation District on the San Diego river and Eucalyptus reservoir near La Mesa. The total length is about 60,000 feet. C. Harritt, 4769 Spring St., La Mesa, general manager. The award of contract is contingent upon obtaining a loan of \$500,000 from the Reconstruction Finance Corporation.

STREET LIGHTING SYSTEMS

SAN FRANCISCO.—Severin Electric Co., 172 Clara St., at \$6382 awarded contract by the Department of Public Works for ornamental street lights on Bayshore Blvd., Army St. to county line.

MACHINERY AND EQUIPMENT

EL CENTRO, Imperial Co., Cal.—Brown-Revis Co., 4900 Santa Fe Ave., Los Angeles, has been awarded contract by the county supervisors for furnishing on a rental basis one Adams 12-ft. grader with scarifier, pneu-

SAN FRANCISCO—Until Feb 20, 3 p. m., under Bid No. 968, bids will be received by T. A. Brooks, City Purchasing Agent, 270 City Hall, to furnish ½-ton auto truck chassis and cab. Specifications obtainable from above office.

SAN RAFAEL, Marin County, Cal.—Until Feb. 20, 11 A. M., under Circ. Pro. 6754-33-14, bids will be received by Constructing Quartermaster, Hamilton Field (Marin Meadows) Bombing Base, San Rafael, to furnish one standard automatic grader, similar to Eversman Std. Automatic Grader.

OAKLAND, Cal.—G. F. Bishop Co., 1950 San Bruno Ave., San Francisco, at \$725 submitted low bid to Board of Playground Directors, Oakland, to furnish one tractor, light golf course, 4-cylinder, short wheel base, weight not over 1100 lbs. Complete bids follow (including allowance for old tractor):

G. F. Bishop Co.—Toro—\$725 less \$225.

H. V. Carter, Worthington, \$725, less \$100.

Allis-Chalmers Co., A-C, \$800, less \$50.

J. D. Adams Co., McCormick-Deering, \$908, less \$40.

MODESTO, Stanislaus Co., Calif.—City Council decides to reject low bid submitted January 25 to furnish one tree spraying machine at \$1091 by Friend Mfg. Co. Demonstrations to be furnished by John Bean Mfg. Co., who bid \$1355, also by Stanislaus Imp. & Hdwe. Co., Fitz-Henry Cuptill Co.

LOS ANGELES, Cal.—Smith Booth Usher Co., 2001 Santa Fe Ave., was awarded the contract by the Metropolitan Water District, Feb. 10, at \$1465 each for furnishing two portable air compressors.

DENVER, Colo.—Until March 3, 2 P. M., under Specifications No. 586-D, bids will be received by Chief Engineer, U. S. Bureau of Reclamation, Denver, Colo., to furnish one ditch-cleaning machine, caterpillar crawler traction type for cleaning canals and laterals. Specifications obtainable from above office.

LOS ANGELES, Cal.—F. E. Weymouth, General Manager and Chief Engineer of the Metropolitan Water District, reported to the board of directors at the meeting February 10 that revised specifications for the Valverde and Bernasconi Tunnels will be completed shortly and that he will recommend that bids be taken on both full and half-capacity tunnels. The alternative proposal will provide for a reduction in diameter of from 16-ft. to probably 12-ft.

FIRE ALARM SYSTEMS

DALLIES CITY, Ore.—All proposals received by city council for fire equipment bonds were returned unopened, and new bids will be received until March 3, 7:30 P. M., by Judd S. Fish, recorder, for \$15,000 General Obligation Fire Equipment bonds, 6% interest.

RESERVOIRS AND DAMS

PASADENA, Cal.—Pacific Iron and Steel Co., 241 W. Ave. 26, Los Angeles, awarded contract by city directors, Feb. 7, at \$6715 for furnishing removable galvanized steel trash racks and appurtenances for the Pine Canyon Dam, approx. 170,000 lbs. Bids were opened Jan. 31.

LOS ANGELES, Cal.—The contract for the construction of the Parker Dam on the Colorado River as a flow stabilizing unit in the Colorado River Aqueduct, between the Department of the Interior and the Metropolitan Water District, was approved by the board of directors of the district at the meeting in Los Angeles, February 10. The district will pay for the work and construction will be done by the government.

PIPE LINES, WELLS, ETC.

FARMERSVILLE Tulare Co., Cal. H. Z. Griffith, Exeter, awarded contract by Planters Packing Corp., New York, to drill 12-in. well in connection with dehydrating plant being erected at Farmersville.

SEWERS AND SEWAGE DISPOSAL PLANTS

MONTEREY PARK, Los Angeles Co., Cal.—Chutuk and Vukojevich, 4935 West Blvd., Los Angeles, have been awarded the contract by O. A. Gierlich, consulting engineer, 308 Citizens National Bank Bldg., Monrovia, at about \$3500 for all labor and material (except pipe) for constructing a sanitary sewer in a subdivision in Monterey Park for P. N. Snyder, owner.

Gladding, McBean & Co., Los Angeles, have been awarded the contract for furnishing vitrified sewer pipe.

LOS ANGELES, Cal.—The sanitation and finance committees of city council have under consideration a proposal of Councilman Clarence E. Coe to expend the balance of the Venice sewer bond fund and unexpended balances of allocations from the 1922 sewer bond fund for installing outlets for local sewers in the Venice-Mar Vista area. Construction of the proposed connecting sewers will cost \$61,385.

LONG BEACH, Los Angeles County, Cal.—City council has voted to apply to the Reconstruction Finance Corp. for a loan of \$600,000 for the construction of main trunk lines for the North Long Beach sewer system and for the Northeast Storm Drain System. The proposed projects are to be under the 1911 Improvement act.

SIGNAL HILL, Los Angeles Co., Cal.—G. H. Cooper, city clerk, has been authorized to advertise for bids for vitrified clay pipe as follows:
 (1) 1000 to 2000 ft. 12-in. pipe with fittings;
 (2) 100 to 2000 ft. 10-in. do;
 (3) 1 to 400 ft. 8-in. do;
 (4) 100 to 2000 ft. 6-in. do.
 Bids will probably be opened Feb. 28.

MONTEREY PARK, Los Angeles Co., Cal.—Chnutuk, Kordich & Vukojevich, 4935 West Blvd., Los Angeles; John Topich, 988 Everett St., Los Angeles, and Rich Bros. Co., 3724 Brooklyn Ave., Los Angeles, submitted the three low bids to O. A. Gierlich, consulting engineer, 308 Citizens National Bank Bldg., Monrovia, for constructing a sanitary sewer system in a subdivision in Monterey Park for P. N. Snyder. The contract will be for all labor and material, except pipe, which will be furnished by the owner. The type of pipe has not been selected. The successful bidder will be announced within a few days. The proposed system will involve:
 8000 ft. 6- to 10-in. sewer pipe, cement or vitrified;
 165 wye branches.

SIGNAL HILL, Los Angeles County, Cal.—Until 3 p. m., Feb. 21, bids will be received by the Signal Hill city council for vitrified clay pipe, as follows:
 (1) 1000 to 2000 ft. 12-in. pipe with fittings;
 (2) 1000 to 2000 ft. 10-in. pipe with fittings;
 (3) 1 to 400 ft. 8-in. pipe with fittings;
 (4) 100 to 2000 ft. 6-in. pipe with fittings.
 Geo. H. Cooper, city clerk.

MONTEREY PARK, Los Angeles Co., Cal.—City council has authorized C. H. Ellison, city engineer, to start proceedings for an outfall sewer from the east boundary of the city to the proposed reduction plant. A resolution of intention was adopted. The city proposes to procure from the county \$20,000 to provide for labor and to draw on the general fund for \$10,000, with which to purchase materials. Plans and specifications will be prepared by Ellison. The proposed reduction plant is to be located on a 10-acre tract in the Rancho Potrero Grande upon which the city has an option.

MISCELLANEOUS CONSTRUCTION

LOS ANGELES, Cal. — Wenzel & Henoch Construction Co., Milwaukee, Wis., at \$7,339,100 awarded contract to construct San Jacinto Tunnel by the Metropolitan Water District.

WATERWORKS

VALLEJO, Solano Co., Cal.—City council renews contract with Great Western Electric-Chemical Company at \$.0875 and \$.0825 per lb. to furnish liquid chlorine for the coming year.

REDWOOD CITY, San Mateo Co., Cal.—Election date set for March 28 by city on Charter amendment for the purpose of making it easier for the city to acquire public utilities.

PASADENA, Los Angeles County, Cal.—Until 11 a. m., Feb. 21, bids will be received by city clerk, Bessie Chamberlain, 218 City Hall, for the purchase of 992 bonds of the San Gabriel Water Project, of the par value of \$1000 each, bearing interest at not more than 6%. Certified check, 1%, must accompany each bid.

LOS ANGELES, Cal.—The board of directors of the Metropolitan Water District has voted to accept the bid of the Reconstruction Finance Corp. for the second block of the district's bonds amounting to \$4,032,000.

RED BLUFF, Tehama County, Cal.—Until February 23, 7:30 p. m., bids will be received by E. E. Stevens, Superintendent of Water Works, City Hall, Red Bluff, to furnish 6000 ft. 12-in. water pipe and couplings. Specifications obtainable from above office. Certified check 10% required with bid.

CAMBRIA, San Luis Obispo County, Cal.—County supervisors call special election for March 7 to vote on water-works district No. 4 near Morro Bay. Supervisorial District No. 2. Formation of the district will require no bond issue.

BOULDER CANYON, Nev.—Goshlin-Birmingham Mfg. Co., Birmingham, Ala., has been awarded the contract by the U. S. Bureau of Reclamation, Washington D. C., at \$56,000 for furnishing entrance liners for intake tunnel (item No. 1) in connection with the cylinder gates and intake towers for the Hoover Dam.

The Westinghouse Electric & Mfg. Co., Pittsburgh, Pa., was awarded the contract at \$334,737 for furnishing eight welded plate steel cylinder gates, (item No. 2) for the intake towers at

STRATHMORE, Tulare Co., Calif.—Directors of the Lindsay-Strathmore Public Cemetery District plan to lay out a new cemetery subdivision, which will include sprinkling system, pump, and 4-in. water main.

REDDING, Shasta Co., Calif.—City Engineer W. K. Adams authorized by city council to obtain estimate of cost on acquisition of local water system as a municipally owned project.

INGLEWOOD Los Angeles Co., Cal.—Bids for furnishing and installing one booster unit at city well No. 16, located at the northwest corner of 10th Ave. and 80th St., Inglewood, opened by City Council Feb. 6. The bids, which were taken under advisement until Feb. 14, were:

Layne & Bowler Corp.—(1) 7-stage, \$884; (2) 3-stage, \$669.50.

DeLaval Steam Turbine Co.—(1) \$484.65, (2) \$403.30.

West Coast Pump & Sales Co.—(1) \$440; if head drop is more than 10 ft. and 20-hp. required add \$35.

Byron-Jackson Co.—2-pole, 2950 R. P. M., \$446.30; alternate, 1450 R.P.M., \$575.30.

Submersible Motor Pump Co.—16-in., \$1300 (\$1235 net); 12-in. \$1025 (\$974 net).

Pacific Pump Works, Ltd.—960 R. P. M. \$822; 1460 R.P.M., \$513; 2900 R.P. M., \$540.

Fairbanks, Morse & Co.—\$479.45; alternate, \$388.

Johnson Pump Co.—\$500.

Kimball-Krogh Co.—\$520.

Bids for furnishing a deep well turbine pump for Well No. 16 were opened by city council and taken under advisement until Feb. 14. The bids were:

Byron-Jackson Co.—960 R. P. M., \$2179; alt. \$2241.50; 1450 R. P. M. \$1,988.50; alt. \$1935; also \$1916.

John Bean Mfg. Co.—\$1990; 5% 30 days.

Peerless Pump Co.—960 R. P. M. \$2050; alt. \$1953; 1470 R. P. M., \$1534; 5% 30 days

Layne & Bowler Corp.—\$2153, \$1956, \$1753.75, \$1546.75.

Kimball-Krogh Co.—960 R. P. M., \$1973; 1460 R. P. M., \$1631.

Johnson Pump Co.—\$1757; alt. \$1522.

Wintroath Pumps, Ltd.—\$2047; alt. \$1788; 5% 30 days.

Pacific Pump Works, Ltd.—960 R. P. M., \$2020; 1450 R. P. M., \$1770; 5% 30 days.

Pomona Pump Co.—960 R.P.M., \$1670 1460 R.P.M., \$1344.

Fairbanks, Morse & Co.—\$1763.

VERNON, Los Angeles Co., Calif.—American Pipe & Steel Co. awarded a contract by city council for furnishing five fuel oil steel day tanks and five steel lubricating oil tanks for service with Diesel engines. The bids were opened Jan. 30.

VERNON, Los Angeles Co., Calif.—Western Pipe & Steel Co., 5717 Santa Fe Ave., awarded contract by city council at \$8200 for a 15,000 bbls. and 9500 bbls. fuel oil storage tank to be installed in the power house yard. The bids were opened Feb. 6.

PORTLAND, Ore.—R. D. Wood Co., at \$5085 submitted low bid to city council to furnish fire hydrants. Standard Supply Co., second low at \$5850; Helser Machine & Marine Wks, third low at \$6220. Bids held under advisement.

PORTLAND, Ore.—Woodbury & Co., at \$1615 submitted low bid to city council to furnish gate valves. Plumbers Supply Co., second low at \$1687; Consolidated Supply Co., third low at \$1737. Bids held under advisement.

TACOMA, Wash.—City asks permit to construct \$3,500,000 water plant on the Green River; involving a pipe line parallel to the existing Green river gravity line. Capacity would be 100 cu. ft. per second.

OAKLAND, Calif.—Until Feb. 24, 8 P. M., bids will be received by John K. Kimball, secretary, East Bay Municipal Utility District, 512 16th St., Oakland, to furnish 12 sections steel pipe in lengths of approximately 20-ft., dia. 54- to 65-in., under Specifications No. 47, obtainable at above office.

LA, HABRA, Orange Co., Cal.—Koebig & Koebig, consulting engineers, Los Angeles, will start work shortly on a survey and appraisal of the water system of the American States Water Co. at La Habra. The result of the appraisal will determine the city's course as to expending the bond issue voted for a municipal water system. The property of the company may be purchased or a complete new system constructed. The bond issue was for \$100,000.

LOS ANGELES, Cal.—Layne & Bowler Corp., has been awarded the contract by H. E. Russell, County Purchasing Agent, at \$2900 for furnishing pump and motor, as follows:
 (1) 7 vertical belt driven pump of type which will not require priming, capable of delivering a minimum of 50 C. F. S. 20-ft. head;
 (2) 1 motor and starter of required H. P. for above pump, power available is 50 cyl., 440-volts;
 (3) 1 first quality leather belt.

Delivered and installed at Cerritos Slough on L. A. River. Price on pump motor and starter to be on a rental basis to be applied on purchase price at option of district. District will furnish base sump and platform ready for installation; also will make connections for power. Spec. No. 5127.

CAMARILLO, Ventura Co., Cal.—Harry F. Miller, 1908 W. 75th St., Los Angeles, at \$15,287 awarded contract by State Division of Architecture, Sacramento, to construct water storage system at the New State Hospital at Camarillo. Water storage system consists of one 225,700 gallon concrete tank, one 100,000 gallon concrete tank, one concrete pump house, pumps, piling and electrical work.

COLTON, San Bernardino Co., Cal.—American Pipe & Steel Corp., Ltd., 250 S. Date St., Alhambra, awarded contract by city council February 9 at prices shown below for furnishing slip joint steel water pipe as follows: 4500 ft. 6-in., 12-ga., slip joint steel water pipe.

500 ft. 4-in. slip joint steel water pipe.

The bids were:

American Pipe & Steel Corp., Ltd., welded pipe—6-in. at 28.9c; 4-in. at 23c; f.o.b. Colton. Delivery 4 days.

California Corrugated Culvert Co., welded pipe—6-in. at 33c; 4-in. at 27c; f.o.b. Colton. Delivery 7 days.

Lacy Mfg. Co., welded pipe—6-in. at 31c; 4-in. at 27c; f.o.b. Colton. Delivery 7 days.

Pacific Southwest Pipe Co., Reconditioned—5½-in. O. D. at 27c; 4-in. at 17c; f.o.b. Colton. Delivery 7 days.

South Chester Tube Co., lapweld steel pipe—6-in. at 29.63c; 6½-in. at 39.77c; and 4-in. at 24.07c; f.o.b. Colton. Immediate delivery.

Southern Pipe & Casing Co., welded pipe—6-in. at 30½c; 4-in. at 24c; f.o.b. Colton. Delivery 4 days.

Ross Blow Pipe Mfg. Co., riveted steel pipe—6-in. at 27.9c; 4-in. at 20.7c f.o.b. Colton. Delivery 20 days.

West Coast Pipe & Steel Co., welded steel pipe—6-in. at 35c; 4-in. at 27c; f.o.b. Colton. Delivery 4 days.

Jos. Greenspon's Son Pipe Corp., St. Louis, Mo.—6-in. steel tubing at 28c; f.o.b. Colton. Immediate shipment.

Finn Bros. Pipe & Steel Works, riveted steel pipe—6-in. at 32c; 4-in. at 24c; f.o.b. Colton. Delivery 20 days.

STREETS AND HIGHWAYS

MODESTO, Stanislaus Co., Calif.—Standard Paving Co., Modesto, awarded contract by City Council to furnish 600 to 1000 tons asphaltic concrete for new construction and maintenance work, including laying and rolling as needed.

\$4.25 ton for 2-in., 150 tons or less;
\$4.40 ton for do., 3 to 5% asphalt;
\$4.70 ton for 1½-in., 100 tons or less;
\$4.75 ton for ¾-in., 50 tons or less;
\$5.00 ton for smallest stone, ½-in., 10 surface mix, ½% to 2% asphalt.

SPOKANE, WASH.—Until Feb. 23, 9:30 A. M., bids will be received by city council to furnish asphalt sand for the city asphalt plant during the year 1933. Specifications obtainable from city purchasing agent.

LOS ANGELES, Calif.—S. Edmondson & Sons, 411 W. Washington St., awarded contract by board of public works, Feb. 10, at \$978.18, for earth excavation at Hyperion and haul away to points of fill at Hyperion and at the Venice sewage pumping plant site, under Cash Contract.

LOS ANGELES, Cal.—Board of education has adopted working drawings and specifications for the construction of curbs, walks and gutters abutting the Chapman Avenue school site, Amestoy Ave., two blocks west of Western Ave., Gardena. Bids will be taken by the business department. Plans were prepared by the architectural division of the board. W. E. Record, manager; A. S. Nibecker, Jr., architect. Cost is estimated at \$600.

EL MONTE, Los Angeles Co., Cal.—Until 8 P. M., Feb. 20, bids will be received by city council for furnishing of rock, gravel, sand, cement, and other materials for the work of improving Lexington St. in accordance with specifications on file at the office of the city engineer. Certified check or bond, 10%. Beatrice E. Darling, city clerk.

GLENDALE, Los Angeles Co., Cal.—City of Glendale has requested Supervisor Roger W. Jessup to aid in obtaining county aid \$228,768.23 for proposed street, storm drain, bridge and flood control projects in Glendale. This list includes:

South Street storm drain, \$63,420.39. Central Ave. bridge and approaches, \$20,000.

Verdugo Road from La Crescenta Avenue to north city limits, paving and resurfacing, \$43,005.43.

Verdugo Road, paving and surfacing from Glendale Avenue to the south city limits, \$37,638.

Resurfacing of Canada Boulevard, from lower bridge to Verdugo Road, \$26,329.91.

Paving and surfacing Victory Boulevard, also street-lights from Burbank city limits to Riverside Drive, \$33,314.50.

SAN RAFAEL, Marin Co., Cal.—Until February 27, 10 A. M., bids will be received by Constructing Quartermaster, Hamilton Field, San Rafael, for excavating the site for the Headquarters Building at Hamilton Field, (Marin Meadows) Bombing Base.

Plans and specifications available from above office upon deposit of \$5.00.

ROCKWELL FIELD, Calif.—Griffith Co., 502 Los Angeles Railway Bldg., Los Angeles, at \$4,999.93 awarded contract by Army Department for grading and oiling landing field at Rockwell Field, Coronado.

LONG BEACH, Calif.—City council has made application to county board of supervisors for an allocation of \$120,000 of Reconstruction Finance Corporation to provide labor for the clearing and excavating of a site on a portion of the present location of the city dump. It will furnish labor for about 500 men or 37,000 man days. Work will probably start next week.

PIERCE COUNTY, Wash.—Until Feb. 23, 10 A. M., bids will be received by W. H. Lynch, District Engineer, U. S. Bureau of Public Roads, 316 New Postoffice Bldg., Portland, for 3,732-miles of grading N. P. H. Proj. E-12-A1, Rainier National Forest, involving:

- (1) 28 acres clearing;
- (2) 11 acres grubbing;
- (3) 110,700 cu. yds. unclass. excav.;
- (4) 125,000 sta. yds. overhaul;
- (5) 3.732 miles finishing;
- (6) 257 cu. yds. Class A concrete;
- (7) 28 cu. yds. Class B concrete;
- (8) 181 cu. yds. Class D concrete;
- (9) 60,500 lbs. reinf. steel;
- (10) 155 cu. yds. cement rubble masonry;
- (11) 1911 lin. ft. concrete pipe;
- (12) 3500 cu. yds. gravel borrow for subgrade reinf.;
- (13) 6000 lin. ft. flattening and rounding slopes;

and other items. Specifications obtainable from above office on deposit of \$10, returnable, check payable to Federal Reserve Bank, Portland.

LONG BEACH, Calif.—City council has adopted a list of street improvement projects for which Reconstruction Finance Corp. funds are to be provided. The money will pay for labor only. The jobs listed are:

Grading Temple Ave. from Willow to Spring St., \$4480.

Grading Loma Avenue from Ocean Blvd. to Anaheim St., \$7104.

Grading Spring St. from the U. P. Ry. tracks to Orange Ave., \$9600.

Grading Newport Ave. at 11th St., \$480.

COMPTON, Los Angeles Co., Cal.—The Long Beach Boulevard Association has recommended that the cities

of Compton and Long Beach construct 600 ft. of cement aprons on Long Beach Blvd., adjoining the dog racing track and 190 ft. at the motorcycle arena.

SAN FRANCISCO—Until March 1, 2:30 P. M., bids will be received by S. J. Hester, Secretary, Department of Public Works, to construct wall on Chestnut St., from Kearny to 110 ft. east, estimated cost, \$1900.

SAN FRANCISCO—Union Iaving Co., Call Bldg., San Francisco, at \$39,494.70 awarded contract by Department of Public Works to improve Bayshore Blvd., Section A, Marlin to Army Streets.

LOS ANGELES, Cal.—Until 10 A. M. March 1, bids will be received by the board of public works for the improvement of the alley south of 30th St. bet. 11th Ave. and Edgell Drive, under the 1911 act, involving:

- (1) grading (151 cu. yds. cut, no fill);
- (2) 4575 sq. ft. 6-in. conc. paving;
- (3) 350 sq. ft. rock and oil surface.

Engineer's estimate, \$1050.

LOS ANGELES, Calif.—Hearing on the proposed improvement of Barrington Ave. bet. Barrington Place and Montana Ave., in accordance with the provisions of the 1931 Assessment Limitation Act, will be held by the Public Works Committee of the city council April 4. The improvement is to be done under the 1911 act. The project involves 6-in. asphaltic concrete paving. The estimated cost is \$44,941.

SAN FRANCISCO—M. E. Vukicevich, 1442 Taraval St., at \$757 awarded (informal) contract by Department of Public Works to construct Market and Ord Street steps.

Moore & Roberts, low bidders, at \$651.50 did not comply with specifications, and contract was awarded to second low bidder.

SAN FRANCISCO—Until Feb. 24, 10:30 to 11:30 A. M., bids will be received by S. J. Hester, secretary, Department of Public Works, to improve Rutledge St. from Alabama to Peralta, involving:

- (1) 150 ft. armored concrete curbs;
- (2) 40 ft. VCP side sewer;
- (3) 1125 sq. ft. Class E conc. pave.

Specifications obtainable from office of John J. Casey, city engineer, third floor, City Hall. Estimated cost, \$700.

This contract was awarded in February 1932 to E. J. Treacy, who asked to be released from his contract on the grounds that he cannot collect for work done in front of State property (the State of California having acquired a lot fronting on this portion of Rutledge St.)

SAN MATEO, San Mateo Co., Cal.—No bids received February 6 by city council for \$8,785.80 improvement bonds, 7% interest, under 1903 Street Opening Act. Certified check 10% payable to City of San Mateo required with bid. Date of opening bids was put off for two weeks, until Feb. 20, 8 P. M.

LOS ANGELES, Cal.—Triangle Oil & Refining Co. has been awarded the contract by H. E. Russell, County Purchasing Agent, for furnishing road oil as follows:

- (1) 600 bbls. 40-45 road oil delivered and spread, at 99c.
- (2) 500 bbls. 60% road oil delivered and spread, various points in county, at \$1.04.

Spec. No. 5094.

MOUNTAIN VIEW, Santa Clara County, Cal.—Hearing continued by Judge Syer, superior court, until Feb. 23, on injunction on hearing on Reso-

lution to extend Moffett Blvd. from the north-easterly city limits to the Bayshore Highway. Ray Hays, city clerk. C. C. Kennedy, Cali Bldg., San Francisco, city engineer.

ARIZONA STATE—Until 2 p. m., Feb. 21 bids will be received by State Highway Commission, Phoenix, for highway construction on the Ashfork-Kingman Highway, E-80-F (A. F. E. No. 6655). The work, which is located about 30 miles northeast of the town of Kingman, consists of the grading and draining of approximately three miles of roadway, and is to be completed on or before June 15, 1933. The principal items are:

- 29,000 cu. yds. roadway excavation;
- 4,700 cu. yds. drainage excavation;
- 3,600 lin. ft. grader ditches;
- 2,600 cu. yds. slides and overbreakage;
- 740 cu. yds. structural excavation;
- 13,000 cu. yds. borrow excavation;
- 139,000 sta. yds. earthwork overhaul;
- 328 cu. yds. concrete;
- 22,500 lbs. reinforcing steel;
- 760 lin. ft. C. M. P. (various sizes);
- 5,500 lin. ft. cable road guard;
- and other incidental items

A proposal guarantee in cash or certified check of not less than 5% of the gross amount of the bid is required. Plans and specifications may be obtained from T. S. O'Connell, State Highway Engineer.

LONG BEACH, Los Angeles Co., Cal.—County will contribute \$10,000 toward the cost of extending Hathaway Drive from Anaheim St. to State St. The total cost is estimated at \$40,000, of which the state will pay \$30,000. The project involves a concrete pavement 40 ft. wide.

LOS ANGELES, Cal.—City council has allocated \$25,000 toward the cost of paving and improving a 30-ft. roadway in Santa Barbara Ave., from Third Ave. to Crenshaw Blvd. The project includes a storm drain and ornamental lighting system.

ARIZONA STATE—Until 2 p. m., Feb. 21, bids will be received by State Highway Commission, Phoenix, for highway construction on the Phoenix-Prescott Highway, E-84-B (A. F. E. No. 8954), and E-84-C (A. F. E. No. 8920). The work, which extends from the Wickenburg bridge northerly about 15 3/4 miles to the town of Congress Junction, consists of the placing of sub-grade stabilizer and the oil processing by either the plant or road mix method, and is to be completed on or before June 15, 1933. The principal items are:

- E-84-B and E-84-C
- PLANT MIX**
- 2,600 cu. yds. subgrade stabilizer;
- 9,800 cu. yd. mi. subgrade stabilizer haul;
- 370 M. gallons water applied to roadway;
- 28,300 tons plant mix;
- 282,600 gallons asphaltic road oil for plant mix;
- 23,100 gallons asphalt road oil for seal coat;
- 6,200 cu. yds. shoulder material;
- 25 500 cu. yd. mi. shoulder material haul;
- 15.7 miles spreading, compacting and finishing;
- 1,200 cu. yds. screenings;
- 300 cu. yds. special mineral aggregate for stockpile.

ALTERNATE—ROAD MIX

- 20,500 cu. yds. mineral aggregate;
- 129,000 cu. yd. mi. mineral aggregate haul;
- 369,500 gallons asphalt road oil (exclusive of seal coat);
- 15 7 miles mixing, laying and finishing.

A proposal guarantee in cash or certified check of not less than 5% of

the gross amount of the bid is required. Plans may be obtained from T. S. O'Connell, State Highway Engineer.

CLARK COUNTY, Nev.—Until March 29 (approximate date) bids will be received by S. C. Durkee, State Highway Engineer, Heroes Memorial Bldg., Carson City, for 8.31-mi. grading and gravel surfacing between Las Vegas and 6-mi. southwest of Apex.

Specifications obtainable from above office after March 13; also from the County Clerk's Office at Las Vegas, and from U. S. Bureau of Public Roads, 461 Market St., San Francisco. Deposit of \$15, of which \$10 is returnable, required for plans. Certified check 5% required with bid. 28

DOUGLAS COUNTY, Wash.—Columbia Power & Investment Co., Stevenson, at \$102,317 under schedule B submitted low bid to State Highway Department to grade and surface 10.9-mi. State Road No. 10, McLean's Orchard Tracts to Entiat Ferry, E. C. H. Project No. E-145-C and E-145-G; low bid under schedule A, \$103,317. Kesterson Contracting Co., Seattle, second low at \$103,644 under A and \$103,653 under B; Myers-Goulter, Seattle, third low at \$106,754 for A and \$106,668 for B. Bids held under advisement.

SEATTLE, King Co., Wash.—Until March 6, 10 A. M., bids will be received by King County Commissioners for highway construction as follows:

- 1 mile paving Pridgeon road between Renton and Three Tree Point;
- North extension of the Kummer Cut-Off;
- 1 mile paving near Maple Valley. Thos. Hunt, County Engineer.

SAN FRANCISCO.—All bids rejected by Department of Public Works and new bids will be received by S. J. Hester, secretary, until March 1, 2:30 P. M., to improve Bernal Ave. slopes, Randall to Diamond, by planting, involving:

- (1) trees; (2) wood slope.
- Love & Haun submitted low bid at \$5975 on January 25, but asked to be released from their contract, due to mistake of sub-bidder.

SOLANO, Yolo and San Joaquin Counties, Cal.—Until Feb. 20, 3 P. M., bids will be received by R. E. Pierce, district engineer, State Highway Commission, Room 502, State Office Bldg., Sacramento, to apply Diesel oil to roadside vegetation over 108.8 roadside miles in Solano, Yolo and San Joaquin counties. Specifications obtainable from above office. Certified check 10% required with bid.

PORTLAND, Oregon—Until Feb. 15, 9:30 A. M., bids will be received by Geo. R. Funk, City Auditor, to improve by paving, SE 39th Ave., et al; specifications obtainable from above office. Certified check 19% payable to City of Portland required with bid.

MENDOCINO, Sonoma, Marin, Solano and Napa Counties, Cal.—Until Feb. 27, 2 P. M., bids will be received by John H. Skeggs, District Engineer, State Highway Commission, Room 211, State Bldg., San Francisco, to apply Diesel oil to roadside vegetation over 135-roadside miles. Specifications obtainable from above office. 28

LOS ANGELES, Calif.—Contracts awarded Feb. 10 by Metropolitan Water District under four schedules for constructing 84-mi. roads for the Colorado River Aqueduct, follow:

A. Telechert & Son, Inc., 1068 45th St., P. O. Box 1118, Sacramento, at

\$88,603.50 Schedule No. 1, for constructing the Granite Pass Road, Sta. 0 to Sta. 1105.

Clyde W. Wood, Box 1435, Stockton, at \$106,860 Schedule No. 2, for constructing the Granite Pass Road, Sta. 1105 to Sta. 2230.

Geo. French, Jr., P. O. Box 675, Stockton, at \$67,948.30 Schedule No. 3, for constructing the Granite Pass Road Sta. 7280 to Sta. 3060 and the Grommet-Earp Road from Sta. 3060 to Sta. 3345.

Clyde W. Wood, Box 1435, Stockton, at \$137,327.70 Schedule No. 4, for constructing the Grommet-Earp Road, Sta. 3345 to Sta. 4331 plus 97.

LOS ANGELES & VENTURA COS., Cal.—Until Feb. 21, 2 P. M., bids will be received by S. V. Cortelyou, District Engineer, State Highway Commission, Room 808, California State Office Bldg., Los Angeles, to apply Diesel oil to roadside vegetation over 110.2 roadside miles. Specifications obtainable from above office. Certified check 10% required with bid.

LOS ANGELES, Orange, San Diego and Imperial Counties, Calif.—Until Feb. 23, 2 P. M., bids will be received by S. V. Cortelyou, District Engineer, State Highway Commission, Room 808 California State Office Bldg., Los Angeles, to apply Diesel oil to roadside vegetation over 79.4 roadside miles. Specifications obtainable from above office. Certified check 10% required with bid.

ALAMEDA, Santa Clara and Merced Counties, Cal.—Until Feb. 20, 2 P. M., bids will be received by John H. Skeggs, District Engineer, State Highway Commission, 211 State Bldg., San Francisco, to apply Diesel oil to roadside vegetation over 45 roadside miles. Specifications obtainable from above office. Certified check 10% required with bid.

MONTEREY, San Luis Obispo and Santa Barbara Counties, Cal.—Until Feb. 21, 2 P. M., bids will be received by L. H. Gibson, District Engineer, State Highway Commission, Highway Bldg., San Luis Obispo, to apply Diesel oil to roadside vegetation over 120 roadside miles. Specifications obtainable from above office. Certified check 10% required with bid.

SAN DIEGO, Cal.—T. E. Penick & Sons, 3075 L St., San Diego, submitted low bid to the Public Works Officer, 11th Naval District, San Diego, Feb. 7 at \$8131.00 for the improvement of field and paving at the Naval Operating Base (Air Station) San Diego; Spec. No. 7177. The work will consist in general of the excavation and grading for and the provision of materials and the paving of roads and areas, using one-course portland cement concrete.

The engineer has recommended that the contract be awarded to the low bidder. The other bids were:

Daley Corporation	\$8152.71
Miracle Company	8528.00
B. G. Carroll	8666.00
E. P. Watson, Jr.	8825.00
Nelson & Sloan	8905.00
Griffith Company	9200.00
Walter Treptke	9749.00
Associated Constructors, Inc.	10662.00

LOS ANGELES, Calif.—A call for bids for the improvement of Venice Blvd. (south roadway) bet. La Cienega Blvd. and Overland Ave., under cash contract, scheduled for opening January 25, was withdrawn by board of public works January 20. The order was necessary as the city council notified the board that the money was not available at this time.

BUILDING NEWS

APARTMENTS

Contract Awarded.
APARTMENTS Cost, \$10,000
SAN FRANCISCO. W Oakwood S
 Eighteenth Street.
 Two-story and basement frame and
 stucco (4) apartments.
 Owner—G. Visconti, 537 Vera Avenue,
 Redwood City.
 Architect—Not Given.
 Contractor—J. Meconi, 615 Myrtle St.,
 Redwood City.

Preparing Plans.
APARTMENTS Cost, \$60,000
SAN FRANCISCO, Calif., N. E. Fill-
 more and North Point Streets.
 Three-story and basement frame and
 stucco apartments (18, 2, 3, and 4
 rm. apartments), composition roof,
 steam heat, hardwood floors and
 trim, etc.
 Owner and Builder—Ben Liebman,
 1555 Francisco St.
 Architect—R. R. Irvine, 2048 Market
 Street.

Preparing Plans.
ALTERATIONS Cost, \$40,000
PORTLAND, Oregon. No. 5415 Albina
 Avenue.
 Reconstruct three-story and basement
 apartment building.
 Owner—W. P. Sinnott, 582 E-21st St.,
 North Portland.
 Architect—John Grant, Oregon Bldg.,
 Portland.

Sub-Contracts Awarded.
REPAIRS Cost, \$32,000
SAN FRANCISCO. No. 765 Geary t.
 Repair fire damage to apartments.
 Owner—McKinnon Estate Co.
 Architect—Not Given.
 Contractor—I. W. Coburn, 2048 Mar-
 ket St., San Francisco.
Plumbing and Heating—Geo. Rehn, 1919
Mission St., San Francisco.
Wall Beds—Marshall & Stearns Co.,
Phelan Bldg., San Francisco.
Sheet Metal—John J. Delucchi, 1526
Powell St., San Francisco.
Electric—Golden Gate Electric Co.,
1526 California St., San Francisco.
Elevator—Otis Elevator Co., 1 Beach
St., San Francisco.
Terra Cotta—Gladding, McBean &
Co., 660 Market St., San Francisco
Refrigeration—Holbrook, Merrill &
Stetson, 973 Mission St., S. F.

To Be Done By Day's Work.
ALTERATIONS Cost, \$1300
SAN JOSE, Santa Clara Co., Calif.
 No. 149 E. Julian St.
 Alterations to frame apartments.
 Owner—R. A. Parks, 149 E. Julian St.,
 San Jose.
 Architect—Not Given.

Contract Awarded.
ALTERATIONS Cost, \$30,000
SACRAMENTO, Sacramento Co., Cal.
 Fifth and J Streets.
 Alterations to three-story brick
 building for apartments.
 Owner—Miss Irene Cole.
 Architect—Harry Devine, California
 State Life Bldg., Sacramento.
 Contractor—Campbell Constr. Co., 800
 R St., Sacramento.

Contract Awarded.
APARTMENTS Cost, \$25,000
SACRAMENTO, Sacramento Co., Cal.
 NE Twenty-first St. and Castro
 Way.
 Two-story frame and stucco apart-
 ments (8 3-room and bath apts.)
 wood shingle roof, steam heating
 system, diagonal flooring, mason-
 ric insulation and deadening.

Owner—H. P. Visser, Sacramento.
 Architect—Frederick S. Harrison, 1003
 10th St., Sacramento.
 Contractor—Frank P. Williams, 2150
 Markham St., Sacramento.

Contract Awarded.
ALTERATIONS Cost, \$6000
SAN FRANCISCO. No. 829-831 Hayes
 Street.
 Alterations to frame flats for apart-
 ments.
 Owner—Mrs. A. S. Cornell, 829 Hayes
 St., San Francisco.
 Plans by Unit Constr. Co.
 Contractor—Unit Construction Co., 82
 Sutter St., San Francisco.

FACTORIES AND WARE- HOUSES

ONTARIO, San Bernardino Co., Cal.
 —Dr. C. R. Maines, 319 West C St.,
 Ontario, contemplates erecting a citrus
 juice manufacturing and bottling plant
 in Ontario to cost approximately \$30,-
 000.

WALLA WALLA, Wash. — The
 Walla Walla Canning Company, (J.
 G. Kelly, President), are planning the
 construction of a modern cannery to
 be erected at Walla Walla to cost ap-
 proximately \$40,000.

TUCSON, Ariz. — Southwest Brew-
 ing Co., Wm. E. Gleason, president;
 Paul Engstrom, vice-president, Tuc-
 son, contemplates erecting a brewery
 in Tucson to cost \$150,000.

Plans Being Completed.
SHED Cost, \$—
SAN FRANCISCO. Pier No. 35.
 Shed for extension to Pier No. 35 (80
 feet in length).
 Owner—State of California (Harbor
 Commission).
 Engineer—Frank G. White, Ferry
 Bldg., San Francisco.
 Bids will be asked in about thirty
 days.

Construction Postponed Indefinitely
DISTRIBUTING PLANT Cost, \$5000
OAKLAND, Alameda Co., Cal. Vi-
 cinity of 46th and Clement Sts.
 One-story wood frame and corrugated
 iron distributing plant.
 Owner—Richfield Oil Co., 248 Battery
 St., San Francisco.
 Plans by Eng. Dept. of Owner, P. L.
 Mott, Engineer.

Sub-Contracts Awarded.
DAIRY BLDGS. Cont. Price, \$44,900
TALMADGE, Mendocino Co., Cal.
 Group of dairy buildings (7 one-story
 reinforced concrete structures, as-
 bestos shingle roof) creamery,
 milk barns, bull pen, dairy build-
 ings.

Owner—State of California.
 Architect—George B. McDougall, state
 architect, Public Works Building,
 Sacramento.
 Contractor—Oliver S. Ahmlie, 414 23rd
 St., Merced.
Concrete Aggregate—Ukiah Rock and
Cement Co., Ukiah.
Cement—Calaveras Cement Co., 315
Montgomery St., San Francisco.
Reinforcing Steel—Soule Steel Co.,
1750 Army St., San Francisco.
Roofing—San Joaquin Lbr. Co., 12th
and North B Sts., Sacramento.

As previously reported, plumbing &
 heating awarded to Hately & Hately,
 1710 10th St., Sacramento; electrical
 to Eddy Electric Co., 303 E Weber St.,
 Stockton; refrigeration to Cyclops
 Iron Works, 837 Folsom St., San Fran-
 cisco.

Preparing Plans.
FACTORY Cost, \$150,000
CATHLAMET, Oregon.
 Box and shook factory.
 Owner—International Wood Products
 Corp.
 Engineer—Fred Horstkotte, American
 Bank Bldg., Portland, Oregon.
 Lessee—Kraft Cheese Company.

Plans Being Completed.
EXTENSION Cost, \$—
SAN FRANCISCO.
 Extension of wharf shed for Dock No.
 2 (150x92 feet); steel frame, five
 rolling doors, copper beaming
 monitor sash, copper gutters; out-
 side walls of reinforced concrete.
 Owner—United States Government.
 Plans by Constructing Quartermaster,
 Fort Mason, San Francisco.
 Bids will be asked in two or three
 weeks.

Planned.
PLANT Cost, \$—
HOLLISTER, San Benito Co., Calif.
 Milk Plant.
 Owner—Sego Milk Products Co., 32
 N. Main St., Salinas.
 Architect—Not Given.
 Proposed project is in a very pre-
 liminary stage.

Sub-Contracts Awarded.
TREATING PLANT Cost, \$9,000
AVON, Contra Costa Co., Cal.
 Steel and hollow tile treating plant.
 Owner—Associated Oil Co., 79 New
 Montgomery St., San Francisco.
 Plans by Engineering Department of
 Owner.
 Contractor—Dinwiddie Construction
 Co., Crocker Bldg., San Francisco.
Structural Steel—Judson Pacific Co.,
60 Mission St., San Francisco.
Reinforcing Steel—W. S. Wetenhall,
17th and Wisconsin Sts., S. F.
Steel Sash—Detroit Steel Products
Co., 111 Sutter St., San Francisco.

OAKLAND, Alameda Co., Cal.—W.
 P. Koetitz, 2335 E-7th St., Oakland,
 at \$650 awarded contract by City of
 Oakland Port Commission for re-
 pairs to fender system at the Grove
 Street Terminal.

GOVERNMENT WORK AND SUPPLIES

WASHINGTON, D. C.—Following
 have procured plans for the purpose
 of submitting bids to the Treasury
 Department, Washington, D. C., on
 March 15th for the construction of the
 two-story and basement steel and
 masonry post office building to be
 erected in San Diego for the U. S.
 Government, for which bids will be
 opened March 15th, William T. John-
 son, San Diego Trust and Savings
 Bank Building, San Diego, architect.
 Indiana Limestone Institute, Bed-
 ford, Ind.

Bannister-Field Co., Ltd., 4101 Good-
 win Ave., Los Angeles.
 H. Mayson, 9317 Hooper Ave., Los
 Angeles.
 Lindgren & Swinerton, Inc., Pacific
 Mutual Bldg., Los Angeles.
 Thierhault Contracting Co., 534 E.
 Johnson, Phila., Pa.
 Frank Doran, Spreckles Bldg., San
 Diego.
 Wm. Templeton Johnson, Trust &
 Savings Bank Bldg., San Diego.

WASHINGTON, D. C.—Following
 are additional contractors who have
 procured plans for the purpose of sub-
 mitting bids to the Treasury Depart-
 ment, on March 7th, for the construc-

tion of a masonry inspection station to be erected in Tecate, San Diego County, for the U. S. Government. Estimated cost, \$50,000.

B. O. Larson, 1340 E. St., San Diego. Rowsey and Boyd, 4585 Spring St., Los Angeles.

WALLA WALLA, Wash.—Following have secured plans for the purpose of submitting a bid to the Veterans' Administration, Veterans Administration Hospital, Palo Alto, on February 27th, 2:30 p. m., for installing linoleum on floors, rubber stair tread covering and metal nosings in building No. 68 at the Veterans' Administration Hospital, Walla Walla, Wash. Work consists of preparing cement, tile and wood floors to receive new linoleum, furnishing and installing linoleum in rooms indicated on drawings.

W. & J. Sloane, 224 Sutter Street, San Francisco.

Empire Furniture Company, Walla Walla, Wash.

Spokane Paper & Stationery Co., Spokane.

QUARTERS Cont. Price, \$97,320
SUNNYVALE, Santa Clara Co., Cal. Nine two-story and basement quarters for officers at Naval Air Station, Sunnyvale. (Spec. No. 6939). Each building will have concrete foundations, frame superstructure with stuccoed walls and tile roofing. The work includes cast stone, tiled toilets and bathrooms, miscellaneous metal work, all-metal screens and plumbing, heating and electrical systems.

Owner—United States Government. Plans by Bureau of Yards and Docks, Navy Dept., Washington, D. C. Contractor—Neves & Harp, 891 Harrison St., Santa Clara.

Plastering: F. V. Plummer, 325 N. 18th St., San Jose. Buildings are ready for plastering now.

LAS VEGAS, Nev. — The following contractors will submit bids to the Treasury Department construction engineer at Las Vegas for cooling system for the Las Vegas post office: Rosen & Fischel, 11 S. La Salle St., Chicago; Plains Constr. Co., P. O. Box 1685, Pampa, Texas.

WASHINGTON, D. C. — Permitit Company, 440 Fourth Ave., New York City, New York, at \$6,390 awarded contract by Veterans' Administration, for a Zeolite water softening plant to be installed in the Veterans' Administration Hospital, Legion, Texas.

Site to be selected.
POST OFFICE Cost, \$80,000
SEBASTOPOL, Sonoma Co., Cal. U. S. Post Office.
Owner—United States Government.
Architect—Not selected.

OAHU, T. H.—Until Feb. 21, 11 A. M., bids will be received by District Public Works Officer, 14th Naval District, Pearl Harbor, T. H., for furnishing and installing guaranteed 5-pair underground telephone cable with the necessary terminal boxes, for connection and testing at the Naval Ammunition Depot, Oahu, T. H. (Lualualei and West Loch). Work involves excavation, backfill, telephone cable, terminal boxes, terminal strips and concrete manhole; Spec. No. 7023.

Plans and specifications available from above office, and from Commandant, 12th Naval Dist., 100 Harrison St., San Francisco, upon deposit of \$5.00.

OAHU, T. H.—Until Feb. 21, 11 A. M., bids will be received by District Public Works Officer, 14th Naval District, Pearl Harbor, T. H., for clearing, excavation and grading along the

line of the fence and for furnishing and installing all fence materials, including posts, concrete foundations, fabric, barbed wire, gates and fastenings at the Naval Ammunition Depot, Oahu, T. H.; Spec. No. 6938.

Plans and specifications available from above office, and from Commandant, 12th Naval Dist., 100 Harrison St., San Francisco, upon deposit of \$10.00.

WASHINGTON, D. C.—Following are additional contractors who have procured plans for the purpose of submitting a bid to the Treasury Department on February 28 for the construction of a six-story and basement reinforced concrete Federal Building in the Civic Center, San Francisco, for the U. S. Government. Will have granite exterior, terra cotta court lining, promenade and terrazzo and tile flooring, mastic tile floors in offices, seven elevators, etc. Plans prepared by Architect Arthur Brown Jr., 251 Kearny St., San Francisco:
S. W. Rindfleisch, Milwaukee, Wis. Atlas Constr. Co., 817 N. 9th Ave., St. Louis, Mo.

Geo. Wagner, 781 South Park, San Francisco

N. P. Severin Co., 222 W. Adams St., Chicago.

Pike & Cook Co., Inc., 16 S. 5th St., Minneapolis, Minn.

Great Lakes Constr. Co., 333 North Michigan Ave., Chicago.

Robt. E. McKee, El Paso, Texas. Barrett & Hulp, 918 Harrison St., San Francisco.

Chambliss Co., Inc., Shoreham Bldg. Washington, D. C.

Schuler & McDonald, Inc., Oakland. McCloskey Co., 1620 Thompson St., Philadelphia, Pa.

WEISER, Idaho.—Tapager Const. Co., Albert Lea, Minnesota, at \$84,672 awarded contract by Treasury Department, Washington, D. C., for the construction of the U. S. Post office at Weiser. Building will be a two-story and basement structure, 100x67, with composition roof, vaults, wood block and terrazzo floors, metal skylights, steam heat, marble and wood work, etc. Plans prepared by Tourtellotte and Hummel, architects, Boise Idaho.

WASHINGTON, D. C.—Until March 7, bids will be received by Treasury Department, Washington, D. C., for landscaping in connection with the Federal Building in Seattle, Wash.

WASHINGTON, D. C.—Until March 7, bids will be received by Treasury Department, Washington, D. C., for fencing, etc., in connection with the Federal Building in Seattle Wash.

WASHINGTON, D. C. — As previously reported, Frink Corporation, Long Island City, New York, at \$330 submitted low bid to Treasury Department, for illuminated signs for the post office building at Berkeley, Calif. Following is a complete list of bids:

The Frink Corp., Long Island City, New York, \$330.

Scott-Buttner Electric Co., 19 Grand Ave., Oakland, Calif., \$496.

Walter G. Warren & Co., 363 E. Ohio St., Chicago, \$626.

J. Walter Spencer, 2059 Webster St., Oakland, Calif., \$685.

Price Bros., Inc., 2644 N. Maplewood Ave., Chicago, \$687.

Benson Brass & Chandelier Co., Wanasas City, Mo., \$688.75.

Industrial Arts Studio, Inc., 1026 N. Water St., Milwaukee, Wis., \$697.

Highbridge International Co., Morris Heights, New York City, \$810.

Brumfield Elec. Sign Co., Inc., 965 Folsom St., San Francisco, \$837.

Sub-Contracts Awarded.

POST OFFICE Cost, \$363,660
RENO, Washoe Co., Nevada. No. 21 Mill Street.

Three-story Class A Post Office (terra cotta and stone exterior finish, marble corridors, etc.; 190x80 ft.)

Owner—United States Government. Architect—F. J. DeLongchamps, Gazette Bldg., Reno.

Contractor, MacDonald Engr. Co., 149 California St., San Francisco.

Electric—W. B. Baker, 15 Harriet St., San Francisco.

Roofing—Alta Roofing Co., 976 Indiana St., San Francisco.

Painting—Walter J. Gaumel, Cheyenne, Wyoming.

Aluminum, Ornamental Iron and Miscellaneous Metal — A. J. Bayer, 5901 Santa Fe St., Los Angeles.

Plumbing & Heating—Johnson Plumbing & Heating Co., Chicago, Ill.

Structural Steel — American Bridge Co., Chicago, Ill.

Terra Cotta — Northwestern Terra cotta Co., Denver, Colo.

Granite and Stone—Mountain Granite Co., Stone Mountain, Georgia.

Excavation—E. M. Star, Reno.

Bids are now being taken on plastering, masonry, sheet metal, glass and glazing, terrazzo, screens wood block flooring mill work, etc.

Sub-Contracts Awarded.

POST OFFICE Cont. Price, \$107,700
MARYSVILLE, Yuba Co., Cal. NE Fourth and C Sts. (160x160 ft.)

One-story and basement Class A steel and brick Post Office (164x110 ft.) face brick exterior, terra cotta trim, clay tile and composition roof, metal skylights, steel windows, granite entrance steps, concrete vault steam heat.

Owner—United States Government. Architect—J. J. Donovan 1916 Broadway, Oakland.

Structural Engineer—Frank A. Johnson, 1916 Broadway, Oakland.

Mechanical Engineer—Atkins & Parker, Hobart Bldg., San Francisco.

Contractor — K. E. Parker Co., 135 South Park, San Francisco.

Excavation—Hemstreet & Bell, Marysville.

Reinforcing Steel — Soule Steel Co., 1750 Army St., San Francisco.

Brick—E. A. Hunn, Yuba City.

Granite—McGilvray-Raymond Corp., 3 Potrero Ave., San Francisco.

Architectural Terra Cotta—Gladding, McBean & Co., 660 Market St., San Francisco.

Structural Steel—Shattuck Company. Miscellaneous and Ornamental Metal —Anchor Post Fence Co., 450 6th St., San Francisco.

Steel Windows—Michel & Pfeffer Iron Works, Harrison and Tenth Sts., San Francisco.

Vault Doors — Herring Hall Marvin Safe Co., 214 California St., San Francisco.

Roofing—C. L. Frost, 165 Webster St., Monterey.

Plastering—M. J. King—2343 Bay St., San Francisco.

Marble — Ray Cook Marble Co., 1535 Powell St., Oakland.

Mill Work — Pacific Mfg. Co., Santa Clara.

Builders Hardware — E. M. Hundley, 662 Mission St., San Francisco.

Painting—Mark Miller, 3664 Madrone St., Oakland.

Glass and Glazing — Diamond Match Co., Chico.

Plumbing and Heating—Frank Booth, Marysville.

Electric — Spencer Electric Co., 2059 Webster St., Oakland.

The structural steel is now being erected.

SEATTLE, Wash.—N. Howard Clock Co., 236 Charles St., Waltham, Mass., at \$2,847 awarded contract by Treasury Department, Washington, D. C., for installing a time clock system in the Federal office building in Seattle.

SALT LAKE CITY, Utah.—N. Howard Clock Co., 236 Charles St., Waltham, Mass., at \$2,000 awarded contract by Treasury Department for installing a time clock system in the post office building in Salt Lake City.

Sub-Contracts Awarded.

POST OFFICE Cont. Price, \$110,100
EL CENTRO, Imperial Co., Cal.
One-story and basement Class A Post Office (101x77 feet).

Owner—United States Government.
Plans by Supervising Architect, Washington, D. C.
Contractor—Union Engineering Co., 5905 Pacific Blvd., Huntington Park.

Terra Cotta—Pacific Clay Products Co., 1151 S-Broadway, Los Angeles.

Cut Stone—Indiana Limestone Corp., Bedford, Indiana.

Granite—McGilvray-Raymond Co., 678 S-Anderson St., Los Angeles.

Mill Work—Glasson Planing Mill, San Diego.

Lumber—Patten Blinn Lumber Co., 521 E. Fifth St., Los Angeles.

Roofing—Godbe Roofing Co., 531 N. La Cienega St., Los Angeles.

Heating—S. C. Blackman, Calexico.

Plumbing—Earl W. Fite, El Centro.

Electrical—C. F. Ferguson, El Centro.

Painting—Harry Wasserman, 424 N. Crescent Heights, Los Angeles.

Structural Steel—Virginia Bridge & Iron Works, Roanoke, Virginia.

Reinforcing Steel—Blue Diamond Co., 1650 S. Alameda St., Los Angeles.

Marble and Tile—Long Beach Marble & Tile Co., Long Beach.

Terrazzo—Consolidated Terrazzo Co., 2668 Long Beach, Los Angeles.

Brick—Compton Brick Co., Compton.

Cement—Southwestern Portland Cement Co., 1719 Industrial St., Los Angeles.

Vault Doors—Schwab & Co., Lafayette Indiana.

Hardware—P. & F. Corbin, New Britain, Connecticut.

Sub-Contracts Awarded.

OFFICERS' QTRS. Cont. Price \$73,968
SAN FRANCISCO, Fort Mason.

Seven sets of two-story and basement officers' quarters (hollow tile construction, Mission stucco exterior, three baths to each set, garage, hot water heating system, etc.)

Owner—United States Government.
Plans by Constructing Quartermaster, Fort Mason.

Contractor—William Spivock, Hobart Building.

Ornamental Iron—National Ornamental Iron & Bronze Co., 434 9th St.

Electric—C. W. Farrow, 1534 8th St.

Miscellaneous Iron—Kortick Mfg. Co., 235 First Street.

Brick Work—J. Henry Thompson, 678 18th St., Oakland.

Overhead Doors—Stanley Co., Monadnock Building.

Glass—W. P. Fuller Co., 301 Mission Street.

Heating—J. H. Pinkerton, 927 Howard Street.

Plumbing—Daniel Hayes, 1657 Market Street.

As previously reported, dampproofing awarded to Conrad B. Sovig, 248 Oak St.; structural steel to Sims and Gray, 550 Bryant St.; stairs to Di Cristina & Son, 3150 18th St.; sheet metal to Guilfooy Cornice Works, 1234 Howard Street; excavation to L. Devencenzi & Co., 148 Blake St.

Sub-Contracts Awarded.

OFFICERS' QTRS. Cont. Price \$116,270
SAN FRANCISCO, Fort Scott.

Twenty double sets of non-commissioned officers' quarters (hollow tile construction, stucco exterior, hot water heating system, etc.)

Owner—United States Government.
Plans by Constructing Quartermaster, Fort Mason.

Contractor—William Spivock, Hobart Building.

Ornamental Iron—National Ornamental Iron & Bronze Co., 434 9th St.

Electric—C. W. Farrow, 1534 8th St.

Miscellaneous Iron—Kortick Mfg. Co., 335 First Street.

Brick Work—J. Henry Thompson, 678 18th St., Oakland.

Overhead Doors—Stanley Co., Monadnock Building.

Glass—W. P. Fuller Co., 301 Mission Street.

Heating—J. H. Pinkerton, 927 Howard Street.

Plumbing—Daniel Hayes, 1657 Market Street.

As previously reported, dampproofing awarded to Conrad B. Sovig, 248 Oak St.; structural steel to Sims and Gray, 550 Bryant St.; stairs to Di Cristina & Son, 3150 18th St.; sheet metal to Guilfooy Cornice Works, 1234 Howard St.; steel sash to Detroit Steel Products Co., 111 Sutter St.; grading to L. Devencenzi & Co., 148 Blake St.

PEARL HARBOR, T. H.—Following have procured plans for the purpose of submitting bids to the Bureau of Vards and Docks, Navy Department, Washington, D. C., for freight elevators at the Naval Operating Base, Pearl Harbor, T. H. Specification No. 7122:

Montgomery Elevator Co., 30 20th St., Moline, Ill.

Shepherd Elevator Co., 2425 Colerain Ave., Cincinnati.

Blake-Palm Elevator Co., 1915 E St., N. W., Washington.

Otis Elevator Co., 810 18th St., N. W., Washington.

Warner Elevator Mfg. Co. Spring Grove Ave. and Alfred St., Cincinnati.

WASHINGTON, D. C.—Following are additional contractors, et al, who have procured plans for the purpose of submitting bids to the Bureau of Yards and Docks, Navy Department, Washington, D. C., on March 1st, for a balloon hangar at the Naval Air Station Sunnyvale. Work includes concrete, steel and iron work, steel doors and windows, built-up roof, metal studding and lathing, carpentry and joinery, plumbing and electrical systems. Specification No. 7027:

Bethlehem Fabricators, Bethlehem, Pa.

Virginia Bridge & Iron Co., Roanoke Virginia.

Westinghouse Electric & Mfg. Co., Washington, D. C.

Belmont Iron Works, Philadelphia.

General Electric Co., Schenectady, New York.

FORT APACHE, Arizona—Until February 24, bids will be received by the Department of Interior at the Theo. Roosevelt Indian School, Fort Apache, Arizona, for cutting, fitting, laying and finishing 1320 sq. yds. medium "Battleship" linoleum and 370 sq. yds. inlaid linoleum.

Prospective Bidders.

REFORMATORY Cost, \$580,000
EL RENO, Oklahoma.

Mess hall and school buildings at U. S. Federal Southwestern Reformatory.

Owner—United States Government.

Plans by Supervising Architect, Treasury Dept., Washington, D. C.

Following have procured plans.

Bids open February 28:

Atlas Construction Co., 817 N. 9th St., St. Louis, Mo.

Central States Constr. Co., 6221 Olive Blvd., University City, Mo.

Reinforcing Steel Contract Awarded.
HOSPITAL BUILDINGS

Contract Price, \$898,810
SAN FRANCISCO, Fort Mile.

Six-story reinforced concrete hospital (300 beds), 3-story concrete administration building, nurses' home, garage, storehouse, laundry, etc. (prepared roof).

Owner—United States Government.

Plans by U. S. Veterans' Administration Veterans' Hospital, Palo Alto.

Contractor—Herbert M. Baruch Corp., 625 South Olive St., Los Angeles.

Reinforcing Steel—Gulf Steel Co., Birmingham, Alabama.

As previously reported, wrecking awarded to California Wrecking Co., 666 Mission St.;

Mr. Paul Neal, representative of the Baruch Corp., is at the Gaylord Hotel, 620 Jones St., San Francisco, and is receiving sub-bids on all portions of the work.

February 14, 1933

LOS ANGELES, Cal.—Until March 6, 2:30 P. M., bids will be received by Supervising Superintendent of Construction, U. S. Veterans' Hospital, Palo Alto, for garbage incinerator at the U. S. Veterans Home, Los Angeles.

Equipment Approved.

POST OFFICE Cost, \$94,000
ELKO, Nevada.

Fireproof Post Office.

Owner—United States Government.

Plans by Supervising Architect, Treasury Dept., Washington, D. C.

Contractor—Carl C. Madsen Constr. Co., 515 Williams Street, Denver, Colo.

Oil Burner—Enterprise Oil Burner Co., 2949 18th St., San Francisco.

Equipment Bids Approved.

POST OFFICE Cost, \$107,700
MARYSVILLE, Yuba Co., Cal. NW

Fourth and C Streets (160x160 ft.)

One-story and basement Class A steel and brick Post Office (164x110 ft.)

face brick exterior, terra cotta trim, clay tile and composition roof, metal skylights, steel windows, granite entrance steps, concrete vault steam heat.

Owner—United States Government.

Architect—J. J. Donovan, 1916 Broadway, Oakland.

Structural Engineer—Frank A. Johnson, 1916 Broadway, Oakland.

Mechanical Engineer—Atkins & Parker, Hobart Bldg., San Francisco.

Contractor—K. E. Parker Co., 125 South Park, San Francisco.

Plumbing fixtures, Crane Co.; pressure reducing valve on water supply, H. Mueller Mfg. Co.; back water valves, Josam Mfg. Co.; back water cesspools, American Foundry & Machine Co.; boiler, Kewanee Boiler Corp. oil burner, Ray Burner Co.; column radiators, Crane Co.; non-conducting covering for heating, Johns-Manville Co.; wall radiators, Crane Co.; nonconducting covering for plumbing, Johns-Manville Co.; sump pump, Economy Pump & Machinery Co.; angle radiator valves, Crane Co.; air valves for radiators, Hoffman Specialty Co.; air valves for end of steam mains, Hoffman Specialty Co.

WASHINGTON, D. C.—Following have procured plans for the purpose of submitting a bid to the Bureau of Yards and Docks, Navy Department, Washington, D. C., on March 8 in connection with the removal of four 250-hp. boilers two boiler feed pumps, feed water heater, certain walkways, piping and accessories and their replacement with three 500-hp. water tube boilers including foundations, setting, oil-burning units soot blowers, deaerating feed water heater, boiler feed pumps boiler appurtenances, walkways, alterations to breech-

ing and complete piping systems and accessories, at the naval aperting base at San Diego. Spec. 7171.

Wickes Boiler Co., Saginaw, Mich.
 Foster Wheeler Corp., Washington, D. C.
 Lohman Bros., 232 S. Spring St., Los Angeles.
 Grinnell Company Providence, Rhode Island.

WASHINGTON, D. C.—Following are additional contractors, et al, who have procured plans for the purpose of submitting bids to the Bureau of Yards and Docks, Navy Department, Washington, D. C., for a steel floating dock, 393 ft. long and 50 ft. beam, having a closed bow and a hinged gate at the stern, and including oil engine generator, pumps, piping and electric power and light systems for the Naval Operating Base (Destroyer base), San Diego. Specification No. 6532.

Westinghouse Electric & Mfg. Co., 1434 New York Ave., Washington.
 United Dry Docks, 11 Broadway, New York City.

Sun Shipbuilding & Dry Dock Co., Chester, Pa.
 Mechanical Engineering Service, 1315 H St., N. W., Washington.

Pusey & Jones Corp., Wilmington, Delaware.
 Worthington Pump & Machinery Co., Washington.

Fairbanks, Morse & Co., 115 E. Lombard St., Baltimore.
 Ideal Elec. & Mfg. Co., Mansfield, Ohio.

Minneapolis-Moline Power Implement Co., 933 Chapman Bldg., Los Angeles.

Wallace Bridge & Structural Steel Co., Seattle, Wash.

Moore Dry Dock Co., Oakland, Calif.
 American Locomotive Co., 30 Church St., New York City.

General Electric Co., Schenectady, New York.
 Los Angeles Shipbuilding & Dry Dock Corp., San Pedro, Calif.

LeRoi Co., 1706 S. 68th St., Milwaukee, Wis.
 General Engineering & Dry Dock Co., Oakland, Calif.

McClintic-Marshall Co. Bethlehem, Pa.

Chicago Bridge & Iron Co., 1700 Walnut St., Philadelphia.

PEARL HARBOR, T. H.—Bids are being received by the Bureau of Yards and Docks, Navy Department, Washington, D. C., for pier and two quays of reinforced concrete construction supported on concrete cylinders on wood piles and on concrete piles and includes a steel sheet pile bulkhead, timber fender systems, track work, piping systems and electrical conduits at the Navy Yard, Pearl Harbor, T. H. Specification No. 7224.

SEATTLE, Wash.—Pittsburgh Steel Co., P. O. Box 72, Pittsburgh, Pa., have secured plans for the purpose of submitting a bid to the Treasury Department Washington, D. C., on March 7th for fencing, etc., in connection with the Federal Building in Seattle, Washington.

POMONA, Los Angeles Co., Cal.—Corry Metal Corp., Corry, Pa., submitted low bid to Treasury Department, at \$725, for furnishing and installing insect screens in the United States post office at Pomona.

WASHINGTON, D. C.—McCarthy Brothers Construction Company, at \$24,684 awarded contract by Bureau of Yards and Docks, Navy Department, for construction of shop extension, 100x126 feet at Coco Solo, Canal Zone. Work involves wood plies, concrete footings, steel framing, steel windows, corrugated metal siding, insulated

steel roof decks, built-up roofing, etc. Specification No. 7111.
 (280) 1st report Dec. 21, 1932; 7th Feb. 10, 1933.

PORTLAND, Ore.—Until Feb. 23, 2 P. M., bids will be received by Superintendent of Lighthouses Custom House, Portland, to furnish 160,000 ft. b.m. heavy timbers and plank for use in crib construction, North Manitou shoal light system, Lake Michigan. Specifications obtainable from above office.

FORT LEWIS, Wash.—West Coast Construction Co., Lloyd Bldg., Seattle, at \$17,358 awarded contract by Constructing Quartermaster, Ft. Lewis, for laying cast iron water mains.

SAN DIEGO, Cal.—T. B. Penick & Sons, 3075 "L" St., San Diego, at \$8131 awarded contract by Public Works Officer, San Diego, to improve field and paving at the Naval Operating Base (Air Station), San Diego, under Spec. No. 7177.

PUGET SOUND, Wash.—Harnischfeger Sales Corp., Milwaukee, Wis., at \$41,840 awarded contract by Bureau of Yards and Docks, Navy Dept., Washington, D. C., to furnish one gasoline driven 10-ton traveling gantry crane. Complete bids published in issue of Jan. 8.

BOULDER CANYON, Nev.—Goslin-Birmingham Mfg. Co., Birmingham, Ala., has been awarded the contract by the U. S. Bureau of Reclamation, Washington D. C., at \$56,000 for furnishing entrance liners for intake tunnel (item No. 1) in connection with the cylinder gates and intake towers for the Hoover Dam.

The Westinghouse Electric & Mfg. Co., Pittsburgh, Pa., was awarded the contract at \$334,737 for furnishing eight welded plate steel cylinder gates, (item No. 2) for the intake towers at Hoover Dam.

SUNNYVALE, Santa Clara Co., Cal.—Until February 28, 11 A. M., bids will be received by Public Works Officer, 12th Naval District, 100 Harrison St., San Francisco, for small store facilities for barracks and enclosure for storehouse at the Naval Air Station, Sunnyvale. Specification No. 7225

SUNNYVALE, Santa Clara Co., Cal.—Until February 21, 11 A. M., bids will be received by Public Works Officer, 12th Naval District, 100 Harrison St., San Francisco, for wagon scales at the Naval Air Station, Sunnyvale. Specification No. 7191.

BREMERTON, Wash.—Until Feb. 13, 10 A. M., under Req. No. NSA-8/7242, bids will be received by Supply Officer, Puget Sound Navy Yard, to furnish 50 lin. ft. steel tubing, seamless, black, .675-in. O.D., .095-in. wall, lengths of 12- to 22-ft. Delivery f.o.b. above April 3.

SUNNYVALE, Santa Clara Co., Cal.—Until March 7, 11 A. M., bids will be received by Public Works Officers, 12th Naval District, 100 Harrison St., San Francisco, for improvements to mobile telescopic mooring mast. Specification No. 7226.

Planned.
 BOAT HOUSE Cost, \$—
 EUREKA, Humboldt Co., Cal. Life Saving Station.
 Two-story boat house.
 Owner—United States Government.
 Plans by U. S. Coast Guard Dept., Appraisers Bldg., San Francisco.

MARE ISLAND, Cal.—Thos. Doyle, 1527 17th Avenue, (Montrose 5029), desires sub-bids on all portions of the work in connection with the oil puri-

fication plant to be constructed at Mare Island for the U. S. Government, for which bids will be opened Feb. 21. Specification No. 7079.

WASHINGTON, D. C.—Following have procured plans for the purpose of submitting a bid to the Bureau of Yards and Docks, Navy Department, Washington, for two electric freight elevators at the Navy Yard, Pearl Harbor, T. H. Specification No. 7122:
 Montgomery Elevator Co., Moline, Illinois.

Shepard Elevator Co., Cincinnati, Ohio.
 Blake-Palm Elevator Co., 1915 E St. N. W., Washington, D. C.

Otis Elevator Co., 810 18th St., N. W., Washington D. C.

Warner Elevator Mfg. Co., Spring Grove Ave. and Alfred St., Cincinnati, Ohio.

WASHINGTON, D. C.—Following have secured plans for the purpose of submitting bids to the Treasury Department, Washington, D. C., on March 7 for fencing, etc., in connection with the Federal Building in Seattle Washington:
 Pittsburgh Steel Co., P. O. Box 72, Pittsburgh, Pa.

Page Steel & Wire Co., Monessen, Pa.
 Continental Steel Corp., Kokomo, Indiana.

To Select Site.
 POST OFFICE Cost, \$—
 SHELTON, Washington.
 United States Post Office.
 Owner—United States Government.
 Plans by Supervising Architect, Treasury Dept., Washington, D. C.

Sub-Contracts Awarded.
 ADDITION Cost, \$625,530

SAN FRANCISCO, Seventh and Mission Streets.

Four-story Class A reinforced concrete addition to post office (granite exterior).

Owner—United States Government.
 Architect—Geo. W. Kelham, 315 Montgomery St.

Contractor—Lingren & Swinerton, Inc., 225 Bush St.

Excavation—Sibley Grading & Teaming Co., 165 Landers St.

Pile Driving—Healy-Tibbitts Contraction Co., 64 Pine St.

Reinf. Steel & Steel Sheet Piling—Pacific Coast Steel Co., 20th and Illinois Sts.

Granite—McGilvray-Raymond Corporation, 3 Potrero Ave.

Terra Cotta—Gladding, McBean & Co., 660 Market St.

Structural Steel—McClintic-Marshall Corp., 2050 Bryant St.

Mis. & Ornamental Metal—Fair Manufacturing Co., 617 Bryant St.

Rolling Steel Doors—D. A. Pancoast, 26 O'Farrell St.

Sheet Metal Work—Capitol Art Metal Co., 1129 Howard St.

Metal Partitions—Fire Protection Products Co., 1101 16th St.

Plastering—Chas. Terranova, 1212 Willard St.

Marble Work—Eisele & Dondero Marble Co., 2895 Third St.

Tile Work—Art Tile & Mantel Co., 221 Oak St.

Cork Tile—Malott & Peterson, 20th & Harrison Sts.

Linoleum—D. A. Pancoast, 26 O'Farrell St.

Mill Work (Installed)—Pacific Manufacturing Co., Monadnock Bldg.

Builders' Hardware—Lockwood Mfg. Co., Fitchburg, Mass.

Painting—Mark A. Miller, 3664 Madonna, Oakland.

Glass—W. P. Fuller Co., 301 Mission Street.

Plumbing, Heating, Ventilating & Electric (Combined)—Alta Electric & Mechanical Co., Inc., 467 O'Farrell St.

WASHINGTON, D. C.—As previously reported, Pittsburgh Steel Co., Union Trust Bldg., Pittsburgh, Pa., at \$14,547, awarded contract by Bureau of Yards and Docks, Navy Department, for noncombustible and field wire fencing at the Naval Air Station, Sunnyvale. Specification No. 7032. Following is a complete list of the bids received:

Pittsburgh Steel Co., Union Trust Bldg., Pittsburgh, Pa.	\$14,547
Standard Fence Co., Oakland, Calif.	16,231
Anchor Post Fence Co., S. F.	16,600
Page Steel & Wire Co., Monessen, Pa.	17,962
Wickwire-Spencer Steel Co., New York City	17,999
Stewart Iron Works, Cincinnati, O.	18,645
Crown Fence & Supply Co., Ltd., 890 S. Broadway, Pasadena.	19,108
Forderer Cornice Works, S. F.	27,526
W. P. Thurston Co., Inc., Richmond, Va.	27,500

BREMERTON, Wash.—A. H. Cox & Co., at 440 f.o.b. yard, at \$354 f.o.b. Milwaukee, submitted low bid to Supply Officer, Puget Sound Navy Yard, to furnish one concrete mixer, new latest model. Other bids follow: Feenoughty Machinery Co., \$490; Pacific Hoist & Derrick Co., \$495 less 2% discount 10 days; Star Machinery Co., \$525, delivery at yard.

VAN NUYS, Los Angeles Co., Cal.—The Treasury Department has purchased property located on the south side of Sylvan St., between Van Nuys Blvd. and Vesper Ave., Van Nuys, as the site for the new United States post office. There is approximately \$87,000 available for erecting and equipping the building. An architect has not yet been retained.

WASHINGTON, D. C.—As previously reported, McCarthy Brothers Construction Co., St. Louis, Mo., at \$24,684, awarded contract by Bureau of Yards and Docks, Navy Department, for construction of shop extension, 100x126 feet at Coco Solo, Canal Zone. Work involves wood piles, concrete footings, steel framing, steel windows, corrugated metal siding, insulated steel roof decks, built-up roofing, etc. Specification No. 7111.

Following is complete list of bids received:

McCarthy Bros. Construction Co., St. Louis, Mo.	\$24,684
J. A. Jones Constr. Co., Charlotte, N. C.	29,600
W. P. Thurston Co., Richmond, Virginia.	29,873
Wisconsin Bridge & Iron Co., Milwaukee, Wis.	29,880
Winston Bros. Co., P. O. Box 22, Ft. Clayton, C. Z.	30,000
Eastern Engineering Co., Atlantic City, N. J.	31,780
Hortenstein-Zane Co., New York City.	31,989
Roanoke Iron & Bridge Works, Roanoke, Va.	33,537
H. Horace Williams, Inc., New Orleans.	34,380
Tucker-McClure, Los Angeles.	35,000
Wm. McDonald Constr. Co., St. Louis, Mo.	38,354
(286) 1st report Dec. 21, 1932	
8th report Feb. 11, 1933	7

WASHINGTON, D. C.—Hawaiian Dredging Co., Honolulu, T. H., at \$6500 submitted low bid to Bureau of Yards and Docks, Navy Department, Pearl Harbor, for pulling and driving piles at the Submarine Base, Pearl Harbor. Specification No. 7200.

OAHU, T. H.—Until February 23, bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., for two automatic telephone systems complete, with central office equipment, wiring, stor-

age batteries, charging rectifier and connections to existing lines at the Naval Ammunition Depot, Oahu, T. H. Specification No. 7020.

Following have secured plans: Electric Manufacturing Co. Gould Storage Battery Co., Depew, New York.

E. T. Thurston, Richmond, Va.
Matson Seabrooke Co., 4115 Broadway, Oakland.
Newbery Electric Co., 1038 Venice Blvd., Los Angeles.
R. G. Whinery, Los Angeles.

WASHINGTON, D. C.—As previously reported Winston Bros. Company, Fort Clayton, at \$80,000 (item 1) and \$89,000 (item 2) submitted low bid to the Bureau of Yards and Docks, Navy Department, for earth filled steel sheet pile pier and service piping and the removal of existing timber pier at the Naval Submarine Base, Coco Solo, Canal Zone. Specification No. 7141.

Following is a complete list of the bids received:

Winston Bros. Co., Fort Clayton, Canal Zone	(1) \$80,000	(2) 89,000
Eastern Engineering Co., Atlantic City	(1) \$83,370	(2) 91,370
W. P. Thurston Co., Richmond, Va.	(1) \$84,000	(2) 90,000
J. H. Terry & Co., Phila.	(1) \$84,800	(2) 93,500
G. O. Reed, Inc., Miami Beach, Fla.	(1) \$ 91,891	(2) 100,910
Compania Hatto de Bayona, Panama	(1) \$ 97,940	(2) 108,930
H. H. Williams Co., Inc., New Orleans, La.	(1) \$101,520	(2) 112,435
M. B. McGowan, Inc., San Francisco	(1) \$111,039	(2) 123,502
W. E. Callahan Con. Co., Dallas, Texas	(1) \$160,537	(2) 174,330

Sub-Contracts Awarded.

QUARTERS Cont. Price, \$103,000
ROCKWELL FIELD, Coronado, Calif. Ten quarters.

Owner—United States Government.
Plans by Supervising Architect, Treasury Dept., Washington, D. C.
Contractor—Bannister-Field Co., Ltd., 4101 Goodwin St., Los Angeles.

Hardwood Floors—E. F. McCall Floor Co.

Cast Stone—Will & Houston.
Iron Work—Jackson Iron Works, Inc.

WALLA WALLA, Wash. — Until February 28, bids will be received by Veterans' Administration, Arlington Bldg., Washington D. C., for remodeling a kitchen of the tuberculosis ward at the Veterans' Hospital, Walla Walla, Wash.

LOS ANGELES, Calif. — Cleveland Wrecking Co., E. D. Stern, superintendent in charge, has started work of clearing the site of the proposed new Federal building to be erected at Main and Temple Sts. Fourteen buildings are to be razed, six of them being located on the west side of Main St., north of Commercial. Plans for the new structure to be built on the site are in the preliminary stage. John C. Austin and Frederic M. Ashley, Chamber of Commerce Building, and John Parkinson and Donald B. Parkinson, 808 Title Insurance Building, are the architects.

MARCH FIELD, RIVERSIDE, Cal. — Jones Brothers, 9430 Santa Monica Blvd., Beverly Hills, submitted low bid to Constructing Quartermaster, March Field, at \$21,170, for construction of enlisted men's service club at March Field. Recommendation was made that contract be awarded low

bidder. Will be a one-story and part basement structure, 98x55 ft. in area; containing a lounge, library, bedrooms, dining room, kitchen, bathrooms and toilets.

Other bids were: H. G. Klusman, \$22,697; Bannister-Field Co., \$22,792; George Mitty, \$22,951; Anton Johnson Co., \$22,960; Gene B. Foster, \$23,000; Cresmer Mfg. Co., \$23,000; Campbell Constr. Co., \$23,253; Bennett & Taylor, \$23,331; Southwest Constr. Co., \$23,400; Los Angeles Contr. Co., \$23,500; Herbert M. Baruch Corp., \$24,899; Evans Constr. Co., \$25,327; Harry F. Miller, \$25,370; Willard Lutz, \$25,500; David J. Reed, \$25,600; John T. Bibb, \$25,670; Atlas Constr. Co., \$26,575; C. Haverlandt, \$26,585; Sandquist Constr. Co., \$26,987; J. F. Kobler, \$27,195; Salih Brothers, \$27,336.

PEARL HARBOR, T. H.—Bids are being received by Bureau of Yards and Docks, Navy Department, Washington, D. C., for three-story extension to storehouse at the Naval fleet air base, Pearl Harbor, T. H. Work includes concrete, hollow tile and brick work, steel and iron work, steel and iron work, steel windows, roof-ink and sheet metal work, stucco and plastering work, steel ralling and metal doors, glazing and plumbing and electrical systems. Specification No. 7085. Plans and specifications available from above office upon deposit of \$10.

PORT ORFORD, Oregon.—Ralph C. Day, 1050 Schuyler St., Portland, can quote prices on the water tower and tank in connection with the work to be done at Port Orford, for the U. S. Government. Bids open Feb. 21.

SUNNYVALE, Santa Clara Co., Calif.—Until Feb. 21, 11 A. M., bids will be received by Public Works Officer, 12th Naval District, 100 Harrison St., San Francisco, for wagon scales of the suspended-platform, direct-reading dial type, 40,000 pounds capacity, the work to include excavation, reinforced concrete pit and platform, weighing mechanism, indicating mechanism, housing for indicating mechanism and drainage provisions at the Naval Air Station, Sunnyvale. Specification No. 7191. Plans and specifications available from above office upon deposit of \$5.00.

SAN FRANCISCO, Calif. — Until February 24, 11 A. M. bids will be received by Constructing Quartermaster, Fort Mason, for extension of roads and concrete sidewalks, etc., for four sets of officers' quarters at Lovers Lane in the Presidio. Work involves extension of macadam roads, bituminous treated, concrete sidewalks, approximately 440 ft. of 6-in. water mains, 2 fire hydrant, gate valves, extension of transmission lines, poles, house connections, and sewer.

OAHU, T. H.—Until February 23, (date postponed from February 15), bids will be received by Commandant, 14th Naval District, Pearl Harbor, T. H., for two automatic telephone systems complete, with central office equipment, wiring, storage batteries, charging rectifier and connections to existing lines at the Naval Ammunition Depot, Oahu, T. H. Specification No. 7020. Following have secured plans: Electric Manufacturing Co.; E. T. Thurston, Richmond, Va.; Mattson Seabrooke Co., 4115 Broadway, Oakland; Newbery Electric Co., 1038 Venice Blvd., Los Angeles; R. G. Whinery.

MARE ISLAND, Cal.—The following contractors and others have secured plans and specifications from Public Works Officer, U. S. Navy Yard, Mare Island, for furnishing and installing low

oil tanks on a concrete platform, all supported on a pile foundation, including earth fill berm, asphalt macadam lined oil basin, pump house with pit, pumps, purifier, piping and electric wiring all complete; Spec. No. 7079; bids on Feb. 21, 11 A. M.:

Bennett & Taylor, 1978 S Los Angeles St., Los Angeles.

MacDonald & Kahn, Financial Center Bldg., San Francisco.

Crane Co., 501 Brannan St., San Francisco.

Herman Lawson, 465 Tehama St., San Francisco.

H. Sneed, 2338 Telegraph Ave., Berkeley.

R. B. McNair, 3745 Rhoda, Oakland. Fairbanks Morse, Spear and Kansas Sts., San Francisco.

Truscon Steel, 74 New Montgomery, San Francisco.

Butte Const. Co., 2014 Folsom St., San Francisco.

Chicago Bridge & Iron Co., Rialto Bldg., San Francisco.

Baldwin & Butler, 620 Bragmont, Berkeley.

Quaker City Iron, Philadelphia.

M. B. McGowan, 74 New Montgomery St., San Francisco.

California Steel Products, Bay and Taylor Sts., San Francisco.

Fred Earley, 369 Pine Street, San Francisco.

Pittsburgh-Des Moines Steel Co. Rialto Bldg., San Francisco.

Western Pipe & Steel Co., 444 Market St., San Francisco.

A. H. Vogt, 250 11th St., San Francisco.

McClintic-Marshall Co., 2050 Bryant, San Francisco.

MARE ISLAND, Cal.—Until February 21, 11 A. M., bids will be received by Public Works Officer, Navy Yard, Mare Island, for moving two frame quarters, Nos. 29 and 133, one servants' quarters and two garages. Work involves new foundations, all service connections, etc. Specification No. 7229. Specifications available from above office upon deposit of \$5. Following have secured plans: Hanson Bros., 5840 Mission St., San Francisco.

Hans Fredrickson, Vallejo.

Wrecking Contract Awarded. HOSPITAL BUILDINGS

Contract Price, \$898,810 SAN FRANCISCO. Fort Miley.

Six-story reinforced concrete hospital (300 beds) 3-story concrete administration building, nurses' home, garage, storehouse, laundry, etc., (prepared roof).

Owner—United States Government. Plans by U. S. Veterans' Administration Veterans' Hospital, Palo Alto.

Contractor—Herbert M. Baruch Corp., 625 South Olive St., Los Angeles.

Wrecking—California Wrecking Co., 666 Mission Street.

Construction is starting today. Mr. Paul Neal, representative of the Baruch Corp., is at the Gaylord Hotel, 620 Jones St., San Francisco, and is receiving sub-bids on all portions of the work. As previously reported the plumbing and heating contract awarded to Bryce Plumbing and Heating Co. Florence, South Carolina, at \$252,170.

BERKELEY, Cal.—Farr & Co., 1613 Josephine St., Berkeley, at \$367 and with an alternate bid of \$335 submitted low bid to Construction Engineer, U. S. Post Office, Berkeley, for seeding, planting, etc., the grounds of the Post Office at Berkeley.

WASHINGTON, D. C.—Winston Bros. Company, Fort Clayton, at \$80,000 (item 1) and \$90,000 (item 2) submitted low bid to the Bureau of Yards and Docks, Navy Department, for earth filled steel sheet pile pier and service piping and the removal of ex-

isting timber pier at the Naval Submarine Base, Coco Solo, Canal Zone. Specification No. 7141. Eastern Engineering Company, Atlantic City, at \$83,370 (item 1) and \$91,370 (item 2) submitted second low bid.

Complete list of bids will be published shortly.

PEARL HARBOR, T. H.—Until March 8, 11 A. M., bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., for two electric freight elevators at the Navy Yard, Pearl Harbor, T. H. Specification No. 7122. Plans and specifications available from above office and from Commandant, 12th Naval District, 100 Harrison St., San Francisco, upon deposit of \$10.

MARCH FIELD, Riverside, Calif.—Until Monday, Feb. 20, bids will be received by the Contracting Officer, Quartermaster Corps, March Field, for furnishing and erecting a swaged, sectional copper-bearing tubular steel flagpole; Circular 40.

ROCKWELL FIELD, San Diego, Calif.—Until Thursday, Feb. 23, bids will be received by the Contracting Quartermaster, Rockwell Field, Colorado, for 40 gas ranges; Circular 5.

WASHINGTON, D. C.—Following have procured plans for the purpose of submitting bids to the Treasury Department, Washington, D. C., for complete elevator plant in connection with the Federal Building to be erected in the Civic Center, San Francisco, for the U. S. Government for which bids will be opened Feb. 28:

Wm. A. Miller Elevator & Machine Co., 920 N. Main St., St. Louis.

Atlantic Elevator Co., Erie Ave. and D St., Philadelphia.

Graves Elevator Supplies Co., East Ave., Box 56, Rochester, N. Y.

Elevator Supply Co., 1515 Willow Ave., Hoboken, N. J.

American Elevator & Machine Co., 500 E. Main St., Louisville, Ky.

J. J. Matson General Electric Co., Schenectady, N. Y.

Westinghouse Electric Elevator Co., 30th and Walnut Sts., Philadelphia.

Otis Elevator Co., 810 18th St., N. W., Washington, D. C.

A. B. See Elevator Co., 14th and H Sts., N. W., Washington, D. C.

Houghton Elevator Co., 1103 Vermont Ave., N. W., Washington, D. C.

Elevator Locks Co., 119 Wash St., Peoria Ill

Reliance Elevator Co., 212 W. Austin St., Chicago, Ill.

Gurney Elevator Co., 109 W. 64th St., N. Y. C.

Montgomery Elevator Co., Moline, Ill.

S. Heller Elevator Co., Milwaukee, Wisconsin.

Arthur Brown Jr., 251 Kearny St., San Francisco.

ALBUQUERQUE, N. M.—Until Feb. 28, 2 P. M., bids will be received by Veterans' Administration, Room 865, Arlington Bldg., Washington, D. C., for constructing and finishing patio garden walks, pool, etc., at the Veterans' Administration Bldg., Albuquerque. Certified check in amount of 25% of amount bid required with bid.

NEPHI, Utah.—Until 2 P. M. Feb. 23, bids will be received by the Treasury Department, Office of the Supervising Architect, Washington, D. C., for furnishing and installing insect screens in the U. S. post office at Nephi, Utah. Plans and specifications may be obtained from custodian of the building or from supervising architect in Washington.

STOCKTON, San Joaquin Co., Cal.—Hubeny Bros. submitted low bid to Treasury Department, Division of Sup-

ply at \$1045 for steel furniture for Stockton. Keyless Lock Co. bid \$1150.

MARCH FIELD, Riverside, Calif.—H. G. Klusman, Cucamonga, and care of E. Cerlat, 1220 E Lake St., Los Angeles, awarded contract by War Department at \$42,329.50 for construction of laundry building, and at \$11,250 for the construction of a bakery at March Field. The laundry will be 128x36 feet, with laundry equipment a one-story and basement structure, on the main floor and boiler room, electrical room and store room in the basement. It will have concrete foundation, steel columns and roof trusses, hollow tile walls, stucco exterior, built-up roofing, concrete floors, steel windows, dampproofing, brick smoke stack, oil-fired high pressure steam system. The bakery will be a one-story structure, 66x30 ft., with concrete foundations, hollow tile walls and partitions, stucco exterior, built-up roofing, steel windows, concrete floor, waterproofing, insect screens, slate work, insulation, gas-fired low pressure gravity steam system and gas-fired air heating units.

Sub-Contracts Awarded.

ADDITION Cost, \$50,000 SAN FRANCISCO, Presidio.

Three-story reinforced concrete addition to headquarters building (85 feet), flat roof, passenger elevator, plumbing, hot water heating system to contain the present plant.

Owner—United States Government. Plans by Constructing Quartermaster

Fort Mason, San Francisco.

Contractor—Meyer Bros., 727 Portola Drive, San Francisco.

Grading—Plombo Bros., 1571 Turk St.

Roofing—J. W. Bender Roofing Co., 18th and Bryant Sts.

Brick—William Rainey & Son, 323 Clementina St.

Mill and Lumber—Hayman Bldg. Supply Co., 727 Portola Drive.

Glass—W. P. Fuller & Co., 301 Mission St.

As previously reported, plumbing & heating awarded to Skelly & Kohler, 1344 Ninth Ave., at \$2280; electrical to Lynn & Heffernan, 114 Ashton St., at \$782; heating to Geo. Rehn, 1919 Mission St. at \$2105.

Sub-Contracts Awarded.

SUNNYVALE, Santa Clara Co., Cal.

—Dinwiddie Constr. Co., Crocker Bldg. San Francisco, awarded the following sub-contracts in connection with the construction of the concrete pavement,

railroad tracks, metal clad partitions, and drainage, plumbing and heating,

air-conditioning, helium and gasoline systems in the hangar; and one-story reinforced concrete gasoline pumping

and ethylizing building and equipment at the Naval Air Station, Sunnyvale, Specification No. 6956;

Railroad Tracks—S. H. Goodenough, 1135 Mission St., San Francisco.

Electric—Chas. Langlais, 472 Tehama St., San Francisco.

Structural Steel—Pacific Coast Engineering Co., Foot of 14th St., Oakland.

Hollow Metal Partitions—Forderer Cornice Works, 269 Potrero Ave., San Francisco.

Cork Insulation—Van Fleet Freear Co., 557 Howard St., San Francisco

As previously reported, gas piping, ethylizing equipment, helium blower, helium piping, awarded to Baldwin & Butler, 620 Cragmont Ave., Berkeley;

excavation to L. C. Smith, San Mateo;

plumbing to J. H. Pinkerton, 927 Howard St., S. F.; heating to F. W. Snook, 596 Clay St., S. F.; steel windows and doors to Rolph Mills & Co., 525 Market St., S. F.; concrete to Urban Bros., Palo Alto.

WASHINGTON, D. C.—Nostrum & Davis, 4001 Alcott St., Denver, Colo., at \$32,277 awarded contract by Treas-

ury Department for the construction of an extension and remodeling of the post office at Greeley, Colorado, for the U. S. Government.

Commissioned To Prepare Plans.
POST OFFICE Cost, \$189,000
INGLEWOOD, Los Angeles Co., Cal.
SE Kelso St and Hillcrest Blvd.
Class A post office.
Owner—United States Government.
Architect—Myron Hunt and H. C. Chambers, 403 S Spring St., Los Angeles.

SUNNYVALE, Santa Clara Co., Cal.
—Following have procured plans for the purpose of submitting bids to the Public Works Officer, 12th Naval District, 100 Harrison St., San Francisco, February 28 for small store facilities for barracks, and enclosure for storehouse at the Naval Air Station, Sunnyvale, Specification No. 7225.
Theo. Johanns, 2020 15th Street, San Francisco.

Michel & Pfeffer Iron Works, 10th and Harrison Sts., San Francisco.

SUNNYVALE, Santa Clara Co., Cal.
—Following have procured plans for the purpose of submitting bids to the Public Works Officer, 12th Naval District, 100 Harrison St., San Francisco, on February 21 for wagon scales of the suspended-platform direct-reading dial type, 40,000 pounds capacity, the work to include excavation, reinforced concrete pit and platform, weighing mechanism, indicating mechanism, housing for indicating mechanism and drainage provisions at the Naval Air Station, Sunnyvale. Specification No. 7191:

Toledo Scale Co., 968 Mission St., San Francisco.

Fairbanks Morse Co., Spear and Harrison Sts., San Francisco.

Theo. Johanns, 2020 15th Street, San Francisco.

Howe Scale Co., 118 Fourth Street, San Francisco.

SUNNYVALE, Santa Clara Co., Cal.
—Following are additional contractors who have procured plans for the purpose of submitting bids to the Bureau of Yards and Docks, Navy Department, Washington, D. C., on Feb. 23 for constructing three concrete garages at the Naval Air Station, Sunnyvale. Work includes swinging and sliding doors, wire mesh partitions, steel windows, built-up roofing and sheet metal work, water and electrical services, etc.; Spec. No. 7178:

A. W. Parker, 6415 Brann St., Oakland.

T. B. Strand, 1818 Pacific Avenue, San Francisco.

G. W. Williams Co., 315 Primrose Ave., Burlingame.

Roy Lind, 54 Stanton St., San Francisco.

John E. Branagh, 116 Monticello, Oakland.

E. T. Lesure, 87 Ross Circle, Berkeley.

Vance M. Brown, 1226 Middlefield Road, Palo Alto.

A. H. Vort Co., 250 11th St., San Francisco.

ALAMEDA, Alameda Co., Calif.—U. S. Bureau of Public Roads has recommended to Washington that the General Fireproofing Co., 534 4th St., San Francisco at \$3,323.13 be awarded contract for furnishing and installing metal shelving, counters and bins in the Bureau of Public Roads and Administration Buildings at Government Island, Alameda. Work involves 62,500 lbs. metal shelving, counters and bins, and 2,500 lbs. metal counter tops.

SAN RAFAEL, Marin Co., Cal.—Until February 27, 10 A. M., bids will be received by Constructing Quartermaster, Hamilton Field, San Rafael.

for excavating the site for the Headquarters Building at Hamilton Field. (Marin Meadows) Bombing Base.

Plans and specifications available from above office upon deposit of \$5.00.

SAN FRANCISCO.—Following bids received by Constructing Quartermaster, Fort Mason, for 38 gas ranges for domestic use to burn natural gas. (1) close top ranges; (2) open top.

James Graham Mfg. Co., 695 Bryant Street	(1) \$40.75
.....	(2) 37.45
Steiger & Kerr	(1) 41.20
.....	(2) 36.55
Hammer-Bray Co.	(1) 41.95
.....	(2) 37.45
Montgomery Ward Co.	(1) 44.00
.....	(2) 39.00
Wilcox Utilities Corp.	(1) 44.26
.....	(2) 40.86
Eureka Stove Co.	(1) 44.97
.....	(2) 41.97
Birmingham Stove & Range Co., Birmingham, Ala.	(1) 47.50
.....	(2) 45.00
American Stove Co.	(1) 48.43
.....	(2) 44.29
H. C. Weiskettel, Inc.	(2) 48.15
H. R. Basford	(1) 48.30
.....	(2) 44.85
George D. Roder	(1) 66.17
.....	(2) 58.00
Tatten Stove Co.	(1) 71.20
Bids held under advisement.	

OAHU, T. H.—Following are additional prospective bidders who have procured plans for the purpose of submitting bids to the Commandant, 14th Naval District, Pearl Harbor, T. H., on March 8 for approximately ten miles of combination galvanized wire fabric and barbed wire fence with metal posts, with certain repairs to the existing stone wall:

Kamlan Fence Co., 351 Bryant St., San Francisco.

E. P. Thurston, Richmond, Va.

Theo. H. Davies, Matson Bldg., San Francisco.

American Factors, Ltd., Matson Bldg., San Francisco.

Concrete Engineering Co., 1280 Indiana St., San Francisco.

Standard Fence Co., 1940 San Bruno Ave., San Francisco.

Anchor Post Fence Co., 460 5th St., San Francisco.

Pacific Coast Steel Co., 20th and Illinois Sts., San Francisco.

Trask and Squiers, 39 Natoma St., San Francisco.

PORTLAND, Ore.—Steel Tank & Pipe Co., 404 Columbia Blvd., Portland, at \$11835 awarded contract by U. S. Engineer Office, Portland, to furnish drag arm for government dredge.

SAN FRANCISCO, Calif.—Howe Bros., 1198 So. San Pedro Street, Los Angeles, would appreciate hearing from firms who do well drilling. This information is desired in connection with the Federal Office Building to be erected in the Civic Center, San Francisco, for which bids will be opened February 28th.

LOS ANGELES, Cal.—Until March 6, 2:30 P. M., bids will be received by Veterans Administration, office of the Supervising Superintendent of Construction, Veterans' Hospital, Palo Alto, for one garbage and refuse incinerator at the Veterans Administration Home, West Los Angeles. Work includes, excavation, grading, reinforced and plain concrete, brick work, common and fire miscellaneous steel and iron work, including angle iron railing, cast iron grate, draft and charging doors, etc.

Preparing Working Drawings.
HEADQUARTERS BLDG. \$40,000
SAN RAFAEL, Marin Co., Cal. Hamilton Field.

Concrete and hollow tile headquarters building (177 feet long, two-story center); tile roof, Spanish Mission style.

Owner—United States Government.
Plans by Contracting Quartermaster, Hamilton Field.

Bids will be asked in about thirty days.

WASHINGTON, D. C.—Until March 21, bids will be received by Treasury Department, Washington, D. C., for the construction of a six-story steel frame post office building (195x150 ft.) to be erected in Phoenix, Arizona. Will have granite and tufa stone exterior, tile roof, steel sash, bronze doors, marble, tile and terrazzo work, vaults, air conditioning system, steam heating system elevators, etc. Plans prepared by Architects Lescher & Mahoney, Title and Trust Bldg., Phoenix, Arizona. \$675,560 appropriated.

Excavation Contract Awarded.
POST OFFICE Cont. Price, \$72,587

OREGON CITY, Oregon.

One-story and basement reinforced concrete post office (52x112 feet), with brick wing (18x25 feet) brick and terra cotta exterior.

Owner—United States Government.
Architect—Knighton & Howell, U. S. National Bank Bldg., Portland.

Contractor—Dougan-Hammond Construction Co., Studio Bldg., Portland.

Excavation — Fisher Bros., Oregon City, Ore.

SAN DIEGO, Cal.—California Lawn Sprinkler Co., 840 Princeton Street, Santa Monica, submitted low bid to 11th Naval District at \$2831 for constructing a lawn sprinkler system for the new barracks and mess hall area at the Naval Operating Base (Training Station) San Diego; Spec. No. 7199. The bids were held under advisement. Work consists of wrapped steel piping and includes fittings, valves, sprinkler heads, connections to existing water main, and other miscellaneous materials necessary to complete the sprinkler system and includes excavation required for future top soiling of sprinkler areas.

BREMERTON, Washington—E. J. Bartells Co., 1212 6th Ave., South, at \$742.90 awarded contract by Supply Officer, Puget Sound Navy Yard, for tennis court enclosure at Puget Sound Navy Yard. Work involves corner posts, line posts, end posts, one 4 foot wide single gate complete with hardware and miscellaneous clips, etc. Following bids received:
E. J. Bartells Co., Seattle.....\$742.90
Standard Fence Co., Seattle..... 751.20
Wickwire Spencer Sales Co., Seattle 779.10

WASHINGTON, D. C.—J. A. Jones Construction Co., Charlotte, North Carolina, at \$29,600 submitted low bid to Bureau of Yards and Docks, Navy Department, for shop extension (100x 126 feet) at Coco Solo, Canal Zone, for the U. S. Government. Work involves wood piles, concrete footings, steel framing, steel windows, corrugated metal siding, insulated steel roof decks, built-up roofing, etc. Specification No. 7111. Following are three low bids:

J. A. Jones Constr. Co., Charlotte North Carolina\$29,600
W. P. Thurston Co. 29,870
Wisconsin Bridge & Iron Co., Milwaukee 29,880

Complete list of bids will be published shortly.

SAN RAFAEL, Marin Co., Cal.—Until Feb. 16, 11 A. M., under Circular Proposal No. 6754-33-13, bids will be received by Constructing Quartermaster, Hamilton Field (Marin Meadows) Bombing Base, San Rafael, to move 1500 cu. yds. of unclassified material

(consisting of soft rock and soil) from borrow pit to warehouse and barracks area at Hamilton Field, 2400 lin. ft. haul. Specifications obtainable from above.

GARAGES AND SERVICE STATIONS

SERVICE STATION Cost, \$6000
GILROY, Santa Clara Co., Cal.
 Service station (masonry construction)
 Owner—Standard Oil Co., St. Clairo Bldg., San Jose.
 Plans by Eng. Dept. of Owner.
 Contractor—J. D. Carlson, 1331 Sierra St., San Jose.
 Electric: E. D. Hollenback, Gilroy.
 (580) 1st report Feb. 2, 1933; 2nd Feb. 4, 1933.

Contract Awarded.
SERVICE STATION Cost, \$—
BOULDER CITY, Nevada. Nevada and Wyoming Blvds.
 Automobile service station.
 Owner—Al Simon.
 Architect—Not Given.
 Contractor—P. A. Simon, Las Vegas, Nevada.

Sub-Contracts Awarded.
SERVICE STATION Cost, \$6000
OAKLAND, Alameda Co., Cal. 19th and Harrison Streets.
 Owner—General Petroleum Company, 310 Sansome St., San Francisco.
 Plans by Eng. Dept. of Owner.
 Contractor—F. C. Stolte, 3449 Laguna St., Oakland.
Excavation and Paving—Ariss-Knapp Co., 961 41st St., Oakland.
Galvanized Buildings—Independent Iron Works, 1820 Chase St., Oakland.
Mill Work—Oakland Planing Mill, 2nd and Washington Sts., Oakland.
 Electric—Diamond Electric Co., 2100 Hopkins St., Oakland.

Plans Being Figured.
SERVICE STATION Cost, \$8000
PALO ALTO, Santa Clara Co., Calif. El Camino Real.
 One-story brick service station (tile roof, drinking fountain, etc.)
 Owner—Associated Oil Co., 79 New Montgomery St., San Francisco.
 Architect—Masten & Hurd, 233 Post St., San Francisco.

Sub-Contracts Awarded.
SERVICE STATION Cost, \$6000
OAKLAND, Alameda Co., Cal. No. 350 Grand Ave.
 One-story steel service station and one story steel super-service station.
 Owner—Associated Oil Co., 2395 Webster St., Alameda.
 Architect—Masten & Hurd, 233 Post St., San Francisco.
 Contractor—C. N. Peterson, 1211 E. 34th St., Oakland.
Steel Building—California Steel Products Co., 452 Bay St., San Francisco.
Concrete—Nat Lena, 1174 19th St., Oakland.
Plumbing—Max Finzel, 2025 Hopkins St., Oakland.
Electrical—Kenyon Electric Co., 526 13th St., Oakland.

HALLS AND SOCIETY BUILDINGS

Plans Being Revised.
ALTERATIONS Cost, \$—
OAKLAND, Alameda Co., Cal. 1441 Franklin St.
 Alterations to club.
 Owner, University Club, Jackson and Lake Sts., Oakland.
 Plans by Jack Minchin, 954 12th St., Oakland.
 New bids will be taken within one week.

HOSPITALS

SAN FRANCISCO, Cal.—Alfred H. Vogt, 250 11th Street, at \$1940 submitted low bid to the Regents of the University of California for porch and balcony alterations to No. 2 Ward Floor at the University of California Hospital, Third and Parnassus Aves., San Francisco. Following bids received:
 Alfred H. Vogt.....\$1,940
 Lindgren & Swinerton, Inc.....2,300
 Clinton Stephenson Construction Co.....2,426
 Alfred P. Fischer.....2,524
 Bids held under advisement.

UKIAH, Mendocino County, Calif.—California Ornamental Iron and Fence Company, 835 8th Avenue, Oakland, at \$130 submitted low bid to State Purchasing Department for ornamental iron work at the State Hospital at Ukiah.

Plans Being Completed.
HOSPITAL Cost, \$375,000
CAMARILLO, Ventura Co., Cal. Lewis Ranch.
 Two-story reinforced concrete ward bldg. (accommodate 900 patients) kitchen and cafeteria (first unit).
 Owner—State of California.
 Architect—Geo. B. McDougall, State Architect, Public Works Building, Sacramento.
 Consulting Architect—Harold Burket, 455 E. Main St., Ventura.
 Bids will be asked about March 1.

Bids Being Taken—To Close March 8, 2:30 P. M.
PSYCHOPATHIC BLDG. Cost, \$—
SAN FRANCISCO. Potrero Ave. and Twenty-second St.
 Five-story Class A steel frame and reinforced concrete psychopathic institute building (tar and gravel roof, steam heating system to connect to main plant, etc.)
 Owner—City and County of San Francisco.
 Architect—Alfred I. Coffey and Martin J. Rist, Associated, Theban Bldg., San Francisco.

ICE AND COLD STORAGE PLANTS

Planned.
PLANT Cost, \$10,000
NOYO, Mendocino Co., Cal.
 Refrigeration plant (50x75) ice and refrigeration machinery, etc.
 Owner—Pacific Fish Company, Fort Bragg. (Harry Martin, Manager).
 Architect—Not given.

BERKELEY, Alameda Co., Calif.—Following bids received by the Regents of the University of California for insulation of refrigeration equipment for the Engineering Materials Testing Laboratory on the campus of the University of California, Berkeley.

(1) basic bid (2) alternate (3) alternate (4) alternate (5) alternate (6) alternate.

York Ice Machine Co.....	(1)	\$1,962
.....	(2)	2,363
.....	(3)	2,505
.....	(4)	2,312
.....	(5)	1,890
.....	(6)	1,649
Pelton Water Wheel Co.....	(1)	\$
.....	(2)	2,443
.....	(3)	2,673
.....	(deduct) (4)	92.50
.....	(deduct) (5)	54.85
Oakland Ice Machine Co.....	(1)	\$1,949
.....	(add) (2)	307
.....	(add) (3)	29
.....	(add) (4)	190
.....	(deduct) (5)	98
.....	(deduct) (6)	239
Cyclops Iron Works.....	(3)	\$1,878
.....	(4)	2,078
.....	(5)	1,768

Bids held under advisement.
 Being Done By Day's Work.
PRECOOLING HOUSE Cost, \$6000
SANTA ROSA, Sonoma Co., Cal.
 Two-story wood frame pre-cooling house (20x120 ft.) to connect to main warehouse.
 Owner—Grace Bros.
 Engineer—L. H. Nishkian, 525 Market St., San Francisco.

Contract Awarded
ALTERATIONS Cost, \$6000
PETALUMA, Sonoma Co., Calif. East Washington and Hopper Sts.
 Alterations and additions to ice and cold storage plant.
 Owner—National Ice & Cold Storage Co., Petaluma.
 Plans by Eng. Dept. of Owner.
 Contractor—Gay Engineering Co., 2650 Santa Fe Ave., Los Angeles.

POWER PLANTS

LOS ANGELES, Cal.—A loan of \$22-800,000 to the Los Angeles Bureau of Power and Light for the construction of a high tension power transmission line between Los Angeles and Hoover Dam power project at Boulder Canyon was approved by the Reconstruction Finance Corp. Feb. 2. The first installment of the loan will be available as soon as the formal contract has been approved by the California Supreme Court.

According to E. F. Scattergood, Chief Engineer of the Bureau of Power and Light, the department will expend a total of \$33,000,000 and employ 2000 men over a period of two years. The power line and switching station will cost \$15,711,000; a step-down station to be located in Los Angeles for reducing the voltage, \$2,112,000; a local transmission line to the west side of the city, \$1,704,000; and four receiving stations costing \$3,273,000. In addition to the funds to be obtained from the Reconstruction Finance Corp. the Bureau will expend between \$10,000,000 and \$11,000,000 of its own funds to complete the project.

Preparing Plans.
SUBSTATION Cost, \$25,000
LAMANDA PARK, Los Angeles Co., Cal.
 Reinforced concrete substation.
 Owner—City of Pasadena.
 Architect—Robert H. Ainsworth, Central Bldg., Pasadena.
 The electrical equipment will cost \$350,000.

LOS ANGELES, Cal.—Graybar Elec. Co., Inc., at \$24,192.50 awarded contract by Metropolitan Water District to furnish 2900 butt-treated cedar poles, f.o.b. cars Los Angeles Harbor or Long Beach, for transmission lines to be built near Colton, on the route of the Colorado River Aqueduct, under item (6) Class 4, as follows:

10 25-ft. Class 4 poles;

25 35-ft.	do;
1150 40-ft.	do;
100 45-ft.	do;
1300 50-ft.	do;
250 55-ft.	do;
50 60-ft.	do.

LOS ANGELES, Cal.—Osborn Co., 450 California Terrace, Pasadena, and Fritz Ziebarth, Security Bldg., Long Beach, at \$98,780 awarded contract by Metropolitan Water District to construct all lines and substations, furnish all materials except poles, conductors, insulators, for the construction of transmission line between Cabazon and Hayfield. Contract on the basis of copper conductor.

LOS ANGELES, Cal.—Contracts awarded Feb. 10 by Metropolitan Water District for copper cable, approximately 2,700,000 lbs., under Speci-

fications No. M-2008, follow:
 Pacific Wire Rope Co., \$113,088 (all bids were identical).
 Anaconda Wire & Cable Co. of California, \$87,400.
 Graybar Electric Co., Inc., \$30,522.
 American Electrical Works Phillipsdale, \$2672.

LOS ANGELES, Cal.—Bids for furnishing and delivering 14 oil circuit breakers under Specifications No. 2982 opened by A. J. Holm, City Purchasing Agent, February 1. The bids were taken as follows:

- (1) 14 138,000-volt, 3-pole, single-throw oil circuit breakers, equipped with track mountings, train couplings, etc., incl., necessary oil.
- (a) breakers and oil, f.o.b. cars bidder's shipping point (lump sum);
- (b) breakers and oil, f.o.b. cars Power Spur No. 1, A. T. & S. F. Ry. delivery, or trucks, 1630 N. Main St., Los Angeles (lump sum);
- (c) breakers and oil, f.o.b. cars bidder's shipping point with full freight allowed to Power Spur No. 1, A. T. & S. F. Ry. delivery, Los Angeles.

Alt. No. 1—Same as (1) except to be furnished without oil—(a), (b), and (c) as above.
 Alt. No. 2—Same as (1) except to be furnished with standard floor mountings without trucks, incl. necessary oil, (a), (b) and (c) as above.
 Alt. No. 3—Same as (Alt. 2) except to be furnished without oil, (a), (b) and (c) as above.

The bids were:
 Kellman Electric Mfg. Co., — (1a) \$169,720, (1b) \$169,720, (1c) \$169,720. (Alt. 1a) \$148,720, (Alt. 1b) \$148,720, (Alt. 1c) \$148,720, (Alt. 2a) \$151,660, (Alt. 2b) \$151,660, (Alt. 2c) \$151,660, (Alt. 3a) \$180,660, (Alt. 3b) \$130,660, (Alt. 3c) \$130,660. Delivery start 60 days, compl. 120 days.

Westinghouse Electric Mfg. Co.— (1a) \$277,962, (1b) \$287,690, (1c) \$287,690. (Alt. 1a) \$264,657, (Alt. 1b) \$272,167, (Alt. 1c) \$272,167. (Alt. 2a) \$265,454, (Alt. 2b) \$274,772, (Alt. 2c) \$274,772, (Alt. 3a) \$252,148 (Alt. 3b) \$259,248, (Alt. 3c) \$259,248. Del. 65 days from East Pittsburg.

Pacific Electric & Mfg. Co. — (1a) \$177,277, (1b) no bid, (1c) \$179,877, (Alt. 1a) \$163,669 (Alt. 1b) no bid, (Alt. 1c) \$166,269, (Alt. 2a) \$168,005, (Alt. 2b) no bid, (Alt. 2c) \$170,427, (Alt. 3a) \$154,297, (Alt. 3b) no bid, (Alt. 3c) \$156,819. Del. 7 in 90 days, 7 in 220 days at San Francisco factory.

General Electric Co.—(1a) \$263,839, (1b) no bid, (1c) \$273,027, (Alt. 1a) \$253,712, (Alt. 1b) no bid, (Alt. 1c) \$260,926, (Alt. 2a) \$251,868 (Alt. 2b) no bid, (Alt. 2c) \$261,012, (Alt. 3a) \$241,743, (Alt. 3b) no bid, (Alt. 3c) \$248,914. Del. Start 60 days, 3 per week from Philadelphia factory.

SANTA BARBARA, Cal. — Charles Campbell, Division Manager for the Southern California Edison Co., Santa Barbara, has announced that the company will expend \$180,000 during the year for constructing extensions to the company's transmission lines in Santa Barbara, Carpinteria, Montecito Summerland, Naples and Goleta. The load anticipated this year is expected to be 150,000 h.p. The capacity of the Montecito station will be increased from 2000 to 4000 h.p.

LOS ANGELES, Cal. — Concrete Machinery and Supply Co., 777 E. Gage Ave., was awarded the contract by the Metropolitan Water District, February 10, at \$1096 for furnishing a 5 kilowatt electrical power unit.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

SEATTLE, Wash. — Major building projects recommended by the outgoing State Administration are as follows:

Construction of a underground sprinkling system and pumping plant at the University of Washington. Cost \$91,000.

Ward building, tunnels and equipment, Northern State Hospital. Cost, \$200,000.

Wall for stockade, Washington State Reformatory, Monroe. Cost, \$25,000.

Male ward building and equipment, Eastern State hospital. Cost, \$150,000.

Administration Bldg., Eastern State hospital. Cost, \$119,000.

Power house and reinstall boilers, Washington State penitentiary. Cost, \$40,000.

Industrial warehouse, Washington State penitentiary. Cost, \$15,000.

Planned.
 ADDITION Cost, \$—
 ALBANY, Alameda Co., Cal.
 Alterations and additions to City Hall
 Owner—City of Albany.
 Architect—Not Selected.
 More definite information will be given shortly.

PASADENA, Los Angeles County, Cal.—Bids will be called soon for the construction of a cooling tower system on Glenarm St., Pasadena, for Pasadena Municipal Light and Power Department. The first section will be 150x30 feet and 30 feet high. Estimated cost \$18,000.

Planned.
 HALL OF RECORDS Cost, \$40,000
 MODESTO, Stanislaus Co., Cal.
 Hall of Records.
 Owner—County of Stanislaus.
 Architect—Not selected.

Proposed project is in a very preliminary stage.

Preparing Working Drawings.
 FIRE HOUSE Cost, \$12,500
 SACRAMENTO, Sacramento Co., Cal.
 Sacramento Blvd. and Sixth Ave.
 One-story frame and stucco firehouse (single company building).
 Owner—City of Sacramento.
 Architect—Starks & Flanders, Forum Bldg., Sacramento.

Bids will be asked in about two weeks.

SAN FRANCISCO, Cal.— Bureau of Building Repair at \$650 awarded contract by Department of Public Works for repairs to metal covering of dome and roof of City Hall.

Contract Awarded.
 RESIDENCE Cost, \$6500
 BERKELEY, Alameda Co., Cal. Cragmont District.

Two-story frame and brick veneer residence (6 rooms and 2 baths); shake roof, gas furnace, electric refrigeration, etc.
 Owner—Withheld.
 Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.
 Contractor—P. W. Confer, 2101 Shattuck Ave., Berkeley.

Contract Awarded.
 LIBRARY Cost, \$—
 LOS ANGELES, Los Angeles Co., Cal. No. 1344 W. 106th Street.
 Frame and stucco branch library (54x50 feet); tile and composition roof, hardwood floors, etc.
 Owner—George A. Muscher, 1340 106th St., Los Angeles.
 Architect—Not Given.
 Contractor—G. E. Tweed, 6619 S. Pine St., Bell.
 Lessee—County of Los Angeles.

SAN FRANCISCO.—Roy Lind, 54 Stanton St., at \$4627 submitted low bid to Trustees of the San Francisco War Memorial for pipe trenches for the Veterans' Building. Following is complete list of bids:

Roy Lind	\$4,627
Herman Lawson	5,044
Dinwiddie Const. Co.	5,299
Love & Haun	7,550
C. C. W. & H. H. Haun	7,940
Chigris & Sutso	8,940

Bids held under advisement.

SAN FRANCISCO — Following bids received by Trustees of the San Francisco War Memorial for kitchen equipment of the Veterans Building, Civic Center:

Schedule (a)—Maln bid.	
Schedule (b)—Reconditioning equipment.	
James A. Nelson, Inc., 10th and Howard Sts.	(a) \$3882 (b) —
Anderson & Rowe	(a) 3985 (b) —
Ace Sheet Metal Works	(a) 4260 (b) 3840
Dohrmann Hotel Supply Co.	(a) 4607 (b) 3078
Mangrum & Holbrook	(a) 4784 (b) —

RESIDENCES

Contract Awarded.
 RESIDENCE Cost, \$4500
 SAN FRANCISCO. Pacheco St. near Tenth Avenue.

One-story and basement frame and stucco residence (5 rooms, breakfast room and recreation room); tile roof, gas heating, hardwood floors, 2-car separate garage.
 Owner—Lloyd Bell.
 Architect — George Cantrell, 325 Fremont St., San Francisco.
 Contractor—G. Harder, 870 39th Ave., San Francisco.

Sketches Prepared.
 RESIDENCE Cost, \$6,000
 OAKLAND, Alameda Co., Cal.

One-story frame and stucco duplex residence (2, 4 room duplex res.), tile roof, hardwood floors, gas hot air heating system, tiled baths, etc.
 Owner—Name withheld.
 Architect—F. H. Slocome, 131 Monte Cresta Ave., Oakland.
 Contractor—George W. Anderson, 7305 Foothill Blvd., Oakland.

Sub Bids Being Taken.
 RESIDENCE Cost, \$7,000
 SAN FRANCISCO, Cal., S. Jefferson St. W. Webster.

One-story and basement frame and stucco residence (6 rms., 2 baths). Spanish type, tile roof, gas hot air heating system, hardwood floors, tiled baths, etc.
 Owner/and Builder — Ben Liehman, 1555 Francisco St.
 Architect—R. R. Irvine, 2048 Market St.

Sub Bids Being Taken.
 RESIDENCE Cost, \$7,000
 OAKLAND, Alameda Co., Cal. Oakmore Highlands.

Two-story and basement frame and stucco residence (7 rms., 2 baths), shingle roof, gas hot air heating system, hardwood floors, etc.
 Owner—A. W. Davidson.
 Architect—Miller & Warnecke, Financial Center Building, Oakland.
 Contractor—Theo. Lapham, 546 Kenmore Ave., Oakland.

Planned.
 REBUILD RESIDENCE Cost, \$9,000
 SAN FRANCISCO, Cal. 1227 45th Ave. Rebuild residence recently destroyed by fire.
 Owner—G. Wolff, 295 18th Avenue.
 Architect—Not selected.

To Be Done By Day's Work.
RESIDENCE Cost, \$5000
BERKELEY, Alameda Co., Cal. No. 841 Euclid Avenue.
 One-story and basement frame and stucco residence (6 rooms).
 Owner and Builder—O. E. Carlson Jr., 659 Santa Barbara Road, Berkeley.
 Plans by P. Anderson, 3836 E-14th St., Oakland.

Contract Awarded.
RESIDENCE Cost, \$—
BERKELEY, Alameda Co., Cal. Shasta Road.
 One-story and basement frame residence (6 rooms); slate roof, gas hot air heating system, hardwood floors, etc.
 Owner—Withheld.
 Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.
 Contractor—F. W. Confer, 2101 Shattuck Ave., Berkeley.

Plans Being Figured.
RESIDENCE Cost, \$—
BERKELEY, Alameda Co., Cal. Berkeley Highlands.
 Two-story frame and brick veneer residence (6 rooms); shingle roof, gas furnace, electric refrigeration, tiled baths, etc.
 Owner—C. J. Johnson.
 Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.
 Bids are being taken from a selected list of contractors.

Preparing Plans.
RESIDENCE Cost, \$—
REDWOOD CITY, San Mateo Co.
 Two-story brick and steel residence (6 rooms and 2 baths); steel sash electric refrigeration, tiled baths, etc.
 Owner—Withheld.
 Architect—J. K. Ballantine, 137 Harlan Place, San Francisco.
 Bids will be asked about February 18.

Sub-Bids Being Taken.
RESIDENCE Cost, \$8000
PALO ALTO, Santa Clara Co., Cal. No. 2000 Bryant Street.
 Two-story and basement frame and stucco residence.
 Owner and Builder—Marcus Stedman, 1818 Bryant St., Palo Alto.
 Private Plans.
 Mr. Stedman is interested in receiving manufacturers circulars and catalogs.

Sub-Contracts Awarded.
RESIDENCE Cont. Price, \$23,749
SAN MATEO, San Mateo Co., Calif. Caralands Tract.
 Two-story frame and stucco or brick residence (15 rooms, 5 baths; English type).
 Owner—C. C. Young, 2223 Easton Dr., Burlingame.
 Architect—Willis Polk Co., 277 Pine St., San Francisco.
 Contractor—G. W. Williams Co., 315 Primrose Road, Burlingame.
Brick Work—Chas. Ohran, 1038 Chula Vista Ave., Burlingame.
Mill Work—Pacific Mfg. Co., Santa Clara.
 As previously reported, grading awarded to H. E. Casey Co., San Mateo.

Sub-Bids Being Taken.
RESIDENCES Cost, \$5500 each
SAN FRANCISCO E Thirty-sixth Avenue 100 N Klrkham Street.
 Five one-story and basement frame and stucco residences (five rooms each); tile and composition roof, gas heating system, hardwood floors, canvas walls, electric refrigeration, laundry chutes, social hall in basement with brick fireplace (typical patio, originated by Irvine & Ebbets).

Owner and Builder—It. T. Myre, 1840 Turk St., San Francisco.
 Plans by Irvine & Ebbets, 2048 Market St., San Francisco.

To Be Done By Day's Work.
RESIDENCE Cost, \$—
ALAMEDA, Alameda Co., Cal. No. 958-A Park Street.
 One-story and basement frame and stucco residence (5 rooms).
 Owner and Builder—Curtis Major, 958 Park St., Alameda.
 Plans by Owner.

Plans Being Figured.
ADDITION Cost, \$—
SAN FRANCISCO. No. 830 Valencia Street.
 Addition to one-story frame building (living quarters in rear, partition work, etc.)
 Owner—Withheld.
 Architect—H. C. Baumann, 251 Kearny St., San Francisco.

Sub-Contract Awarded.
RESIDENCE Cost, \$8500
SAN FRANCISCO. E Diamond St. S Nineteenth St.
 One-story and basement frame and stucco residence (five rooms) tile and composition roof, gas heating, hardwood floor, tiled bath, etc.
 Owner—Joseph Haunschild.
 Plans by B. K. Dobkowitz 425 Monterey Blvd., San Francisco.
 Contractor—Robt. McCarthy, 1364 14th Ave., San Francisco.
Lumber—Sudden Lumber Co., Evans San Francisco.
Roofing—J. Reilly, 20 Isabel St., San and Quint Sts., San Francisco.
Concrete—D. O'Connor, 1367 25th Ave. Francisco.

Construction To Start Shortly.
STORE AND RESIDENCE Cost, \$—
OAKLAND, Alameda Co., Cal. No. 4231-4235 E-14th St.
 Two-story frame and stucco residence and store (11 rooms).
 Owner—Lola Texeira, 7532 Krause Ave., Oakland.
 Architect—Not Given.
 Mgr. of Constr.—E. E. Wooten, 3254 Foothill Blvd., Oakland.

SCHOOLS

Contracts Awarded.
FURNITURE Cost, \$—
SACRAMENTO, Sacramento Co., Cal. Sacramento Blvd. and 10th Ave.
 Furniture and equipment for the new Stanford Junior High School.
 Owner—Sacramento City School Dist. Architect—Not Given.
Vienna Chairs—Dohrmann Hotel Supply Co., 972 Mission St., San Francisco, at \$2.09 each.
Oak Side Chairs—Rucker Fuller Co., 539 Market St., San Francisco, at \$2.53 each.

Sub-Contracts Awarded.
GYMNASIUM Cost, \$35,000
PORTERVILLE, Tulare Co., Cal.
 One-story and basement frame and stucco gymnasium (roof trusses, gas and steam heating system, composition roof, steel sash, softwood flooring, tile wainscot and floors in showers, steel lockers and gymnasium equipment).
 Owner—Porterville Union High School District.
 Architect—W. D. Coates Jr., Rowell Bldg., Fresno.
 Contractor—Jolly & Harrington, 834 Arthur St., Fresno, at \$18,573.
Concrete—Ralph Utter, Tulare.
Steel—Kyle Co., Fresno.
Composition Roofing—D. H. Coffman Co., Fresno.
Plastering—Fred Low, Fresno.
Mill Work—Fresno Planing Mill, Fresno.

Lamelaa Roofing—Trusless Roof Co., 354 Hobart St., Oakland.
Sheet Metal—Fred Stone, Porterville.
Electric—M. L. Poundstone, Porterville.
Painting—W. L. Lyons, Fresno.

SAN FRANCISCO—Thos. J. Doyle, 1527 17th Ave., at \$3737 awarded contract by Department of Public Works, for new lavatories in the Douglas School.

BANKS, STORES & OFFICES

Plans Being Completed.
REMODELING Cost, \$75,000
SEATTLE Wash. NW Second Ave. and Pike Street.
 Remodel Eitel Building (terra cotta facing two elevators, terrazzo floors, fireproof stairways new plumbing lighting, etc.)
 Owner—Eitel Estate (Geo. C. Baker, Manager).
 Architect—V. W. Voorhees, Lloyd Bldg., Seattle.
 Bids will be asked shortly.

Contract Awarded.
ADDITION Cost, \$4000
SAN JOSE, Santa Clara Co., Cal. No. 990 E-Santa Clara St.
 Addition to offices.
 Owner—Chas. Campbell, 995 E-Santa Clara St., San Jose.
 Architect—Not Given.
 Contractor—R. C. Knight, Mt. View.

Sub Contracts Awarded.
STORE Cost, \$7,000
SAN FRANCISCO. No. 2038 Steiner Street.
 One-story frame and stucco drug store (25x80 feet).
 Owner—Withheld.
 Architect—S. Helman, 605 Market St., San Francisco.
 Contractor—Louis Cohn, Russ Bldg., San Francisco.
 Lessee—B. Broemmel, 2501 California St., San Francisco.
Concrete—Standard Concrete Construction Co., 3025 Geary St.
Lumber—Christensen Lumber Co., 5th and Hooper Sts.
 (456 1st report Jan. 17, 1933.

Sub-Bids Being Taken.
STORES & APTS. Cost, \$10,000
SAN ANSELMO, Marin Co., Cal. San Anselmo Avenue.
 Two-story reinforced concrete stores and apts. (40x45) 3 stores, two 4-room apts.; built-up roof, gas steam heating system, hardwood floors in apts., mastic floors in stores, etc.
 Owner—W. H. Whalen, 552 San Anselmo Ave., San Anselmo.
 Plans by Mr. Jackson.
 Contractor—Edward G. Jackson, 920 4th St., San Rafael.

MARKET Cost, \$10,000
RICHMOND, Contra Costa Co., Cal. SE 23rd St. and Macdonald Ave.
 One-story Class C reinforced concrete market (tar and gravel roof, steel sash, etc.)
 Owner—Henslee Corp. (½ Bells-Gilberg, Ltd.), 366 17th St., Oakland.
 Architect—H. A. Minton, 525 Market St., San Francisco.
 Contractor—David Paganini, 519 California St., San Francisco.
 (9973) 1st report Nov. 9, 1932; 8th Feb. 1, 1933.

Contract Awarded.
MARKET Cost, \$10,000
FRESNO, Fresno Co., Cal. Olive St.
 One-story brick market.
 Owner—Justesen's, 253 Fulton Street, Fresno.
 Architect—Chas. Butner, Cory Bldg., Fresno, and Gilkbarg Bldg., Salinas.
 Contractor—Fisher & McNulty, Mattel Bldg., Fresno.

Contract Awarded.
STORE Cont. Price, \$9,222
SAN MATEO, San Mateo Co., Calif.
Third Avenue.
One-story reinforced concrete store
(50x80 feet).
Owner—Judge John J. McGrath.
Architect—Bertz, Winter & Maury, 210
Post St., San Francisco.
Lessee—Public Food Stores.
Contractor—Clinton Stephenson Con-
struction Co., 550 Montgomery St.,
San Francisco.

Contract Awarded.
ALTERATIONS Cost, \$2000
SAN FRANCISCO, No. 245 Market
Street.
Alterations to offices.
Owner—P. G. & E. Co., 245 Market
St., San Francisco.
Plans by Engineering Dept. of Owner.
Contractor—H. H. Larsen Co., 64
South Park.

Wrecking Started.
STORE Cost, \$—
BERKELEY, Alameda Co., Cal. No.
2036 Shattuck Avenue.
Brick and concrete store (brick and
terra cotta facing, composition
roof, structural steel, cement,
hardwood and terrazzo floors,
plate glass, metal fire doors, orna-
mental iron, gas heating, etc.)
Owner—S. H. Kress Co., 114 5th Ave.,
New York City.
Plans by Eng. Dept. of Owner.
Wrecking—J. T. Kingrea, 20th and
E-12th St., Oakland.
Bids will be asked shortly from a
selected list of contractors for the
construction.

Taking Preliminary Estimates.
STORE Cost, \$—
NAPA, Napa Co., Cal. Second and
Main Streets.
One-story brick stores (4 stores; 60x
75 feet); tar and gravel roof, wood
floors, etc.
Owner—E. H. Manchester, 1318 Clay
St., Napa.
Architect—C. Leroy Hunt, Second and
Main Sts., Napa.
An estimate is being taken from one
local contractor. Announcement will
be made shortly.

Contract Awarded.
STORE Cost, \$5352
OAKLAND, Alameda Co., Cal. No.
528 Seventh Street.
One-story brick store.
Owner—Emil Arndt, 320 Fifth St.,
Oakland.
Architect—Not Given.
Contractor—H. J. Christensen, Ray
Bldg., Oakland.

Contract Awarded.
REBUILD Cost, \$6500
SAN FRANCISCO, No. 1111 Market
Street.
Rebuild portion of three-story build-
ing recently damaged by fire.
Owner—California Mutual Building &
Loan Company.
Architect—Dodge Riedy, Pacific Bldg.,
San Francisco.
Lessee—California Food Palace.
Contractor—Ira W. Coburn, 2048 Mar-
ket St., San Francisco.

Sub-Contracts Awarded.
STORE Cost, \$5000
OAKLAND, Alameda Co., Calif. 6651
Beek Street.
One-story frame store.
Owner & Builder—I. Shemanski, 1017
Market St., San Francisco.
Architect—Not Given.
Lumber—Sunset Lumber Co., 400 High
St., Oakland.
Concrete—J. H. Fitzmaurice 2857 Huan-
nah St., Oakland.
Mill Work—Pacific Mfg. Co., Santa
Clara.
Painting—M. Williams & Son, 354 Ho-
bart St., Oakland.

Electric—Kerr & Clifford, 3525 E 14th
St., Oakland.
Plumbing—Ambrose Bros., 206 Chu-
malia, Oakland.
Tile Work—Rigney Tile Co., 3012 Har-
rison St., Oakland.
Sheet Metal—Golden Gate Sheet Met-
al Works, 1422 14th Ave., Oak-
land.
Plastering—Sam Muriale, 3831 La
Cresta, Oakland.
Glass—W. P. Fuller Co., 259 10th St.,
Oakland.
Roofing—Crown Roofing Co., 2609 E
14th St., Oakland.
Electric Fixtures—San Jose Iron W'ks
San Jose.
Iron Work—Folsom Street Iron Works
17th and Missouri Sts., San Fran-
cisco.

Completing Plans.
ADDITION Cost, \$—
SANTA MONICA, Los Angeles Co.,
Cal. Fourth St. and Santa Monica
Blvd.
One-story steel frame Class B addi-
tion to store (60x75 feet); brick
walls, composition roof, wrought
iron, steel sash, tile and terrazzo
work, etc.
Owner—Charles Tenger.
Architect—H. C. Hollwedel, Majestic
Theatre Bldg., Santa Monica.
Lessee—Bay Department Store.
Segregated bids will be taken in
about ten days.

CAPITOLA, Santa Cruz Co., Cal.—
Fire destroyed a group of buildings
in the business district of Capitola
February 8. Damage estimated at
\$150,000. Heaviest loss was incurred
by Frank Blake's Hawaiian Gardens
valued at \$60,000. Other buildings
damaged were owned by the follow-
ing: D. E. Blanchard, F. Bertolucci,
Joe Cuneo, B. A. Canepa, Carl
Smeath, Bud Chorser and Cox & Me-
Clintic.

Preparing Working Drawings.
STORES & OFFICES Cost, \$—
OAKLAND, Alameda Co., Cal. SW
Twenty-second and Broadway.
Two-story steel frame and concrete
offices and stores.
Owner—Mrs. Clark, Sacramento.
Architect—Reed & Corlett, Bank of
American Bldg., Oakland.
Agent—Malden F. Bruce & Co., 420
15th St., Oakland.
Contractor is selected but name is
withheld at this time.

Low Bidder.
REBUILD Cost, \$6500
SAN FRANCISCO, 1111 Market St.
Rebuild portion of three-story build-
ing recently damaged by fire.
Owner—California Mutual Building &
Loan Company.
Owner—Dodge Riedy, Pacific Bldg.,
San Francisco.
Low Bidder—Ira W. Coburn, 2048
Market St., San Francisco.
Lessee—California Food Palace.

Preparing Plans.
ALTERATIONS Cost, \$—
BERKELEY, Alameda Co., Cal. All-
ston Way near Shattuck Avenue.
Alterations to store for restaurant
(new front, restaurant equip-
ment to be installed, etc.)
Owner—Harvey Enors, 2552 Le Conte
Ave., Berkeley.
Plans by Harry C. Smith.
Contractor—Harry C. Smith, 2611
Francisco St., Berkeley.
Work will not be started before
April.

Contract Awarded.
ALTERATIONS Cost, \$'850
OAKLAND, Alameda Co., Cal. No.
3967 Piedmont Avenue.
Alterations to frame store (partition
work, lower floors, etc.; 67x90 ft.)

Owner—Safeway Stores.
Architect—Harold F. Fenss, 2249 Ward
St., Berkeley.
Contractor—Elmer Stearman, 1829 21st
St., Oakland.

Specifications Being Written.
STORE Cost, \$40,000
OAKLAND, Alameda Co., Cal. Broad-
way, N. 19th St.
One-story and basement and mezza-
nine reinforced concrete store (30
x 100 ft.)
Owner—Twentieth & Broadway Real-
ty Co., 1175 Market St., San Fran-
cisco.
Architect—Albert Evers, 525 Market
St., San Francisco.
Lessee—Kushins Shoe Co.
Bids will be asked shortly.

Preparing Plans.
OFFICES Cost, \$—
SEATTLE, Washington. Third Ave.
and Madison St.
Two-story addition to office bldg.
(foundation laid to carry 26 sto-
ries).
Owner—City Light Building Co.
Architect—Earl W. Morrison, Lloyd
Bldg., Seattle, Wash.

Contract Awarded.
ALTERATIONS Cont. Price, \$1370
SAN FRANCISCO, No. 76 First St.
Alterations to one-story Class C con-
crete store.
Owner—C. W. Marwedel.
Architect and Engineer—J. E. Krafft
& Sons, Pielan Bldg., S. F.
Contractor—Alfred H. Vogt, 251 11th
St., San Francisco.
This portion of the contract covers
steel rolling doors, etc.

Planned.
ALTERATIONS Cost, \$—
SACRAMENTO, Sacramento Co., Cal.
No. 811 K Street.
Alterations to store (new front, in-
terior work, etc.)
Owner—Hal Ash, Ltd., 523 S-Broad-
way, Los Angeles.
Architect—Not Given.
Leasing Agent—Hickman-Coleman
Co., 812 J St., Sacramento.

Contract Awarded.
REMODELING Cost, \$—
BAKERSFIELD, Kern Co., Cal. No.
1730 Chester Avenue.
Remodel interior of store.
Owner—Redlicks, Premises.
Plans by Owner.
Contractor—Hugo Weder and L. H.
Moon, Union St., Bakersfield.

THEATRES

Sub-Contracts Awarded.
THEATRE Cost, \$20,000
REDWOOD CITY, San Mateo Co., Cal.
California and Montgomery Sts.
One-story steel frame and reinforced
concrete theatre, to seat 500;
heating and ventilating appliances,
latest sound equipment, modern
lighting effects, decorating, etc.
Owner—Philip A. Freese.
Architect—William I. Garren, 233 Post
St., San Francisco, and S. Charles
Lee, 2404 W. 7th St., Los Angeles,
Associated.
Contractor—G W. Williams Co., 315
Primrose Road, Burlingame.
Structural Steel—Schrader Iron Wks.,
1247 Harrison St., San Francisco.
Concrete Materials—Redwood Mater-
ials Co., Redwood City.
As previously reported, excavation
awarded to Chas. E. Archibald, 919
Arguella St., Redwood City; mill work
to Pacific Mfg. Co., Santa Clara; re-
inforcing steel to W. S. Wetenhall,
17th and Wisconsin Sts.

THEATRE Cost, \$20,000
SONOMA, Sonoma Co., Cal. First St., East.
 One-story steel and concrete theatre (to seat 500); (85x168 ft.); large room above and stores below.
 Owner—Sam Sebastiana, Sonoma.
 Architect—Reid Bros., 105 Montgomery St., San Francisco.
Structural Steel: Herrick Iron Works, 18th and Campbell Sts., Oakland. Reinforcing steel bids are now being taken.

WHARVES AND DOCKS

PORTLAND, Oreg.—Parker-Schram Co., Couch Bldg., at \$24,475, awarded contract by Commission of Public Docks for reconstructing platform dock and driving pile bulkhead at Slip No. 1, Municipal Terminal No. 4. Complete bids follow:
 Parker-Schram Co. \$24,475
 Drake, Wynman & Voss, Inc. 26,990
 Gilpin Constr. Co. 27,245
 Jacobsen Constr. Co. 28,887
 Guthrie-McDougal Co. 31,600
 Portland Dredging Co. 32,000

MISCELLANEOUS CONSTRUCTION

Preparing Sketches.
ADDITION Cost, \$125,000
BAKERSFIELD, Kern Co., Cal. Bakersfield Memorial Park.
 Additional units at Memorial Park (crematory, cemetery, mortuary, chapel, columbarium, etc.)
 Owner—Bakersfield Memorial Park (J. K. McAlpine, Mgr.)
 Architect—Edwin J. Symmes, Habersfelde Bldg., Bakersfield.

Sub-Contracts Awarded.
TOWER Cost, \$100,000
SAN FRANCISCO. Pioneer Park on Telegraph Hill.
 Construct concrete monumental tower (install elevator, heating and electric, concrete work, quarry tile, iron work, carpentry, ornamental tile and plumbing.
 Owner—City and County of San Francisco (Park Commission).
 Architect — Arthur Brown Jr., 251 Kearny St., San Francisco.
 Engineer—C. H. Snyder, 251 Kearny St., San Francisco.
 Contractor—Young & Horstmeyer, 461 Market St., San Francisco.
Reinforcing Steel and Steel Sash—
 Soule Steel Co., 1750 Army St., San Francisco.
Transit Mix Concrete — Golden Gate Atlas Materials Co., 16th and Harrison ts., San Francisco.
Cement— Calaveras Cement Co., 315 Montgomery St., San Francisco.
Plumbing— Scott Co., 243 Minna St., San Francisco.

LONG BEACH, Los Angeles Co., Cal.—City council has under consideration the construction of an incinerator at the site of the present city dump where a site for a stadium is to be graded by city unemployed forces. About \$85,000 remains from a bond issue voted several years ago.

Contract To Be Awarded.
BRIDGE Cost, \$—
SAN FRANCISCO. Jessie St., bet. Fourth and Fifth.
 Steel and concrete bridge.
 Owner—The Emporium, 835 Market St., San Francisco.
 Plans by Eng. Dept. of Owner.
 Contractor—Cahill Bros., 206 Sansome St., San Francisco.
 Following bids received according to amount of bid. Lowest bid first:
 Cahill Bros.,
 G. P. W. Jensen,
 MacDonald and Kahn,
 Lindgren & Swinerton, Inc.,
 Barrett & Hilp,
 Empire Construction Co.,

Planned.
GRAIN ELEVATOR Cost, \$—
WALLA WALLA, Washington.
 Grain elevator (80,000 bushel capacity).
 Owner—Walla Walla Grain Growers, Walla Walla, Washington.
 Architect—Not Given.

Bids Being Taken—To Close Feb. 18.
STADIUM Cost, \$—
SAN JOSE, Santa Clara Co., Cal.
 Football stadium (seating capacity of approx. 20,000)—crescent shaped earth embankment on each side; radio broadcasting facilities, dressing rooms, press boxes, etc.
 Owner—Associated Student Body of San Jose State Teachers' College.
 Engineer—Michael Antonaci, City Hall San Jose.
 There is approximately 45,000 cubic yards of excavation involved in this project.
 Bids are now being received from a selected list of contractors.

Sub-Bids Being Taken.
UNDERTAKING PARLORS \$7500
HOLLISTER, San Benito Co., Cal. Seventh and Monterey Sts.
 One-story frame and stucco undertaking establishment (60x100 ft.) tile roof; chapel, family room, music room, display room, preparation chamber and receiving vault.
 Owner—Lyle A. Cooper, Hollister.
 Architect—Miller & Warnecke, Financial Center Bldg., Oakland.
 Contractor—L. G. Young, Hollister.
 Sub-bids are being taken on all portions of the work.

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 Owner—Lyle A. Cooper, Hollister.
 Architect—Miller & Warnecke, Financial Center Bldg., Oakland.
 Contractor—L. G. Young, Hollister.
 Sub-bids are being taken on all portions of the work.

MISCELLANEOUS SUPPLIES AND MATERIALS

LOS ANGELES, Cal.—J. H. Baxter Co., has been awarded the contract by H. E. Russell, County Purchasing Agent, at \$2031.62 (5% local mgr.) for furnishing creosoted lumber under Spec. No. 5067.

OAKLAND, Cal. — Bunker Hill & Sullivan Mining & Concentrating Co., Crocker Bldg., San Francisco, at \$3000 awarded contract by East Bay Municipal Utility District, Oakland, to furnish 50 tons of pig lead in bars of approximately 100 lbs. Only other bid submitted by American Smelting Co., also at \$3000.

SEATTLE, Wash. — Until Feb. 21, 10 A. M., bids will be received by W. A. Gaines, City Purchasing Agent, 511 County-City Bldg., to furnish one street railway cable for Madison Cable line. Specifications obtainable from above office.

SAN FRANCISCO—Until Feb. 21, 2 P. M., bids will be received by State Purchasing Agent, Harbor Commission Branch, Ferry Bldg., San Francisco to furnish such lumber as may be needed on the various wharves and structures on the water front of the City and County of San Francisco.

OAKLAND, Alameda Co., Cal.—All bids received by City Council for approximately 500 shovels were rejected. Shovels will be purchased in the open market.

Contract Awarded.
REPAIRS Cost, \$1070
SAN FRANCISCO. No. 512 Mission Street.
 Repair fire damage to building.
 Owner—Estate of Emile Boesch.
 Engineer—Conchot & Rosenwald, 525 Market St., San Francisco.
 Contractor—Theo. Cohn, Russ Bldg., San Francisco.

Low Bidder.
STORE Cost, \$—
SANTA ANA, Orange Co., Cal. Fourth and Main Streets.
 Three-story and basement steel frame department store (100x100 feet); concrete and wood floors, wood floor joists, brick walls, art stone trim, tile and composition roof, tile bulkheads, plate glass copper fronts, freight elevator, steam heating, steel sash, etc.
 Owner—Montgomery Ward Company.
 Architect — W. Horace Austin, Hill Bldg., Santa Ana.
 Low Bidder—Thermon Means, 611 E. First St., Santa Ana.

Being Done By Day's Work By Owner.
REPAIRS \$5000
SAN FRANCISCO. No. 915 Columbus Avenue.
 Repair fire damage to cafe.
 Owner—Edward Cerruti, 775 Lombard St., San Francisco.
 Architect—Not Given.
 Lessee—Louis Maggiora, 1042 Filbert St., San Francisco.
 Owner will take segregated bids shortly.

Sub-Contracts Awarded.
STORE Cont. Price, \$9,222
SAN MATEO, San Mateo Co., Calif. Third Avenue.
 One-story reinforced concrete store (50x80 feet).
 Owner—Judge John J. McGrath.
 Architect—Bertz, Winter & Maury, 210 Post St., San Francisco.
 Lessee—Public Food Stores.
 Contractor—Clinton Stephenson Construction Co., 550 Montgomery St., San Francisco.

Reinforcing Steel—Gunn, Carle & Co., 20 Potrero Ave., San Francisco.
Excavation and Concrete Materials—H. E. Casey Co., San Mateo.

Contract Awarded.
ALTERATIONS Cost, \$1000
SAN FRANCISCO. Geary and Stockton Streets.
 Alterations for coffee shop.
 Owner — D. La Fern, 2050 Van Ness Ave., San Francisco.
 Plans by Exposition Woodworking Co.
 Contractor—Exposition Woodworking Co., 661 Golden Gate Ave., San Francisco.

Revised Plans Awaiting Approval.
ADDITION Cost, \$50,000
DALY CITY, San Mateo Co., Cal.
 Class C concrete addition to high school (all six classrooms) wood joists, tile roof, wood and concrete floors, steam heating system.
 Owner—Jefferson Union High School District.
 Architect—Reising & McGuinness, 483 Pine St., San Francisco.
 Further information will be given in about one week.

SAN JOSE, Santa Clara Co., Cal.—Nu-Way Lawn Sprinkler Co., 142 McAllister St., San Francisco, at \$479 awarded contract by San Jose Board of Education for the installation of an underground sprinkling system for the M. R. Trace School, San Jose. As previously reported M. R. LeBaron, Oakland, awarded contract for sprinkling system for the Herbert Hoover School.

Sub-Bids Being Taken.
RESIDENCES Cost, \$4000 each
SAN FRANCISCO. Arden Wood.
 Two one-story and basement frame and stucco residences (6 rooms, 2 baths each); one tile roof, one slate roof, gas heating system, tiled baths, canvas walls and ceilings, hardwood trim, etc.
 Owner and Builder—Standard Bldg. Co., 24 Sloat Blvd., San Francisco.
 Architect—Not Given.

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LABOR COMMISSION OUTLINES LEGISLA-
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EXPANDED STEEL MARKET IS FORECAST

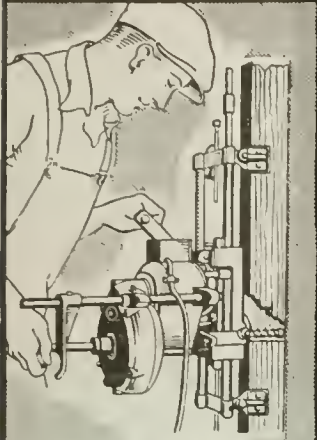
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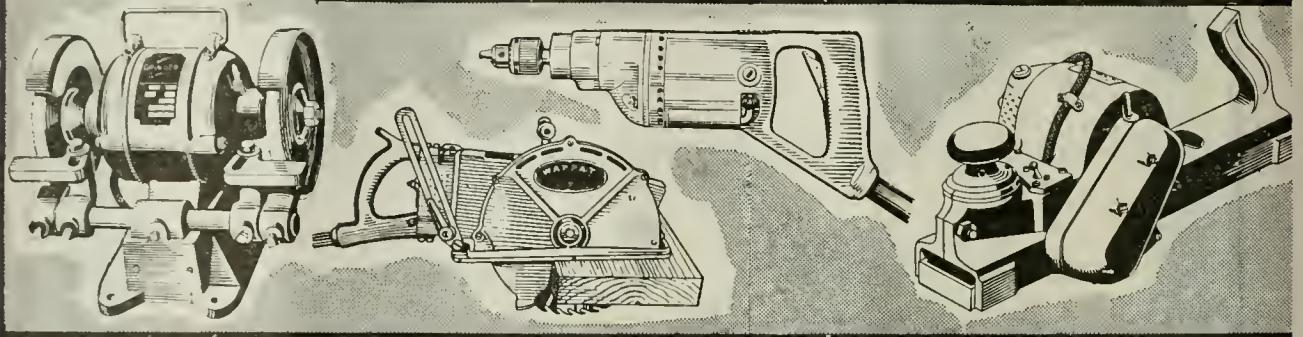
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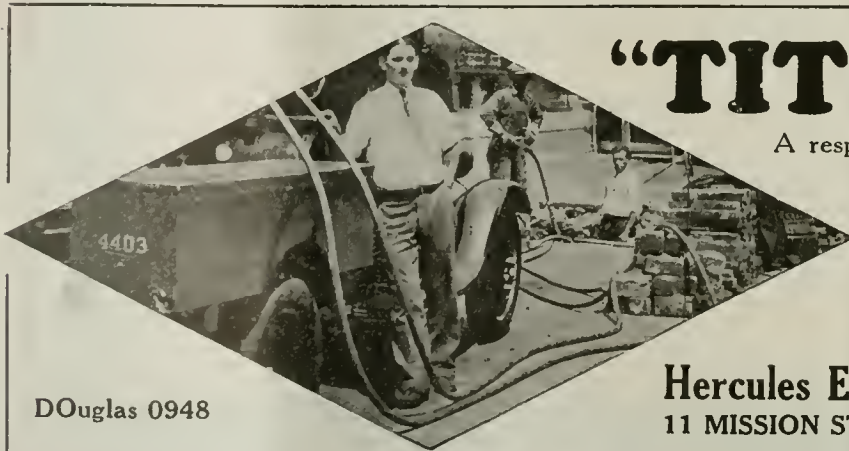
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SAM B. EUBANKS, Editor

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SAN FRANCISCO, CALIF., FEB. 25, 1933

No. 6

L. A. DISTRICT REVIEWS FORCE ACCOUNT POLICY

Protests Follow Proposal To Let Coachella Tunnels To Day Labor

Contractors will be given an opportunity to bid on approximately nine miles of the Coachella tunnels of the Colorado River Aqueduct, it has been indicated by the Los Angeles Metropolitan Water District.

It was reported originally that the entire 33 miles of tunnels would be constructed under force account day labor.

Protests were forwarded to the board from numerous public agencies on the ground that such procedure would increase costs of the construction project. F. J. Connolly, manager of Southern California Chapter, Associated General Contractors, called attention to the costly experience of day labor methods in construction of the Hetch Hetchy water supply for the city of San Francisco compared with the speed and economy with which the Eastbay Municipal Utilities District completed the Mokelumne project under competitive bid and contract.

The city of San Marino, a member of the water district, asked the directors not to resort to day labor until contractors had been allowed to bid in open competition with the engineers' estimate, thereby placing a "price tag" on the work as a check against waste and inefficiency should the day labor plan be selected ultimately.

BRIDGE FRANCHISE EXTENSION GRANTED

One year's extension of time to complete the construction of a proposed toll bridge between Point San Pablo, Contra Costa county, and Point San Quentin, Marin county, has been granted by the Contra Costa board of supervisors to the Richmond-San Rafael Ferry Company. The franchise is extended to February 15, 1934.

THE WEEK'S NEWS Highlights

SAN JOSE POSTOFFICE—W. J. Ochs, San Jose contractors, submitted the low bid of \$268,517 on construction of the San Jose post-office building.

NEVADA ROAD AWARDS—Three contracts, totalling \$161,795, for highway improvement were awarded by the Nevada State Highway Department.

PROTEST DAY LABOR—Los Angeles Metropolitan Water District directors are reconsidering their recent decision to construct 33 miles of aqueduct tunnels under force account following many protests against the plan as uneconomical.

BRIDGE GROUND BREAKING—Ceremonies to mark the formal groundbreaking on the Golden Gate Bridge construction call for an elaborate program Sunday, February 26, including a civic banquet, parade and colorful spectacle at the site of the south approach.

HOUSING SHORTAGE—A report by the Allied Eastbay Realty Boards discloses an estimated shortage of more than 1000 homes in Eastbay communities if families now doubled up in singlefamily dwellings were to seek separate residences.

NEW BUILDING ACT—An ordinance to require plastering over metal lath in all ceilings and walls of buildings over two stories in height, except private dwellings, has been recommended to the San Francisco Board of Supervisors by the Department of Public Works.

AIR STATION GARAGES—H. C. Miller, Santa Clara, bid \$10,609, the low figure on construction of three concrete garages at Sunnyvale Naval Air Station. Second and third low: Theodore Johanns, San Francisco, at \$10,647; George Petersen, San Leandro, \$11,390.

CITY CELEBRATES START OF BRIDGE WORK SUNDAY

Mammoth Parade To Mark Formal Groundbreaking For Gate Span

Ceremonies marking the formal groundbreaking exercises for the Golden Gate bridge next Sunday will bring visitors to San Francisco from a score of Northern California counties to participate in the celebration.

The program will start with a parade of fraternal and military organizations and bands from Van Ness avenue and Lombard street to Crissy Field. The parade will bring together 50 drum corps and 36 bands, the largest assemblage of musical units ever engaged in a San Francisco parade, it is claimed by the organizers.

Uniformed drill teams from patriotic societies, lodges, navy and army corps will compose the marchers. Thirty-six hundred men from the ships now in San Francisco harbor will march. Army and navy planes will form an aerial escort.

At the site of the bridge approach William Filmer, president of the bridge directors, will turn the first spadefull of earth and Joseph B. Strauss, chief engineer, the second. The golden spade they use will then be presented to Mayor Rossi to be placed in deYoung Museum.

Following the formalities navy airplanes will make a spectacular flight across the Golden Gate, tracing in smoke the lines of the projected bridge. Smoke bombs at both anchorages will be set off simultaneously.

As a preliminary feature of the Sunday celebration there will be a public banquet at the Hotel Fairmont Saturday night. Supervisor Warren Shannon is chairman of the banquet committee.

Guests of honor will include visiting foreign dignitaries and officers of the army and navy, state, city and county officials.

INSPECTION ADOPTED

Visalia city council has adopted an ordinance providing for inspection of all electric wiring installations in the city.

10 LABOR BILLS TO BE SUPPORTED BY COMMISSION

MacDonald Announces Measures Administration Will Advocate

Four legislative measures affecting the construction industry are among the ten bills in the California state legislature which will receive the support of the state labor commission, Commissioner F. C. MacDonald has announced.

Among the changes advocated is establishment of a public works penalty fund which would divert all penalties collected for violation of the prevailing wage law, alien law and eight-hour law into a fund for their enforcement. (Assembly Bill 716, introduced by Assemblyman Charles W. Dempster, Los Angeles; Senate Bill 260 by Chris N. Jespersen, Atascadero).

Three other bills supported by the commission are:

(1) An act amending the title and Sections 3 and 5 of the prevailing rate law on public works by requiring all contractors and sub-contractors doing public work to pay their employes and workmen by negotiable checks without refund, abatement of reduction except by a reasonable charge for board, to furnish certified, accurate duplicate copies of their payroll records to the inspector on the job on the day following each pay day and to post and keep posted in a conspicuous place at the site of the work an accurate and legible copy of the schedule of wages required by the contract to be paid to all workers employed on the job, providing penalties for failure to do so and making it clear that piece workers and working sub-contractors are to be classed as workmen when doing work on the job. (Assembly Bill 696, introduced by Assemblyman Thomas A. Maloney, San Francisco.)

(2) An act amending Section 653d of the Penal Code, making it a felony to receive a rebate of wages on public work, so as to specifically include within its terms any person who accepts or conspires to accept a rebate from those performing services under contractors and subcontractors doing public work. (Assembly Bill 585, introduced by Assemblyman Joseph P. Gilmore of San Francisco.)

(3) An act making labor claims preferred to material and other claims on public works to expedite payment of claims for labor in the event of abandonment of the contract due to insolvency. (Assembly Bill 947 introduced by Assemblyman Charles W. Dempster, Los Angeles.)

In a statement accompanying the endorsed list, MacDonald said:

"In the main, our labor laws are in fine shape and are being used as models for similar legislation in many other states, as is evident from the correspondence coming in to my office from labor commissioners throughout the country following the numerous recent deci-

SAN JOSE BUILDER SUBMITS LOW BID ON NEW POST OFFICE

WASHINGTON, D. C., Feb. 17.—W. J. Ochs, San Jose, submitted the low bid of \$268,517 on specifications providing for construction of the San Jose post office with terra cotta finish. The low bid on alternate specifications for cement plaster was submitted by Rosen & Fischel, Chicago, at \$257,300. Ochs' bid on the second alternate was \$258,017.

Rosen & Fischel bid \$268,800 on terra cotta specifications.

The structure is to be two stories and basement. Ralph Wyckoff, First National Bank Bldg., San Jose, is architect.

CAPITOLA FIRE LOSS \$150,000

Virtually the entire Capitola business district was destroyed by fire of unknown origin Wednesday morning, the conflagration threatening to wipe out the entire seaside town and causing \$150,000 damage.

The Hawaiian Gardens, dance pavilion owned by Mrs. Stella I. Wilson of San Jose, accounted for the greatest loss, amounting to \$50,000.

Other places burned included the Chinese Gardens, \$10,000; Case's restaurant, \$4000; Carl Sneath grocery, \$10,000 to \$15,000; Cuneo grocery, \$5000; Pacific Loan Investment Co., \$10,000; Blue and White restaurant, \$5000; Pertoculini building, \$10,000; Mug, Cox & McClintic pool room, \$4000, and Blue Bell restaurant, \$5000.

sions of the State Supreme Court upholding our Wage Law, Wage Collection Law, Prevailing Rate Law on Public Works and Law Prohibiting the Employment of Aliens by contractors and subcontractors on public works.

"However, certain changes have been found necessary in our efforts to make these laws as self-enforcing as possible so as to place the cost of administering them on those who violate them rather than on the tax-paying public. To this end we have offered to the legislature ten measures proposing changes in existing laws, which changes will be of great assistance to us in our efforts to secure a uniform compliance with the fifty-four labor laws delegated to our office for enforcement. We are offering no new regulatory legislation as we feel that the legislature already has its hands full with important problems confronting it but feel that existing legislation should be made as effective as possible as a matter of economy of administration and in fairness to the vast majority of employers who are complying with the laws as they now exist."

U. S. MORTGAGE LOANS URGED BY REALTY BOARDS

National Association Petitions For Modification of R.F.C. Authority

Reconstruction Finance Corporation action, under new authority, to ease the mortgage situation and aid in interest adjustment is asked by the National Association of Real Estate Boards in a resolution adopted by the delegate body of the association at its recent annual meeting in Washington, D. C.

Authorization is asked for direct R.F.C. purchase of first mortgages under proper safeguard, as well as for loans on mortgage collateral.

Extension of mortgages as well as interest adjustment is asked as a condition precedent to such purchases or advances in order to insure relief both to mortgage and to mortgagor.

The text of the resolution, as transmitted to the Reconstruction Finance Corporation and the finance committees of Congress this week, is as follows:

WHEREAS, we are now in an extraordinarily difficult financial crisis in this country, and,

WHEREAS, relief has been given to other industries by the Reconstruction Finance Corporation, and

WHEREAS, relief to the real estate industry and help in solving its financial problems is equally important to the welfare of this country,

NOW, THEREFORE, BE IT RESOLVED, that we recommend to the President and the Congress of the United States that the R.F.C. Act be amended to permit loans on and purchases of first mortgages subject to the following conditions:

A. That the R.F.C. be permitted to loan on or purchase first real estate mortgages subject to appropriate conditions and safeguards, such mortgages to be, or to be extended, for a term of not less than five years, and not more than fifteen years.

B. That the R.F.C. be empowered to require as a condition precedent to such loan or purchase, a reduction in the rate of interest on such mortgages of not less than one-third of that heretofore prevailing on such mortgages, so as to adjust the rate to the present prevailing values and earning capacities, and so as to insure relief and interest rate adjustment will be passed on to the mortgagor.

TO ORGANIZE TRADES COUNCIL IN MONTEREY

Plans for the establishment of a central labor council in Monterey county are being considered by representatives of organized labor Joseph M. Casey of San Francisco was the speaker at an initial meeting in Monterey Thursday night. The convention of the California State Federation of Labor will be held in Monterey in September.

REALTY SURVEY SHOWS EASTBAY HOME SHORTAGE

District Lacks 1000 Dwellings for Adequate Housing, Board Finds

The shortage of housing that has accumulated since building operations began to decline is shown graphically in a survey just completed by the Allied Eastbay Realty Boards.

A recent occupancy survey indicates approximately 101,900 single-family homes in the Eastbay cities between the Contra Costa line and the southern boundary of San Leandro. Of these more than 96,100 are occupied and 6780 house more than one family.

It is estimated that because of the small amount of new construction and repairs to existing structures in the last four years, more than five percent of the single-family homes now standing in the Eastbay are obsolete and undesirable. The conclusion of the realtors is that if families now doubling up in single-family dwellings were to separate there would be a shortage of 1000 homes.

Detailed analysis of the reports from each of the twenty general geographical areas into which the Eastbay is divided for the purposes of survey, is being made and will be published by the realty boards. Preliminary figures disclose the following:

	per cent of homes occupied	per cent by more than one occupied family
San Leandro	95.2	5.2
Elmhurst	83.0	5.8
Fruitvale	94.7	8.0
Brooklyn	96.0	7.7
North of the Lake	96.7	2.7
Piedmont	95.9	6.0
North Oakland	96.8	10.8
Emeryville	95.0	7.0
West Oakland	91.1	14.1
S. Central Oakland	92.1	40.0
N. Central Oakland	92.9	28.0
South Berkeley	95.6	8.0
Elmwood	96.8	8.1
North Berkeley	95.0	2.3
Albany	94.1	4.9
West Berkeley	94.8	5.2
East Alameda	96.5	5.0
Park Street	97.7	4.5
Central Alameda	93.0	2.0
West Alameda	93.8	6.0

Tabulation of the data for 1933 in comparison with that of 1932 and 1931 is now being made by the Oakland Real Estate Board for distribution to Eastbay realtors and builders. It will show for each year and for each of the twenty districts the total number of single-family homes, the number occupied and the number of homes occupied by more than one family.

APPOINT MANAGER

Frank L. Robinson has been placed in charge of the Oakland branch of L. H. Bennett Company, Ltd. He succeeds W. D. Robers who will become sales manager in Sacramento.

FIRST CARLOAD OF CEMENT STARTED TO GATE BRIDGE SITE

Marking the start of quantity delivery of materials to the site of the Golden Gate bridge, the Pacific Portland Cement Co. shipped a carload of Golden Gate cement from its Redwood City plant to bridge contractors Saturday.

Approximately 1,800,000 sacks of cement will be used in construction of the bridge, according to quantity estimates.

\$50,000 WILLED FOR MONTEREY CITY HALL

A fund of \$50,000 is available for construction of a memorial hall of records for the city of Monterey, the city council has been informed by administrators of a bequest to the community to finance the structure.

Architects W. O. Raiguel and C. J. Ryland have been engaged to design the hall. W. G. Hudson, administrator of the estate, said. The building is being provided under the will of the late Agatha M. Few, who directed that a city hall of records be built as a memorial to her husband, the late Chas. R. Few.

The building is to be in mission style of architecture. It probably will be arranged to house the offices of city manager, city clerk and assessor, city engineer and city auditor.

LeTOURNEAU MARKETS NEW LOGGING UNIT

R. G. Le Tourneau, Inc., have just placed on the market a new logging type cable power unit, which, beside providing the operator with a high-speed power drum for handling cable-controlled machinery such as a bulldozer, cow-dozor or rooter, affords him a heavy drum for tough pulls, pulling stumps, bunching logs, logging short shows, etc. The new unit fits all large tractors.

The two drums can be operated independently, either while the tractor is in motion or standing, and both lines run through fairleads which enable them to pull in any direction regardless of how the tractor is headed. The large drum handles 580 feet of 3/4-inch cable; the small drum 920 feet of half-inch cable.

All shafts are heat-treated nickel steel; gears are case-hardened nickel-steel and run in oil, bearings are high duty Hyatt and Timken. The brake has a patented feature which permits the drum to spin absolutely free when the lever is thrown to release position but automatically grips when the clutch is released.

CERTIFICATE ISSUED

The Board of Architectural Examiners, Northern District, has announced the issuance of a provisional certificate to Donnell E. Jaekle, 714 Call Bldg., San Francisco.

HIGHWAY ASSN. URGES FEDERAL AID CONTINUE

Construction Most Effective To Employment Officials Declare

"Highway construction is the most effective job creator among public works. For that reason federal aid for roads assumes an importance warranting immediate action by Congress."

This is the view expressed in a statement received by the California State Automobile Association from C. H. Moorefield, president of the American Association of State Highway Officials, discussing the relation of highway construction programs to the unemployment situation. The statement continues:

"Highway work offers a distribution of labor perhaps unequalled by any other large industry. The United States Bureau of Public Roads learned in a thorough study that ninety cents of the road dollar goes to labor.

"State highway programs, aided by federal appropriations, in 1932 provided employment for more than 333,000 men directly on roads. This figure is taken from contractors' payrolls. Another 660,000 men were kept busy supplying materials and equipment. With dependents, state road building gave a means of livelihood to at least 4,000,000 people.

"Highway building brings to the people the country over something they need and something which does not have to be sold before used. For these reasons, highways have been given first rank as a provider of jobs.

"Immediate action should be taken by Congress on Federal Aid authorizations for the next two fiscal years, as the current authorization ends July 1. This done, the states can lay plans to proceed with their full 1933 programs and men can resume their jobs. Then the country will have at least one large industry proceeding in its normal course."

Commenting on this statement, the Automobile Association declares that the employment phase of highway construction applies with equal force an argument against attempts pending in this state to divert gasoline tax revenues from the highway fund.

CITY MAY ACCEPT FIREHOUSE LOAN

Legality of the contract whereby the Sacramento Firemen's Benefit Association will lend \$12,500 to the city of Sacramento for construction of a firehouse has been upheld by a decision of Superior Judge Peter J. Shields.

No further steps toward construction may be taken under the contract, however, for sixty days, during which period an appeal from the court's decision might be filed, according to City Manager James S. Dean.

Steel Executive At Del Monte Meeting Predicts Expanded Demand For Metal In Future U. S. Building Construction

Steel piers, steel foundations, steel walls, steel floors, steel residences are ready for the market. They will be cheaper and will make for better construction, declared Charles F. Abbott of New York, executive director of the American Institute of Steel Construction, in an address before the Ninth Annual Conference of the Iron, Steel and Allied Industries of California at Del Monte, Feb. 9. Mr. Abbott said that these improvements in steel construction, developed from the intensive research of the past years of the depression, represent the industry's program to bring its business back to a prosperous basis.

"Human nature is weak and human beings require the spur of hard times to force them to improved positions," said Mr. Abbott. "It is for that reason that the greatest industrial improvements are designed and planned during periods of business depression. Through a greater knowledge of the nature of our raw materials and by means of improved knowledge of the methods of utilizing them we can make structural steel render a greater service than ever before. We can remake or rebuild our entire world.

"Scientific research and invention will bring into existence new industries that will surpass any that we have as yet promoted. This development will be vast and magnificent. It will be a period of far greater opportunities and those who have the will to conquer will benefit the most.

"The development of air-conditioning is bringing into view a new industry of great possibilities. It will not be long before we shall be able to inhabit homes, offices and hotels with rooms of even temperature throughout the year and with better and more healthy ventilation.

"The largest air-conditioning system in the world, involving more than a million dollars, will be installed in the broadcasting studios and the lower floors of the new 69-story RCA Building in Rockefeller Center, New York. It will maintain an average temperature of 70 degrees Fahrenheit in winter and a maximum of 85 degrees Fahrenheit in summer. Humidity is to be varied between 40 per cent in winter and 50 per cent in summer. Carrier Engineering Corporation has the contract.

ces in the remainder of the building. "Maxim-Campbell silencers and air filters will be installed in offices in the remainder of the building.

"Here in the West you have the opportunity to erect buildings with complete systems of air-conditioning. In the thickly populated East we have, unfortunately, inherited

many obsolete structures which must be replaced, and in which the need for air-conditioning will manifest itself.

"Engineers have gained valuable experience in this field. It is much cheaper to install air-conditioning than ever before. We are demonstrating that residential units are quite economical and can be sold to home owners in the relatively low income brackets.

"The steel construction industry represents a good example of a planned future. It is an industry that presented many difficulties to any program of readjustment. It produced steel for the erection of buildings and bridges. In the past it waited until the customer presented plans and specifications. There was little or no application of creative selling. Its destiny rested with those who wanted to use steel.

"On the Pacific Coast you have already started to use H-columns for piling. During the past year some interesting tests have been made and considerable technical data has been assembled. The industry will soon be prepared to issue to the engineering profession the essential tables to enable them to design H-column footings for buildings and bridges. That will make for great savings and result in greater security for future structures. The day will come when steel will be the foundation, superstructure and roadway of bridges and buildings.

"Ten years ago the total requirements of fabricated structural steel consumed about one-third of the total capacity of the industry. The American Institute of Steel Construction was organized to promote a program of research and market development and to coordinate technical and industrial standards. In 1929, seven years later, the shipments accounted for over two-thirds of the industry's facilities and had it not been for the depression it is possible that demand would have equalled the full capacity. That would have been an ideal condition for any industry.

"Under the auspices of the Institute a yearly bridge competition was inaugurated with awards for the most beautiful steel bridges erected during each year. This competition inspired the design of more beautiful steel bridges to adorn our highways. They caught the eyes of an appreciative public with the result that more steel bridges were needed to supply this newly created demand. More steel was used as a result of this simple but effective method of expanding an existing market.

"A new system of fireproofing the steel used in our buildings will greatly reduce the cost of struc-

tures and this means lower rentals and lower service charges for the public. As we reduce our costs we automatically extend our markets.

Three years ago the Institute began a study of steel floor construction. A design of steel plates welded to I-beams was proposed. Before the necessary engineering data was even completed some 50,000 tons of plates had been used for garages, warehouses and office buildings. Tests have been made for strength, fireproofing and sound-conductivity, under the auspices of the U. S. Bureau of Standards, and they have exceeded all expectations.

"The steel floor today is an established reality. Its widespread use would be an incident to business recovery. So promising is this technical improvement to the building industry that a number of patented types of steel floors are now being promoted.

"The Carnegie Steel Company is offering the T-Tri-Lock floor. Its use is adaptable to bridge floors and approaches which are subjected to heavy usage. Engineers of the Belmont Iron Works of Philadelphia, have designed a floor of interlocking channels. It has been successfully used in the rebuilding of a number of bridges necessary to withstand an increased traffic load. It has been incorporated in pier floors and warehouse storage sheds.

"The H. H. Robertson Company of Pittsburgh, is putting on the market a cellular steel floor, which it is claimed, is ideal for buildings for human occupancy.

"It is possible that there will be others on the market. Sufficient has already been developed to demonstrate the great improvement in floor construction that is now possible. They will permit of unit construction in the shop and rapid assembly in the field. The lighter construction will represent a considerable saving both in the dead weight of the completed building and in ultimate cost.

"Buildings with steel outer walls displacing the heavy and costly masonry have been perfected. This new type of construction will add further cost reductions and when used for apartment houses the public should be able to obtain reduced rentals.

"The development of steel floors for buildings and residences represents a new market that could call for more than 5,000,000 tons of steel. Better floors at lower costs would add greatly to superior and more economical structures.

"Steel highway roadguards have been perfected and they are the only type that will keep automobiles and trucks from going off the road. When the public become acquainted with these life-saving inventions they will undoubtedly be installed to guard the dangerous places on all of our highways.

"These and other accomplishments demonstrate the possibilities of a constantly increasing business which should eliminate the in-

tense competition and price-cutting that we always experience whenever the supply exceeds the demand.

"The estimated potential market for the new uses of steel as so far developed and found to be practical, would undoubtedly exceed 20,000,000 tons if these new markets were fully developed.

"This represents a volume five times the present combined production of the steel construction industry.

"We must not forget, however, that research, new uses and new markets will fail completely unless the public are first acquainted with and educated to all of the advantages. Their acceptance must first be obtained before a demand can exist. Orders never happen, they must be stimulated by conviction and this calls for intelligent advertising, promotion and aggressive salesmanship.

"The financing of such an undertaking should be based upon the volume of business that it is possible to obtain and with appropriations made in sufficient yearly amounts to insure continuity.

"The progress of all business will depend as never before upon more intensive studies of markets with practical plans to meet new requirements. The cultivation of new markets and the expansion of existing markets, will be the aim of management."

BOSTON ARCHITECT GETS MEDAL IN HOMES CONTEST

San Franciscan Wins First Honorable Mention In 2-story Class

Royal Barry Wills, Boston architect, has been awarded the gold medal for the prize-winning design in the Small House Architectural Competition for 1932, it is announced by the American Institute of Architects.

President Hoover, the honorary chairman of better Homes in America, which sponsored the contest, will present the medal to Mr. Wills at the White House at 12:30 P. M., on Wednesday, February 15. Mr. Wills won the medal for designing the home of Maurice A. Dunlavy at Brookline, Mass. Seven architects, among them Miss Elisabeth Coit of New York, were given honorable mention by the Jury of Award, of which Dwight James Baum of New York was chairman.

"The house submitted by Mr. Wills," the jury said, "shows great charm, expresses the spirit of the locality in which it is built, has a fine scale and composition and shows a good use of materials. It has an air of domesticity and shows great care in the manner in which

all detail has been brought together.

"There is a good, frank use of chimneys and a fine handling of the entrance terrace. The plan is compact and well arranged. There is a fine relation of rooms, combining with economical and efficient circulation. The library is arranged with real privacy. The service portions are well arranged. The second floor hall occupies the minimum amount of space and yet this small house has ample sized rooms. The award is in the one and a half story class."

Honorable mention in the same class went to Charles S. Keefe, New York architect, for his design of the house owned by John J. Farrell of Darien, Conn.

"The house," the jury commented, "is a fine handling of a small structure and shows good proportions and simple mass. The house will be easy to take care of through its simple, straightforward layout. The materials are of the simplest and well used."

In the one story class honorable mention was placed first for the residence of Leland F. Fuller of Santa Monica, Calif., who is both the owner and the architect. Honorable mention also was awarded in the one-story class for the house of Dr. Seeley G. Mudd in Sandyland Cove, Santa Barbara County, Calif., by Ralph C. Flewelling, architect of Beverly Hills, Calif.

Honorable mention placed first in the two story class went to the home of Dr. Alister Mackenzie, near Santa Cruz, Calif., which was designed by William Wilson Wurster, architect of San Francisco.

"This design," the jury declared, "shows a freshness that is noteworthy and most distinguished. This is a fine solution of a special problem. A house of this quality and size would still look well if placed amid larger dwellings."

Honorable mentions in the two story class also were given to the home in Newtown, Conn., designed by William Webb Sunderland, architect of Danbury, Conn.; to the home of Rollin C. Chapin, owner and architect, of Minneapolis, and to the home of Miss Anna B. Van Nort of Croton Heights, N. Y., designed by Miss Elisabeth Coit of New York.

"This home," the jury said of Miss Coit's design, "shows domesticity and real charm and fits its rugged country site very well. It is another simple, straightforward plan, except for the different floor levels on the first story."

The jury noted that only one design of radical modern architecture was submitted, indicating that the traditions of our country's domestic architecture are being continued and improved yearly by the contributions of architects in all part of the country."

Besides Mr. Baum, winner of the gold medal last year, members of the Jury of Award, all of the American Institute of Architects, were Edward Livingston Palmer, Jr., of Baltimore; Horace W. Peaslee of Washington, D. C.; Philip N. Stern of Fredericksburg, Va.; and Waddy B. Wood of Washington, D. C.

University Laboratory Completes Study Of Concrete Wall Panels In Building

Information is greatly needed at the present time as to the relations between the physical properties of walls and those of the building units and mortar used, particularly as a basis for specifications for concrete building units. The investigation reported in Bulletin No. 251 of the Engineering Experiment Station of the University of Illinois was designed to determine what factors influence masonry strength, and to give further information as to the essential properties to be specified for hollow concrete building units.

The major part of the investigation was carried on from January to May, 1931, at the Materials Testing Laboratory of the University, in cooperation with the Portland Cement Association, Chicago, Illinois, and the Concrete Masonry Association, Milwaukee, Wisconsin. A second group of tests of walls made with concrete tile units was conducted in May and June, 1931, in cooperation with the Western Brick Company, Danville, Ill.

The tests were planned primarily to furnish information on the behavior under load of wall panels of sufficient size to represent story-height building construction; with this in view a panel 6 ft. long and about 9 ft. 6 in. high was chosen. Small panels, or wallettes, 32 in. long and 48 in. high, were also used to determine whether or not they could be established as representa-

tive test specimens for masonry walls, and, if so, to determine the correction factor to be used with wallette strengths to make them directly comparable with the values from the large panels. The main group of test panels was planned for a compression test with a uniformly applied axial load; four lots of walls were also tested to furnish information on the strength of walls eccentrically loaded; and to secure data on the flexural strength of the various types of walls a large panel of each lot was subjected to a bending test.

Among the conclusions drawn from the results of these tests are the following:

(1) The compressive strengths of the large wall panels were dependent mainly on the strength of the concrete building units, and were little affected by variations in the quality of the mortar used.

(2) The ratio of the compressive strength of large walls to that of the three-core units used was found to be quite well defined, with an average value of 0.53, when full mortar beds were used.

(3) The ratio of the compressive strength of large walls to that of corresponding wallettes was fairly constant, with an average value of 0.91.

Copies of Bulletin No. 251 may be obtained without charge by addressing the Engineering Experiment Station, Urbana, Illinois.

Industrial Association Publication Charges Prevailing Wage Legislation Encouraging Unscrupulous Practices

Wholesale evasion of the California state law and local ordinances regulating wages paid on public works contracts is charged in an article appearing in the current issue of "The American Plan" distributed yesterday. This is the official organ of the San Francisco Industrial Association.

That practices of unscrupulous contractors in successfully escaping the prevailing wage law are notorious, the article asserts.

After reviewing the history of wage legislation in the state and city of San Francisco, the article continues:

Hardly had the ink dried on signatures approving the final form of these laws before it became evident that the purposes for which the legislation had passed would not be achieved for the legitimate contractor and the decent workmen, it provided rather a cloak behind which the unscrupulous contractor could hide his practices. In spite of the sincere efforts of various enforcement authorities to secure the observance of the law, it is safe to say that in many communities and in many instances it has become a dead letter, that the only contractors who are scrupulously following it are those who would scrupulously observe any conditions laid down whether there were a prevailing wage law or not, and that the occasional contractor against whom the penalties imposed under the act are set—and these penalties may be heavy, running as high as \$10.00 per man per day in case of non-observance of the provisions—is rather the exception than the rule.

"When effort is made, however, to carry the operation of the law into work performed in shops it has, without exception, either tended to deny entirely to the legitimate manufacturer an opportunity to participate in local undertaking or has, in too many instances, driven him to resort to circuitous practices in order to circumvent the law.

"One example will suffice to illustrate the complete unfairness of the prevailing wage laws as applied to shop operations. In one craft San Francisco manufacturers, with large local investment and pay rolls and paying heavy taxes to the city, hid against an Eastern competitor for important material for one of the recent jobs completed in the Civic Center. The local manufacturers were held to the wage rates established in the prevailing wage act for their shop operations. The Eastern competitor, however, who were notorious for the payment of extremely low wages in his plant operations and who was neither a local employer of labor nor a local taxpayer, was able to secure the contract for the manufacture of this material, in spite of an adverse freight rate, at

a price considerably below that for which local manufacturers could possibly take the work. In this instance the only result of the prevailing wage law was to deny to local workmen the right to secure an opportunity to obtain a living from money supplied by the taxpayers of San Francisco and to prevent local manufacturers from securing some recognition for the heavy investment which they had made in this community.

"Had the prevailing wage law merely had an adverse effect upon the operations of manufacturers, that would have been serious enough, but unfortunately the prevailing wage statutes have tended to tempt some contractors employing men on the job itself to resort to devious practices in order to escape the plain provisions of the law and to avoid the obligations they assumed when taking the contract. Under the conditions prevailing at the present time, with employment difficult to obtain, workmen, of course, are loath to complain against conditions that they find on the job, and while they may be willing and ready privately to discuss and describe the methods employed by contractors in evading the prevailing wage act, they will, all too frequently, refuse to testify against a contractor for fear of prejudicing their own future economic status.

"It is a matter of common knowledge, however, both among those who favor and those who oppose the act, that contractors engaged on public works operations have, in many instances, resorted to a variety of crooked and illegal devices in order to avoid paying the prevailing scale on public works. One of the favorite methods employed is that of the labor contract. Under this arrangement a contractor agrees with a group of men that they will perform the work called for at a stipulated total sum, the contractor himself providing

the necessary materials, heavy tools, and equipment.

"Jobs taken on such a basis almost without exception are contracted for at a rate, which, when divided among the workers at the end of the job, produces a daily wage far below that paid to men employed at the regular per diem basis. Because of the vulnerable position of the mechanic on a labor job the employer invariably profits on any extra work called for, as he is usually able to force mechanics to include the extra work in the lump sum price at which they agreed to perform the labor operations on the job.

"Other devices which have been employed by contractors in order to evade the prevailing wage law include outright rebating by the men to the contractor; the organization of special clubs with exorbitant dues, membership in which is required before employment on the job can be obtained; and the sale by the contractor to the workmen of necessities on the job at a price far in excess of their true value, thus securing the equivalent of a rebate.

"On one large public job operated under the prevailing wage law in the Bay area it is a matter of common knowledge that a sub-contractor on the job required his workmen to join what he was pleased to call a "Service" club, the dues for which were \$5.00 per day. As these men were among the highest-paid mechanics on the job, they were still receiving more than half of their weekly wages after they had paid club dues each Monday morning. But the final result of the prevailing wage law as it operated on this job was to permit an unscrupulous contractor to take this work from the best of his competitors and to secure the job as the result of his ability to force those working for him to take out memberships in his fictitious club arrangement.

"Another favorite device employed by the unscrupulous contractor under the prevailing wage act is to sell box lunches to workmen at exorbitant prices, charging anywhere from eight to twelve times the going rate. Refusal to purchase one of these box lunches is, of course, the equivalent of securing one's immediate discharge. It

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is in connection with the determination of prevailing wages, however, that a still different aspect of the situation enters the picture.

"Almost without exception prevailing wage rates are determined by legislative bodies, and since legislative bodies are subject to political influence, pressure of every conceivable sort is brought to bear upon city councils, school trustees, boards of supervisors, and similar groups in an effort to force them to set a scale of wages higher than the actual prevailing wage in effect. Since the purpose of the act was to insure to workmen employed on public projects that they would not be paid less than the generally recognized prevailing scale of wages in private work, it could ordinarily be assumed that the rates prevailing on private work and generally accepted and observed would constitute the guide from which public bodies would find the prevailing rates for the same crafts on public employment. This, however, is anything but the actual case.

"As a matter of fact, almost without exception, public authorities are requested, threatened, urged and cajoled to set a scale of wages for employment on public projects materially higher than those generally recognized and prevailing on private work. All too frequently, therefore, the wage rates as set by public agencies are not in any literal or factual sense the prevailing scale of wage in the political subdivision where the work is to be performed in accordance with the provisions of the statutes, but are, instead, a political or fictitious wage which complaisant public authorities are willing to establish for fear of political reprisals should they find otherwise.

Further than this the most dubious logic is employed in urging the setting of such higher rates. Since most of the prevailing wage enactments were passed in 1931 and since in most jurisdictions wages at that time had not reflected the general decline in prices, the wage scales as originally established usually carried over the peak scales for all crafts. When subsequent determinations were to be made, these scales were pointed to as the prevailing scale, since they were the scales actually being paid on other public jobs which had been let under the original determination. For example, it is argued that because in 1931 the wages for Craft A on public work were set at \$10.00 per day, even though since that time they have been reduced by twenty per cent, the fact remains that public jobs are still operating under the original determination, and it is argued therefore that \$10.00 should be set forth as the prevailing scale of wages under a new determination. Logically and practically, of course, this leads to the absurdity that irrespective of the subsequent course of wages a wage scale once established is established in perpetuity. Only the Federal Government has avoided this dilemma by refusing to set forth the scale of wages to be paid in its specifications and contracts, permitting the contractor to take advantage of re-

ductions during the period of operations or requiring him to pay increases should any take place.

"The only result, of course, which the establishment of these excessive rates has achieved is to force upon the alreaday overburdened taxpayer the burden of the load of excessive and artificial labor costs on such public undertakings as may be launched. Such excessive rates have an adverse effect which is all too frequently overlooked. Through payment of excessive costs on some undertakings, a lesser total volume of work can be launched and only those workmen who are fortunate enough to secure employment at the highest rate—provided they are also fortunate enough to work for an honest contractor—secure the benefits, while other workers who might be employed on other projects are denied employment and to that extent may fall upon the emergency relief rolls of the community. The taxpayer, then, not only is required to put up more money than normally would be required to complete a particular project, but, in addition, has to carry the excess burden of caring for some of those who might otherwise be employed, through his contributions to the support of relief funds.

"Offered with the best of intentions and designed primarily to serve a commendable purpose, prevailing wage statutes as a whole have failed entirely to meet the purpose for which they were drawn, have tended to increase materially the cost of public works, have required taxpayers to pay out excessive sums at a time when tax payments are the most burdensome and have served as a standing invitation to crookedness, chicanery, graft, collusion, and exploitation, have operated adversely against the interests of local manufacturers, have favored unscrupulous and illegitimate contractors as against contractors more reputable in their employment relations, have placed a premium on the discovery of circuitous devices for cutting wage scales, and have, if anything, increased the burden of unemployment and thus thrown a still heavier load on the taxpayer.

"Those who originally introduced this legislation are, however, still pointing with pride to its success and in many instances propose to go still further in the application of the law. It is reported, for example, that efforts will be made at the present session of the California Legislature to secure amendments to the act which will secure its application not only to employment on the job but to all shop employments as well, and it is probable that other amendments will also be offered which would tend still further to magnify the inequalities and unfairness which the present act has created. California contractors and California manufacturers would do well to give serious consideration to whether they wish to be placed in a still more unfavorable position in the present unstable and profitless market through additional and more onerous amendments to the prevailing wage law and might well give serious consideration to the question of complete repeal."

SPECIAL MEETING OF A.G.C. CALLED

Members of the Associated General Contractors, Northern California Chapter, have been called to a special meeting in San Francisco on March 3, George Pollock, president, has announced.

A campaign for members will be climaxed with the gathering.

"In view of the importance that the Bay region has assumed because of the proposed construction of the San Francisco-Oakland Bay Bridge and other projects under way, this seems a very opportune time to point out to a number of firms that are not now affiliated with the chapter the desirability of such affiliation not only for the purpose of supporting the work that the chapter is carrying on, but in addition to furnish a channel through which negotiations regarding such important construction projects may be carried on in behalf of all contractors," said Pollock.

According to Floyd O. Booe, Secretary-Manager of the Northern California Chapter, the work of this group will be coordinated with the aggressive campaign which is now being carried on by the Southern California Chapter at Los Angeles in opposition to the spread of the day labor movement in public works construction and to the education of the public to the important position occupied by the contractor in the business world.

BIDS ASKED FEB. 28 ON MACHINERY FOR COLORADO AQUEDUCT

Bids will be received by the Los Angeles Metropolitan Water District, February 28, on machinery for use in construction of the Colorado river aqueduct.

Items to be purchased include air compressors, storage battery locomotives, motor generator sets, mucking machines, power shovels, dump cars and air receivers. Alternate prices will be taken on various quantities and for furnishing within specified date.

A charge of \$2 per set, not returnable, is made for specifications which are available at the district offices, Room 1004, 306 West Third street, Los Angeles.

GENERAL PAINT LOSS \$291,129

General Paint Corporation has reported a loss of \$291,129 after all charges for 1932, compared with a loss of \$214,132 in the preceding year.

Sales during the year totaled \$2,266,463 as compared with \$3,972,972 in the previous year, C. H. Jones, president, reported.

Twenty-one electric trucks and tractors were shipped by the ten leading manufacturers during January, according to reports to the Bureau of the Census. This compares with 19 units shipped in December and 29 in January, 1932.

FARM MARKET FOR LUMBER IS ANALYZED

Forest Industries Estimate Repair Requirements On Rural Buildings

That the farm field is providing one of the best lumber markets is emphasized in a comprehensive report of the American Forest Products Industries, Inc., made recently by its Agricultural Engineer, C. F. Miller. This report points out that

(a) On some 6,000,000 farm units there are \$12,000,000,000 worth of buildings annually needing ordinary repair and replacement work.

(b) The "Back to the Soil Movement" is creating additional demand for new farm construction and repair and replacement work.

(c) All farms are not "broke." Fifty-eight percent of the owner operated farms in the United States are free from mortgage indebtedness.

It shows how much lumber the farmer needs per year, the type of work being done by Federal, State and other agencies which influence from construction and discusses in detail the use of lumber, concrete, brick and other materials in farm construction. It gives evidence of new construction on farms, particularly in the Middle West. It discusses costs of farm building at the present time. It speaks in some detail of plans for farm structures and gives briefly the high spots of recent farm lumber promotion activities. It closes with a small but valuable list of outstanding farm buildings bulletins and plans available from other than commercial companies.

"To house 32,000,000 rural people," says the report, "to shelter 200,000,000 farm animals; to protect 700,000,000 fowls from changing temperatures; to have storage space for hay, grain and other feeds to be used in caring for this livestock and poultry; to provide storage space for fruits, vegetables and other foods grown and consumed on the farm; to protect an enormous investment in machinery and equipment; and to provide temporary and permanent storage or handling facilities for practically all foods to be ultimately consumed in the United States, with from 8 to 10 percent surplus for exportation, is a housing and storing problem of the first magnitude."

SALINAS COMBINATION BID IS CONTEMPLATED

A combination of Salinas contractors has been proposed to enter a joint bid for construction of the postoffice in that city.

Postmaster Wm. J. Martin suggested that local interests organize to bid on the general contract. An appropriation of \$123,000 is allocated for the building. The architect has not been selected as yet, although City Engineer Donald Davies, Jr., has been asked to furnish the treasury department with a topographical survey of the site.

FEDERAL BUILDING PROGRAM OUTLAY NOW \$493,000,000

According to American Forest Products Industries, the government building program now covers a total of \$493,000,000 out of a total authorization of \$700,000,000.

The projects that have been completed total \$98,000,000 and 281 different buildings. Under contract are 419 projects representing expenditures of \$330,000,000. In addition, sites have been purchased in the District of Columbia aggregating \$28,000,000 and sites have been selected elsewhere and various degrees of progress have been made toward the consummation of 72 projects at a cost of \$21,000,000. In addition some progress has been made toward the realization of approximately 50 projects, totalling about \$16,000,000.

TARRANT GIVEN STOCKTON POST

Julian W. Tarrant, city planning engineer, who has been with the firm of Harlan Bartholomew and Associates, has been appointed assistant city engineer for the Stockton City Planning Commission. Tarrant has been in Stockton for the past three years working on the city plan which Bartholomew contracted to prepare for Stockton.

CONSTRUCTION LEADER HEADS L. A. CHAMBER

William A. Simpson, a leader in the construction industry of the southwest, has been elected president of the Los Angeles Chamber of Commerce. The William Simpson Const. Co., of which he is president, has built many of the principal structures in Los Angeles and San Diego. Simpson is a former president of the Southern California A.G.C.

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UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

COLO. RIVER AQUEDUCT WATER SYSTEM—MET. WATER DIST.

LOS ANGELES, Cal.—As previously reported, the lowest figure submitted to the Metropolitan Water District Feb. 15, for constructing a water supply system and reservoirs for the Colorado River Aqueduct was a combination of the bids of Clark & Campbell and A. J. Callahan, 3416 W Slauson Ave., bidding jointly, on Schedule No. 1 at \$12,392.50, and Ray Schweitzer, 2415 E 9th St. on Schedule No. 2, at \$27,183. The total of these two bids is \$39,575.50.

These were the only two bids which stipulated the bids on the separate schedules could be considered singly. Neither firm bid on Schedule No. 3.

Macco - Robertson, Ltd., 815 Paramount Blvd., Clearwater, submitted the lowest bid on Schedule No. 3 (the reservoirs) at \$17,384.

The complete bids were:

(A) Clark & Campbell and A. J. Callahan—Schedule No. 1 \$12,392.50; Schedule No. 2, \$33,724.90; Schedule No. 3, no bid. No stipulations.

(B) Ray Schweitzer—Schedule No. 1, \$15,108; Schedule No. 2, \$27,189; Schedule No. 3, no bid. In the event the bid on combination of Schedules 1 and 2 is the lowest bid of any other such combinations, bidder requests that such bid be used as a combined bid only, and in the event bidder's combination bid is not lowest, the bid on either Schedule 1 and 2 may be used individually to form a combination with any other competitive bids submitted.

(C) Macco-Robertson, Ltd.—Schedule No. 1, \$13,610; Schedule No. 2, \$30,944; Schedule No. 3, \$17,384.

(D) Winston Bros. Co., 418 S Pecan St.—Schedule No. 1, \$13,610; Schedule No. 2, \$26,365.70; Schedule No. 3, \$23,640. Will accept a combination of 1 and 2 only, or 1, 2 and 3. Will not accept schedules singly or in other combinations.

(E) Kemper Const. Co., 3701 Overland Ave. and Lang Transportation Co., 5501 Santa Fe Ave.—Schedule No. 1, \$14,619; Schedule No. 2, \$26,545.18; Schedule No. 3, no bid. Will only accept Schedules 1 and 2 together.

(F) Lynch-Cannon Engr. Co., 5658 Wilshire Blvd.—Schedule No. 1, \$14,577.70; Schedule No. 2, \$36,539.75; Schedule No. 3, \$20,826. No stipulations.

(G) Max Winter, Jr., 2404 W 7th St., and A. D. Chalmers, 2925 Knox Ave.—Schedule No. 3 only, \$18,000.

(H) Gibbons & Spicer, 805 Edwards-Wildley Bldg.—Schedule No. 1, \$20,165; Schedule No. 2, \$28,728.40; Schedule No. 3, \$18,060. Will accept combinations of Schedule 1, or 1 and 2, or 1, 2 and 3, or 1 and 3. Will not accept Schedule 2 or 3 singly, or 2 and 3.

(I) American Concrete & Steel Pipe Co., South Gate—Schedule No. 1, \$16,981; Schedule No. 2, \$31,543.50; Schedule No. 3, \$20,120. Will only accept 1 and 2 together, or 3 singly.

(J) Marko Mattick, 1436 W 51st St.—Schedule No. 1, \$25,627.50; Schedule No. 2, \$32,439; Schedule No. 3, no bid. Will accept only combination of 1 and 2.

(K) Guy F. Atkinson Co., 925 Story Bldg.—Schedule No. 3 only, \$29,212.

(L) Geo. Rowland, 143 E 69th St.—Schedule No. 1 only, \$21,276.

(M) Lindgren & Swinerton, Inc., 529 Pacific Mutual Bldg.—Schedule No. 1, \$27,087; Schedule No. 2 \$33,096; Schedule No. 3, \$22,332. Will accept only 1 and 2 in combination; 3 only if awarded 1 and 2.

The schedules and items follow:

SCHEDULE NO. 1

Excavating and backfilling trench for Sections 3, 4 and 5 of the construction water supply system.

- (1) 437,000 lin. ft. trench excav. and backfill not in excess of 30-in. depth;
- (2) 500 cu. yds. trench excav. deeper than 30-in.;

SCHEDULE NO. 2

Hauling and stringing gas line pipe, welding joints, testing and lowering pipe and for connecting valves and fittings for Sections 3, 4 and 5 of the construction water supply system.

- (3) 51,000 ton-miles haul and string pipe;
- (4) 260 joints welded joints in 13.23 lb. 8-in. pipe;

- (5) 80 joints welded joints in 14.64 lb. 6-in. pipe;
- (6) 2400 joints welded joints in 8.6 lb. 6-in. pipe;
- (7) 8300 joints welded joints in 6.96 lb. 5-in. pipe;
- (8) 446,000 lin. ft. test and lower pipe
- (9) 2 8-in. line valves, to be installed
- (10) 8 6-in. do;
- (11) 22 5-in. do;
- (12) 6 4-in. branch outlets, to be installed;
- (13) 38 3-in. do;
- (14) 7 1-in. outlets, to be installed;
- (15) 120 timber A-frames, furnish and erect;
- (16) 15 rock anchors, furnish and erect
- (17) 10 m. sq. ft. of pipe, to be painted

SCHEDULE NO. 3

Constructing six 300,000-gallon reservoirs for Sections 3, 4 and 5 of the construction water supply system.

- (18) 6000 cu. yds. reservoir excav.;
- (19) 5800 cu. ft. Gunite lining in reservoirs;
- (20) 6 roofs for reservoirs.

The proposed work is located in San Bernardino and Riverside Counties, Calif., along the line of the aqueduct and with the exception of one reservoir, is located between a point in Sec. 13, Twp. 1 S., R. 18 E., which point is approximately 12 miles west from Rice Station on the Phoenix branch of the A. T. & S. F. Railway, and a point in Sec. 28, Twp. 5 S., R. 9 E., S. B. B. & M., the latter point being approximately ten miles east of Indio. The one reservoir is located in Section 7, Twp. 3 S., R. 6 E. The work to be contracted for consists of excavating a trench, hauling and stringing pipe, welding joints, testing and lowering line of pipe, backfilling the trench, connecting valves and fittings, and performing appurtenant work for the construction of 85 miles of 5- 6- and 8-in. pipe line, together with the construction of six 300,000-gal. Gunited reservoirs. All materials with the exception of the pipe, valves, and fittings, are to be furnished by the contractor.

The unit bids were:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)
Sched. I (1)	\$0.275	\$0.034	\$.03	\$.03	\$0.032	\$.0325	\$.....	\$0.045	\$.038	\$0.0575	\$.....	\$0.048	\$0.061
(2).....	.75	.50	1.00	1.00	1.27	.75	.....	1.00	.75	1.00	.....	.60	.86
Sched. II (3)	.165	.12	.09	.09	.10	.15	.....	.15	.13	.16	.....	.089	
(4).....	1.60	1.60	2.65	1.50	1.78	2.65	.....	1.54	1.95	1.80	.....		2.40
(5).....	1.60	1.26	2.25	1.30	1.78	13.40	.....	1.50	3.00	1.70	.....		2.30
(6).....	1.30	1.26	1.85	1.20	1.35	1.84	.....	1.35	1.50	1.50	.....		2.20
(7).....	1.15	1.16	1.70	1.10	1.14	1.69	.....	1.25	1.41	1.35	.....		1.81
(8).....	.015	.0125	.01	.016	.013	.012	.....	.01	.015	.015	.....		.011
(9).....	20.00	11.85	15.00	12.00	12.70	12.00	.....	10.00	7.50	10.00	.....		15.00
(10).....	18.00	10.00	12.00	10.00	10.16	9.00	.....	9.00	7.10	9.00	.....		14.00
(11).....	15.00	9.00	10.00	8.90	8.90	8.00	.....	9.00	7.00	8.00	.....		13.00
(12).....	7.00	4.50	10.00	5.75	6.35	6.00	.....	7.50	6.75	8.00	.....		5.00
(13).....	6.00	4.25	8.00	4.80	5.10	4.50	.....	5.00	6.50	5.00	.....		3.00
(14).....	1.70	2.00	5.00	2.00	3.80	2.25	.....	4.00	2.00	1.00	.....		1.00
(15).....	5.00	5.00	3.00	3.50	3.80	10.00	.....	4.00	2.50	2.50	.....		4.50
(16).....	5.00	15.00	10.00	15.00	17.20	25.00	.....	30.00	20.00	5.00	.....		9.00
(17).....	25.00	30.00	20.00	30.00	38.10	25.00	.....	.025	20.00	50.00	.....		20.00
Sch. III (18)	.....	.....	.75	.95	.....	.70	.....	.75	.90	.....	.....	.90	1.01
(19).....	.....	.....	.98	1.80	.....	1.32	.....	1.20	1.20	.....	.....	1.15	.84
(20).....	.....	.....	1,200.00	1,250.00	.....	1,495.00	1,090.00	1,250.00	1,390.00	.....	.....	1,357.00	1,900.00

1.4 MI. GRADE & ASPH. CONC. PAVE—L. A. COUNTY

LOS ANGELES COUNTY, Calif.—Griffith Co., 502 Los Angeles Railway Bldg., Los Angeles, at \$51,705 submitted low bid Feb. 15 to State Highway Commission, Sacramento, to grade and pave with asphalt concrete 1.4 miles in the City of Redondo Beach, involving:

- (1) 13,000 cu. yds. rdwy. excav., unclass.;
(2) 4000 cu. yds. struc. excav.;
(3) 37,000 sq. yds. subgrade for pave.
(4) 11,800 tons asph. concrete;
(5) 2350 tons pre-mix rock and oil wearing surface;
(6) 60 cu. yds. Class A cem. concrete (struc.);
(7) 675 cu. yds. Class A cem. conc. (curbs, gutters, sidewalks and driveways);
(8) 1800 lbs. bar reinf. steel (struc.);
(9) 13,000 lbs. misc. iron and steel (struc.);
(10) 4 M. common brick;
(11) 280 lin. ft. 12-in. corru. metal pipe do;
(12) 1770 lin. ft. 18-in. do;

- (13) 800 cu. yds. concrete remove from existing struc. and dispose of;
(14) 2 move and reset electrolrollers;
(15) 75 sta. finish roadway.

State will furnish corrugated metal pipe.

- Complete bids follow:
(A) Griffith Co., Los Angeles, \$51,705.00.
(B) Gogo & Rados, Los Angeles, \$53,052.90.
(C) Hall Johnson, Alhambra, \$53,260.
(D) Oswald Bros., Los Angeles, \$53,712.50.
(E) Southwest Paving Co., Los Angeles, \$56,298.85.
(F) Sully-Miller Contr. Co., Long Beach, \$57,184.50.
(G) Geo. R. Curtis Paving Co., Los Angeles, \$57,208.25.
(H) Artukovich Bros., Hynes, \$58,379.00.
(I) J. L. McClain, Los Angeles, \$59,828.00.

Unit bids follow:

Table with 10 columns (A-I) and 15 rows of unit bid prices for various construction items.

IMP. FIFTY-THIRD ST.—LOS ANGELES

LOS ANGELES, Cal.—A. E. Pearson, 2225 Glencoe Ave., Venice, submitted the low bid to city council Feb. 15, at \$3758.55 for improving 53rd St. between Long Beach Ave. and Fortuna St., under cash contract, involving:

- (1) grading (7109 cu. yds. excavation, and 2 cu. yds. fill, inc. removal of existing improvements);
(2) 21,729 sq. ft. 6-in. conc. pave.;
(3) 38 sq. ft. asph. conc. wearing surface, variable thickness (average thickness 2-in.);
(4) 386 sq. ft. rock and oil roadway;
(5) 592 ft. unplastered light curb;
(6) 2494 sq. ft. 3-in. concrete walk;

- (7) 46 sq. ft. 4-in. conc. walk (driveways);
(8) one manhole to be reset.

- Complete bids follow:
(A) Arthur E. Pearson.....\$3758.55
(B) Kreisch Bros.\$3760.04
(C) George Nelson 3797.25
(D) John Topich\$3919.85
(E) South. Calif. Roads Co.....\$4031.30
(F) Grancich & Grancich.....\$4119.94
(G) George R. Curtis Pav. Co.....\$4149.32
(H) Alex. D Chalmers.....\$4165.84
(I) Griffith Company\$4179.98
(J) Associated Constructors.....\$4367.04
(K) Bob Bosko\$4367.14
(L) Engineer's estimate\$4759.32

Unit bids follow:

Table with 8 columns (1-8) and 15 rows of unit bid prices for various construction items.

LOS ANGELES, Cal.—J. V. Morrison, 8801 S Crocker St., Los Angeles, submitted low bid to the county supervisors Feb. 14 at \$15,993.44, for improving Avalon Blvd. from Riverside-Redondo Blvd. southerly to Olive St., a distance of 3300 ft. or 0.64 mile, under Cash Contract No. 499, involving:

- (1) 82,500 sq. ft. 10-7-7-10-in. cement concrete pavement;
(2) 17,680 sq. ft. 8-in. cement concrete pavement.

The bidders were:
(A) J. V. Morrison.
(B) Geo. R. Curtis Paving Co.

- (C) Griffith Company.
(D) Gogo & Rados.
(E) Sander Pearson.
(F) Associated Constructors, Inc.
(G) Bob Bosko.
(H) Oswald Brothers.

- The bids were:
(A)\$16\$158\$15,993.44
(B)17317817,419.54
(C)17417917,519.72
(D)18417718,309.36
(E)18518518,533.20
(F)18319218,904.56
(G)191919,034.20
(H)20752120,831.55

PETALUMA, Sonoma Co., Cal.—Following bids received by State Highway Department, Petaluma, to rent one or two pneumatic tired low bed dump trucks:

- E. C. Alexander, 9233 Thermo St., Oakland\$ 8.00
J. R. Tucker, Oakland 8.50
Jerry Taylor, Oakland..... 9.00
G. W. Westover, Hayward..... 9.00
Louis Green, Oakland..... 9.48
H. Miller, Oakland..... 9.80
Lloyd Burkholder, Oakland..... 9.80
G. D. Prentice Jr., Oakland..... 9.95
Sherrol Bowman, Oakland..... 10.00
G. Wigginton, San Leandro..... 10.00
E. G. Gressot, Fairfield..... 11.00
U-Drive Dump Truck Service, Ltd., Oakland..... 11.00
Frank Ifelmuth, Oakland..... 12.00
Sanders Trucking Co., Vallejo... 12.00
R. A. Roach, Oakland..... 12.00
San Bruno Ave. Feed & Fuel Co., San Francisco..... 12.00
Joe Bertolino, San Francisco..... 13.00
Walter McLaren, Oakland..... 14.00
A. L'exeira, Oakland..... 14.00

ALBUQUERQUE, N. M.—Following bids received by Supervising Engineer 5th Irrigation District, Box 445, Albuquerque, to furnish one complete dual-driven pump unit, consisting of deep well turbine type pump, with direct connected electric motor and gasoline engine:

- Korber, Albuquerque (Fairbanks-Morse)\$1,409.44
American Well Works 1,416.10
Machinery Sales, Albuquerque (Pomona Pump) 1,439.75
Worthington 1,448.25
John Bean (delivered) 1,589.00
Byron-Jackson 1,622.00
Pelton 1,652.00
Layne-Bowler 1,724.60
Machinery Sales (alternate)..... 1,904.35
R. L. Harrison 1,936.97
Aurora Pump 2,005.08
Deming 2,060.00
Fairbanks-Morse (direct dr.)... 2,173.00
Sterns-Rogers 2,299.00
John Bean (alt., delivered)..... 2,390.90

SAN FRANCISCO.—J. E. French Co. Ltd., O'Farrell and Polk Streets, at \$962 submitted low bid on a Dodge G-44 to City Purchasing Agent to furnish one 2-ton auto truck chassis and cab. Complete bids follow:

- J. E. French Co., Ltd.....\$ 962.00
White Co. (Indiana 85)..... 1203.75
(Studebaker) 1119.25
Kleiber Co. (Kleiber 100)..... 1550.00
Mack Inter. Motor Truck Co. (Mack BG) 1975.00

Bids held under advisement.

SAN DIEGO, Cal.—Garrett & Co., 3333 Pacific Ave., San Pedro, submitted low bid to Public Works Officer 11th Naval District, San Diego, Feb. 14, at \$1320 to construct extension to the sanitary sewer to West Beach Hangars at the Naval Operating Base (Air Station), San Diego. The work includes in general the provision of materials for an installation of a sanitary sewer extension for the west beach hangars and consists of 6 and 12 inch vitrified terra cotta or concrete sewer pipe and 4 inch cast iron soil pipe, concrete or brick manholes, cast iron manhole frames and covers, and other miscellaneous work in connection with the installation.

- The other bids were:
T. B. Penick & Sons.....\$1420.20
J. A. Hunt 1447.60
Miracle Co. 1556.00
F. J. Harris..... 1687.60
Wm. H. Kreiss..... 1783.00
Walter Treptke 1795.00
Frank Doran 2195.00
Griffith Co. 2281.50
R. G. Whinery..... 2450.00

NOTE—The address of the low bidder was previously erroneously noted as San Diego.

ENGINEERING NEWS

BRIDGES

SAN JOSE, Santa Clara Co., Cal.—City Engineer W. L. Popp completes plans for a bridge over Coyote Creek on Julian St., estimated cost, \$30,000; quantities will be available shortly.

SANTA CRUZ, Cal.—City council plans to construct footbridge over San Lorenzo River on Felker Street.

LOS ANGELES, Cal.—G. W. Jones, county road commissioner, has announced that bids for the construction of a railroad grade separation structure in Arcadia will be called probably within 30 days. The estimated cost is \$82,660. The project calls for a highway subway under the Santa Fe tracks, connecting Orange Ave. and Colorado St. The total length of the subway will be about 900 ft., with a steel superstructure 80 ft. in length. The width of the street will be 40 ft. Two contracts will be let, viz., the steel superstructure by the Santa Fe Railway and the subway portion by the county. The county work is estimated at about \$26,169. The total cost will be paid as follows: \$4000 by the City of Arcadia; \$16,532 by the railroad and \$62,128 by the county. The approximate quantities are:

15,407 cu. yds. excavation;
15,872 sq. ft. hand shaping slopes;
1,907 ft. 6x9x15-in. curb;
136 sq. ft. 8-in. concrete aprons;
2 No. 6 catchbasins;
42 ft. 18-in. heavy reinf. concrete pipe in place;
138 ft. 2-in. stand. pipe (weepers);
5 concrete junction chambers;
46 ft. 22-in. O. D. steel pipe in place;
concrete headwall outlet, complete;
250 lbs. reinf. steel;
3,335 lbs. steel wire mesh for paved slopes;
7,282 sq. ft. forms for abutments;
280 ft. 21-in. D-1800 const. spun concrete pipe in place;
224 ft. 21-in. D-2200 do;
352 ft. 21-in. D-2500 do;
536 ft. 21-in. D-2700 do;
483 cu. yds. Class A concrete in paved slopes for placing;
15,872 sq. ft. paved slopes for finishing;
756 cu. yds. concrete in abutments for placing;
4 flood lights, complete with conduits, meter and time clock;
1,630 bbls. cement, delivered;
664 tons sand;
1,600 tons rock.

The pavement is a separate contract and is not included in the above list.

PIERCE CO., Wash.—Carl Bjork, 2437 W 63rd, Seattle, at \$32,687 awarded contract by U. S. Bureau of Public Roads to construct one log stringer bridge over North Puyallup river, together with approaches and parking area on the West Side Highway, Proj. E-2-02, Mt. Rainier National Park.

MODESTO, Stanislaus Co., Calif.—County supervisors will set protest hearing date Feb. 27, on 19th Street bridge over Dry Creek. Structure will be of wood; estimated cost, \$2500; no quantities, lump sum bids will be taken. Geo. Macomber, county surveyor.

SEATTLE, Wash.—Bids will be asked in May or June to construct 1-rol. concrete paving and bridge over ravine in State Park, 2 mi. south of Des Moines. Bridge will be over 400 ft. long and 100 ft. high at the center of the gulch. Will have 24-ft. roadway and sidewalk. Bids will be taken

on alternate proposal, concrete and steel. Thos. D. Hunt, county engineer.

MARICOPA-VENTURA CO., Cal.—Stanley Abeel, a supervisor of Kern County and a member of the board of directors of Joint Highway District No. 6, has refused to agree to the letting of the contract for the construction of the Coyote Creek bridge, estimated at \$19,000. He also refused to accept plans for lining the tunnels on the Maricopa Highway. He opposes any expenditures at this time.

VISALIA Tulare Co., Cal.—County supervisors order county surveyor to prepare plans for a bridge over Cottonwood Creek.

SANDPOINT, Idaho.—Until March 8, 2 P. M., bids will be received by County Commissioners, Sandpoint, to construct concrete piers, steel superstructures, and timber deck of the 102-ft. bascule span under Section 3, Sandpoint Bridge on the North and South Highway, Bonner County, Ida., involving:

- (1) 400 cu. yds. struc. excav.;
- (2) 110 pieces drive foundation piling;
- (3) 20 cu. yds. Class A concrete;
- (4) 484 cu. yds. Class B concrete;
- (5) 150 cu. yds. seal concrete;
- (6) 25,000 lbs. reinf. steel;
- (7) 30,000 ft. b.m. untreated timber (place and paint only);
- (8) 152,000 lbs. struc. steel;
- (9) operating equipment;
- (10) 5 tons scrap iron.

Specifications obtainable from the County Clerk on deposit of \$5. Certified check 5% payable to Bonner County required with bid.

LOS ANGELES, Cal.—Until 2 P. M., March 13, bids will be received by the County Supervisors to construct reinforced concrete culvert on Citrus Ave. over Little Dalton Wash. Will have an inside width of 13 ft., a height of 11 ft. 6 in. with 20-in. foundations, and 27.15 ft. in length. Geo. W. Jones, County Road Commissioner. Mame B. Beatty, 501 Hall of Records, Clerk of the Board.

DREDGING, HARBOR WORKS & EXCAVATIONS

SAN DIEGO, Cal.—Harbor commission has under consideration a \$200,000 bond issue to provide funds for dredging in the vicinity of the foot of 22nd St. to provide anchorage space for navy vessels and for interest and sinking fund to be paid from harbor revenues.

PORTLAND, Ore.—Pacific Spruce Corporation awarded sub-contract by Hauser Const. Co. to furnish rock and

timber for reconstruction of the Yaquina Jetty, contract for which was recently awarded Hauser by the Portland U. S. Engineer Office.

SACRAMENTO, Cal.—Basalt Rock Co., Napa, at \$26,400 awarded contract by U. S. Engineering Office, Sacramento, to furnish deliver and place approximately 30000 tons of rip-rap stone along the Sacramento river between the mouth of Cache Slough and Collinsville.

IRRIGATION PROJECTS

BLYTHE, Riverside Co., Cal.—The Palo Verde Irrigation District board of directors has authorized the signing of a contract with the Secretary of the Interior whereby the district will be granted free storage at Hoover Dam for water to irrigate 104,000 acres.

SAN DIEGO, Cal.—Ernest R. Childs, County Surveyor, has been authorized by the Board of Supervisors to prepare plans and specifications and to figure an estimate of cost for a drainage district in the Carlsbad District. A petition was presented to the Board February 10.

STREET LIGHTING SYSTEMS

SANTA CLARA, Cal.—Until March 6, 8 P. M., bids will be received by A. J. Cronin, City Clerk, to install conduit and set lamp pedestals for lighting system in Franklin St. from Grant to Lincoln Sts. Specifications will be obtainable from above office about February 24.

MACHINERY AND EQUIPMENT

VERNON, Los Angeles Co., Calif.—Until 8 P. M., Feb. 28, bids will be received by city council to furnish f.o.b. warehouse, 4305 Santa Fe Ave., one 4-wheel trailer with body and one 2-wheel cable reel carrier under Spec. No. 62. Howard S. McCurdy, city en-

LOS ANGELES, Cal.—Cochise Rock Drill Mfg. Co. awarded contract by A. J. Holm, City Purchasing Agent, at \$21,000 for furnishing twelve 1½ hex. x 15-in. solid peg points for paving breakers. Bid No. 3406.

EUREKA, Humboldt Co., Cal.—Following bids received by U. S. Indian Agency, Hoopa Valley, Federal Bldg., Eureka, to furnish one leaning wheel grader, 10-ft. blade, weighing not less than 6400 lbs., without scarifier.

Allis-Chalmers Mfg. Co.
J. D. Adams Company.
Crown Machine Works.
Jenison Machinery Company.
Austin-Western Road Machinery Co.

SAN RAFAEL, Marin Co., Cal.—Constructing Quartermaster, Hamilton Field, (Marin Meadows) Bombing Base, San Rafael, rejects all bids to furnish one standard automatic grader, and will purchase same from the Eversman Mfg. Co., Denver, Colo.

JACKSON, Amador Co., Cal.—Until March 6, 10:30 P. M., bids will be received by Leotta M. Huberty, county clerk, to furnish one leaning wheel grader. Specifications obtainable from above office.

CAPITAL CITY TITLE COMPANY

J. C. PALEN,
Manager

914 Seventh Street
Sacramento :: California

LOS ANGELES, Cal.—Erown-Bevis Co. awarded contract February 20 by A. J. Holm, City Purchasing Agent, at \$2700 for furnishing 3 power-driven concrete mixers, equipped with shaking skips under Specification No. 2988. The bid of \$2700 is based upon a total of \$3750 less an allowance of \$1050 for 3 used mixers.

SAN MATEO, Cal.—G. F. Bishop Co. 1950 San Bruno Ave., San Francisco, at \$2363 awarded contract by city council to furnish one tractor mower for municipal golf course.

LOS ANGELES, Cal.—Until 10 A. M. Feb. 28, bids will be received by the Metropolitan Water District of Southern California, 306 West Third St., Los Angeles, for furnishing air compressors, storage battery locomotives, motor generator sets, mucking machines, power shovels, dump cars and air receivers, in accordance with Specifications No. 17, which may be obtained at room 1004, 306 West Third St., upon payment of \$2 per set, not returnable. Certified or cashier's check for 10% of the maximum contract price must accompany each bid. F. E. Weymouth, General Manager and Chief Engineer. The equipment to be purchased is as follows:

AIR COMPRESSORS

- (1) 860 c.f.m. displacement, direct connected compressor units, each consisting of compressor, 1150-h. p. synchronous motor and exciter.
 - (a) price of two units;
 - (b) (alternative) price of 4 units;
 - (c) (alternative) price of 6 units;
 - (d) (alternative) price of 8 units;
 - (e) (alternative) price of 10 units;
 - (f) (alternative) price of 12 units;
 - (g) (alternative) price of 14 units;
 - (h) (alternative) price of 16 units.

TIME of shipment after notice to proceed. Items (1) (a) to (1) (h), inclusive to be stated in days, as follows:

- (1) first two units;
- (2) next two units;
- (3) next two units;
- (4) next two units;
- (5) next two units;
- (6) next two units;
- (7) next two units;
- (8) last two units.

(i) (alternative) unit price for furnishing as ordered within 12 months after the date of the contract not to exceed 16 units.

Bidder to state number of days after order within which he will ship lots of two units as ordered.

Approximately shipping weight of each unit in pounds to be stated.

Delivery point f.o.b. cars to be stated

Discount allowed if payment is mailed within 10 days to be started.

STORAGE BATTERY LOCOMOTIVE

- (2) 16 8-ton battery type locomotives, each with extra battery and battery box, using lead batteries.
 - (a) price of two locomotives;
 - (b) (alt) price of 4 locomotives;
 - (c) (alt) price of 6 locomotives;
 - (d) (alt) price of 8 locomotives;
 - (e) (alt) price of 10 locomotives;
 - (f) (alt) price of 12 locomotives;
 - (g) (alt) price of 14 locomotives;
 - (h) (alt) price of 16 locomotives;
- (i) (alt) furnishing at a unit price ordered within 12 months after the date of the contract not to exceed 16 locomotives.
- (3) (alternate to item 2); 16 8-ton battery type locomotives, each with extra battery and battery box, using steel batteries.
 - (a) price of two locomotives;
 - (b) (alt) price of 4 locomotives;
 - (c) (alt) price of 6 locomotives;
 - (d) (alt) price of 8 locomotives;
 - (e) (alt) price of 10 locomotives;
 - (f) (alt) price of 12 locomotives;
 - (g) (alt) price of 14 locomotives;
 - (h) (alt) price of 16 locomotives;
- (i) (alt) unit price for furnishing as ordered within 12 months after

the date of the contract not to exceed 16 locomotives.

MOTOR GENERATOR SETS

- (4) 8 motor-generator sets for charging batteries.
 - (a) price of one set;
 - (b) (alt) price of 2 sets;
 - (c) (alt) price of 3 sets;
 - (d) (alt) price of 4 sets;
 - (e) (alt) price of 5 sets;
 - (f) (alt) price of 6 sets;
 - (g) (alt) price of 7 sets;
 - (h) (alt) price of 8 sets.
- (i) (alt) unit price for furnishing as ordered within 12 months after date of contract not to exceed 8 sets.

ELECTRIC TUNNEL SHOVELS

- (5) 8 power shovels, 1 cu. yd. capacity, railroad type or crawler type mounting.

Railroad Type Mounting

- (a) price of one power shovel;
- (b) (alt) price of 2 shovels;
- (c) (alt) price of 3 shovels;
- (d) (alt) price of 4 shovels;
- (e) (alt) price of 5 shovels;
- (f) (alt) price of 6 shovels;
- (g) (alt) price of 7 shovels;
- (h) (alt) price of 8 shovels;

Crawler Type Mounting

- (i) price of one power shovel;
- (j) (alt) price of 2 shovels;
- (k) (alt) price of 3 shovels;
- (l) (alt) price of 4 shovels;
- (m) (alt) price of 5 shovels;
- (n) (alt) price of 6 shovels;
- (o) (alt) price of 7 shovels;
- (p) (alt) price of 8 shovels.

(q) (alt) unit price for furnishing as ordered within 12 months after date of contract not to exceed 8 shovels with railroad type mountings;

(r) (alt) unit price for furnishing as ordered within 12 months after date of contract not to exceed 8 shovels with crawler type mounting.

- (6) 8 power shovels, 1 1/4 cu. yd. capacity, railroad type or crawler type mounting.

Railroad Type Mounting

- (a) price of one power shovel;
- (b) (alt) price of 2 shovels;
- (c) (alt) price of 3 shovels;
- (d) (alt) price of 4 shovels;
- (e) (alt) price of 5 shovels;
- (f) (alt) price of 6 shovels;
- (g) (alt) price of 7 shovels;
- (h) (alt) price of 8 shovels;

Crawler Type Mounting

- (i) price of one power shovel;
- (j) (alt) price of 2 shovels;
- (k) (alt) price of 3 shovels;
- (l) (alt) price of 4 shovels;
- (m) (alt) price of 5 shovels;
- (n) (alt) price of 6 shovels;
- (o) (alt) price of 7 shovels;
- (p) (alt) price of 8 shovels.

(q) (alt) unit price for furnishing as ordered within 12 months after the date of the contract not to exceed 8 shovels with railroad mounting;

(r) (alt) unit price for furnishing as ordered within 12 months after date of the contract not to exceed 8 shovels with crawler type mounting.

- (7) 8 power shovels, 1 1/2 cu. yd. capacity, railroad type or crawler type mounting.

Railroad Type Mounting

- (a) price of one power shovel;
- (b) (alt) price of 2 shovels;
- (c) (alt) price of 3 shovels;
- (d) (alt) price of 4 shovels;
- (e) (alt) price of 5 shovels;
- (f) (alt) price of 6 shovels;
- (g) (alt) price of 7 shovels;
- (h) (alt) price of 8 shovels.

Crawler Type Mounting

- (i) price of one power shovel;
- (j) (alt) price of 2 shovels;
- (k) (alt) price of 3 shovels;
- (l) (alt) price of 4 shovels;
- (m) (alt) price of 5 shovels;
- (n) (alt) price of 6 shovels;
- (o) (alt) price of 7 shovels;

- (p) (alt) price of 8 shovels.
- (q) (alt) unit price for furnishing as ordered within 12 months after the date of the contract not to exceed 8 shovels with railroad type mounting;
- (r) (alt) unit price for furnishing as ordered within 12 months after the date of the contract not to exceed 8 shovels with crawler type mounting.

TUNNEL MUCKING MACHINES

- (8) 16 mucking machines with a capacity of 50 cu. yds. per hour each.
 - (a) price of two machines;
 - (b) (alt) price of 4 machines;
 - (c) (alt) price of 6 machines;
 - (d) (alt) price of 8 machines;
 - (e) (alt) price of 10 machines;
 - (f) (alt) price of 12 machines;
 - (g) (alt) price of 14 machines;
 - (h) (alt) price of 16 machines.
- (i) (alt) unit price for furnishing as ordered within 12 months after date of contract not to exceed 16 machines.

WOOD BODY DUMP CARS

- (9) 136 5 cu. yd. dump cars with wooden bodies.
 - (a) price of 17 cars;
 - (b) (alt) price of 34 cars;
 - (c) (alt) price of 51 cars;
 - (d) (alt) price of 68 cars;
 - (e) (alt) price of 85 cars;
 - (f) (alt) price of 102 cars;
 - (g) (alt) price of 119 cars;
 - (h) (alt) price of 136 cars;
- (i) (alt) unit price for furnishing as ordered within 12 months after date of contract not to exceed 136 cars.

STEEL BODY DUMP CARS

- (10) (Alternative to Item 9) 136 5 cu. yd. dump cars with steel bodies, in accordance with the specifications.
 - (a) price of 17 cars;
 - (b) (alt) price of 34 cars;
 - (c) (alt) price of 51 cars;
 - (d) (alt) price of 68 cars;
 - (e) (alt) price of 85 cars;
 - (f) (alt) price of 102 cars;
 - (g) (alt) price of 119 cars;
 - (h) (alt) price of 136 cars.
- (i) (alt) unit price for furnishing as ordered within 12 months after date of contract, not to exceed 136 cars.

FLAT CARS

- (11) 16 flat cars, in accordance with the specifications.
 - (a) price of two cars;
 - (b) (alt) price of 4 cars;
 - (c) (alt) price of 6 cars;
 - (d) (alt) price of 8 cars;
 - (e) (alt) price of 10 cars;
 - (f) (alt) price of 12 cars;
 - (g) (alt) price of 14 cars;
 - (h) (alt) price of 16 cars;
- (i) (alt) unit price for furnishing as ordered within 12 months after date of contract not to exceed 16 cars.

AIR RECEIVERS

- (12) 16 200 cu. ft. air receivers, in accordance with the specifications.
 - (a) price of two receivers;
 - (b) (alt) price of 6 receivers;
 - (c) (alt) price of 8 receivers;
 - (d) (alt) price of 10 receivers;
 - (e) (alt) price of 12 receivers;
 - (f) (alt) price of 14 receivers;
 - (g) (alt) price of 16 receivers.
- (i) (alt) unit price for furnishing as ordered within 12 months after the date of the contract not to exceed 16 receivers.

SERVICES OF ERECTING ENGINEERS

- (13) the services of an erecting engineer will be furnished at the following rate:
 - (a) for compressor installation, — dollars per day;
 - (b) for locomotive installation, — dollars per day;
 - (c) for mucking machine installation, — dollars per day;
 - (d) for power shovel installation, — dollars per day.

FIRE ALARM SYSTEMS

SAN FRANCISCO.—M. B. McGowan 74 New Montgomery St., awarded the contract by Pacific Bridge Co. to drive piles for construction of a wharf in connection with the construction of the main piers of the Golden Gate Bridge.

FIRE EQUIPMENT

FRESNO, Cal.—City council will expend \$4000 in the purchase of a chassis, motor and material for a chemical fire apparatus. The equipment will be assembled in the fire department shop. W. Ralph Williams is the fire chief.

RENO, Nevada.—Bids received by city council for \$38,000 improvement bonds from First Security Co., Salt Lake City, rejected and bids will be re-advertised. Issue is to finance purchase of fire engine, etc.

RESERVOIRS AND DAMS

RIVERSIDE, Cal.—The directors of the Valley of Enchantment Mutual Water Co., 4344 Market St., Riverside, authorized the construction of a 100,000-gallon reservoir. Work is to start in May. A. C. Fulmer, County Surveyor of Riverside County, is vice-president of the company.

LOS ANGELES, Cal.—Westinghouse Electric Supply Co. awarded contract by County Supervisors, Feb. 14, at \$1113 20 to furnish floor lights for the Puddingstone, San Dimas and Thompson Creek Dam. The bids were opened February 6.

LOS ANGELES, Cal.—Application of J. J. Lieberman, as taxpayer and citizen, for an injunction to restrain County Flood Control District from proceeding with the construction of the San Gabriel Dam No. 1, was denied by Superior Court Judge J. T. E. Warne, Feb. 15. Lieberman had charged irregularities in the awarding of the contract to the West Slope Construction Co.

LOS ANGELES, Calif.—Macco-Robertson, Ltd., 815 Paramount Blvd., Clearwater, awarded contract by the Metropolitan Water District Feb. 16, at \$17,384 for constructing six 300,000 gallon reservoirs for Sections 3, 4 and 5 of the construction water supply system, Schedule No. 3. The bids were opened Feb. 15.

LOS ANGELES, Cal.—Commercial Iron Works, 2424 Porter St., awarded contract by county supervisors Feb. 14, at \$1390.39 net to furnish steel vent pipe and fittings for San Gabriel Dam No. 2.

SAN CLEMENTE, Orange Co., Cal.—Dan Mulherron, 267 W. Marquita St., San Clemente, awarded contract by City Council, February 17, at \$4962, for the construction of a 500,000-gallon capacity reservoir on a site near the municipal golf course. The estimated cost is \$5000. W. A. Ayer is the city engineer. The proposed reservoir will be 120x50 feet at the top, 90x20 feet at the bottom and 20 feet in depth. It will be of gunite construction throughout.

The other bids were: John C. Blystone, \$5287; Wigg Constr. Co., \$6380; W. J. Hunter, \$7636.

PIPE LINES, WELLS, ETC.

LIVERMORE, Alameda Co., Cal.—Until March 9, 2:30 P. M., bids will be received by Supervising Superintendent of Construction, Veterans Administration Hospital, Palo Alto, for

the construction of a pipe line, etc., on the water system of the Veterans Administration Hospital, Livermore. Work includes construction of one eight inch class 150 cast iron pipe line, provision of automatic control for existing pump, corrugated iron housing around pump, etc. An alternate bid will be received for installing pipe composed of asbestos fiber and cement in lieu of cast iron specified.

Plans and specifications available from above office.

LOS ANGELES, Cal.—Ray Schweitzer, 2475 E 9th St., Los Angeles, at \$12,392.50 for Schedule 1 (excavating and backfilling trench for Sections 3, 4 and 5 of the construction water supply system); Clark & Campbell, 1358 E Manchester Ave., and A. J. Callahan, 926 S Rimpau, Los Angeles, bidding jointly, at \$27,189 for Schedule 2 (hauling and stringing gas line pipe, welding joints, testing and lowering pipe, and for connecting valves and fittings for above); and Macco-Robertson, Ltd., 815 Paramount Ave., Clearwater, at \$17,384 for Schedule 3 (constructing six 300,000-gal. reservoirs for above) submitted low bids Feb. 15 to Metropolitan Water District, Los Angeles, to construct pipe lines and gunited reservoirs for sections 3, 4 and 5 of the construction water supply system for the Colorado River Aqueduct. The work is located in San Bernardino and Riverside counties, along the line of aqueduct and with the exception of one reservoir, is located between a point in Sec. 13, Twp. 1S, R 18 E, which point is approximately 12 miles west from Rice Station on the Phoenix branch of the A. T. & S. F. Railway, and a point in Sec. 2S, Twp. 5 S, R 9 E, S. B. B. & M., the latter point being approximately 10 miles east of Indio. The one reservoir is located in Section 7, Twp. 3 S, R 6 E.

Winston Bros. Co., Minneapolis, Minn., bid \$13,610 on Schedule 1 and \$26,365.70 on 2, but would accept only 1 and 2 together, the total being \$39,975.50, against bids of Schweitzer, Clark & Campbell and Callahan which total \$39,581.50. All other bids contained stipulations. No recommendations have been made as yet.

SEWERS AND SEWAGE DISPOSAL PLANTS

MONTEREY PARK, Los Angeles Co., Calif.—City council has made a formal application to the state department of health for a permit to erect the proposed sewage treatment plant. Application has been made to county supervisors for a loan of \$25,000 to be used pending receipt of funds from the Reconstruction Finance Corp.

SAN LEANDRO, Alameda Co., Cal.—Bids will be asked shortly by city council, A. E. Pelton, city manager, to furnish:

- (1) 11,000 ft. 12-in. vit. sewer pipe;
- (2) 11,000 ft. 14-in. do.

To be used for construction of sewer in bay; an unemployment relief project.

MISCELLANEOUS CONSTRUCTION

DENVER, Colo.—The Denver-Golden Metropolitan Mutual Water Assn., Denver, proposes to construct a diversion tunnel, canals and roads at an estimated cost of \$1,804,000. The work will involve construction of five miles of tunnel, 13.2 miles canals, and 18 miles of roads.

LOS ANGELES, Cal.—Metropolitan Water District, Los Angeles decides to withdraw approximately 9 mi. of

the Coachella Tunnel construction from force account and will probably call bids on this portion of the work.

WATERWORKS

SAN FRANCISCO.—Until Feb. 27, 3 P. M., under Bid No. 971, bids will be received by T. A. Brooks, City Purchasing Agent, 270 City Hall, to furnish 12-in. and 16-in. class 150 and 250 cast iron water pipe for S. F. Water Department, involving:

- (1) 18,000 ft. 16-in. class 150;
- (2) 3,000 ft. 16-in. class 250;
- (3) 2,750 ft. 12-in. class 150.

Specifications obtainable from above

TACOMA, Wash.—City water department plans a \$1,335,420 program of construction including 8 projects. Construction will be contingent on a \$1,000,000 loan from the Reconstruction Finance Corporation, or a bond issue. Ira S. Dacisson, Commissioner Dept. of Public Utilities; W. A. Kunnigk, Superintendent of Water Division.

SANTA ANA, Orange Co., Cal.—All bids for constructing a 45,000-gallon steel water tank, opened Jan. 30, were rejected by city council Feb. 14. National Tank & Mfg. Co. was the low bidder at \$1063.

SIGNAL HILL, Los Angeles Co., Cal.—Bids to furnish and install one chlorinating machine for city water department opened by city council Feb. 14 follow:

Bardce Engineering Co.—Item (2) \$605. (3) \$980, (4) \$1950.

Chemical Equipment Corp. of Calif.—Items (A) \$350, (B) \$750.

Wallace Engineering Co.—(A) \$335, (B) \$840.

George H. Cooper, City Clerk.

SAN CLEMENTE, Orange Co., Cal.—Until 7 P. M., Feb 17, bids will be received by city council to furnish 2000 ft. to 3000 ft. of class "150" 10-in. cast iron pipe, f.o.b. trench elde. W. A. Ayer, City Engineer.

LOS ANGELES, Cal.—Mel O. Halde-man Corp., awarded contract by A. J. Holm, City Purchasing Agent, for standard galvanized wrought steel pipe. Bid No. 3490, as follows:

50 lengths $\frac{1}{2}$ -in. (1000 ft.) at \$5.85 C. ft.;

15 lengths $\frac{1}{2}$ -in. (300 ft.) at \$16.55 C. ft.;

100 $\frac{1}{2}$ -in. 90-degree elbows at \$3.40 C.

100 $\frac{1}{2}$ -in. street elbows at \$4.20 c.

PASADENA, Los Angeles Co., Cal.—Contracts for furnishing cast iron pipe awarded by city directors, Feb. 14, follow:

U. S. Pipe & Foundry Co.—Items 1, 3 and 8 of bids opened Jan. 24 as follows: 20,000 ft. 6-in. C. I. pipe at 53c ft.; 10,000 ft. 12-in. at 81 $\frac{3}{4}$ c ft.; 408 ft. 30-in. class E at \$6.85 ft.

National Cast Iron Pipe Co.—Item 2, 20,000 ft. 8-in. at 80c ft.

American Cast Iron Pipe Co.—Items 4, 5, 6 and 7 as follows: 1200 ft. 16-in. at \$2.59 ft.; 600 ft. 20-in. at \$3.72 ft.; 800 ft. 24-in. at \$5 ft.; 240 ft. 10-in. at \$1.18 ft.; and 48 ft. 14-in. at \$2.10 ft.

SAN FRANCISCO.—Until March 8, 2:30 P. M., bids will be received by Department of Public Works, S. J. Hester, secretary, to construct water system about three miles in length from San Andreas to the site of the Sneath Ranch jail in San Mateo Co. Will be of 10-in. cast iron pipe. Estimated cost, \$35,000. Plans by the Bureau of Architecture. Time limit, 90 days from award of contract.

LEWISTON, Ida.—Included in plans for 1933 of the municipal water department are: pumping and filtration plant, \$26,700; replacement of distribu-

tion lines and services, \$10,000; new distribution lines and services, \$1,000; maintenance of distribution lines and services, \$6400; sewer maintenance, \$2500.

LOS ANGELES, Cal.—C. C. Moore & Co., Engineers, Inc., Edison Bldg., 601 W. 5th St. submitted low bid to County Supervisors Feb. 20, at \$36,564 for Proposal "A," and at \$36,444 for Proposal "B," for furnishing and installing 500 H. P. water tube boilers for the power plant at the Los Angeles General Hospital, 1100 Mission Road. Wm. Davidson, Chief Mechanical Engineer, 10th Floor, Hall of Records, prepared the plans and specifications. The proposed boilers will be of the bent tube type. Each boiler shall have an effective heating surface of not less than 5000 sq. ft. and the tubes shall be 3¼-in. seamless steel of not less than No. 10 gauge. The work embraced in the specifications includes excavation, reinforced concrete foundations, boilers complete with masonry settings, covering of breeching within power house, painting of exposed equipment after completing, and testing of equipment. The new boiler room will be 37 ft. 10 in. by 42 ft. 10½ in. with a height of 30 ft. The bids follow:

C. C. Moore & Co., Engineers, Inc., bidding on Babcock & Wilcox Sterling boilers: "A" based on furnishing Diamond Automatic valve-in-head soot blowers, \$36,564; "B" based on furnishing Diamond G-2 independently valved soot blowers, \$36,444. If awarded contract, bidder will employ subcontractors as follows: Brick Work: J. T. Thorpe & Son, 941 E. 2nd St.; Structural Steel: McClintic-Marshall Co., 11,100 S. Central Ave.; Excavation and Concrete: J. T. Thorpe & Sons, or Weymouth Crowell Co., 2104 E. 15th St. or L. A. Cline, 1013 N. Sycamore Ave.; Burners: Leahy Mfg. Co., 1804 E. 8th St.; Regulators: Leahy Mfg. Co., 1804 E. 8th St.; Bidder offers substitutions as follows: Brown Elec. flor metre and Cochrane mechanical flow metre.

Consolidated Steel Corp., Ltd.—Foster-Wheeler boilers, \$36,900.

The Wickes Boiler Co., Saginaw, Mich. (represented by Parsons Engineering Co., 453 S. Spring St., Los Angeles), \$38,073.

Howe Bros.—Wm. Bros. Boiler & Mfg. Co., boilers, \$41,740. Alt. bid: if Wm. Bros. Co. super-heaters are used in lieu of those specified, deduct \$615.

R. G. Meyler Corp.—Badenhausen boilers, \$43,731.

The Fluor Corp., Ltd.—Edge Moor Iron Co., boilers, \$43,860.

Lohman Bros., 232 S. Spring St.—Puget Sound Machinery Depot boilers \$47,000.

SAN MATEO, Cal.—Until March 6, 8 P. M., bids will be received by E. W. Foster, City Clerk, to furnish one deep well turbine pump, capacity 350 to 400 G.P.M. Specifications obtainable from above office. E. P. Wilsey, city manager.

SACRAMENTO, Cal.—City Council will award contract to Stauffer Chemical Company, 624 California St., San Francisco, at \$3015 to furnish 150 tons sulphuric acid for the filtration plant.

SAN DIEGO, Cal.—City and county officials have signed a provisional contract with the Department of the Interior for the delivery of 100,000,000 gallons of water per diem from the Colorado river.

SIGNAL HILL, Los Angeles Co., Calif.—Wallace & Tiernan Co., Inc., 3923 W 6th St., Los Angeles, awarded contract by city council at \$1339 to

furnish and install a chlorinating machine for the city water department.

YUBA CITY, Sutter Co., Cal.—State Reclamation Board, District No. 1500, Sutter County, plans to install a 10-in. centrifugal pump with a 14-in. 10-gauge riveted steel pipe on the left bank of the Sacramento River. Protest hearing March 15 10 A. M.

UKIAH, Mendocino Co., Cal.—Until March 2, 7:30 P. M., bids will be received by Fred L. Bosworth, city clerk, to furnish f.o.b. cars, Ukiah: (1) 1900 ft. 6-in. b&s stand. cl. pipe, 150 lbs. test, 12-ft. lengths; (2) 8 6x4-in. c.i. tees, hub ends; (3) 2 6-in. iron body gate valves, hub ends, 150 lbs. test.

Also enough lead or leadite or equal caulking material to install the pipe.

ALTERNATE BID

- (1) 1900 ft. 6-in. National, or equal, American manufacture, stand. full weight black wrought steel pipe dipped in California hot asphaltum with ends beveled for welding, thickness of pipe .280-inch;
- (2) 2 6-in. stand. flanged gate valves with square nuts, flanged faced and drilled;
- (3) 4 flanges to fit above gates.

Certified check 10% payable to City of Ukiah required with bid.

SAN FRANCISCO—Moore & Roberts 461 Market St., desire sub-bids on all portions of the work in connection with the water supply system to be constructed at Sneath Ranch, San Mateo County, in connection with the jail building for the City and County of San Francisco for which bids will be opened March 8.

STREETS AND HIGHWAYS

LOS ANGELES, Orange, San Diego and Imperial Counties, Calif.—Until March 6 2 P. M., (postponed from Feb. 23), bids will be received by S. V. Cortelyou, District Engineer, State Highway Commission, Room 808, California State Office Bldg., Los Angeles, to apply Diesel oil to roadside vegetation over 79.4 roadside miles, involving 1350 bbls. Diesel oil. Specifications obtainable from above office. Certified check 10% required with bid.

COCHISE COUNTY, Ariz.—H. J. Hagen, Globe, Ariz., at \$57,416.60 awarded contract by U. S. Bureau of Public Roads to grade 2.793 ml. Section C and a portion of Section B Chiricahua National Mounment Highway.

LOS ANGELES, Calif.—Until 10 A. M., March 15 (postponed from Mar. 8) bids will be received by board of public works for the improvement of the alleys in block south of 6th St. bet. Mesa St. and Pacific Ave., under the 1911 act. The work will involve: (1) grading (311 cu. yds. cut, 9 cu. yds. fill); (2) 9593 sq. ft. 6-in. conc. pave.; remove: 845 sq. ft. pave., 36 ft. board walk. Engineer's estimate, \$2064.70.

FAIRFAX, Marin Co., Cal.—City council postpones action until Mar. 3, 8 P. M., on new bid call to improve streets in the Manor Hill Section, including paving, curb and gutters. No bids received Jan. 10. Project involves:

- (1) 15,104 cu. yds. gradng;
- (2) 10,380 lin. ft. conc. curb and gutter;
- (3) 63,437 sq. ft. asph. pavement;
- (4) 206 ft. 10-in. metal pipe culvert;
- (5) 356 ft. 12-in. do;
- (6) 192 ft. 18-in. do;
- (7) 46 ft. 48-in. do;

- (8) 22 concrete catchbasins, c.i. grating;
 - (9) 33 cu. yds. reinf. concrete retaining wall;
 - (10) 250 lin. ft. 6-in. sanitary sewer;
 - (11) 1 lampole.
- Estimated cost, \$30,000. J. C. Ogleslesby, city engineer.

SEATTLE, Wash. — As previously reported, until March 6, 10 A. M., bids will be received by King County Commissioners for highway construction as follows:

- (1) 1-mi. paving Pridgeon road between Renton and Three Tree Point, involving:
 - 13,922 sq. yds. concrete paving;
 - 500 ft. culvert pipe;
 - 29,632 lbs. reinf. steel;
 - 7,500 cu. yds. excav.
 - (2) North extension of the Kummer Cut-Off, involving:
 - 38,000 cu. yds. excav.;
 - 4,800 cu. yds. solid rock excav.;
 - 275,000 sta. yds. overhaul;
 - 1,165 cu. yds. gravel;
 - 190 lin. ft. culvert pipe;
 - move 8 buildings on right-of-way.
 - (3) 1-mi. paving near Maple Valley, involving:
 - 11,850 sq. yds. concrete pavement;
 - 3,310 lbs. reinf. steel;
 - 4,300 cu. yds. excav.;
 - 357 ft. culvert pipe.
- Thos. Hunt, County Engineer.

ALHAMBRA, Los Angeles Co., Cal.—City commission has announced that application will be made to the Reconstruction Finance Corp. for a loan of \$60,000 to finance the paving of Alhambra Road from the east Alhambra city limits to the Los Angeles city boundary.

SAN FRANCISCO.—Department of Public Works, S. J. Hester, Secretary, plans to improve crossing of Revere Ave. and Newhall, involving:

- (1) 100 cu. yds. grading;
 - (2) 60 ft. 10-in. V.C.P. sewer;
 - (3) 2 brick manholes;
 - (4) 3 brick catchbasins;
 - (5) 80 ft. 10-in. V.C.P. culvert;
 - (6) 94 ft. armored concrete curb;
 - (7) 950 sq. ft. 1-course conc. sidewalk;
 - (8) 4114 sq. ft. asph. conc. pave.
- Specifications on this project obtainable at office of John J. Casey, City Engineer, 3rd floor, City Hall.

OREGON STATE.—Until March 1, 2 P. M., bids will be received by State Highway Commission, Multnomah Hotel, Portland, for the sale of \$1,500,000 of State of Oregon short term state highway bonds, interest at 6% payable semi-annually. Certified check 5% required with bids.

LOS ANGELES, Cal.—Ordinance of intention No. 72,322 for the improvement of the second alley west of Cabrillo Ave., between 17th St. and 18th St., under the 1911 Act, has been adopted by city council Feb. 6. Hearing has been set for March 13. The engineer's Assessment Limitation Act report shows quantities, estimates, etc., as follows: (1) grading (168 cu. yds. cut, 2 cu. yds. fill); (2) 5401 sq. ft. 5-in. concrete paving; (3) 6 ft. unplastered light curb; (4) 10 sq. ft. one-course walk. Remove: 6 ft. curb, 10 sq. ft. walk. Engineer's estimate, \$948.94.

MENLO PARK, Santa Clara Co., Calif.—Property owners request City Engineer Bert J. Mehl to prepare estimate of cost on 16-ft. pavement, emulsified asphalt wearing surface on macadam base, on city streets. Estimated cost, \$4200.

IDAHO STATE—Triangle Const. Co. Spokane, Wash., at \$44,823.30 awarded contract by State Department of Pub-

lic Works, Boise, for 5.693 miles Palouse Highway bet. Mud Bay School and Mica Bay, Kootenai County.

IDAHO STATE—Triangle Const. Co. Spokane, Wash., at \$85,555.50 awarded contract by State Department of Public Works, Boise, for 4.136 miles Palouse Highway bet. Mud Bay School and Mica Bay, Kootenai County.

FRESNO, Fresno Co., Cal.—M. Madsen, 247 Maple Ave., Fresno, at \$714.83 awarded contract by city council to improve Palm Ave. from the south line of Olive Ave. to the center line of Alhambra Ave., involving concrete curbs, sidewalk and driveway approaches, involving:

- (1) 2305 sq. ft. concrete walk at \$.15;
- (2) 521 lin. ft. conc. curb at \$.42;
- (3) 683 sq. ft. driveway approach, \$.22.

Complete bids follow:
M. Madsen\$714.83
Russo & Volanti..... 769.13
Lee Sullenger..... 773.63

SACRAMENTO, Calif.—Until March 15, 2 P. M., bids will be received by State Highway Commission, Sacramento, to grade and pave with asphalt about 4.5 miles between Mills and Nimbus, involving:

- (1) 95 sta. clear and grub right of way;
 - (2) 16,000 cu. yds. rdwy. excavation, unclass.;
 - (3) 5,600 sta. yds. overhaul;
 - (4) 64,000 cu. yds. imp. borrow;
 - (5) 1000 cu. yds. struc. excav.;
 - (6) 7250 cu. yds. salvage macadam (borders and surfacing);
 - (7) 52,100 sq. yds. subgrade for pave.
 - (8) 22,500 tons asph. concrete;
 - (9) 190 cu. yds. Class A Portland cement concrete (struc.);
 - (10) 15,100 lbs. bar reinf. steel (struc.)
 - (11) 548 lin. ft. 12-in. corr. metal pipe
 - (12) 558 lin. ft. 18-in. do;
 - (13) 24 lin. ft. 24-in. do;
 - (14) 1.6 miles new property fence;
 - (15) 30 drive gates complete in place;
 - (16) 3 walk gates complete in place;
 - (17) 50 cu. yds. light rip-rap;
 - (18) 130 cu. yds. Portland cem. conc. remove from existing struc.;
 - (19) 1350 M. gals. water;
 - (20) 140 bbls. light fuel oil;
 - (21) 25 tons asph. road oil;
 - (22) 300 tons screenings;
 - (23) 150 lin. ft. special timber header;
 - (24) 235 sta. finish roadway;
 - (25) 26 monuments complete in place.
- State will furnish corrugated metal pipe.

LYON COUNTY, Nev.—Dodge Construction, Inc., Fallon, at \$68,577.66 awarded contract by State Highway Department to grade and improve with gravel surfacing between 12 and 2 miles west of Lahontan, ten miles. Nevada Rock & Sand Co., Reno, second low at \$69,581.86; Union Paving Co., San Francisco, third low at \$72,533.43.

ARIZONA STATE—Until 2 P. M., March 3, bids will be received by State Highway Commission, Phoenix, for highway construction under E-95-D and (A.F.E. No. 8915) and F.L.H.P. E-4-A (AFE No 8951). The work, on E-95-D and F.L.H. E-4-A, begins at the northwest end of the Grand Canyon bridge near Lee's Ferry and extends southwest approximately nine miles and consists of the grading and draining and placing of subgrade stabilizer. The work on these projects is to be completed as follows: E-95-D, June 15, 1933; F.L.H.P. E-4-A, August 31, 1933. The attention of the contractor is especially directed to the date of completion for E-95-D, and the provisions covering right of highway commission to terminate contract. The quantities are:

E-95-D
(These Quantities Include One Bridge

Structure)
26,000 cu. yds. roadway excavation;
1,500 lin. ft. grader ditch;
1,250 cu. yds. drainage and structural excavation;
5,200 cu. yds. borrow excavation;
4,600 sta. yds. earthwork overhaul;
7,000 cu. yds. subgrade stabilizer;
7,400 cu. yd. mi. subgrade stabilizer haul;
400 cu. yds. concrete;
40,500 lbs. reinforcing steel;
992 lin. ft. C.M.P., various diam.;2,750 lin. ft. cable road guard

ALTERNATE

The use of large diameter and sectional C.M.P. in lieu of concrete boxes (see bidding schedule).

F.L.H. E-4-A

(These Quantities Include 4 bridge Structures)

39,000 cu. yds. roadway excavation;
8,300 cu. yds. drainage and structural excavation;
2,850 lin. ft. grader ditches;
21,000 cu. yds. borrow excavation;
2,600 sta. yds. earthwork overhaul;
13,000 cu. yds. subgrade stabilizer;
26,600 cu. yds. mi. subgrade stabilizer haul;
970 cu. yds. concrete;
80,000 lbs. reinforcing steel;
1,422 lin. ft. C.M.P., various dia.;10,000 lin. ft. cable guard fence;
100 cu yds. riprap;
133,700 lbs. structural steel.

ALTERNATE

The use of large diameter and sectional C.M.P. in lieu of concrete boxes (see bidding schedule).

Proposal guarantee in cash or certified check of not less than 5% of the gross amount of the bid is required. T. S. O'Connell, State Highway Engineer.

LOS ANGELES, Cal.—J. V. Morrison, 8801 S. Crocker St., Los Angeles, awarded contract by county supervisors, February 20, at \$15,993.44, for improving Avalon Blvd. from Riverside-Redondo Blvd. southerly to Olive St., a distance of 3300 ft. or 0.64 mile, under Cash Contract No. 499.

LYON COUNTY, Nevada.—Nevada Rock & Sand Co., Reno, at \$57,756.28 awarded contract by State Highway Department to grade and gravel surface between Dayton and 9 miles northeast, Route 2A, 9.28 miles. Jack Casson, Hayward, second low at \$58,453.04; Union Paving Co., San Francisco, third low at \$58,353.82.

DOUGLAS COUNTY, Nev.—Isbell Const. Co., Carson City, at \$35,462.44 awarded contract by State Highway Department to grade and gravel 5.62 miles between 5 miles east of Holbrook and the East county line, Route 3, Section A1. Only other bid submitted by Dodge Const. Co., Inc., Fallon, at \$37,038.19.

LOS ANGELES, Cal.—Geo. Nelson, 174 Savona Walk, Long Beach, awarded contract by Board of Public Works, February 20 at \$2070.18 for improving Towne Ave., between Florence Ave. and 74th St., under Cash Contract.

SAN MATEO, Cal.—No bids received Feb. 20, by city council for \$8,785.80 improvement bonds, 7% interest, under 1903 Street Opening Act. Certified check 10% payable to City of San Mateo required with bid. Date of opening bids was put off for two weeks, until March 6, 8 P. M.

MENLO PARK, Santa Clara Co., Cal.—Until Feb. 28, 8 P. M., bids will be received by Fannie I. Kurtz, city clerk, for the sale of ten Street Improvement Bonds, interest at 7%; bonds for \$62.48 each.

LOS ANGELES, Calif.—Until 10 A. M., March 8, bids will be received by

board of public works to improve 76th St. bet. 8th Ave. and 10th Ave., and portions of 77th St., 75th St., 8th Ave., 10th Ave. and the alley west of 8th Ave., under the 1911 act. The proposed work involves:

- (1) grading (1371 cu. yds. cut);
 - (2) 44,288 sq. ft. 6-in. conc. paving;
 - (3) 4411 sq. ft. 6-in. asph. conc. pav.;
 - (4) 150 sq. ft. 4-in. asph. conc. wearing surf.;
 - (5) 230 sq. ft. 6-in. conc. gutter;
 - (6) 47 sq. ft. 4-in. conc. walk (drives)
 - (7) 6 ft. integral curb (no reinf. steel)
 - (8) 18 ft. light unplas. curb;
 - (9) water system complete;
 - (10) 22 water service connections;
 - (11) light conduit comp., lump sum.
- remove 24 ft. curb, 47 sq. ft. driveway. Engineer's estimate, \$9768.11.

SAN FRANCISCO—L. Sartorio, 2627 Lombard St., at \$92 awarded (informal) contract by Department of Public Works to construct about 900 sq. ft. sidewalk in 31st Ave. from Irving to Judah St.

LOS ANGELES, Calif.—Until 10 A. M., March 8, bids will be received by Board of Public Works (previously reported County Supervisors, which was in error) for grading, paving and otherwise improving San Pedro St. between Vernon Avenue and Flaxson Avenue, under cash contract, involving

- (1) grading (4630 cu. yds. excav.);
- (2) 217,118 sq. ft. 6-in. compressed concrete pavement;
- (3) 3365 sq. ft. 6-in. conc. pavement (Class E concrete);
- (4) 831 sq. ft. 8-in. concrete pavement (local depressions);
- (5) 577 sq. ft. 8-in. asph. conc. pave. (2-in. asph. conc. wearing surf. on 6-in. concrete base);
- (6) 480 sq. ft. asph. conc. wearing surface of variable thickness (average thickness 2-in.);
- (7) 12,729 sq. ft. rock and oil rdwy.;
- (8) 154 ft. curb armor;
- (9) 1935 ft. unplas. light curb;
- (10) 3838 sq. ft. 3-in. conc. sidewalk;
- (11) 406 sq. ft. 4-in. conc. sidewalk (driveways);
- (12) 253 sq. ft. 6-in. conc. sidewalk (driveways);
- (13) 23 sq. ft. 6-in. concrete gutter;
- (14) 64 sq. ft. 8-in. do;
- (15) storm drain and appurtenances, complete not inc. local depressions;
- (16) sanitary sewers, not inc. house connections;
- (17) 160 ft. 6-in. vit. house sewers;
- (18) ornamental lighting installation, complete;

(19) 21 manholes to be reset.
STANISLAUS, SAN JOAQUIN, Calaveras, Sacramento and Amador Co., Cal.—Until March 6, 3 P. M., bids will be received by R. E. Pierce, District Engineer, State Highway Commission, to apply Diesel oil to roadside vegetation over 110.7 roadside miles. Specifications obtainable from above office. Certified check 10% required with bid.

MONTEREY, SAN LUIS OBISPO and Santa Barbara Co., Cal.—L. A. Briscoe, Arroyo Grande, at \$2850 submitted low bid to District Engineer, State Highway Commission, San Luis Obispo, to apply Diesel oil to roadside vegetation over 120 roadside miles, involving 1500 barrels. Complete bids follow:

L. A. Briscoe, Arroyo Grande, \$1.90;
\$2850.
W. B. Roselip, San Luis, \$2.075;
\$3112.50.

Western Motors Transfer Co., Santa Barbara, \$2.17; \$3255.
Oilfields Trucking Co., Bakersfield, \$2.21; \$3315.

Peninsula Paving Co., \$2.30; \$3450.
Bids held under advisement.

VALLEJO, Cal.—Board of Education requests county supervisors to provide sidewalk along Nebraska St. from the high school to the Napa Road

BAKERSFIELD, Kern Co., Cal.—An \$86,000 loan approved by Reconstruction Finance Corporation for public improvements in Kern County.

WENATCHEE, Wash. — Chelan County Commissioners reject all bids for \$200,000 general obligation bonds; to refund a road bond issue; also for relief fund.

LOS ANGELES, Cal.—The total estimated cost of the proposed improvement of Santa Barbara Ave., between Third Ave. and Crenshaw Blvd., is \$65,000. Of the cost, the county will contribute \$43,043 and the city \$25,000. The proposed improvement calls for paving 30 ft. in width, a 24-in. storm drain between Sutro Ave. and Crenshaw Blvd. Rights-of-way have been conditionally promised by the Clara Baldwin Estate principally upon condition that no expense be attached to property involved.

TORRANCE, Los Angeles Co., Cal.—City Engineer Frank Leonard has announced that \$40,000 of Reconstruction Finance Corporation funds has been allotted to the city for street improvement for unemployment relief work. Among the streets to be improved are: Santa Fe Ave., Cabrillo Ave., and Lincoln Ave., three streets surrounding the new city park; Fern and Elm Sts., from Sonoma to Eldorado, near the Elm St. school; Torrance Blvd., between Cravens and Cedar; Sepulveda Blvd. east of Hawthorne.

ALAMEDA, SANTA CLARA AND MERCED Co., Cal.—Palo Alto Road Materials Co., 465 California Avenue, Palo Alto, at \$1.68 per bbl. submitted low bid to District Engineer, State Highway Commission, San Francisco, to apply 600 bbls. Diesel oil to roadside vegetation over 45 roadside miles. Complete bids follow:
 Palo Alto Road Materials Co. \$1.68
 Lee J. Immel, Berkeley 1.82
 Dee Strong, Sacramento 1.92
 Peninsula Paving Co., S. F. 2.20
 Pacific Truck Service, Inc., San Jose 2.25
 Oilfields Trucking Co., Bakersfield 2.31
 U. B. Lee, San Leandro 4.20
 Bids held under advisement.

SOLANO, YOLO AND SAN JOAQUIN Co., Cal.—R. M. Sheldon, Suisun, at \$1.56 submitted low bid to District Engineer, State Highway Commission, Sacramento, to apply Diesel oil to roadside vegetation over 108.8 roadside miles. Complete bids follow:
 R. M. Sheldon, Suisun \$1.56
 Lee J. Immel, Berkeley 1.788
 Dee Strong, Sacramento 1.80
 Peninsula Paving Co., S. F. 2.08
 Oilfields Trucking Co., Bakersfield 2.20
 C. F. Frederickson & Sons, Lower Lake 2.20
 Highway Builders, Ltd., San Anselmo 2.23
 Basalt Rock Co., Napa 2.52
 A. Teichert & Son, Sacto. 2.89
 Bids held under advisement.

SONORA, Tuolumne Co., Cal.—City council will extend and improve Stockton St. cooperating with the Division of Public Works, State Highway Commission. C. W. Terry, city engineer. Improvement will extend from city limits to the bridge over Sonora creek.

OREGON STATE — Washburn & Hall, Portland, at \$62,130 awarded contract by State Highway Commis-

sion, Portland, for 1.5 ml. grading and concrete paving Bear Creek-Ashland Section Pacific Highway.

LOS ANGELES, COUNTY, Cal.—Griffith Co., 502 Los Angeles Railway Bldg., Los Angeles, at \$51,705 awarded contract by State Highway Commission, Sacramento, to grade and pave with asphalt concrete 1.4 ml. in the City of Redondo Beach.

LOS ANGELES, Calif.—Until 10 A. M., March 8, bids will be received by board of public works to improve alleys in block south of 6th St. bet. Mesa St. and Pacific Ave., under the 1911 Act. The work will involve:
 (1) grading (311 cu. yds. cut, 9 cu. yds. fill);
 (2) 9593 sq. ft. 6-in. conc. pavement; remove: 845 sq. ft. pavement; 36 ft. board walk.
 Engineer's estimate, \$2064.70.

EL MONTE, Los Angeles Co., Cal.—Until 8 P. M., Feb. 27, bids will be received by city council to improve Lexington St. from Main St. to the Pacific Electric Ry., involving:
 (1) 283 tons asph. conc. base, in place
 (2) 432 tons asph. conc. wearing surf. in place.
 Mrs. Beatrice E. Darling, City Clerk.

PORTLAND, Ore.—Municipal Paving Plant at \$23,146 submitted low bid to city council to improve by paving, SE 39th Ave., et al. Complete bids follow:

Municipal Paving Plant—Asphalt concrete pavement, No. 1 on bituminous base, \$1.05 per sq. yd.; total \$23,146. Or Amiesite pavement on bit. base, \$1.13 per sq. yd., \$24,200.15.

Parker-Schram Co.—Amiesite pave. on bit. base, \$1.12½ sq. yd., \$23,452. Or asph. conc. pave., No. 2 on bit. base, \$1.12½ sq. yd., \$23,452. Or with concrete pave., No. 3, \$1.55 sq. yd., \$26,549.80.

West Contract Co.—Asph. concrete pave., No. 2 on bit. base, \$1.35 sq. yd., \$27,715.60. Or Amiesite pave. on bit. base, \$1.40 sq. yd., \$28,493.10. Or asph. conc. pave., No. 2 on bit. base, \$1.45 sq. yd., with conc. pave. No. 3 at \$1.48 per sq. yd., \$29,553.60.

Cascade Const. Co.—Asph. concrete pave., No. 1, on bit. base, \$1.44, \$30,776.90. Or Amiesite pave. on bit. base, \$1.44, \$30,776.90. Or asph. conc. pave. No. 1 on bit. base, \$1.44, with conc. pave. No. 3, \$1.50 sq. yd., \$31,312.90.

Engineer's estimate, \$29,523 and \$32,887.

LOS ANGELES COUNTY, Cal.—W. H. Carter, mayor of Santa Monica, has announced that further action toward the widening of the Palisades Beach Road between the foot of Colorado Ave. and Santa Monica Canyon is awaiting word from Earl Lee Kelly, state director of public works. A meeting between the director and the Santa Monica committee is to be arranged.

WOODLAND, Yolo Co., Cal.—Fred Knoop, Live Oak, at \$.0775 per cu. yd. awarded contract by Joint Highway District No. 12, Second and C Sts., Yuba City, to construct north approach to Knights Landing bridge, involving 2800 cu. yds. rough grading. Complete bids follow:
 Fred Knoop, Live Oak \$0.775
 Cloud & Sherman, Woodland .12
 S. J. Chesson, Yuba City .13
 Hemstreet & Bell, Marysville .16
 J. R. Reeves, Sacramento .188

SAN FRANCISCO—L. DeCew, 35 Frederick St., at \$102 awarded (informal) contract by Department of Public Works to construct sidewalks on west 18th Ave., between Ulloa and Vicente Sts.

LOS ANGELES Cal.—Until 10 A. M., March 15 (postponed from March 8) bids will be received by Board of Public Works for the improvement of 76th St., between 8th Ave. and 10th Ave., and portions of 77th St., 75th St., 8th Ave., 10th Ave. and the alley west of 8th Ave. under the 1911 Act. The proposed work involves:

- (1) grading (1371 cu. yds. cut);
 - (2) 44,288 sq. ft. 6-in. conc. paving;
 - (3) 4411 sq. ft. 6-in. asph. conc. paving;
 - (4) 150 sq. ft. 4-in. asph. concrete wearing surface;
 - (5) 230 sq. ft. 6-in. concrete gutter;
 - (6) 47 sq. ft. 4-in. conc. walk (drives)
 - (7) 6 ft. integral curb (no reinf. steel);
 - (8) 18 ft. light unplas. curb;
 - (9) water system complete;
 - (10) 22 water service connections;
 - (11) light conduit complete, lump sum;
- Remove 24 ft. curb, 47 sq. ft. driveway.
 Engineer's estimate, \$9768.11.

LOS ANGELES, Cal.—Until 10 A. M. March 22, bids will be received by the board of public works for the improvement of Barrington Ave. bet. Dorothy St. and Darlington Ave. and between Wilshire Blvd. and Santa Monica Blvd. and portions of other streets and alleys in the Barrington Avenue and Rochester Ave. Imp. Dist. Proceedings are under the 1911 act and the council will contribute 36,000 from the engineering special fund (County Aid Act). The estimated cost of the improvement is \$78,155.78.

The work involves:

- (1) grading, lump sum;
- (2) 12,798 sq. ft. 6-in. conc. paving;
- (3) 3786 sq. ft. 6½-in. do;
- (4) 565 sq. ft. 8-in. conc. local depressions;
- (5) 214,390 sq. ft. 6½-in. asph. conc. paving;
- (6) 80 sq. ft. 8-in. asph. conc. paving;
- (7) 1859 sq. ft. 4-in. asph. concrete wearing surface;
- (8) 3836 sq. ft. asph. conc. wearing surface (varying thickness);
- (9) 163 ft. unplas. heavy curb;
- (10) 8127 ft. unplas. light curb;
- (11) 3525 ft. reinf. integral curb;
- (12) 57,720 sq. ft. one-course walk;
- (13) 121 sq. ft. 4-in. walk;
- (14) 566 sq. ft. 6-in. walk;
- (15) 168 sq. ft. 6½-in. conc. gutter;
- (16) 106 sq. ft. 8-in. concrete gutter;
- (17) 10,747 sq. ft. 6½-in. comb. gutter;
- (18) 43 sq. ft. 8-in. do;
- (19) 26 ft. curb armor;
- (20) 160 ft. wooden guard rail;
- (21) 8 ft. std. wooder budkhead, 4 ft. high;
- (22) 49 ft. do, 8 ft. high;
- (23) 21 ft. do, 10 ft. high;
- (24) 18 ft. do, 12 ft. high;
- (25) 24 ft. do, 15 ft. high;
- (26) 70 ft. do, 16 ft. high;
- (27) storm drain and appurtenances, complete (est. \$8201.25);
- (28) 436 ft. house connection sewers;
- (29) lowering chimney pipes, lump sum;
- (30) 39.2 ft. 6-in. chimney pipe;
- (31) wat. system complete (not inc. service connections; ect. \$926);
- (32) remodel manholes (lump sum; est. \$324);
- (33) highway conduit complete (est. \$225);
- (34) move and reset light posts (est. \$100).

Engineer's estimate, \$69,062.55.

VERNON, Los Angeles Co., Calif.—Until 8 P. M., Feb. 28, new bids will be received by city council for guy cable and miscellaneous fittings and equipment.

BUILDING NEWS

APARTMENTS

February 17, 1933
Specifications Being Written.
APARTMENTS Cost, \$100,000
SAN FRANCISCO. Pacific Avenue.
Seven-story Class A steel frame, concrete and brick apartments (7x127 ft.) two elevators, steam heating system, garbage incinerator, tiled baths and kitchens, hardwood floors, electric refrigeration, etc.
Owner—Bargene Realty Co., Morwood Bldg., San Francisco.
Architect—Chas. E. J. Rogers, Phelan Bldg., San Francisco.
(9414) 1st report Aug. 27, 1932; 8th Feb. 3, 1933. 1

Preparing Working Drawings.
ALTER AND ADD Cost, \$9000
SAN FRANCISCO. Location withheld.
Alterations and additions to building (alter exterior of store and apartment, to contain four 3- and 4-room apts.) stucco exterior, tile and composition roof, gas fired steam heating system, mechanical refrigeration, etc.
Owner—Withheld.
Architect—Sydney Colton, 544 Market Street.

Plans Being Prepared.
ALTERATIONS Cost, \$—
KETCHIKAN, Alaska.
Alterations and additions to apts. (add 12 suites, electric refrigeration, electric ranges, radio outlets, hardwood floors, plumbing and heating facilities, hot water heating plant)
Owner—J. R. Heckman Co., Ketchikan
Architect—F. A. Naramore and C. J. Brady, Central Bldg., Seattle.
Bids will be asked in about thirty days.

Plans Being Figured.
APARTMENTS Cost, \$—
SAN FRANCISCO. N West Portal W Fourteenth Avenue.
Three-story and basement frame and stucco apartments (21 2 and 3-rm. apts.); tile and composition roof, fire places, steam heating system, hardwood floors, tiled baths, electric refrigeration, etc.
Owner—Mrs. F. Nelson.
Architect—H. C. Baumann, 251 Kearny St., San Francisco.
Bids are being taken for a general contract with separate bids for plumbing, heating and painting.

CHURCHES

SAN FRANCISCO—St. Paul's Episcopal Church, 2475 California Street, destroyed by fire. Estimated damage \$51,000. Three-story brick and stone construction. Rev. Leslie C. Kelly, Rector.

FACTORIES AND WAREHOUSES

February 17, 1933
Sub-Contracts Awarded.
PUMPING PLANT Cost, \$6000
AVON, Contra Costa Co., Cal.
Structural steel and hollow tile pumping plant.
Owner—Associated Oil Co., 79 New Montgomery St., San Francisco.
Plans by Engineering Dept. of Owner.
Contractor—Lindgren & Swinerton, Inc., 1723 Webster St., Oakland.
Structural Steel—Judson Pacific Co., Foot of Park Ave., Oakland.
Reinforcing Steel—W. S. Wetenhall,

17th and Wisconsin Sts., San Francisco.
Steel Sash—Detroit Steel Products Co., 111 Sutter St., San Francisco.
(715) 1st report Jan. 18; 3rd Feb. 4, 1933 4

February 17, 1933
Sub-Contracts Awarded.
RESIDENCE Cont. Price, \$23,749
SAN MATEO, San Mateo Co., Calif. Caralands Tract.
Two-story frame and stucco or brick residence (15 rooms, 5 baths; English type).
Owner—C. C. Young, 2223 Easton Dr., Burlingame.
Architect—Willis Polk Co., 277 Pine St., San Francisco.
Contractor—G. W. Williams Co., 315 Primrose Road, Burlingame.
Plumbing and Heating—James H. Pinkerton, 927 Howard St., S. F.
Sheet Metal—Garvey Sheet Metal Works, 1206 Donnelly Ave., Burlingame.
Lumber—Winsom Lumber Co., 1000 Broadway, Burlingame.
As previously reported, brick work awarded to Chas. Ohran, 1938 Chula Vista Ave., Burlingame; mill work to Pacific Mfg. Co., Santa Clara; grading to H. E. Casey Co., San Mateo.
(9911) 1st report Nov. 1, 1932; 4th Feb. 9, 1933. 4

February 17, 1933
Plans Being Completed.
SHED Cost, \$—
SAN FRANCISCO. Pier No. 35.
Shed for extension to Pier No. 35 (80 feet in length.)
Owner—State of California (Harbor Commission).
Engineer—Frank G. White, Ferry Bldg., San Francisco.
Bids will be asked in about two weeks.
(198) 1st report Dec. 2, 1932; 4th Jan. 27, 1933. 4

February 17, 1933
Plans Being Completed.
PRINTING PLANT Cost, \$100,000
SAN FRANCISCO. Washington Street, near Montgomery St. (125x127 ft.)
Two-story reinforced concrete printing plant.
Owner—Edward Barry Co., 32 Clay St., San Francisco.
Architect—H. A. Minton, 525 Market St., San Francisco.
Bids will be asked in about one week.
(9701) 1st report Oct. 4, 1932, 4th Feb. 7, 1932. 4

Prospective Bidders.
PLANT Cost, \$10,000
SAN FRANCISCO. Seventh and Harrison Streets.
One-story reinforced concrete printing plant (60x37 feet) steel sash, plumbing, heating and electric wiring, etc.
Owner—Daily Racing Form.
Architect—C. O. Clausen, 746 46th Avenue.
Following will submit bids. Bids open Feb. 24:
Villadsen Bros., 461 Market St.
James Hjul, 128 Russ Street.
Building Improvement Co., 918 Harrison Street.
M. E. Vukleevich, 666 Mission St.
Wm. Spivock, Hobart Bldg.
Aetna Const. Co., 166 Miramar St.
Mission Concrete Co., 272 Turk St.
O. K. Holt, 3957 Army St.
A. D. Disston, Hearst Building.
C. L. Wold, 693 Mission St.

SEATTLE, Wash. — Approximately \$125,000 will be spent in replacing the Union Pacific tie-treating plant at The Dalles, which was destroyed by fire recently. W. E. Doan, manager of the Forest Products Treating Co., lessees of the plant, made the announcement. Clearing of the wreckage will start immediately.

LANCASTER, Los Angeles Co., Cal. —Fernando Valley Milling & Supply Co., 6104 Van Nuys Blvd., Van Nuys, will erect a warehouse on Antelope Ave., Lancaster. The building will be a corrugated metal structure, 50x126 feet in area.

Sub-Contracts Awarded.
WAREHOUSE Cost, \$18,900
SAN JOSE, Santa Clara Co., Cal. SW Ninth and Mission Streets.
Two-story storage warehouse (heavy mill construction, built-up composition roof, concrete and wood floors, automatic sprinkler system, electric lighting, spur track); extreme dimension, 104x178 feet.
Owner—Continental Can Company, 155 Montgomery St., San Francisco.
Plans by Austin Co. of California.
Contractor—Austin Co. of California, 777 E. Washington St., Los Angeles.

Steel Sash — Detroit Steel Products Co., 111 Sutter St., San Francisco.
Lumber — Hammond Lumber Co., Alaska Commercial Bldg., San Francisco.
Cement — Central Supply Co., San Jose.
Rock & Sand—Tiffany McReynolds & Tiffany, San Jose.
Brick—Tanner Tile Co., Palo Alto.
Miscellaneous Iron — Helwig Iron Works, San Jose.
Sprinkler System — Grinnell Co. of the Pacific, 5th and Brannan Sts., San Francisco.
Awards will be made shortly on painting, roofing, glass and glazing.

Planned.
PLANT Cost, \$—
TRACY, San Joaquin Co., Cal.
Cheese plant (capacity of 15,000 pounds of milk daily).
Owner—Louis Calderoni, Livermore.
Architect—Not Given.
Agent—C. E. Ritter, Tracy.

FLATS

February 20, 1933
Contract Awarded.
FLATS Cost, \$10,000
SAN FRANCISCO. E Fillmore 125 N North Point St.
Two-story and basement frame and stucco flats (2 flats).
Owner—P. Scatena, 3637 Fillmore St.
Architect—R. R. Irvine, 2048 Market.
Contractor—L. Franceschi, 1408 Jefferson Street.

Contract Awarded.
FLATS Cost, \$7000
SAN FRANCISCO. SE Cervantes and Prado Streets.
Two-story and basement frame and stucco flats (2 5-room and breakfast room flats); composition and tile roof, steam heating system, brick steps, wrought iron rail, electric refrigeration, canvas walls and ceilings, hardwood floors, 2-car garage.
Owner—G. Jensen, 5 Prado St., San Francisco.
Architect—R. R. Irvine, 2048 Market St., San Francisco.
Contractor—V. Rasmussen, 1580 Beach St., San Francisco.

GARAGES AND SERVICE STATIONS

Sub-Contracts Awarded.
RESIDENCE Cost, \$5000
BERKELEY, Alameda Co., Calif. 825 Cragmont Avenue.
 One - story and basement frame and stucco residence (6 rooms).
 Owner and Builder—Milton S. Bonds, 2396 Hilgard Ave., Berkeley.
 Plans by W. W. Dixon, Fifth Ave. and E 14th St., Oakland.
Plumbing—Suendermann Plbg. Co., 921 University Ave., Berkeley.
Lumber—Hogan Lumber Co., Second and Allice Sts., Oakland.
Brick—W. H. Wisheropp, 3765 Brown Ave., Oakland.
Cement—East Bay Const. Co., 3817 San Pablo Ave., Oakland.

Contract Awarded.
ALTERATIONS Cost, \$8000
STOCKTON, San Joaquin Co., Cal. Miner Avenue and Hunter St.
 Alterations and additions to automobile sales headquarters building.
 Owner—C. M. Menzies.
 Architect—Frank V. Mayo, 108 E. Miner St., Stockton.
 Contractor—James A. Allen, 22 S. Sutter St., Stockton.

Contract Awarded.
GARAGE Cost, \$4000
STOCKTON, San Joaquin Co., Cal. No. 319 N. California Street.
 One-story public garage.
 Owner—Peter Pezzi, 229 N-California St., Stockton.
 Architect—Not Given.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$8000
STOCKTON, San Joaquin Co., Calif. Miner Ave. and Hunter St.
 Alterations and additions to automobile sales headquarters building.
 Owner—C. M. Menzies.
 Architect—Frank V. Mayo, 108 East Miner St., Stockton.
 Contractor—Jas. A. Allen, 22 S Sutter St., Stockton.
Steel—Paul Zakel, 935 E Scotta Ave., Stockton.
Concrete—Dave De Pall, Stockton.
Electric—Eddy Electric Co., 309 East Weher St., Stockton.
Plastering—J. Perry, 242 E Miner St., Stockton.
Lumber and Celotex—Stockton Lumber Co., 347 S Commerce Street, Stockton.
Glass—W. P. Fuller & Co., 218 South Aurora St., Stockton.
Sheet Metal—Hild Mfg. Co., 125 West Main St., Stockton.
Painting—A. H. Davies, 605 W Fremont St., Stockton.

Plans Being Prepared.
SERVICE STATION Cost, \$8400
YREKA, Siskiyou Co., Cal.
 Steel service station.
 Owner—Shell Oil Co., Shell Bldg., San Francisco.
 Plans by Engr. Dept. of Owner.

PRESCOTT, Ariz.—Standard Stations, Inc., Title & Trust Bldg., Phoenix have purchased property at East Gurley and North Marina Sts., Prescott, where they will erect an automobile service station to cost between \$15,000 and \$18,000.

Bids Being Taken.
SERVICE STATION Cost, \$5000
SAN FRANCISCO, SW California and Stelner Streets.
 Two one-story Class C service station buildings.
 Owner—Shell Oil Co., Shell Bldg., San Francisco.
 Plans by Engineering Dept. of Owner.
 Bids are being taken by owner for concrete work, grading, paving, electrical work and steel. Construction

will be done by day's work under owner's supervision.

GOVERNMENT WORK AND SUPPLIES

WASHINGTON, D. C.—Edwin F. Guth Co., 2615 Washington Blvd., St. Louis, Mo., at \$390 submitted only bid to Treasury Department for lighting fixtures to be furnished and installed in the U. S. post office building in Marysville, Calif.

SAN RAFAEL, Marin Co., Cal.—Glen W. Westover 1218 A St., Hayward, at \$480 awarded contract by Constructing Quartermaster, Hamilton Field, to move 1500 cu. yds. of unclassified materials (consisting of soft rock and soil) from borrow pit to warehouse and barracks area at Hamilton Field (2400 lin. ft. haul). Following bids received:

	Per. Yd.
Glen W. Westover.....	\$.32
Johnson & Nelson .....	.34
Main & Hoskinson.....	.345
Highway Builders, Inc.....	.375
Roberts E. Parish (less 2%).....	.38

KETCHIKAN, Alaska—Warrack Construction Co., McDowell Bldg., Seattle, awarded contract at \$8398 to construct traveling crane and structural steel shed, have let contracts on erection of the crane, also on structural steel to Isaacson Iron Works, Seattle; the corrugated iron will be furnished by Seattle Hardware Company.

Commissioned To Prepare Plans.
POST OFFICE Cost, \$100,000
HAYWARD, Alameda Co., Cal. United States Post Office.
 Owner—United States Government.
 Architect—Bliss & Fairweather Elba Bldg., San Francisco.

Commissioned To Prepare Plans.
POST OFFICE Cost, \$105,600
LODI, San Joaquin Co., Cal. United States Post Office.
 Owner—United States Government.
 Architect—S. Heiman 605 Market St., San Francisco.

SUNNYVALE, Santa Clara Co., Cal.—As previously reported, until Feb. 28, 11 A. M., bids will be received by Public Works Officer, 12th Naval District, 100 Harrison St., San Francisco, for small store facilities for barracks and enclosures for storehouse at the Naval Air Station, Sunnyvale. Work includes hollow tile, plaster, woven wire fabric partitions, painting, ornamental iron grilles, linoleum, steam heating and miscellaneous iron work. Specification No. 7225. Plans and specifications available from the above office upon deposit of \$5.
 See call for bids under official proposal section in this issue.
 (653) 1st report Feb. 10; 2nd, Feb. 15, 1933. 7

WASHINGTON, D. C.—As previously reported, Drying Systems, Inc., 1800 Foster Ave., Chicago, at \$11,990 submitted low bid to Bureau of Yards & Docks, Navy Department, for furnishing and installing air conditioning system at the Naval Operating Base, Pearl Harbor, T. H. Specification No. 7165. Following is a complete list of bids:
 Drying Systems, Inc., Chicago.....\$11,990
 York Ice Mach. Corp., Phila..... 13,480
 The Zack Co., Chicago..... 13,927
 Whitenmier Mach. Co., Chicago 14,000
 Von Harm Young Co., Honolulu 14,285
 Vilter Mfg. Co., Milwaukee..... 16,142
 J. L. Young Eng. Co., Honolulu 16,500
 Carbondale New York Co., New York City..... 16,566
 J. Hansen, Honolulu..... 16,846
 Carrier Brunswick International Inc., Newark, N. J..... 17,200
 Clarage-Fan Co., Milwaukee..... 17,945

VALLEJO, Solano Co., Cal.—Until March 15, 2 P. M., bids will be received by Treasury Department, Washington, D. C., for furnishing and installing interior lighting fixtures at the U. S. Post Office, etc., Vallejo. Plans and specifications available from above office.
 (726) 7

WASHINGTON, D. C.—Until March 1, bids will be received by the Army Department, Construction Division, Washington, D. C., for four equipment sheds, four stables, four covered picket lines with utilities for Fort Clayton, Canal Zone.
 (721) 7

WASHINGTON, D. C.—The following are prospective bidders in connection with landscaping for the Federal Building in Seattle, Wash. Bids open March 7:

J. J. Bonnell Nurseries, 26th Ave. North and East Glaer St., Seattle.
 Galbraith & Co., Pier 12, Seattle.
 Mountain Meadows Nurseries, McDowell Bldg., Seattle.

February 18, 1933
COMPLETE BID LISTING

WASHINGTON, D. C.—As previously reported, Murch Bros. Const. Co., Railway Exchange Bldg., St. Louis, Mo., at \$105,700 submitted low bid to Treasury Department for the construction of a one-story and basement Class A concrete and steel post office in Visalia for the U. S. Government. W. D. Coates, Jr., Rowell Bldg., Fresno, architect. Following bids received:
 (1) add for asphalt block walk.
 Murch Bros. Const. Co. St. Louis, Mo.\$105,700
 (1) 2,500
 North Moller Co., Jackson, Michigan\$109,989
 (1) 1,589
 Bannister - Field Co., Ltd., Los Angeles\$110,500
 (1) 2,700
 K. E. Parker Co., S. F.\$111,350
 (1) 2,940
 J. C. Boespflug, L. A.\$112,000
 (1) 1,200
 Rosen & Fischel, Chicago.....\$114,500
 (1) 2,000
 Wm. MacDonald Const. Co., St. Louis, Mo.\$116,800
 (1) 2,000
 Schuler & McDonald, Oakland.....\$117,000
 (1) 967
 Hiram Lyoyd Bldg. & Const. Co., St. Louis\$118,200
 (1) 3,000
 W. J. Ochs, San Jose.....\$120,480
 (1) 2,735
 Orndorff Const. Co., L. A.\$122,000
 (1) 7,000
 D. J. Reed, Los Angeles.....\$123,220
 (1) 2,000
 Andy Sordal, Long Beach.....\$128,000
 (1) 800
 Campbell Const. Co., L. A.\$129,500
 (1) 3,500
 *Peek Const. Co., Kansas City, Mo.\$97,917
 (1) 1,600
 *No bid bond or certified check.

WASHINGTON, D. C.—Reliance Iron & Wire Works, 1327 Waller St., Seattle, Wash., and E. J. Bartells Co., 1212 6th Ave. S., Seattle, have secured plans for the purpose of sub-letting bids to the Treasury Department for fencing, etc., in connection with the Federal Building in Seattle.
 (599) 1st report Feb. 4; 4th, Feb. 15, 1933. 7

WASHINGTON, D. C.—The following are additional contractors, et al, who have procured plans for the purpose of submitting bids to the Treasury Department March 15 for the construction of a two-story steel and masonry post office building in San Diego for the U. S. Government. Wm. T. Johnson, San Diego Trust and Sav-

ings Bank Bldg., San Diego, architect.

K. E. Parker Co., 135 South Park, San Francisco.

Bannister-Field Co., Ltd., 4101 Goodwin Ave., Los Angeles.

Consolidated Bldg. Specialties Co., 1760 Kettner Blvd., San Diego.

W. E. Kier Const. Co., 747 3rd St., San Diego.

Robt. E. McKee, P. O. Box 217, Arcade Station, Los Angeles.

R. E. Campbell, 108 W 6th St., Los Angeles.

Wm. MacDonald Const. Co., Syndicate Trust Bldg., St. Louis.

MacDonald Engr. Co., 1 La Salle St., Chicago.

Nathan Wohlfeld, 411 Construction Bldg., Dallas, Texas.

Landis & Young, Monroe, La.

Mittry Bros. Const. Co., 5531 Downey Road, Los Angeles.

McCloskey & Co., 1620 Thompson St., Philadelphia.

Walter Trepte, 211 Scripps Bldg., San Diego.

Coath & Goss, Inc., 1100 S State St., Chicago.

NAPA, Napa Co., Cal.—Until Mar. 15, 2 P. M., bids will be received by the Treasury Department, Washington D. C., for furnishing and installing interior lighting fixtures at the U. S. Post Office, Napa. Plans and specifications available from above office.

LIVERMORE, Alameda Co., Cal.—Following have procured plans for the purpose of submitting bids March 9 to the Supervising Superintendent of Construction, Veterans Administration Hospital, Palo Alto, for the construction of a pipe line, etc., on the water system at the Veterans Administration Hospital, Livermore. Work includes construction of one eight inch class 150 cast iron pipe line, provision of automatic control for existing pump, corrugated iron housing around pump, etc. An alternate bid will be received for installing pipe composed of asbestos fiber and cement in lieu of cast iron specified:

U. S. Pipe & Foundry Co., Monadnock Bldg., San Francisco.

P. L. Burr, 320 Market St., San Francisco.

KAHU, West Loch, T. H.—Kalihi Contracting Co., Honolulu, T. H., at \$3,250 awarded contract to construct boat landing at West Loch, Oahu.

SAN FRANCISCO.—Globe Electric Works, 1899 Mission St., at \$549 submitted low bid to Supervising Superintendent of Construction, Veterans' Hospital, Palo Alto, for secondary lighting service to Fort Miley, west, and for provisions for secondary service, Fort Miley, east. Following is a complete list of bids:

Globe Electric Works.....	\$549
B. J. Dougherty.....	580
Peerless Electric Works.....	625
Severin Electric Co.....	790
W. B. Baker Co.....	898
California Electric Const. Co.....	998

Bids held under advisement.

BERKELEY, Alameda Co., Calif.—Frink Corp., Rhode Island, New York, and 557 Market Street, San Francisco, at \$330 awarded contract by Construction Engineer, Berkeley, for directional markers in connection with the U. S. post office in Berkeley.

MARE ISLAND, Cal.—Wesco Pump Co., 951 Folsom St., San Francisco, can furnish proposals on the pumping equipment in connection with Mare Island Filtration Plant, for which bids will be opened Feb. 21. Specification No. 7079.

WASHINGTON, D. C.—Montgomery Elevator Company, Moline, Ill., at \$4435 submitted low bid to Treasury Department for furnishing and installing two freight elevators in the U. S. Post Office at San Jose. Second low bid was submitted by Kimball Bros. Company, Council Bluffs, Iowa, at \$4670.

Complete list of bids will be published shortly.

SAN PEDRO, Los Angeles Co., Cal.—Harron, Rickard and McCone, 2205 Santa Fe Ave., Los Angeles, submitted low bid to Bureau of Supplies & Accounts, Navy Department, on Feb. 7, at \$4211.20 and \$3823, for one turret lathe and attachments for San Pedro; Schedule 9482, Eng., Class 1039. Other bids were: Jones & Lamson Machine Co., \$4806.30; Smith-Booth-Usher Co., \$5611.85; Foster Machine Co., \$5611.85; Gisholt Machine Co., \$6812.

WASHINGTON, D. C.—Until Mar. 3, supplemental bids will be received by Treasury Department, Washington, D. C., for the construction of the U. S. Post Office at Silver City, New Mexico. Following will submit bids:

The H. W. Underhill Constr. Co., 235 N. Waco St., Wichita, Kansas.

Robt. E. McKee, El Paso, Texas.

R. Butke, 627 Paxton Block, Omaha, Nebr.

W. S. Bellows Constr. Co., 612 Oklahoma Savings Bldg., Oklahoma City, Okla.

Phelps-Drake Co., Metropolitan Life Bldg., Minneapolis, Minn.

Herbert M. Baruch Corp., 625 S. Olive St., Los Angeles.

Rosen & Fischel, Inc., 11 S. La Salle St., Chicago.

Clinton Campbell Contracting Co., P. O. Box 765, Phoenix, Ariz.

Glover & Boyington, Pampa, Tex.

Union Engineering Co., 5905 Pacific Blvd., Huntington Park, Calif.

Geo. M. Williamson, Albuquerque, New Mexico.

SANTA FE, N. M.—California Lawn Sprinkler Co., 1579 Riverside Drive, Los Angeles, awarded contract by the Treasury Department, at \$9713, for furnishing and installing lawn sprinkler system on the grounds of the U. S. court house at Santa Fe, N. M.

Bids Wanted—To Close March 10.

DORMITORY Cost, \$—

TEHLEQUAH, Oklahoma.

Boys' dormitory at Sequoyah Orphan Training School.

Owner—United States Government, Plans by Department of Interior, Washington, D. C.

Deposit of \$25 required for plans.

LONG BEACH, Los Angeles Co., Cal.—Hubeny Brothers submitted the low bid to the Treasury Department, Division of Supply, at \$8980, for steel furniture for the United States Post Office at Long Beach.

SAN DIEGO, Cal.—Expo Stucco & Art Marble Co., Juniper St., San Diego, submitted low bid to 11th Naval District at \$2697, for repairs to shower and dressing room units at the Naval Operating Base (Training Station) San Diego; Spec. No. 7202. Recommendation was made that the contract be awarded the low bidder.

The bids follow: Expo Stucco & Art Marble Co., (1) \$2697; (2) \$224.75; Southwest Onyx & Marble Co., (1) \$2978; (2) \$246.50; W. P. Melhorn, (1) \$3240; (2) \$270.

SAN PEDRO, Los Angeles Co., Cal.—The Treasury Department announces the purchase of property on the west side of Beacon St., between Eighth and Ninth Sts., San Pedro, as the site for the harbor district Federal building. This action nullifies the

government's move to secure title to the plaza site. The property selected has a frontage of 270 feet and a depth of 130 feet. The building will house the post office, customs department, immigration and public health service, steam boat inspection service, shipping commission and hydrographic office. It will cost approximately \$500,000. The Treasury Department has not announced whether the plans will be drawn by a private architect or by the supervising architect in Washington.

Preliminary Plans Completed.

POST OFFICE Cost, \$120,000

WHITTIER, Los Angeles Co., Cal. Washington Ave. and Bailey St.

One-story and basement steel and masonry post office.

Owner—United States Government.

Architect—R. L. Warren, Emporium Bldg., Whittier.

PEARL HARBOR, T. H.—Until Mar. 8, 11 A. M., bids will be received by District Public Works Officer, 14th Naval District, Pearl Harbor, T. H., for cleaning and painting the coaling plant trestle, two coal hoisting towers and the two coal chutes at the 14th Naval District (Naval Fuel Depot), Pearl Harbor, T. H. Specification No. 7236. Plans and specifications available from above office and from the Commandant, 12th Naval District, 100 Harrison St., San Francisco, upon deposit of \$10.

Sub-Contracts Awarded.

POST OFFICE Cont. Price, \$72,587

OREGON CITY, Oregon.

One-story and basement reinforced concrete post office (52x112 feet) with brick wing (15x25 feet) brick and terra cotta exterior.

Owner—United States Government.

Architect—Knighton & Howell, U. S. National Bank Bldg., Portland.

Contractor—Dougan-Hammond Const. Co., Studio Bldg., Portland.

Plumbing, Heating, Oil Burner Equipment—Urban Plumbing and Heating Company.

Sand and Gravel—Oregon City Sand and Gravel Company.

Cement—Oregon Portland Cement Co. Oswego.

Reinforcing Steel—Sweet's Steel Company, Williamsport, Pa.

Granite—John Clark Granite Co., Chicago.

Lathing and Plastering—T. V. Summerville, Portland.

As previously reported, excavation awarded to Fisher Bros., Oregon City.

KETCHIKAN, Alaska—A. C. Kreidler, Ketchikan, at \$3,966 (complete in 40 days) submitted low bid to U. S. Engineer Office, Seattle, to construct a concrete curb wall 853-ft. long on the existing rock fill breakwater at Ketchikan. Strandberg & Co., Seattle, second low at \$4,392; Stone and Jackson, Seattle, third low at \$4,427. Bids held under advisement.

Bids Wanted—To Close March 24.

POST OFFICE Cost, \$150,000

VENTURA, Ventura Co., Cal. Santa Clara and Fir Streets.

Two-story and basement masonry and steel post office (146x110), cream colored face brick exterior, terra cotta trim, stone base course, tile roof, tile floor and wainscoting, redwood ceiling in lobby, metal windows, steam heat, vaults, etc.

Owner—United States Government.

Architect—Harold E. Burket, 455 East Main St., Ventura.

LOS ANGELES, Cal.—The following have procured plans for the purpose of submitting bids to the Supervising Superintendent of Construction, Veterans' Hospital, Palo Alto, March 6 for one garbage incinerator at the Veterans' Administration Home

West Los Angeles. Work includes excavation, grading, reinforced and plain concrete, brick work, common and fire, miscellaneous steel and iron work, including angle iron railing, cast iron grate, draft and charging doors, etc.

Andy Sordal, Los Angeles.
C. U. Martin, 627 Minna St., San Francisco.
Ludwig Co., 960 Natoma Street, San Francisco.
Acme Engineering Co., Los Angeles.
Alhambra Foundry, Alhambra.

CHEHALIS, Wash.—Murch Brothers Const. Co., Railway Exchange Bldg., St. Louis, awarded the following sub-contracts in connection with the construction of the U. S. post office building in Chehalis. Cost, \$97,500.
Brick—Chehalis Brick & Tile Co.
Cement—John Dower Lbr. Co., Chehalis.

Sand and Gravel—R. J. Callahan, Chehalis.
Terra Cotta—Washington Brick, Lime & Pipe Co., Spokane.
Reinforcing, Steel—Pioneer Sand and Gravel Co., Seattle.
Structural Steel—Isaacson Iron Wks., Seattle.
Placing Forms and Concrete—E. T. Henderson, Longview.
Plumbing and Heating—Massart Bros. Corp., Seattle.

SAN DIEGO, Cal.—Until 11 A. M., March 7, bids will be received by the Public Works Officer, Naval Operating Base, 11th Naval District, San Diego; Spec. No. 7227. Work consists of (a) the provision of materials for and the construction of two timber floats each approx. 14 ft. wide and 43 ft. long; and (b) the delivery of the two floats to the Government at the Destroyer Base. Government will provide mooring and place the floats. If bidding data is desired, contractor should forward to the Public Works Officer, Headquarters, 11th Naval District, ft. of Broadway, San Diego, a check or postal money order for \$10 payable to the Chief of the Bureau of Yards and Docks, as security for the safe return of the drawing and specification. Data will then be mailed for bidding purposes. DeWitt C. Webb, Captain, U. S. N., Public Works Officer.

WASHINGTON, D. C.—W. J. Ochs, American Trust Company Bldg., San Jose, at \$268,517 submitted low bid on terra cotta and Rosen & Fischel, Chicago, Ill., at \$257,300 submitted low bid on cement plaster to Treasury Department, for the construction of two-story and basement Class A Post Office Building to be erected at First and St. John Sts., San Jose. Ralph Wyckoff, First National Bank Bldg., San Jose, Architect, Leland & Haley, 58 Sutter St., San Francisco, mechanical engineers; L. H. Nishkian, 525 Market St., San Francisco, structural engineers. The two bids follow:

(1) terra cotta; (2) cement plaster;
W. J. Ochs, San Jose.....(1) \$268,517
(2) 258,917
Rosen & Fischel, Chicago, Ill.
(1) 263,800
(2) 257,300

Complete list of bids will be published shortly.

Commissioned To Prepare Plans.
FEDERAL BLDG. Cost, \$450,000
SAN PEDRO, Los Angeles Co., Cal.
Beacon St., bet. 8th and 9th Sts.
U. S. Federal Building (270x130 ft.); will house post office customhouse, immigration and public health service, boat inspection, hydrographic office, etc.
Owner—United States Government.
Architect — Gordon B. Kaufmann, Union Bank Bldg., Los Angeles, and W. Horace Austin, 532 Chestnut Ave., Long Beach.

SUNNYVALE, Santa Clara Co., Cal.—Roy Lind, 54 Stanton St., San Francisco, at \$2127 submitted low bid to Public Works Officer, 12th Naval District, 100 Harrison St., San Francisco, for wagon scales of the suspended-platform, direct-reading dial type, 40,000 pounds capacity, the work to include excavation, reinforced concrete pit and platform, weighing mechanism, housing for indicating mechanism and drainage provisions at the Naval Air Station, Sunnyvale. Specification No. 7191. Following is a complete list of bids:

Roy Lind, San Francisco.....\$2127
Dinwiddie Constr. Co., S. F..... 2310
R. J. Kennedy..... 2387
Robert McCarthy, San Francisco 2638
Theo. Johanns, San Francisco.... 2888
A. H. Vogt, San Francisco..... 2970
G. W. Williams Co., Burlingame 3395
Edward R. Bacon Co., S. F..... 3487

Low Bidders.
BUILDINGS, ETC. Cost, \$—
PORT ORFORD, Oregon.
Large dwelling to house officers' quarters, etc., laundry, storm clothes room, storage rooms, toilets, showers, etc.; two-story and basement frame construction; frame boat house (60x36 ft.) 288 launchway, concrete piers and trackage for life boats; frame garage (46x24 feet) two-story cottage (34x27 ft.) reinforced concrete reservoir, 14x12 ft.; pump house, 10x12 feet; water supply system, standard look out tower, etc.
Owner—United States Government.
Plans by Coast Guard Headquarters, Washington, D. C.

Low Bidder—Yuhaz and Olson, 4174 Connecticut St., Gary, Ind.
Following are three low bids:
(1) boathouse; (2) cottages.
Yuhaz & Olson, Gary, Ind....(1) \$22,594
(2) 6,280
Leisch & Lofte, Marshfield, Oregon(1) \$24,570
(2) 5,800
A. Del Guzzo, Portland.....(2) \$ 5,400
C. Ted Brady Co., Seattle....(2) \$ 5,430
Complete list of bids will be published shortly.

WASHINGTON, D. C.—Bids are being received by the Bureau of Supplies and Accounts, Navy Department Washington, D. C., to furnish and deliver supplies and equipment for various Pacific Coast navy yards and stations, further information concerning the schedules listed being obtainable from the Navy Purchasing Office, 100 Harrison St., San Francisco:

Bids Close March 7
Mare Island, 9200 lbs. naval bar brass; sch. 9628.
San Diego, 30,000 lbs. boiler compound; sch. 9644.
San Diego, 50 oil fillers, Mare Island, 100 do; Puget Sound, 36 do; San Diego, 700 oilers; Mare Island 3000 do; Puget Sound, \$392 do; sch. 9641.
Puget Sound, 30 rolls templet paper; sch. 9637.
Puget Sound, 1 motor-driven oil grooving machine; sch. 9643.
East or West yard, 1 motor-driven turbo compressor; sch. 9646.
East and West yards, water gauge glasses; sch. 9642.
East and West yards, angle relief valves and spare springs; sch. 9633.

Bids Close March 14
Mare Island, 200 storage battery groups and straps and 32,000 wood separators for storage batteries; sch. 9648.

WASHINGTON, D. C.—Until March 22, bids will be received by the Constructing Quartermaster, March Field, Riverside, Calif., for foundation for officers' mess building at March Field. Appropriation, \$45,000.

MARCH FIELD, Riverside, Calif.—Until 10 A. M., March 20, bids will be

received by the Quartermaster Corps, March Field, for furnishing and installing steel fabric guards (Steelcrete or equal) for windows and doors on quartermaster warehouse building No. P-23, March Field; Proposal 724-33-43.

BREMERTON, Wash.—Until Mar. 6, 10 A. M., under Itq. No. NSA-8/7594, bids will be received by Supply Officer Puget Sound Navy Yard, to furnish 650 lbs. steel, medium, black, bar, flat Grade M, size 3/4x1 3/4-in., in 16- to 20-ft. lengths, weight 2.23 lbs. per ft. Delivery above, March 23, or f.o.b. carrier at or near contractor's works.

WASHINGTON, D. C.—Until March 17, 2 P. M., bids will be received by Treasury Department, Office of the Supervising Architect, Washington, D. C., for furnishing and installing interior lighting fixtures at the U. S. Post Office and Court House, etc., at Billings, Montana. Plans and specifications available from above office.

MARE ISLAND, Calif.—Thomas J. Doyle, 1527 17th Ave., San Francisco, at \$14,457 submitted low bid to Public Works Officer, Mare Island Navy Yard, for furnishing and installing oil tanks on a concrete platform, all supported on a pile foundation, including earth fill berm, asphalt macadam lined oil basin, pump house with pit, pumps, purifier, piping and electric wiring, all complete. Specification No. 7079. Following is a complete list of the bids:

Thos. J. Doyle, San Francisco.....\$14,457
Bennett & Taylor, L. A..... 14,692
Duncanson-Harrelson, S. F..... 15,465
Baldwin & Entler, Berkeley..... 15,555
Lindgren & Swinerton, S. F..... 16,700
A. H. Vogt, S. F. 16,730
Butte Elec. Co., S. F. 16,910
Pittsburgh-Des Moines Steel Co.
San Francisco 17,770
F. J. Early, Jr., S. F..... 18,055
R. B. McNair, Oakland 19,300
Bids referred to Washington for award.

PANAMA CANAL ZONE — Until March 7, 10:30 A. M., under Schedule No. 2840, bids will be received by the General Purchasing Officer, Panama Canal Zone, Washington, D. C., to furnish lumber (flooring ceiling, drop siding, common boards, car-stake material, dimension and structural material) southern yellow pine, Douglas fir and hemlock. Specifications obtainable from above office.

MONTEREY, Monterey Co., Cal.—The Frink Corp., Long Island City, N. Y., has been awarded a contract by the Treasury Department, at \$330, for illuminating signs for the Monterey Post Office.

SACRAMENTO, Cal.—Until Mar. 3, 3 P. M., under Circular Proposal No. 33-237, Specifications No. 5209, bids will be received by U. S. Engineer Oce, California Fruit Bldg., Sacramento, to drydock, paint and repair the U. S. Engineer Department deck barge "L." Specifications obtainable from above office.

WASHINGTON, D. C.—Until March 20, 2 P. M., bids will be received by Treasury Department, Office of the Supervising Architect, Washington, D. C., for furnishing and installing interior fixtures at the U. S. post office, etc., Tooele, Utah. Plans and specifications available from above office.

SAN FRANCISCO.—Until March 1, 2:30 P. M., new bids will be received by U. S. Forset Service, Ferry Bldg., to furnish:
(1) 300 back pack pump outfits;
(2) 48 pumps;
(3) 24 tanks.
Specifications obtainable from above.

BREMERTON, Wash.—Until Mar. 6, 10 A. M., under Req. No. NSA-8/7592, bids will be received by Supply Officer Puget Sound Navy Yard, to furnish 300 bolts, machine, steel, National-Coarse-Thread-Series, hexagon head and nut, Class 3, length under head 6-in., threads per inch 7, dia. of body 1 1/8-in.
 350 do., dia. of body 5/8-in., length under head 1 3/4-in., 11 threads per in. Delivery March 27.

MARE ISLAND, Cal.—The following bids received by Public Works Officer, Mare Island Navy Yard, for moving frame quarters and other buildings at the U. S. Navy Yard, Mare Island.

- (1) moving bldgs., installing foundations, service connections, etc.;
 - (2) moving buildings and foundation work;
 - (3) moving buildings only.
- W. Bayles, 2110 Market Street, Oakland
- | | |
|----------|---------|
|(1) | \$2,500 |
|(2) | 2,050 |
|(3) | 956 |
- J. B. Petersen & Son, Oakland
- | | |
|----------|---------|
|(1) | \$3,140 |
|(2) | 2,500 |
|(3) | 1,000 |
- H. Fredericksen, Vallejo.....(1) \$3,290
- | | |
|----------|-------|
|(2) | 3,015 |
|(3) | 1,220 |
- D. J. Sueell, Oakland.....(1) \$3,309
- | | |
|----------|-------|
|(2) | 3,000 |
|(3) | 1,500 |
- O. F. Brown, Sacramento.....(1) \$3,703
- | | |
|----------|-------|
|(2) | 2,457 |
|(3) | 1,246 |
- Hanson Bros, S. F.....(3) \$1,950
- Bids referred to Washington for award.

MODESTO, Stanislaus Co., Cal.—Treasury Department, Washington, D. C., has approved equipment bids in connection with the Modesto Post Offices as follows. Murch Bros., Railway Exchange Bldg., St. Louis, Mo., contractors:

Plumbing fixtures, Standard Sanitary Mfg. Co.; electric water coolers, Halsey-Taylor Co.; indirect water heater, Excelsio Products Corp.; pressure-reducing valve on water supply, Chas M. Bailey Co.; lawn sprinkler nozzles, Thompson Mfg. Co.; non-conducting covering for plumbing, Johns-Manville Co.; sump pump, Well Pump Co.; boiler, Fitzgibbons Boiler Co.; tube radiators, American Radiator Co.; will radiators, American Radiator Co.; angle radiator valves, Walworth Mfg. Co.; air valves for end of steam mains, Hoffman Speciality Co.; nonconducting covering for heating, Johns-Manville Co.; oil regulators, Minneapolis Honeywell Co.; oil burner, for heating boiler only, Enterprise Oil Burner Co.; brass pipe, Chase Brass & Copper Co.; pipe hangers and inserts, Grinnell Co.; coalburning water heater, American Radiator Co.; lighting distributing panel, Diamond Electric Mfg. Co.; feeder panel, Diamond Electric Mfg. Co.; covered wire, John A. Roebling's Sons Co.; conduit, Triangle Conduit Co.; switches, Hart & Hlegeman; pendant switches, Pass & Seymour; sockets, Pass & Seymour; glassware, Inland Glass Co., Mabeth-Evans Co., and Goodrich Elec. Co.; lighting fixtures, Walter G. Warren & Co.

WASHINGTON, D. C.—Until March 20, 2 P. M., bids will be received by Treasury Department, Office of the Supervising Architect, Washington, D. C., for furnishing and installing interior fixtures at the U. S. post office, etc., Oregon City, Oregon. Plans and specifications available from above office.

WASHINGTON, D. C.—Following have procured plans for the purpose of submitting bids to the Veterans Ad-

ministration, Arlington Bldg., Washington, D. C., on February 28 for constructing and finishing patio, garden walks, pool, etc. at the Veterans' Administration Building Albuquerque, New Mexico:

- Poe Construction Co., Inc., Greenville, S. C.
- Johnson Chimney Co., Wilcox Bldg., Los Angeles.
- Henry L. Grohne, P. O. Box 1112, Springfield, Ill.
- Edward Lembke & Co., 324 N. Third St., Albuquerque, N. M.
- MacIntosh & McFarlan, 6307 N Comac St., Philadelphia, Pa.
- Robert E. McKee, El Paso, Texas.

WASHINGTON, D. C.—The following are additional contractors who have procured plans for the purpose of submitting bids to the Treasury Department on March 7 for the construction of a masonry inspection station to be erected in Tecate, San Diego County, Calif., for the U. S. Government:

- Salem Constr. Co., 35 New Derby St., Salem, Mass.
- Callaned & Eden, 1323 11th St., San Diego.
- W. E. Kler Constr. Co., 747 3rd Ave., San Diego.
- Weymouth, Crowell Co., 2104 E. 15th St., Los Angeles.
- Floyd Shofner, 5670 Wilshore Blvd., Los Angeles.
- J. E. Burrell, 346 Euclid St., Long Beach, Calif.
- Bannister-Field Company, Ltd., 4101 Goodwin Ave., Los Angeles.
- Campbell Constr. Co., 315 Southwestern Ave., Los Angeles.
- Harman Pacific C. 422 N. Third St., Los Angeles.
- Andy Sordal, 722 Magnolia Ave., Long Beach.
- O. H. Strauser, 900 Dawson Ave., Long Beach.
- Ramey Bros., Mills Bldg., El Paso, Texas.
- Rainey & Macisaac, 2100 E. 25th St., Los Angeles.

WASHINGTON, D. C. — Bannister-Field Co., 4101 Goodwin Ave., Los Angeles, at \$129,800 awarded contract by Treasury Department for the construction of a two-story masonry and steel Federal Building to be erected at Yuma, Arizona. Building will house the post office, immigration and custom departments. Plans prepared by Architect Roy Place, 70 N. Stone Ave., Tucson, Arizona.

WASHINGTON, D. C.—Until March 22, bids will be received by the Constructing Quartermaster, March Field, Riverside, Calif., for the construction of barracks at March Field. Appropriation, \$22,500.

WASHINGTON, D. C.—Until March 22, bids will be received by the Constructing Quartermaster, March Field, Riverside, Calif., for the construction of a contagious ward and medical detachment at March Field for the U. S. Government.

SAN FRANCISCO.—Bids will be asked within a few days by the Constructing Quartermaster, Fort Mason, for a 300 lineal foot timber and creosoted pile bulkhead to be constructed along Crissy Field shore line.

WASHINGTON, D. C. — Edwin F. Guth Co., 2615 Washington Ave., St. Louis, Mo., at \$281 awarded contract by Treasury Department for interior lighting fixtures for the post office at Bingham Canyon, Utah.

SAN FRANCISCO — L. C. Dunn, 2812 Buena Vista Ave., has started work on work benches, lockers and wood shelving at the U. S. Marine Hospital. Cost, \$1075.

Commissioned To Prepare Plans. POST OFFICE Cost, \$175,000 SALINAS, Monterey Co., Cal. United States Post Office. Owner—United States Government. Architect—O'Brien Bros. and W. D. Peugh, 333 Montgomery St., San Francisco.

PANAMA CANAL ZONE — Until March 6, 10:30 A. M., under Schedule No. 2841, bids will be received by the General Purchasing Officer, Panama Canal Zone, Washington, D. C., to furnish miscellaneous equipment and supplies, including steel, cable, wire, lamp cord, electric range water heaters fans meter-testing blocks, transformers, terminal tubes, fuses, conduit fittings, electric fixtures pipe, pipe fittings gate valves, dies, coil chain, wrenches, vises, calcium chloride etc. Specifications obtainable from above office.

HALLS AND SOCIETY BUILDINGS

Plans Submitted. REMODEL Cost, \$— RED BLUFF, Tehama Co., Cal. Remodel school for Veterans' Memorial. Owner—County of Tehama. Architect—Not Selected. Plans were submitted by the following architects: Dragon & Schmidts, Berkeley; W. E. Coffman, Sacramento; William Herbert, Santa Rosa, and Chester Cole, Chico. Selection of an architect will be made March 6.

Plans Being Figured. ALTERATIONS Cost, \$— OAKLAND, Alameda Co., Cal. No. 1441 Franklin Street. Alterations to club. Owner—University Club, Jackson and Lake Sts., Oakland. Plans by Jack Minchin, 954 12th St., Oakland.

Plans Being Figured — Bids Close March 6. CLUBHOUSE Cost, \$2000 SAN MATEO, San Mateo Co., Cal. Foot of Peninsular Avenue. One-story frame and stucco clubhouse (40x30 ft.); Spanish type, tile roof, metal sash, electric heat (will house administrative offices, rest rooms and small cafe). Owner—City of San Mateo. Architect—Thomas M. Edwards, 525 Market St., San Francisco.

HOSPITALS

Preparing Plans. HOSPITAL Cost, \$— ANAHEIM, Orange Co., Cal. Hospital (to provide 25 beds); brick and hollow tile walls, tile and composition roofing, steel sash, wrought iron, electric refrigeration, gas steam radiators or gas unit heating, tile baths, etc. Owner—Miss Elizabeth Martin. Architect—Everett Parks, 423 N. Claudina St., Anaheim.

Contract Awarded. ADDITION Cost \$5000 SAN JOSE, Santa Clara Co., Cal. 21st and Santa Clara Sts. Frame and stucco addition to sanitarium (to accommodate physiotherapy X-ray and surgery depts., rest rooms, etc.) Owner—Garden City Sanitarium (Dr. Charles R. Campbell, et al), San Jose. Architect—Not Given. Contractor — R. C. Knight, Mountain View.

Contract Awarded.
LABORATORY Cost, \$25,000
LOS ANGELES, Los Angeles Co., Cal.
 No. 218 N. Boyle Avenue.
 Three-story Class C brick and concrete clinical laboratory (33x53 ft.) 30 rooms; composition roof wood trusses, cast stone trim, fire escapes, metal clad doors, hollow tile partitions, drinking fountain, acoustical plaster, brick incinerator, Celotex insulation, compressed air piping, concrete retaining wall.
 Owner—College of Medical Evangelists 312 N. Boyle Ave., Los Angeles.
 Architect—Myron Hunt and H. C. Chambers, 408 S. Spring St., L. A.
 Contractor—C. I. Swinhart, 1642 S. Garth St., Los Angeles.

HOTELS

Plans Being Prepared.
HOTEL Cost, \$550,000
SEATTLE, Wash. Alki Point (128x 789 feet).
 Seven-story hotel (terra cotta exterior); swimming pool (56x100), shelter (120x140), dining rooms, penthouse, shops, coffee room, etc.
 Owner—Withheld.
 Architect—William G. Brust 215 N-50th St., Seattle.

Contract Awarded.
IMPROVE HOTEL Cost, \$—
OAKLAND, Alameda Co., Cal. Thirty-fifth St. and San Pablo Ave.
 General improvements to hotel.
 Owner—California Hotel (J. C. Cooper, General Manager), 35th St. and San Pablo Ave., Oakland.
 Architect—Not Given.
 Contractor—J. S. O'Shanna, % Owner.
 Work will not be started immediately.

ICE AND COLD STORAGE PLANTS

February 17, 1933
Planned.
ICE PLANT Cost, \$60,000
HANFORD, Kings Co., Cal.
 Reinforced concrete ice mfg. and distributing plant (30-ton capacity) offices, show room, etc.
 Owner—Guy G. Redwine, care Cyclops Iron Works, 1837 Merced Street, Fresno.
 Architect—Not Selected.
Owner Taking Lumber Bids.
PRECOOLING HOUSE Cost, \$6000
SANTA ROSA, Sonoma Co., Cal.
 Two-story wood frame pre-cooling house (20x120 feet) to connect to main warehouse.
 Owner—Grace Brothers.
 Engineer—L. H. Nishkian, 525 Market St., San Francisco.

POWER PLANTS

VERNON, Los Angeles Co., Calif.—
 Until 8 P. M., Feb. 28, new bids will be received by city council to furnish for a period of one year full length Western Red Cedar poles under Spec. No. 58. Bids will be taken on the following lengths:
 (1) 17-ft. poles; (9) 60-ft. poles;
 (2) 25-ft. poles; (10) 65-ft. poles;
 (3) 30-ft. poles; (11) 70-ft. poles;
 (4) 35-ft. poles; (12) 75-ft. poles;
 (5) 40-ft. poles;
 (6) 45-ft. poles; (13) 80-ft. poles;
 (7) 50-ft. poles; (14) 85-ft. poles;
 (8) 55-ft. poles; (15) 90-ft. poles.
 Howard H. McCurdy, city engineer.
 The bids received Feb. 13 were returned unopened.
VERNON, Los Angeles Co., Calif.—
 Until 8 P. M., Feb. 28, bids will be

received by city council to furnish and erect exhaust and scavenging air pipes and appurtenances for service with Diesel engines in power plant under Spec. No. 63. Howard S. McCurdy, city engineer. T. J. Furlong, city clerk.

VERNON, Los Angeles Co., Calif.—
 Until 8 P. M., Feb. 28, bids will be received by city council to construct manholes, conduit lines, feeder terminal and dead end poles, under Spec. No. 61. Howard S. McCurdy, city engineer.

VERNON, Los Angeles Co., Calif.—
 Until 8 P. M., Feb. 28, new bids will be received by city council to furnish general field switches f. o. b. power house, Vernon, under Spec. No. 60.
 Howard H. McCurdy, city engineer.
 The bids received Feb. 13 were returned unopened.

LOS ANGELES, Cal.—Stanton-Reed Co., 816 W 5th St., submitted low bid to Los Angeles county supervisors at \$3121, for construction of new concrete smokestack for power house GH-20 at the Los Angeles General Hospital, 1100 Mission Road. Plans were prepared by Wm. Davidson, Los Angeles County mechanical engineer, Hall of Records. Bids follow: Stanton-Reed Co., \$3121; Weber Chimney Co., \$3350; for concrete lining in lieu of fire brick, deduct, \$360; Houghton and Anderson, \$3853; John T. Bibb, \$3,882; John Strona, \$3910; Contracting Engineers, \$4250; Rust Eng. Co., \$4572 Gene B. Foster, \$4641; C. C. Moore & Co., \$5033 using wood forms; alternate proposal of \$5033 for Alphons Custodis concrete chimney; Johnson Chimney Co., \$5685.

LOS ANGELES, Cal.—Harry Bakelw, 652 San Julian St., submitted low bid to county supervisors at \$4997, for construction of steam piping for new boilers in power house GH-20 at the Los Angeles General Hospital, 1100 Mission Road; Specifications No. 230. Plans were prepared by Wm. Davidson, Los Angeles County Mechanical Engineer, Tenth Floor, Hall of Records.

Completing Plans.
SUBSTATION Cost, \$75,000
PALMS, Los Angeles Co., Cal.
 One-story brick and concrete power substation (130x50 ft.); steel roof, trusses and columns, concrete roof and floor, ruff brick facing, art stone trim, steel sash, hollow metal doors etc.
 Owner—Los Angeles Bureau of Power & Light.
 Architect—F. L. Roehrig, 35 S. Raymond Ave., Pasadena.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

SAN FRANCISCO. — Herman Lawson, 465 Tehama St., at \$2,375 awarded contract by San Francisco War Memorial Trustees for alterations to the sprinkler system in the Veterans' Building, Civic Center, San Francisco.

SAN FRANCISCO — Herman Lawson, 465 Tehama St., at \$2375 awarded contract by Trustees of the San Francisco War Memorial for overhead pipe system for the Veterans' Building, San Francisco.

Planned.
REMODELING Cost, \$—
SANTA ROSA, Sonoma Co., Cal.
 Remodel women's quarters in county jail.
 Owner—County of Sonoma.
 Architect—Not Given.

RESIDENCES

Plans Being Figured.
RESIDENCE Cost, \$—
LOS ANGELES, Los Angeles Co., Cal.
 Lake Sherwood District.
 Two-story and basement stone-tile residence (12 rooms); tile roof, gas unit heating system, wrought iron, electric refrigeration, steel sash, etc.
 Owner—Withheld.
 Architect—Paul R. Williams, 3839 Wilshire Blvd., Los Angeles.

Sub-Contracts Awarded.
RESIDENCES Cost, \$5000
SAN JOSE, Santa Clara Co., Cal. No. 1597 Shasta Avenue.
 One-story frame and stucco residence (6 rooms) split red-wood shake roof, gas hot air heating system, hardwood floors, electric refrigeration, tile bath, knotty ceiling textured plaster walls, etc.
 Owner—Joseph P. Evans, San Jose.
 Architect—Not Given.
 Contractor—George Kocher, 1030 Ashbury St., San Jose.
Plumbing—Frank J. Cox, 1328 Emory St., San Jose.
Concrete — James C. Bateman, 555 Hedding St., San Jose.
Electric Wiring — Henry C. Folsom, 925 Delmas Ave., San Jose.

To Ask Bids In About One Week.
RESIDENCE Cost, \$—
SAN FRANCISCO. W San Andreas Ave. (St. Francis Wood).
 Two-story and basement frame and stucco residence (9 rooms and 3 baths); tile roof, canvas walls, oak flooring, electric refrigeration, etc.
 Owner—Mr. and Mrs. Thos. C. Boyle.
 Architect—H. C. Baumann, 251 Kearny St, San Francisco.

Bids In Held Under Advisement.
RESIDENCE Cost, \$12,000
SAN MATEO, San Mateo Co., Cal.
 Baywood Park.
 Two-story and basement frame and stucco residence (10 rooms and 3 baths); tile roof hot air heating system, oak floors, electric refrigeration, etc.
 Owner—C. J. Duffy.
 Architect — C. Hugh Kirk, Los Angeles.
 (410) 1st report Jan. 11; 2nd Jan. 25, 1933. 14

Bids Wanted—To Close Feb. 28.
RESIDENCE Cost, \$—
REDWOOD CITY, San Mateo Co.
 Two-story brick and steel residence (6 rooms and 2 baths steel sash, electric refrigeration, tiled baths.
 Owner—A. B. Cheatham.
 Architect—J. K. Ballantine, 137 Harlan Place, San Francisco.

Revising Sketches.
RESIDENCE Cost, \$6000
OAKLAND, Alameda Co., Cal.
 One-story frame and stucco duplex residence (two 4-room duplex residence) tile roof, hardwood floors, gas hot air heating system, tiled baths, etc.
 Owner—Withheld.
 Architect—F. H. Slocombe, 131 Monte Cresta Ave., Oakland.
 Contractor—George W. Anderson, 7305 Foothill Blvd., Oakland.

Sub-Bids Being Taken.
RESIDENCES Cost \$5,000 each
SAN FRANCISCO. W 17th Avenue N Wawona Street.
 Two one-story and basement frame and stucco residences (5 rooms) gas heating system, hardwood floors, tiled baths, etc.
 Owner & Builder—S. F. Johnson, 3601 17th Avenue.
 Architect—C. O. Clausen, 746 46th Ave.

Contract Awarded.
RESIDENCE Cost, \$6000
SACRAMENTO, Sacramento Co., Cal.
No. 2812 Regina Way.
Two-story frame and stucco residence
(7 rooms).
Owner—G. W. Cook.
Architect—Not Given.
Contractor—N. Lund, 2549 6th Ave.,
Sacramento.

Preparing Working Drawings—Contract Awarded.
RESIDENCE Cost, \$7500
SAN FRANCISCO, St. Francis Wood.
Two-story and basement frame and stucco residence, tile roof, gas heat, hardwood floors, etc.
Owner—Alfred Matthews.
Architect—Masten & Hurd, 233 Post St., San Francisco.
Contractor—Moore & Madsen, 557 Market St., San Francisco.

Sub-Bids Being Taken.
ALTERATIONS Cost, \$—
OAKLAND, Alameda Co., Cal. No. 2931 Armanino Court.
Alterations to frame residence (roofing, heating, etc.)
Owner and Builder—G. B. Armanino, 29 Armanino Court, Oakland.
Plans by Owner.

Plans Being Figured—Bids Close Mar. 1, 2 P. M.
RESIDENCE Cost, \$9500
SAN JOSE, Santa Clara Co., Cal. Hillcrest Avenue.
One and one-half-story and basement frame and brick veneer residence (7 rooms and 2 baths); shingle roof, gas heating system, hardwood floors, tiled baths, etc.
Owner—Alvin Long.
Architect—William Higgins, 19 N. 2nd St., San Jose.

Contract Awarded.
RESIDENCE Cost, \$6500
BERKELEY, Alameda Co., Cal. Berkeley Highlands.
Two-story frame and stucco residence (6 rooms); shingle roof, gas heat, hardwood floors, tiled baths, etc.
Owner—C. J. Johnson.
Architect—E. L. Snyder, 2102 Addison St., Berkeley.
Contractor—J. M. Walker, 1709 Grove St., Berkeley.

Contract Awarded.
RESIDENCE Cost, \$5000
SAN FRANCISCO, W Florida St. S Twenty-sixth St.
One-story and basement frame and stucco residence.
Owner—L. Floreto, 1569 Alabama St., San Francisco.
Plans by A. Bedlow.
Contractor—A. Bedlow, 252 Delano St., San Francisco.

February 23 1933

Plans Being Prepared.
RESIDENCE Cost, \$8500
OAKLAND, Alameda Co., Cal. Oakmore Highlands.
Two-story and basement frame and stucco residence (7 rooms and 3 baths); shake roof, gas heating, steel sash, colored tile baths, electric refrigeration, etc.
Owner—Withheld.
Architect—E. L. Snyder, 2102 Addison St., Berkeley.
Bids will be asked in about ten days.

Plans Being Prepared.
RESIDENCE Cost, \$7000
CROCKETT, Contra Costa Co., Cal.
Two-story and basement frame and stucco residence (7 rooms and 2 baths); tile roof, gas heat, tiled baths, etc.
Owner—A. Valli.
Architect—Chas. Perry, 514 Marin St., Vallejo, and 540 Alcatraz Ave., Oakland.

Preparing Plans.
RESIDENCE Cost, \$7500
VALLEJO, Solano Co., Cal.
One-story frame and stucco residence.
Owner—Withheld.
Architect—Chas. Perry, 514 Marin St., Vallejo, and 540 Alcatraz Ave., Oakland.

Prospective Bidders.
RESIDENCE Cost, \$—
REDWOOD CITY, San Mateo Co., Cal.
Two-story brick and steel residence (6 rooms and 2 baths, steel sash, electric refrigeration, tiled baths.)
Owner—A. B. Cheatham.
Architect—J. K. Ballantine, 137 Harlan Place, San Francisco.
Following will submit bids. Bids open February 28:
A. F. Mattock, 212 Clara St., San Francisco.
D. B. Gladstone, 557 Market St., San Francisco.
G. W. Williams Co., 315 Primrose Ave., Burlingame.
George Arthur, 16 West Santa Inez Ave., San Mateo.
Clinton Stephenson Constr. Co., 550 Montgomery St., San Francisco.
Moore & Roberts, 461 Market St., San Francisco.

Contract Awarded.
RESIDENCE Cost, \$4,000
ALAMEDA, Alameda Co., Calif. 1007 Lincoln Avenue.
One - story and basement frame and stucco residence (5 rooms).
Owner—N. Armour, 1007 Lincoln Ave., Alameda.
Plans by Owner.
Contractor—Royal H. Aulman, 1243 Broadway, Alameda.

Sub-Contracts Awarded.
RESIDENCE Cost, \$8000
PALO ALTO, Santa Clara Co., Cal. No. 2000 Bryant Street.
Two-story and basement frame and stucco residence.
Owner and Builder—Marcus Stedman, 1818 Bryant St., Palo Alto.
Private Plans.
Lumber—McElroy Cheims, Palo Alto.
Mill Work—Minton Co., Mt. View.
Plumbing—Ingram Plumbing Co., Palo Alto.
Steel Sash—Soule Steel Co., 1750 Army St., San Francisco.
Sheet Metal and Heating—George S. Meads, Palo Alto.
Roofing—Reaves Roofing Co., Palo Alto.

Contract Awarded.
RESIDENCE Cost, \$50,000
BEVERLY HILLS, Los Angeles Co., Cal. No. 805 Sunset Blvd.
Two-story brick, plaster and frame residence (18 rooms) shingle roof, hardwood floors, steel sash, gas unit heating system, wrought iron, electric refrigeration, filtering system, tennis courts, garage, etc.
Owner—Phil Berg.
Architect—Not Given.
Contractor—C. S. Arganbright 5349 La Cresta Court, Los Angeles.

Sub-Contracts Awarded.
RESIDENCE Cost, \$7000
OAKLAND, Alameda Co., Cal. Oakmore Highlands.
Two-story and basement frame and stucco residence (7 rooms and 2 baths); shingle roof, gas hot air heating system, hardwood floors, etc.
Owner—A. W. Davidson.
Architect—Miller & Warnecke, Financial Center Bldg., Oakland.
Contractor—Thoe. Lapham, 546 Kenmore Ave., Oakland.
Lumber—Hogan Lumber Co., Second and Alice Sts., Oakland.
Foundation—Schnoor Bros., 6016 Claremont Ave., Oakland.

Roofing—General Roofing Co., 3985 Beach St., Oakland.

Contract Awarded.
RESIDENCE Cost, \$4000
SAN FRANCISCO, S Quesada St. E Lane St.
One-story and basement frame and stucco residence.
Owner—A. Calegari, 121 Connecticut St., San Francisco.
Architect—Not Given.
Contractor—A. H. Ohlsen, 84 Godeus St., San Francisco.

SCHOOLS

Plans Completed.
ADDITION Complete, \$375,000
LOS ANGELES, Los Angeles Co., Cal. University of California Campus.
Three-story steel frame and brick wing addition for chemistry bldg.
Owner—Regents of the University of California.
Architect—George Kelham, 315 Montgomery St., San Francisco.
Bids will be asked within one week.

Preparing Plans.
SCHOOL Cost, \$135,000
FAIRBANKS, Alaska.
Three-story reinforced concrete school (75x150) kindergarten rooms, manual training dept. classrooms, gymnasium and auditorium.
Owner—Fairbanks School District.
Architect—Tourtellotte and Hummel, Postal Bldg., Portland.
Bids will be asked about March 15.

PHOENIX, Ariz.—The main building of Capitol School, 17th Ave. and West Van Buren St., Phoenix was destroyed by fire this week. Loss is estimated at \$25,000. John D. Loper, Superintendent of Phoenix City Schools, states the building probably will be rebuilt immediately.

SACRAMENTO, Cal.—Until Mar. 6, 5 P. M., bids will be received by Chas. C. Hughes, secretary of the Board of Education, Administration Bldg., 21st and L Streets, Sacramento, for complete erection of approximately 1700 lineal feet of 6-ft. high galvanized chain link fencing, including two 12-ft. double drive gates with necessary end, corner and gate posts and approximately four 4-ft. walk gates, at the new Stanford Junior High School, Sacramento. Specifications obtainable from above office. Certified check in the amount of 10% of amount bid required with bid.

Preparing Plans.
ADDITION Cost, \$40,000
PASADENA, Los Angeles Co., Cal. Masonry elementary school addition (6 classrooms, offices, etc.)
Owner—Pasadena City School Dist.
Architect—Bennett and Haskell, First Trust Bldg., Pasadena.

SAN FRANCISCO.—Thos. J. Doyle, 1527 17th Ave., awarded the following sub-contracts in connection with the lavatories in the Douglas School:
Electric—Collan Electric & Mfg. Co. 3201 Mission St.
Metal Partitions—Price Bldg. Specialties Co., 683 Howard St.
Mill Work—Pacific Mfg. Co., Monadnock Building.
Hardware—Marshall Newell Supply Co., Spear and Mission Sts.

Bids Wanted—To Close March 8.
ADDITION Cost Complete \$375,000
LOS ANGELES, Los Angeles Co., Cal. University of California Campus.
Three-story steel frame and brick wing addition for chemistry bldg.
Owner—Regents of the University of California.
Architect—George Kelham, 315 Montgomery St., San Francisco.

Structural Engineer—H. J. Brunner, Sharon Bldg., San Francisco.
 Mechanical Engineer—Hunter & Hudson, 41 Sutter St., San Francisco.
 Bids are being taken for a general contract with separate bids for heating and ventilating, plumbing and electrical work. Plans and specifications available for Comptroller, 43 Library, University of California, Los Angeles, upon deposit of \$100.

HANFORD, Kings Co., Cal.—Until March 6, 7 P. M., bids will be received by Henry Landis Clerk, Reece Sunset Union School District, for 50 steel tubular folding chairs with wood seats and upholstered backs, seats to be at least 12½ inches wide from front to back, equal to American Seating Company Chair No. 31.

SANTA CLARA, Cal.—Board of School Trustees, Santa Clara, voted to improve Townsend Memorial Field. A turf field for football and baseball and quarter mile cinder path will be the principal improvements.

VALLEJO, Solano Co., Cal.—Until March 21, 4 P. M., bids will be received by Elmer Cave, Secretary, Vallejo Junior High School District, for general school equipment, involving: Opera Chairs; State Equipment; School Chairs; Desks, Tables and Files, etc.

NOGALES, Ariz.—Nogales Board of Education has awarded contracts for the construction of a new grammar school building in Nogales as follows: Les Yott, carpenter work; Wm. J. Board, electrical work; Nogales Plumbing & Electric Co., plumbing; Neumann Plumbing & Heating Co., sewage pipe. All are Nogales firms.

BANKS, STORES & OFFICES

Preparing Preliminary Plans.
 STORE AND APTS. Cost, \$80,000
 ALHAMBRA, Los Angeles Co., Cal. NE Cordova and Main Sts.
 Two-story brick store and apartment (150x130 feet).
 Owner—W. K. Jewett.
 Architect—Myron Hunt & H. C. Chambers, 408 S. Spring St., Los Angeles.

Contract Awarded.
 BUILDING Cost, \$1715
 FRESNO, Fresno Co., Cal. NE Belmont and Brawley Avenues.
 New building.
 Owner—San Joaquin Valley Children's Health Assn.
 Architect—W. D. Coates, Jr., Rowell Bldg., Fresno.
 Contractor—T. C. Irwin, 269 N Fulton St., Fresno.

Sub-Bids Being Taken.
 STORE & RESIDENCE Cost, \$—
 OAKLAND, Alameda Co., Cal. 4231-4235 E 14th St.
 Two-story frame and stucco residence and store (11 rooms).
 Owner—Lola Teixeira, 7532 Krause Ave., Oakland.
 Architect—Not Given.
 Mgr. of Const.—E. E. Wooten, 3251 Foothill Blvd., Oakland.
 Sub-bids are wanted on plastering, hot water heating system, roofing, etc.

Structural Steel Contract Awarded.
 REBUILD MARKET Cost, \$—
 OAKLAND, Alameda Co., Cal. Broadway, between 19th and 20th Sts.
 Rebuild market (two-story Class C concrete construction).
 Owner—Twentieth and Broadway Realty Co., (½ Mr. Montgomery, Crystal Palace Market).
 Architect—Albert Evers, 525 Market St., San Francisco.

Contractor—Willbur Cone, 1744 Broadway, Oakland.
 Structural Steel—Monre Dry Dock Co., Foot of Adeline St., Oakland.

Contract Awarded.
 STORE Cost, \$2000
 SAN FRANCISCO, No. 4632 Mission Street.
 One-story frame store.
 Owner—L. Cavagnaro, 4634 Mission St., San Francisco.
 Architect—Nnt Gilva.
 Contractor—J. Oliva, 542 Vienna St., San Francisco.

Sub-Contracts Awarded.
 MARKET Cost, \$10,000
 RICHMOND, Contra Costa Co., Cal. SE 23rd St. and Macdonald Ave.
 One-story Class C reinforced concrete market (tar and gravel roof, steel sash, etc.)
 Owner—Henslee Corp., (½ Bells-Gilberg, Ltd.) 366 17th St., Oakland.
 Architect—H. A. Minton, 525 Market St., San Francisco.
 Contractor—David Paganini, 519 California St., San Francisco.
 Reinf. Steel—W. S. Wetenhall, 17th and Wisconsin Sts., San Francisco.
 Miscellaneous Iron—Judson Pacific Co. 609 Mission St., San Francisco.
 Lumber—Sunset Lumber Co., 400 High St., Oakland.
 Concrete—Nat. Lena, 1174 19th Street, Oakland.

Owner Taking Bids.
 MARKET Cost, \$—
 FRESNO, Fresno Co., Calif. NW Fernger and Oliver Avenues.
 Food market (29x125).
 Owner—Justesen's Food Stores, Inc., 253 Fulton St., Fresno.
 Architect—Chas. Butner, Glikbarg Bldg., Salinas, and Cory Bldg., Fresno.

Plans Being Figured.
 STORES & OFFICES Cost, \$—
 OAKLAND, Alameda Co., Calif. SW 22nd and Broadway.
 Two-story steel frame and concrete offices and stores (7 stores).
 Owner—Mrs. Clark, Sacramento.
 Architect—Reed and Corlett, Bank of America Bldg., Oakland.
 Agent—Malden F. Bruce and Co., 420 15th St., Oakland.
 Fred. Muller, Syndicate Bldg., Oakland, is taking sub-bids in connection with the above.

Preparing Plans.
 STORE & OFFICES Cost, \$—
 PORTLAND, Oregon.
 Three-story brick stores and offices (60x80) slate roofing, gas steam heating system, steel sash, tile and marble work, etc.
 Owner—Withheld.
 Architect—Vincent Palmer, 116 North Larchmont Blvd., Los Angeles.

Plans Being Figured.
 MARKET Cost, \$—
 FRESNO, Fresno Co., Cal. NW Fernger and Oliver Avenues.
 Food market (29x125 feet).
 Owner—Justesen's Food Stores, Inc., 253 Fulton St., Fresno.
 Architect—Not Selected.

Bids Wanted—To Close March 6.
 STORE Cost, \$—
 BERKELEY, Alameda Co., Cal. No. 2036 Shattuck Avenue.
 Two-story brick and concrete store (brick and terra cotta facing, composition roof, structural steel, cement, hardwood and terrazzo floors, plate glass, metal fire doors, ornamental iron, gas heating etc.)
 Owner—S. H. Kress Co., 114 5th Ave., New York City.
 Plans by Eng. Department of Owner.
 Bids are being taken from a select-

ed list of contractors. As previously reported wrecking contract awarded to J. T. Kingrea, 20th Ave. and E-12th St., Oakland.

HANFORD, Kings Co., Cal.—Until March 6, 7 P. M., bids will be received by Henry Landis, Clerk, Reece Sunset Union School District, for 80 movable chair desks, equipped with lid leveling device. Woods to be of hard maple, stained school furniture brown, etc., involving 10 size A; 35 size B; 35 size C No. 234 American desk or equal 18 primary tables of plain oak, 13-16 inch solid top, equipped with 2 drawers, 12 inches wide with ¾-in. plywood bottoms, 48 primary chairs of oak.

Contract Awarded.
 LIBRARY Cost, \$—
 OAKLAND, Alameda Co., Cal. Park Boulevard.
 One-story brick branch library (30x 80 ft.); tile and composition roof, stucco interior, linoleum floors, gas heating system, Oregon pine trim, steel sash, etc.
 Owner—R. E. Coggeshall.
 Architect—Ray Keefer, 770 Wesley Ave., Oakland.
 Contractor—Bryan Milton, 539 Haddon Road, Oakland.

February 21, 1933

Planned.
 ALTERATIONS Cost, \$35,000
 SEATTLE, Wash. 1012 First Avenue.
 Alterations and additions to office bldg.
 Owner—Central Seattle Bldg. Corp., Rialto Bldg., Seattle.
 Architect—Not Selected.

Contract Awarded.
 STORES Cost, \$—
 NAPA, Napa Co., Cal. Second and Main Streets.
 One-story brick stores (4 stores; 60x 75 feet); tar and gravel roof, wood floors, etc.
 Owner—E. H. Manchester, 1318 Clay St., Napa.
 Plans by C. Leroy Hunt, Second and Main Sts., Napa.
 Contractor—Coffield & Arnitz, 430 Evans St., Napa.

Plans Being Figured—Bids Close Feb. 28.
 STORE Cost, \$—
 OAKLAND, Alameda Co., Cal.
 One-story frame and stucco store.
 Owner—Withheld.
 Architect—Miller & Warnecke, Financial Center Bldg., Oakland.

Contract Awarded.
 MARKET Cont. Price \$11,400
 FRESNO, Fresno Co., Cal. NW Fernger and Oliver Avenues.
 Store and food market (29x125 ft.)
 Owner—Justesen's Food Stores, Inc., 253 Fulton St., Fresno.
 Architect—Charles Butner, Glikbarg Bldg., Salinas, and Cory Bldg., Fresno.
 Contractor—Harry P. Nelson, 322 S. Fifth St., Fresno.

Sheet Metal Contract Awarded.
 REPAIRS Cost, \$5000
 SAN FRANCISCO, No. 915 Columbus Avenue.
 Repair fire damage to cafe.
 Owner—Edward Cerruti, 775 Lombard St., San Francisco.
 Lessee—Louis Maggiora, 1042 Filbert St., San Francisco.
 Sheet Metal—John J. Delucchi, 1526 Powell St., San Francisco.

Bids Opened.
 STORE Cost, \$—
 WATSONVILLE, Santa Cruz Co., Cal.
 One-story reinforced concrete store (35x90 feet approx.) parking facilities, etc.
 Owner—A. P. Beck and W. H. Weeks.
 Architect—W. H. Weeks, 525 Market St., San Francisco.

Following is a complete list of bids:
(1) job complete (concrete const.);
(2) omitting sheet metal and plumbing
(3) brick alternate;

(4) Prop. No. 1, with steel trusses.	
Bay City Iron Works.....(1)	\$8,522
.....(2)	7,475
.....(3)	9,130
.....(4)	9,380
Baker Const. Co., Oakland.....(1)	\$8,686
.....(2)	7,886
.....(3)	8,517
.....(4)	8,806
Carl N. Swenson, San Jose.....(1)	\$.....
.....(2)	7,990
.....(3)	7,900
.....(4)	8,155
T. P. Wallstrum, Watsonville.....(1)	9,145
.....(2)	8,085
.....(3)	9,170
.....(4)	9,335
Biidle & Snyder, Watsonville.....(1)	\$9,185
.....(2)	8,110
.....(3)	9,085
.....(4)	9,365
A. Short, Watsonville.....(1)	\$9,189
.....(2)	8,099
.....(3)	9,347
.....(4)	9,309
rFlend & Wrath.....(1)	\$9,910
.....(2)	8,824
.....(3)	9,770
.....(4)	10,745
G. Curtis, Watsonville.....(1)	\$10,139
.....(2)	9,070
.....(3)	9,850
.....(4)	.....

Bids held under advisement.

WHARVES AND DOCKS

SAN DIEGO, Cal.—W. E. Kier Construction Co., 13 First National Bank Bldg., San Diego, awarded contract by the city council at \$17,963 to furnish all materials, labor, and equipment (except the necessary treated wood piles and 14 concrete bearing piles) moving, and reinstalling float service complete, and constructing the shore boat landing, substructure deck and building, at the San Diego waterfront. Bids were opened Feb. 6.

PORTLAND, Ore.—Until March 3, 3 P. M., under Bid No. 33-271, bids will be received by U. S. Engineer Office, 321 Customhouse, Portland, Ore., to construct a wharf, marine dolphins, trestle, land trackage, two axial dikes, revetment and two pile and stone dikes, at Sand Island, in Columbia River, about 10-mi. below Astoria, Ore., involving:

- (1) 131,700 lin. ft. piling;
- (2) 6,000 lin. ft. piling, allowance for cut-off at one-half the unit price bid for piling;
- (3) 664 MFBM lumber, except ties;
- (4) 141 MFBM ties;
- (5) 56,400 lbs. tie rods, with nuts and washers, galvanized;
- (6) 500 lbs. bolts, machine, with nuts and washers, black;
- (7) 15,700 lbs. bolts, drift, black;
- (8) 15,400 lbs. spikes, boat, black;
- (9) 15,200 lbs. spikes, track, black;
- (10) 300 lbs. wire rope, 3/8-in. dia., galv.
- (11) 180 tons (2000 lbs.) rails, steel 40 lb. No. 1 relay, incl. angle bars and bolts;
- (12) 9 sets, comp. frogs and switches, complete, including guard rails, switch stands, etc.
- (13) 3,415 lin. ft. clear, grade, surface and ramp land track;
- (14) 100 old piles, remove;
- (15) 18,000 cu. yds. stone, sharp rock;
- (16) 45,000 cu. yds. stone, water rock;
- (17) 700 cu. yds. ballast, for land track.

Specifications obtainable from above office and are on file in office of Daily Pacific Builder and may be inspected by those interested.

PORT CHICAGO, Contra Costa Co., Calif.—Bundesen & Lauritzen, P. O. Box 395, Pittsburgh, at approximately \$20,000 awarded contract by A. H. Feasey, San Francisco, to dredge a T-shaped yacht harbor at Port Chicago, to be about 2500 ft. long, 180 ft. wide and 7 deep at low tide.

MISCELLANEOUS CONSTRUCTION

SAN FRANCISCO—Meyer Rosenberg, 1755 San Bruno Ave., at \$91,485 submitted low bid to Public Utilities Commission, Room 225, City Hall, for hauling sand, gravel and cement in the Coast Range Division of the Hetch Hetchy Aqueduct. H. H. W. S. Contract No. 141. Complete bids follow: Meyer Rosenberg\$ 91,485.00
Sibley Grading Co. 104,792.50
Leighton, Henfin, Harrison
Harrison & Dotters..... 111,609.20
J. H. Creighton 112,922.50
O. McReynolds..... 115,746.50
B. DeBow 124,200.00
Pacific Truck Service, Inc. 132,429.00
Complete unit bids will be available at the office of the DAILY PACIFIC BUILDER, and may be inspected by those interested.

Additional Sub-Contracts Awarded.

BERKELEY, Alameda Co., Calif. 554 Regal Road.

Remodel building for classrooms and cafeteria and small addition to the rear of building (frame construction).

Owner—Berkeley City School District. Architect—Hardman & Russ, Berkeley Bank Bldg., Berkeley.

Contractor—C. M. Norgrove, 2220 Roosevelt St., Berkeley.

Lumber—Archie Severy, 1026 Cornell Ave., Albany.

Plastering—Robert Orr, Watsonville. **Heating**—Geo. Bell, 1825 Gleason Way, Oakland.

Glass and Glazing—Western Door and Sash Co., 5th and Cypress, Oakland.

OAKLAND, Alameda Co., Cal.—Until February 23, 9 P. M., bids will be received by W. W. Campbell, City Clerk, for 2800 chairs to be used for election purposes.

Commissioned To Prepare Plans.
ARCH Cost, \$2000
FRESNO, Fresno Co., Cal. Kearney Boulevard.

Reinforced concrete and steel arch for Kearney Boulevard entrance.

Owner—City of Fresno.
Architect—Charles Franklin, T. W. Patterson Bldg., Fresno.

Contract Awarded.
BRIDGE Cost, \$—
SAN FRANCISCO, Jessie St., bet. Fourth and Fifth Sts.
Steel and concrete bridge.

Owner—The Emporium, 835 Market St., San Francisco.

Plans by Eng. Dept. of Owner.
Contractor—Cahill Bros., 206 Sansome St., San Francisco.

Low Bidder.
STADIUM Cost, \$—
SAN JOSE, Santa Clara Co., Cal.
Football stadium (seating capacity of approx. 20,000); crescent shaped earth embankment on east side;

radio broadcasting facilities, dressing rooms, press boxes, etc.

Owner—Associated Student Body of San Jose State Teachers' College.
Engineer—Michael Antonaci, City Hall San Jose.

Low Bidder—Earl W. Heple, 494 Delmas St., San Jose, at \$13,600.

There is approximately 45,000 cubic yards of excavation involved in this project.

MISCELLANEOUS SUPPLIES AND MATERIALS

LOS ANGELES, Cal.—Eight identical bids were submitted to A. J. Holm City Purchasing Agent, Feb. 15, to furnish lead-covered cable under Spec. No. 2999, by:

Okonite Callender Cable Co.
Columbia Steel Co.
American Electrical Works.
Anaconda Wire & Cable.
General Electric Co.
John A. Roebling's Sons Co.
Graybar Electric Co.

PACIFIC COAST—Contracts for furnishing 1,500,000 bbls. fuel oil for delivery to the U. S. Fleet before June 30 have been awarded by the Navy Department as follows: Texas Co., 500,000 bbls.; Sunset Oil Co., 500,000 bbls.; Hancock Oil Co., 500,000 bbls. Contracts for about 6,000,000 bbls. bulk fuel oil for delivery on the cost in 1933-34 fiscal year will be awarded during the summer.

VERNON, Los Angeles Co., Calif.—Until 8 P. M., Feb. 28, new bids will be received by city council to furnish steel cable, f.o.b. warehouse, 4305 Santa Fe Ave., Vernon, under Spec. No. 59, obtainable at the office of city engineer, Howard S. McCurdy. L. J. Furlong, city clerk. The quantities are:

- (1) 5,000 ft. 3/4-in. cable;
- (2) 10,000 ft. 5/16-in. cable;
- (3) 100,000 ft. 3/8-in. cable;
- (4) 100,000 ft. 7/16-in. cable.

The bids received Feb. 13 were returned unopened.

February 21, 1933

LOS ANGELES, Cal.—Bids for furnishing 150,000 lbs. No. 3/0 A.W.G., 7-strand, hard drawn, bare copper wire, Spec. No. 3001, were received by A. J. Holm, City Purchasing Agent, Feb. 16. The items are:

(a) F.o.b. cars, power spur No. 4, A. T. & S. F. Ry. delivery or f.o.b. trucks 1630 N Main St., Los Angeles.

(b) F.o.b. cars bidder's factory with full freight allowed to 1630 N Main St.

The bids were:
Graybar Electric Co.—(a) \$9.15 (b) no bid. Terms: 1/2 of 1% 10 days after delivery; 97.7% conductivity.

Columbia Steel Co.—(a) \$9.15; (b) no bid. Terms, same; conductivity, 98%.

Pacific Wire Rope Co.—Bids and terms same as above. Conductivity, 98%.

Utilities Supply Co.—Bids and terms same as above. Conductivity, 98%.

General Electric Supply Corp.—(a) \$9.15; (b) \$9.15. Terms, 1/2 of 1% 10 days. Conductivity, 98.8 plus per cent.

OREGON CITY, Ore.—Until March 1, bids will be received by Clackamas county commissioners to furnish tires, gasoline, kerosene, road oil and asphalt. Specifications obtainable from office of county clerk.

LOS ANGELES, Cal.—Patten-Bliinn Lumber Co., awarded contract, Feb. 20, by A. J. Holm, City Purchasing Agent, at an estimated total of \$2489.28 for furnishing and delivering approximately 65,000 board feet of 8-lb. creosoted swan Douglas fir timber for maintenance of wharf at Berth 90, Los Angeles Harbor, under Specification No. 2995. The previous award on 41,405 board feet to Consolidated Lumber Co. was rescinded Feb. 20 and the entire order awarded to Patten-Bliinn Lumber Co. as shown above.

PERMITS AND CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
92	Cavagnaro	Oliva	2000
93	Johnson	Owner	8000
94	Scatena	Franceschi	8500
95	Jensen	Rasmussen	6000
96	Caleari	Ohlsen	3500
97	Bassetti	Owner	3000
98	Fioreto	Bredlow	3950
99	Nelson	Owner	4000
100	Ravaglioli	Owner	3000
101	Allison	Owner	7000

STORE
 (92) NO. 4632 MISSION ST. One-story frame store.
 Owner—L. Cavagnaro, 4634 Mission St., San Francisco.
 Architect—Not Given.
 Contractor—J. Oliva, 542 Vienna St., San Francisco. \$2000

DWELLINGS
 (93) W SEVENTEENTH AVE 271 N Wawona St. Two one-story and basement frame dwellings.
 Owner—S. J. Johnson, 2601 17th Ave., San Francisco.
 Architect—Chausen Studios, 746 46th Ave., San Francisco. \$4000 each

FLATS
 (94) E FILLMORE 125 North Point; two-story and basement frame (2) flats.
 Owner—P. Scatena, 3637 Fillmore St.
 Architect—Irvine & Ebbets, 2048 Market Street.
 Contractor—L. Franceschi, 1408 Jefferson St. \$8500

FLATS
 (95) SE CERVANTES AND PRADO. Two-story and basement frame (2) flats.
 Owner—G. Jensen, 5 Prado St., San Francisco.
 Architect—R. R. Irvine, 2048 Market St., San Francisco.
 Contractor—V. Rasmussen, 1550 Beach St., San Francisco. \$6000

DWELLING
 (96) S QUESADA 179 E Lane Street. One-story and basement frame dwelling.
 Owner—A. Caleari, 121 Connecticut St., San Francisco.
 Architect—Not Given.
 Contractor—A. H. Ohlsen, 84 Godeus St., San Francisco. \$3500

DWELLING
 (97) N JUDAH 100 E Sixteenth Ave. One-story and basement frame dwelling.
 Owner—C. Bassetti, 1216 Funston Ave. San Francisco.
 Plans by C. A. Wilder, 1065 Noe St., San Francisco. \$3000

DWELLING
 (98) W FLORIDA 265 S 26th; one-story and basement frame dwelling.
 Owner—R. Fioreto, 1569 Alabama.
 Plans by contractor.
 Contractor—A. Bredlow, 252 Delano. \$3950

DWELLING
 (99) E TWENTY-FIRST AVE 124 N Ocean Ave. One-story and basement frame dwelling.
 Owner—F. Nelson & Sons, 2919 19th Ave., San Francisco.
 Architect—G. Nelson. \$4000

DWELLING
 (100) W HAMILTON 60 S Silliman. One-story and basement frame dwelling.

Owner—C. Ravaglioli, 100 Hamilton St., San Francisco.
 Plans by Owner. \$3000

DWELLINGS
 (101) E TWENTY-FIFTH AVE 40 S Lincoln Way. Two one-story and basement frame dwellings.
 Owner—Allison & Beck, 216 Eddy St., San Francisco.
 Architect—Not Given. \$3500 each

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
44	Hatfield	Henderson	1131
45	Ennor	Smith	1500
46	Armanino	Owner	1800
47	Armanino	Owner	4000
48	Central	Thrams	2327
49	Armour	Haulman	3000
50	Stanton	Owner	1400

ALTERATIONS
 (44) NO. 727 SAN LOUIS ROAD, BERKELEY. Alterations.
 Owner—J. Hatfield, Premises.
 Architect—Not Given.
 Contractor—H. R. Henderson, 20 Arvis Road, Berkeley. \$1131

ALTERATIONS
 (45) NO. 2079 ALLSTON WAY, BERKELEY. Alterations.
 Owner—H. W. Ennor.
 Architect—Not Given.
 Contractor—H. J. Smith, 2011 Francisco St., Berkeley. \$1500

DWELLING
 (46) NO. 33 ARMANINO COURT, OAKLAND. One-story four-room dwelling.
 Owner—G. B. Armanino, 29 Armanino Court, Oakland.
 Architect—Not Given. \$1800

ALTERATIONS
 (47) 29-31 ARMANINO COURT, OAKLAND. Alterations and additions.
 Owner—G. B. Armanino, 29 Armanino Court, Oakland.
 Architect—Not Given. \$4000

ALTERATIONS
 (48) 2401-11 TELEGRAPH AVENUE, OAKLAND; alterations.
 Owner—Central Savings Bank, 14th & Broadway, Oakland.
 Architect—Bertz, Winter and Maury, 681 Market St., San Francisco.
 Contractor—C. H. Thrams, 28 Home Place, Oakland. \$2327

DWELLING
 (49) NO. 1007 LINCOLN AVE., ALAMEDA. One-story 5-room frame and stucco dwelling.
 Owner—N. Armour, Premises.
 Architect—Not Given.
 Contractor—F. Royal Haulman, 1243 Broadway, Alameda. \$3000

REPAIRS
 (50) NO. 3607 GRAND AVE., OAKLAND. Fire repairs.
 Owner—Albert Stanton, 3615 Grand Ave., Oakland.
 Architect—Not Given. \$1400

SAN FRANCISCO UNDER \$1000

ALTER dwelling, \$200; 3672 21st; owner, D. E. Mohn, 171 Liberty.
 ADD to dwelling, \$50; 536 Day; owner, Miss A. P. Reinhold, 536 Day.
 ALTER flat for apts., \$450; 325 Presidio Ave.; owner, Mrs. A. Leary, 329 Presidio.
 ALTER dwelling, \$500; E Roosevelt Way 443 S 15th; owner, T. J. Lynch, 576 Valencia St.

REPAIR fire damage to flats, \$25; 1104 Divisadero St.; owner, John Kroger, 569 Dewey Blvd.
 ALTER theatre, \$400; 729 Market St.; owner, Paul Bancroft, 731 Market St.; architect, Martin Rist, 944 Helian Bldg.; contractor, Moore & Roberts, 461 Market St.
 ALTER dwelling, \$185; 591 25th Ave.; owner, Giovanna Bondonno, 591 25th Ave.; contractor, W. B. Hocking, 2216 Clement St.

ALAMEDA COUNTY UNDER \$1000

ADD to garage, \$100; 4392 Telegraph Ave. Oakland; owner and contractor, A. Bertola, 4292 Telegraph Ave., Oakland.
 ADDITION, \$750; 848 58th St., Oakland; owner and contractor, Chas. Rauhut, 848 58th St., Oakland.
 ALTER and add and 1-story garage, \$300; 6575 Shattuck Ave., Oakland; owner and contractor, Mr. Randall, 4367 Adeline St., Oakland.
 ALTERATIONS, \$125; 1420 La Loma Ave., Berkeley; owner, Mrs. D. E. Pratt; contractor, T. S. Lassing, 47 Canyon Road, Berkeley.
 ALTERATIONS, \$825; 62 Panoramic Way, Berkeley; owner, E. C. Crum contractor, C. M. Anderson, 1853 9th Ave., Oakland.
 ALTERATIONS, \$500; 1939 Berryman St., Berkeley; owner, C. Kelley, 1292 Berryman St., Berkeley; contractor Geo. W. Nunes, 5430 Dover St., Oakland.

BUILDING CONTRACTS

SAN FRANCISCO COUNTY
 18 Marwedel Vogt 1370

ALTERATIONS
 (18) NO. 76 FIRST ST. All work for alterations and additions to Marwedel Building and to the building adj. said Marwedel building on the south.
 Owner—C. W. Marwedel, Premises.
 Architect—J. E. Krafft & Sons, Phelan Bldg., San Francisco.
 Contractor—Alfred H. Vogt Co., 250 Eleventh St., San Francisco.
 Filed Feb. 17, '33. Dated Feb. 8, '33.
 When steel columns, girders, etc. are erected and when 1st story opening is ready for installation of steel rolling doors\$513.75
 On Completion 513.75
 Usual 35 days 342.50
TOTAL COST, \$1370.00
 Bond, \$685. Surety, New Amsterdam Casualty Co. Limit, 35 days. Forfeit, none. Plans and specifications filed.

ALAMEDA COUNTY

7 Central Thrams 2327

ALTERATIONS
 (7) NW TELEGRAPH AVE AND Twenty-fourth St., Oakland. All work for alterations to store building.
 Owner—Central Savings Bank of Oakland.
 Architect—Bertz, Winter & Maury, 210 Post St., San Francisco.
 Contractor—C. H. Thrams, 28 Homeplace, Oakland.
 Filed Feb. 17, '33. Dated Feb. 6, '33.
 On Fifth of each month 75%
 Usual 35 days Balance
TOTAL COST, \$2327
 Bond, \$2327. Surety, Fidelity & Casualty Co. of New York. Limit, 35 days. Forfeit, none. Plans and specifications filed.

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IN THIS ISSUE



U. S. COMMITTEE REPORTS ON METAL CONNECTORS FOR TIMBER CONSTRUCTION

RAILROADS WIN ACTION TO ESTABLISH CEMENT RATE DIFFERENTIAL

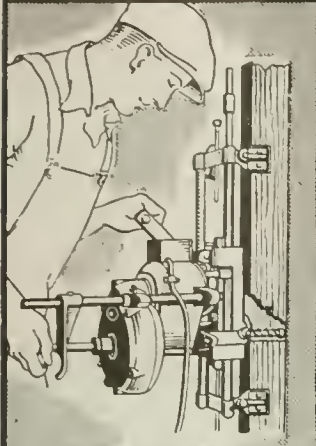
TRUCK CARRIERS TO FIGHT STATE REGULATION PROPOSALS

BUILDING PERMIT TOTAL GAINS IN JANUARY

BUILDING PERMITS — ADVANCE REPORTS OF BUILDING AND ENGINEERING PROJECTS

UNITS PRICE REVIEW

WAPPAT *Electric* TOOLS



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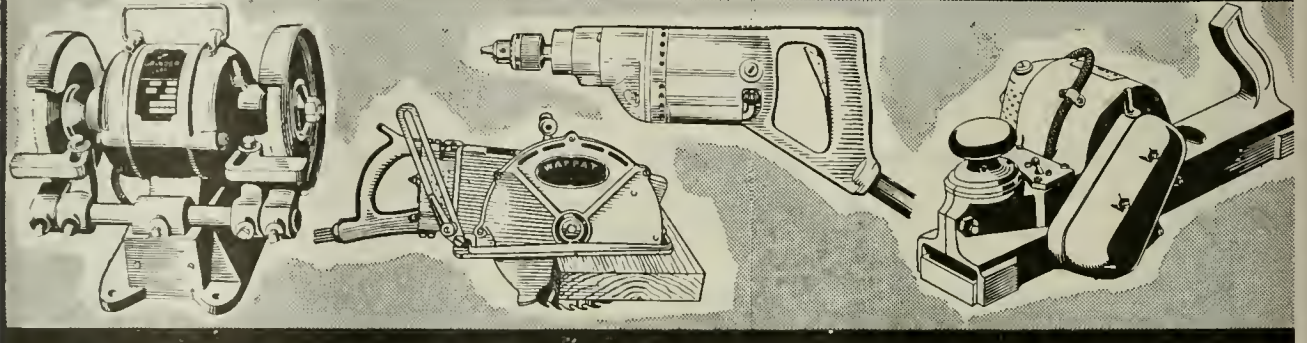
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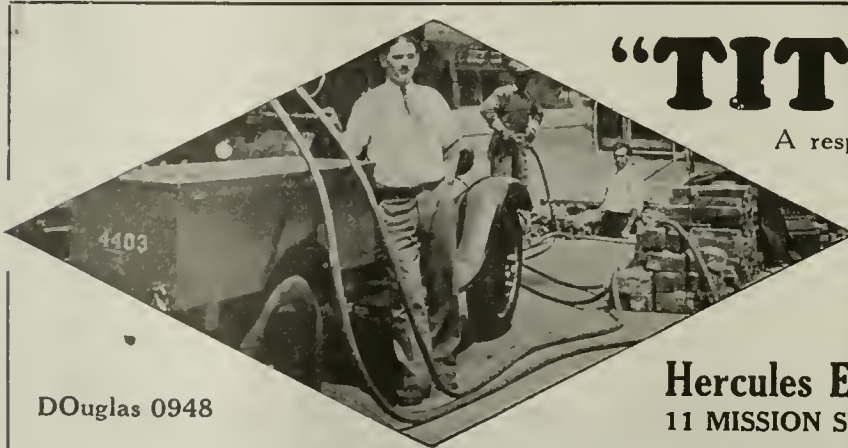
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With which is Consolidated Building and Engineering News

Official Publication of the Associated General Contractors of America
for the Eleven Pacific Coast States

SAM B. EUBANKS, *Editor*

Vol. 16.

SAN FRANCISCO, CALIF., MARCH 4, 1933

No. 7

PREDICT EARLY EASTBAY REVIVAL OF CONSTRUCTION

Realtors Expect Federal Bank Aid in Financing Building

With more than \$1,000,000 of new building construction for East Bay cities definitely projected and with various lending agencies moving toward early release of funds for the financing of such operations, a revival of building activity is anticipated for the immediate future, probably dating from April 1, according to a report to the Oakland Real Estate board by Fred T. Wood, new chairman of its home building committee.

Most of the projected building is residence construction, Wood said.

Although emergency legislation recently passed by the legislature and signed by Governor Rolph has been in effect but a few days, it is reported that the California Home Loan bank has already received applications for membership from many mortgage companies, building loan concerns and savings banks.

Final plans for the release of a large amount of credit to California lending institutions by the Home Loan bank will be adopted at a meeting of the directors of that institution to be held in Los Angeles February 21.

Details of the method of operation of the Home Loan bank in California will be the subject of an address before members of the Oakland, Alameda and Berkeley realty boards at Berkeley in the near future by Perry T. Tompkins, one of the directors of the bank.

Fred T. Wood yesterday was named chairman of the home building committee of the Oakland realty board by James H. L'Hommedieu president. One the committee with him are Harold C. Austin, Harry E. Leimert and Milton V. Stoakes.

SUPERINTENDENT NAMED

Wm. F. Quinton has been named superintendent of construction for the new Kit Carson Junior High School being built by the Sacramento board of education. He will act as assistant to Henry Peterson, chief superintendent for the district.

THE WEEK'S NEWS Highlights

BAY BRIDGE BIDS—A syndicate of Pacific Coast contractors submitted the low bid of \$6,957,100.68 on the initial contract for the San Francisco-Oakland bridge. Their bid was submitted under the name of Transbay Construction Company, Financial Center Building, San Francisco. The contract is for construction of five piers forming the westbay substructure. Two other legal bids were received. Bids which were to have been received March 2 for Construction 4 and 4a, comprising the 21 piers of the Eastbay foundation were postponed by the California Toll Bridge Authority because of the legal holiday declared on that date by Governor Rolph. The bids will be opened on the first "business day." If the financial moratorium should be extended it will affect bid openings now scheduled for March 7 and 8 at which four additional bridge contract proposals were to be opened.

SAN FRANCISCO FEDERAL BUILDING—N. P. Severin Company, Chicago, submitted the low bid on construction of the six-story San Francisco Federal office building, one of the largest building jobs to be undertaken this year on the coast. Their bid was \$2,548,000. Second and third low bids were by eastern firms also. George Wagner, San Francisco, was fourth low at \$2,690,000. Twelve bids were received. Otis Elevator Company was low bidder at \$78,900 on the elevator installation.

HETCH HETCHY PIPE LINE—American Concrete and Steel Pipe Company, Oakland, was low bidder at \$129,606 under Proposals B and W. A. Bechtel Co., San Francisco, at \$129,606 under Proposal B, and laying 7120 feet of pipe line in the Bay Crossing Division of the Hetch Hetchy project. Bids were received by the Public Utilities Commission.

14 NOMINATED FOR EXCHANGE DIRECTORATE

Election March 21 To Choose New Members of S. F. Board

Fourteen nominees for directors of the San Francisco Builders' Exchange were announced yesterday following the balloting among member organizations. The annual election of the Exchange will be held March 21. The polls will be open between 12 o'clock and 3 o'clock.

Eleven directors are to be elected, chosen from the 14 nominees.

Following are the nominations:

Charles W. Carle, Reinforcing Steel Dealers; J. E. Connell, Master Plasterers; R. J. H. Forbes, Concrete Contractors; W. H. George, Building Material Dealers; Emil Hogberg, Masons and Builders; E. M. Hundley, Unorganized Crafts; Joseph B. Keenan, Marble Dealers; Frank Lawson, Roofing Contractors; J. D. McGilvray, Cut Stone Contractors; H. N. Patterson, Ornamental Iron; E. H. Peterson, Tile Dealers; Mrs. Grace Perego, Home Builders; James H. Pinkerton, Plumbing and Heating; A. H. Wilhelm, General Contractors.

SALT LAKE STARTS RENOVIZE CAMPAIGN

Civic leaders and construction interests are engaged in a campaign to "renovize" Salt Lake City, following the example of a recent successful campaign in Philadelphia. Mayor Louis Marcus has been chosen general chairman and J. B. Mullins, president of the Inter-mountain Chapter, Associated General Contractors, is chairman of the executive committee.

OAKLAND OPPOSES GAS TAX DIVERSION

Having previously endorsed the stand of Senator A. H. Breed against diversion of gasoline taxes from highway construction funds, the Oakland city council tabled a request from Rolland A. Vandegrift, state finance director, that the city endorse the proposal to place \$8,779,000 of gasoline tax money in the general fund.

U. S. BUILDING PERMIT TOTAL GAIN IN JANUARY

Expenditures for Month 39 Pct. Above December Figure

There was an increase of 39.6 per cent in indicated expenditures for total building operations comparing permits issued in January, 1933, with those issued in December 1932 according to reports received by the Bureau of Labor Statistics of the United States Department of Labor, from 351 identical cities having a population of 25,000 and over.

Indicated expenditures for all building operations for which permits were issued in these cities for January totaled \$42,826,707. Comparing January with December, there was an increase of 2.7 per cent in the number but a decrease of 6.3 per cent in the indicated expenditures for new residential buildings.

New nonresidential buildings increased 3.9 per cent in number and 55.0 per cent in indicated expenditures.

Additions, alterations, and repairs increased 10.1 per cent in number and 18.2 per cent in indicated expenditures. During January, 1933, 1,188 family dwelling units were provided in new buildings. This is a decrease of 1.9 per cent as compared with December, 1932.

Various agencies of the United States Government awarded contracts during January for buildings to cost \$16,588,489. This is nearly \$5,000,000 more than the value of contracts awarded during December, 1932, and approximately \$9,000,000 more than the value of contracts awarded by the Federal Government during January, 1932.

Comparing permits issued in 350 identical cities, with January, 1932, and January, 1933, there was a decrease of 55.7 per cent in the number and a decrease of 69.5 per cent in the estimated cost of new residential buildings. New nonresidential buildings decreased 30.3 per cent, and the indicated expenditures for this class of building increased 11.7 per cent. There was a decrease of 17.1 per cent in the number of additions, alterations, and repairs and a decrease of 31.0 per cent in the indicated expenditures for this class of structure. Total building operations in these cities decreased 24.4 per cent in number and 17.1 per cent in indicated expenditures. The number of family dwelling units decreased 66.2 per cent comparing January, 1933, with January, 1932.

Permits were issued during January, 1933, for the following important building projects: In Binghamton, N. Y., for a State Armory to cost over \$200,000; in Austin, Tex., for a junior high school building to cost over \$325,000; in Sacramento, Calif., for a school building to cost nearly \$300,000; and in San Francisco for public works to cost over

COUNCIL STUDIES CITY POWER PLANT FOR BURLINGAME

The Burlingame city council is studying a proposal for a municipal power plant submitted by Schoemaker, Hackett and McIntyre, San Francisco engineers.

According to the engineers' survey the municipal plant, which would be diesel operated would net the city an annual profit of \$106,020. Cost of the system would total \$863,610, including \$73,500 for land and buildings, \$480,000 for the engine and generators and \$187,990 for a distribution system.

Revenue is estimated on income from 4600 consumers whom it is estimated would pay \$20,700 monthly at an average of \$4.50 per month.

Councilmen A. A. Hock, Ernest Rickard and R. L. Stone have been appointed a special committee to review the proposal.

NEW BUILDING ACT REQUIRES METAL LATH

S. F. Public Works Board Introduces Ordinance To Bar Wood

A new ordinance regulating the construction of plastered partitions and ceilings in buildings over two stories in height was introduced in the San Francisco board of supervisors yesterday at the request of Director of Public Works W. H. Worden.

The act provides that in all buildings of more than two stories excepting private dwellings the partitions and ceilings must be plastered in metal or equally fire-resistant lath. Timber lath will be permitted in residences of two stories with attic.

Hearings on the measure probably will be set for an early date by the committee on public buildings and land, to which it was referred for recommendation.

The text of the ordinance follows:

Section 1. Partitions and ceilings in all buildings of more than two stories in height wherein studding and/or floor constructions are of wood shall be plastered on metal or equal fire-resistant lath, provided, however, that in residences of two stories with attics timber lath shall be permitted.

\$12,000,000. Contracts were awarded by the Supervising Architect of the Treasury Department for a Federal court house in the Borough of Manhattan, to cost nearly \$6,000,000; for a narcotic farm in Lexington, Ky., to cost over \$2,000,000; and the Bureau of Yards and Docks of the United States Navy Department awarded a contract for a Marine Hospital in Philadelphia to cost over \$2,500,000.

PLASTERERS VOTE FOR UNIFORM \$7 WAGE IN STATE

Convention Delegates Say Wide Variation Handicaps Contractors

A uniform wage scale in the state of \$7 for plasterers will be the objective of the Master Plasterers' Association of California, delegates to the annual convention in Fresno decided.

President M. E. Summers of Fresno said the effort to establish a uniform scale is prompted by wide variation existing in different localities. Wages now range from \$6 to \$12, Summers said.

"We feel that members of the craft and not outsiders can best decide which is the prevailing scale and members of the craft bidding on big contracts at present have great difficulty in figuring on wages," he said.

Committeemen of the association also are to study means of relieving unemployment within the craft and to report to the executive committee. The executive committee at its semi-annual meeting will select the 1934 convention city.

Summers and other officers were re-elected to succeed themselves. The officers are: N. L. McKenzie, treasurer Harry Cayford, secretary; W. B. Scollan, Sacramento; S. L. Ford, Long Beach, and Wm. A. Keen, Glendale, first, second and third vice presidents, respectively, and R. L. Finch, Glendale; Lew Hughes, Pasadena; Jos. Masi, Fresno; Sydney James, Los Angeles; Joe Provenzano, San Jose; J. G. Walker, Long Beach, and Jos. E. Young, Santa Monica, directors.

Bert Johansen of Los Angeles, was elected to the directorate to succeed the late Geo. Pedgrift of Los Angeles, and Robert Knowles of San Francisco was elected to the board for a term beginning this year.

EXTENSION COURSE IN ENGINEERING

Norman B. Green, consulting engineer of San Francisco, will conduct a lecture course in structural engineering under auspices of the University of California Extension Division at the San Francisco center, it was announced yesterday.

The first course, entitled "Strength of Materials" will begin Monday, March 27, at 7 P. M., in Room 402, at 540 Powell street.

These courses have been given by Mr. Green for several years and are intended primarily for architects, contractors and draftsmen.

GRAVEL ORDINANCE PASSED

An ordinance requiring sale of gravel by weight instead of by yardage has been passed to print by the San Jose city council. Councilmen indicated they would give the ordinance further consideration however, before final passage.

Truck Carriers Ready to Resist State Bills Proposed to Extend Regulation

By Roy B. Thompson
Secretary, Allied Truck Owners

The immediate future of highway transportation in California is in the hands of the State legislature—and the electorate that voted them into office.

By this I mean that unless the voters, after election, still retain a degree of influence with the assemblymen and senators from their respective districts—and I am particularly referring to the voting farmers, merchants and shippers in general—and unless the men they have sent to Sacramento to speak for them are fair minded the motor truck industry will be riddled to pieces by the onslaughts of its enemies. And the immediate effect will be felt by more than 300,000 Californians dependent upon the industry.

At the January session of the present legislature more than one hundred bills were introduced that aim directly at the heart of the trucking industry. Some call for unbearable taxation, others restrict height, width and load, and still others, devoid of camouflage, were presented for the sole purpose of driving the trucks from the highways through confiscatory regulation and thereby restore to the railroads the transportation monopoly the latter enjoyed for so many years at the expense of the shipping public.

With their tongue in their cheeks the California railroads deplore the suggestion that they are fighting the trucks, according to a statement made in the public print early in February by their legislative spokesmen. The expression is not unfair to the railroads, for in the same breath this spokesman openly admitted that the railroads will concentrate at Sacramento in pushing to enactment into law Senate Bills 125, 355, 356, 386 and 387.

And these five bills are the most vicious of the lot. On the statute books, they would adversely affect the business of contractors, draymen, farmer, merchant and private truck owner.

And we, the truck owners, resent this barrage leveled at us, if only because last year we paid in California taxes aggregating twenty-seven million dollars as against the railroads' eight million dollars; we employed more than one quarter of a million persons, as against 80,000 on the payroll of the rail carriers.

But, very frankly, we are handicapped. We are young; the highway transportation system is comparatively new; it has not had time to develop its defensive organization to that degree of perfection which the railroads, through long experience, sometimes even in control of great States, has acquired and which has led them from a defensive attitude to an aggressive one. But if the public, whose demand for economical, flexible and convenient transportation has been met by the trucks, will stand be-

hind our industry in this crisis in California, we are confident of the ultimate outcome.

A brief analysis of the legislative bills which the railroads openly sponsor will show that when the rails said they favored only those measures which would assign truck transportation "to its proper place" they had but one place in mind—the scrap pile.

Senate Bill 125 would impose a per ton mile tax on the gross weight, which would be the "unladen weight" together with the "safe carrying capacity" of each vehicle in the locality in which it is "habitually operated." The tax would apply to all privately owned trucks, contract carriers, city draymen, dump trucks—in fact all trucks except those of the common carriers. The tax would be doubled for trucks equipped with solid tires, and a \$20 charge would be assessed for cost of an odometer to check the mileage. This bill would cost truck owners at least \$1000 a year per vehicle, in addition to all other taxes. And the revenue therefrom would be applied to employment of a small army of persons to collect and enforce it.

Senate Bill 355—Most vicious of the lot, this railroad measure is aimed at the contract carrier "so there can be a fair distribution of traffic to the end that the necessary transportation facilities (rails) may be maintained." In other words what the railroads cannot obtain through legitimate service and time attractions, they would force the shippers to give them by making it illegal to give to the trucks. Every contract hauler would be required to obtain a certificate of necessity and convenience from the Railroad Commission. The permit could not legally be issued if the applicant's proposed operation would "impair the efficient public service of any common carrier" already serving the territory.

The commission would determine this, not the farmer, merchant, contractor or shipper. No permit would be necessary could a contract carrier find in the State any community, without transportation facilities, within 30 miles of an incorporated city. But should he find such a place, he would be enjoined from driving his truck past a receiving or loading station of any common carrier or railroad under penalty of a fine of \$1000 or one year's imprisonment or both. This bill would outlaw the contract carrier.

Senate Bill 356—This would force the freight forwarder into the common carrier class and bring him under jurisdiction of the public utility act, regardless of whether he owned transportation equipment, operated it, was an agent for any transportation agency or knew the difference between a waybill and a bill-of-fare. For example, a man who as an act of friendship arranged for transportation of his neighbor's household effects from

one city to another could be bound to the provisions of this measure.

Senate Bill 386 would require the certificated carrier to carry motor truck liability. It would likewise limit the hours of drivers to a maximum of ten hours spread within a 16 hour period in each 24 hour period.

Senate Bill 387 strikes at the certificated carrier with these provisions to make his business unprofitable and, in instances, to make his equipment obsolete and legally impossible of operation:

"No vehicle, unladen or with load shall exceed a height of 12 feet 6 inches.

"No vehicle shall exceed in length 33 feet.

"No combination of vehicles coupled together shall exceed a total length of 33 feet.

"Gross weight of no vehicle with load shall exceed 18,000 pounds when vehicle is equipped with two axles.

"Gross weight of no vehicle and load shall exceed 22,000 pounds when such vehicle is equipped with three axles.

"When any such vehicle has a gross weight including load of more than 18,000 pounds and is equipped with three or more rear axles, such axles shall be spaced not less than 40 inches apart."

The foregoing gives an idea of how the truck owner stands with his railroad friends. I mean no unfairness to the railroads in making such a statement. Transportation is a basic industry, and the railroad corporations play an all important part in our economic life. It is, however, the opinion of Allied Truck Owners, our automotive Chamber of Commerce, that there is room for both the rails and the trucks, and that it is unfair for one to attempt to stifle the other for which there is an unquestioned public demand, that instead of diminishing is growing because of the flexibility and convenience to the shipper that is offered.

The National Industrial Traffic Association told the Coolidge Transportation Committee that if the railroads paid as much for upkeep of their roadbeds as trucks pay for use of the highways, the railroads would be in bankruptcy. We are making a vigorous effort to bring such facts before the public, generally, as well as before the legislators.

A catastrophe that would wipe out California's railroads would evoke a nation-wide cry of horror. Yet in the legislative program already laid down at Sacramento against highway transportation, we find all the potentialities of a legalized disaster that would wipe out the trucks which have brought the country to the city and the city to the country, developed the hinterland and reached back into the byways of the State where steel rails have never penetrated.

We intend to lay the situation squarely before the State senators and assemblymen, to appeal to their sense of fair play. And in so doing we intend to enlist the active support of their constituents to avert a situation that is today unthinkable.

U. S. Committee on Timber Construction Reports Use of Metal Connectors Will Revolutionize Wood Structural Practice

Introduction in this country of a "revolutionary" method of making wood joints through use of metal connectors, strengthening timber at its critical point and thereby making it available for wider consideration in construction of major structures, is forecast in a handbook on "Modern Connectors for Timber Construction" issued today by the National Committee on Wood Utilization, U. S. Department of Commerce, and prepared jointly by engineers of the Committee and of the Forest Products Laboratory, U. S. Forest Service, Department of Agriculture.

Lumber, construction, and metal stamping and casting interests, as well as architectural and engineering groups have been awaiting this report with unusual interest thru its several years of preparation. The new practices it makes available for engineering use should result in marked economy in construction, serve as a stimulant to the advantageous investment of capital therein, and prove an innovation and a boon in several special fields to which it will afford new avenues for activity and development. "The application of 'Modern Connectors for Timber Construction,'" said Secretary of Commerce Chapin in releasing the report, "should be given careful study by architects, engineers and builders. The principle involves economy in construction cost and increased service from building materials."

The handbook "Modern Connectors for Timber Construction" constitutes a re-introduction into this country, in modern, usable form and under economically favorable circumstances, of construction principles which were abandoned in embryonic and vaguely developed stages nearly half a century ago. As a result of war-enforced construction economies, these principles were adopted and advanced by engineers and constructors in the Central European and Scandinavian countries to the point where they have been satisfactorily and economically employed in hundreds of timber structures and major engineering projects.

The connectors which they employ consist principally of metal rings, plates, and disks, of a dowel type, or semi-dowel, with teeth on one or both faces. In general and in non-technical language, the connectors are placed or forced into the faces of wooden members to be jointed. The members are then brought together and held by the accustomed bolt, but the bolt becomes primarily a binder and only secondarily a load-bearing unit. With their larger circumferences, these connectors take an increased load and distribute it over a larger area of the timbers, thus avoid-

ing the undistributed high unit "edge stresses" frequently experienced under bolted connections where the small diameter bolt played against a localized area of the timber face, crushing the timber at this point, and, together with bent bolts, accounting for slip with consequent sag in structures. Thus, on most conservative laboratory data, the load-bearing capacity of the joint is increased from 4 to 8 times—and in certain cases as high as twelve times—that of the ordinary bolted joint.

The new method is compared by engineers, and even more favorably, with the advance from the ancient hand or cut framing to that of the bolted joint. It has been described by Wilson Compton, President, American Forest Products Industries, Inc., and leading economist of the lumber industry, as the "most important advance in wood technique in more than a hundred years," F. L. Smith, technical secretary, American Institute of Architects, has written that it will "undoubtedly open new fields for the efficient use of wood in many types of construction." B. L. Knowles, leading New England construction engineer who served on a special sponsoring committee as representative of the Associated General Contractors of America, observes the new connecting methods with "a large vision of the value of this work in future construction projects." Other engineers have described the innovation as "revolutionary" and bound to lead to a new conception by architects and engineers of the place of wood in construction.

There are some sixty odd types of modern connectors used abroad, of which some six or eight are considered important to American practice. No one type will meet all engineering requirements, but it will seldom be necessary to go beyond one or two types to a given construction project.

Pre-fabrication, similar to that employed in the use of other structural materials, becomes a natural step in the preparation of wood members for use with the new systems. Seatings and borings for the connecting hardware will be made with precision tools at the shop according to specifications, where the standards of materials themselves can also be checked against requirements by experts. Partly assembled, and assembled units will be shipped ready for speedy erection. Where intended use requires preservative treatment, this will be given after the borings have exposed new surfaces.

The wide use of these connectors abroad first came to the attention of American industry through Axel H. Oxholm, of the Department of

Commerce toward the close of the War, who picked the fact up from German prisoners while on duty in France. As Director of the National Committee on Wood Utilization he has since followed the matter closely for the Department, bringing back, after several protracted investigations abroad, all available European information on the subject. On his last visit in 1931 Mr. Oxholm viewed in excess of 100 major engineering structures in which wood had proven suitable as the principal structural material as a result of the use of modern connectors.

Following are some imposing examples of the varied types of structures in which modern connectors have been used in timber joining:

The Saengerfest Halle, Vienna, occupying five acres of ground and accommodating 75,000 persons for grand concerts;

Skoda Ammunition Works (Czechoslovakia) largest munitions makers in Europe, have constructed a plant at Moosbierbaum, Austria, using three-hinged arches for a span of 148 feet, which architects and engineers will note with interest;

Westpfalen Hall, Dortmund, Germany, free span 250 feet;

Concrete pouring trestle, Bleiloch Dam, length 680 feet, spans 83 feet;

Roald Amundsen Dirigible Hangar, Spitzbergen, in the Arctic, northernmost Norwegian island;

German Government Railway Station, Stuttgart (wooden dowel connectors used);

Radio towers, Breslau, 460 feet high. (A new pair of towers over 500 feet high are now being erected).

In addition to these examples—"Modern Connectors for Timber Construction" lists a hundred others from Norway, Sweden, Germany, Austria, Finland, France, Switzerland, Denmark and other European countries.

To reduce this comprehensive information to practical American use, however, required the assembly of extensive engineering data regarding qualities of the metal used in the connectors, and, in particular, the behavior of these connectors when employed with the generally stronger structural woods available in this country. The U. S. Bureau of Standards conducted the necessary metallographic studies to determine the properties of the connectors. Through several years past the Forest Products Laboratory has conducted an extensive series of analyses of their behavior when applied with our woods, both green and seasoned. The result is a comprehensive and dependable compendium of working data for use in American practice.

All of these data have been assembled and presented in the report with professional exactness by Nelson S. Perkins, construction engineer, and Peter T. Landsem, assistant construction engineer, both of the Wood Utilization Committee's staff, and George W. Trayer,

senior engineer, of the Forst Products Laboratory.

Secretary Chapin appointed a special committee representing the professions and industries affected, including major consuming groups, to collaborate in the assembly of the material for this handbook and sponsor its publication. Major H. S. Bennion, director of engineering, National Electric Light Association, headed this committee of the following individuals representing professional groups having a total membership of 103,000:

Wallace Ashby, American Society of Agricultural Engineers.

W. H. Booth, American Petroleum Institute.

Ralph Budd, American Railway Association.

Clement E. Chase, American Society of Civil Engineers.

Wm. F. Chew, National Association of Builders' Exchanges.

A. S. Downey and B. L. Knowles, Associated General Contractors of America.

Capt. Ralph H. Higgins.

R. R. Hornor, American Institute of Mining and Metallurgical Engineers.

Henry G. Perring, American Engineering Council.

Col. D. H. Sawyer, director, Federal Employment Stabilization Board, U. S. Department of Commerce.

Searcy B. Slack, American Association of State Highway Officials.

F. Leo Smith, The American Institute of Architects.

"Modern Connectors for Timber Construction" is a 147 page handbook explaining the connectors and their use, giving the relative value and fields of utility of the several types as determined by European practice and analyses made in this country, and American use data including a discussion of stress and load factors. It is paper bound, amply illustrated, and may be obtained at 15 cents per copy from the Superintendent of Documents, Government Printing Office, or the National Committee on Wood Utilization, U. S. Department of Commerce, Washington, D. C.

BOERMAN OFFICER OF LUMBER ASSN.

B. J. Boerman, Oakland, was elected vice-president for California of the Western Retail Lumbermen's Association at the 30th annual convention in Portland last week.

W. W. Anderson of Ogden, Utah, was elected president, succeeding Windsor J. Lloyd of Nampa, Idaho.

The convention adopted a resolution urging congress to maintain an active public construction program during 1933.

MANAGER APPOINTED

J. M. Hipple has been appointed general manager of merchandising engineering of the Westinghouse company. He will have charge of the appliance, motored appliance, refrigeration engineering, small motor engineering, radio engineering and industrial heating engineering departments.

BOOKLET DESCRIBES FIR PLYWOOD USES

Test data, drawings of construction details, finishing instructions and other helpful facts about Douglas fir plywood and its increasing uses are presented in a new illustrated booklet for architects and builders just announced by Douglas Fir Plywood Manufacturers, Skinner Building, Seattle.

Obtainable in many thicknesses and in standard sizes up to 4x8 ft., Douglas fir plywood is said to be split-proof and highly warp-resistant, to cost less per surface foot than ordinary lumber, and to make possible very great savings in labor. It is real lumber, laminated for greater size and strength.

Douglas fir plywood is widely used—both in new and remodeling construction—for walls and ceilings, cabinets and built-ins, sub-flooring, partitions, sheathing and many other purposes. A special 3/4 inch Douglas fir plywood wallboard is available, and also a specially glued and treated 5/8 inch Douglas fir plywood for concrete forms. This latter product is said to make possible flawless concrete surfaces with virtually no rubbing, and at a saving of 15 to 50% in carpentry labor.

Douglas Fir Plywood Manufacturers is the cooperative organization representing the 17 mills that produce this material.

47 EXHIBITORS SIGN FOR SPACE IN BURNER SHOW

Tenth Anniversary Display Of Association To Be In Chicago

A total of 77 spaces by 47 exhibitors has been taken for the tenth National Oil Burner Show of the American Oil Burner Association to be held in Chicago at Hotel Stevens, June 12-16, according to H. F. Tapp, executive secretary of the association, who said that this large registration so far in advance of the opening date "will make this exposition a national event in the heating and air-conditioning field."

"Not in the ten years of the association's show history has there been such an enthusiastic response to a national convention," Mr. Tapp said. "While the World's Fair may be considered one factor in bringing about this enthusiasm, the fact is that this tenth anniversary of the association marks a veritable turning point in the industry's progress with mass marketing and air-conditioning immediately before us."

In addition, it is expected that there will be a large representation from the manufacturers of distillate burners who have recently placed the headquarters of their national association in the offices of the A.O.B.A. with the executive heads of the latter directing the activities of both groups.

Further Reduction in Lumber Stocks Recommended by Conservation Board

The seventh quarterly report of the Lumber Survey Committee of the Timber Conservation Board has just been issued, showing estimated lumber consumption during 1932 and three preceding years, lumber stocks as of the first of 1933 and 1932 and anticipated lumber consumption during the first quarter of 1933.

The committee points out that although lumber stocks have been much reduced since 1930 and over 2.5 billion feet during the past year, equivalent to nearly one-fourth of the total volume of lumber movement, the net decline since the beginning of 1929 has been only about 30 per cent, whereas consumption in 1932 has declined over 65 per cent from 1929. The committee states that further large reductions in stocks are essential to industry recuperation and recommends a reduction during the year of 3 1/2 billion feet.

The committee finds that average lumber prices at the mill in the last quarter of 1932 showed a slight advance, the first in three years. It states that increase in production is not justified until consumption has increased and excess stocks liquidated. It recommends that diligent efforts be made

through exchanges of stocks and sales, to avoid unnecessary production of items already in industry surplus.

The report shows that if the lumber industry generally had not followed the recommendations of the Timber Conservation Board during the past two years and had continued production schedules at the rate prevailing in 1930 and early 1931, instead of an average stocks surplus of 40 per cent at the beginning of 1933, the surplus would have been approximately 120 per cent.

The Lumber Survey Committee appointed on July 9, 1931, consists of Thomas S. Holden, vice president, F. W. Dodge Co., New York; Dr. Frank M. Surface, assistant director, Bureau of Foreign and Domestic Commerce; M. W. Stark, lumber and coal economist of Columbus, Ohio; Calvin Fentress, chairman of the board, Baker, Fentress & Co., Chicago, and Dr. Wilson Compton, secretary and manager, National Lumber Manufacturers' Association. This committee serves voluntarily in cooperation with the work of the Timber Conservation Board in its study of the economic situation in the forest products industries.

Railroads Win Action to Establish Rate Differential For Southern Cement Mills

Laying down the general principle that "theories of rate making, however sound they may have been in the past, cannot prevail to hamper the carriers in their voluntary efforts to meet existing conditions so long as in so doing they do not create undue discrimination or otherwise adversely affect the public interest," the Railroad Commission has handed down a decision in a series of cement rate cases involving questions resulting from railroad and truck competition at cement mills located at Colton, and Victorville, San Bernardino county; Crestmore, Riverside county, and Monolith, Kern county.

The decision makes this further comment: "The competition which respondent seeks to meet is unregulated and beyond its power to control. In such cases carriers have been, and should be, accorded a reasonable latitude to use their managerial discretion. Particularly during this period of economic stress, with uncontrolled competition diverting traffic from the regulated carriers, extreme caution should be used before anything is done to interfere with the initiative of railroad management."

Seven cases in all were settled in the decision, all involving the lawfulness of the rates on cement from Colton, Crestmore, Victorville and Monolith to (first) points in the Imperial Valley on the Southern Pacific Company and Holton Interurban Railway and to points intermediate thereto, and (second) points on The Atchison, Topeka & Santa Fe Railway Company and San Diego & Arizona Railway south of Santa Ana.

The main question at issue in all cases was the differentials maintained by railroads between the inner mills (Colton and Crestmore) and the outer mills (Victorville and Monolith). The inner mills strongly contend that they should have a rail differential substantially under the rail rate from the outer mills. On the other hand the outer mills just as strongly urge the retention of the narrowing of the present differentials or their elimination entirely.

The inner mills now move all their traffic to the Imperial Valley by truck. The Southern Pacific Company, not being committed to any set differential between the inner and outer mills, decided to attempt to regain the lost tonnage. Assurance was given by the inner mills that if a 15 cent rate from Colton and Crestmore to the Imperial Valley was published, the traffic would be returned to the rails, provided, however, that the Victorville rates were not reduced by a corresponding amount. The 15 cent rate was published but was suspended by the Commission. On this issue the decision of the Railroad Commission says:

"There can be no question but what the inner mills hold the whip

hand over the Southern Pacific. They now are able to obtain truck rates ranging from 10 cents to 15 cents per sack. The Southern Pacific is faced with two alternatives. They can either forego the business entirely or they can establish the 15 cent rate with a 20 cent rate from Victorville and a 24½ cent rate from Monolith. If they do the latter they are assured of the entire movement from Colton and Crestmore, and would probably hold the movement from Victorville and Monolith. The commitment is made by the inner mills regardless of what the truck rates may be in the future.

"The record warrants the conclusion that the 15 cent rate is justified and that by the publication of a 20 cent rate from Victorville and a 24½ cent rate from Monolith it will not unduly prefer the inner mills nor unduly prejudice the outer mills."

Accordingly the decision holds that the proposed 15 cent rate from Colton and Crestmore to points in the Imperial Valley and points intermediate thereto and the proposed rates of 20 cents from Victorville and 24½ cent from Monolith to the same points of destination are not unduly preferential of Colton and Crestmore nor unduly prejudicial to Victorville and Monolith; and that the rates from Victorville and Monolith to points in the Imperial Valley have not been shown to be unreasonable on this record. The order of suspension in regard to this rate is dismissed.

On the issues involving rates to points on The Atchison, Topeka & Santa Fe Railway Company and San Diego and Arizona Railway south of Santa Ana, the decision holds that conditions are somewhat different than those relating to the Imperial Valley adjustment, and that the rates from Colton, Crestmore, Victorville and Monolith to points on The Atchison, Topeka and Santa Fe Railway and San Diego & Arizona Railway south of Santa Ana are not unduly

prejudicial to Colton and Crestmore; unduly preferential of Victorville and Monolith; unduly prejudicial to Monolith nor unduly preferential of Colton and Crestmore except as set forth below; that the rates from Monolith to points south of Santa Ana here under attack are unduly prejudicial to Monolith and unduly preferential of Victorville to the extent such rates exceed by more than one cent the rates concurrently in effect from Victorville; and that the rates from Monolith to Aliso, National City and points between have not on this record been shown to be unreasonable.

The formal order provides that the defendant railroads shall establish rates on cement, in carloads, from Monolith to points involved in these proceedings south of Santa Ana which shall not be more than one cent per 100 pounds higher than the rates concurrently maintained from Victorville to the same points of destination.

The cases included in the decision are as follows:

Southwestern Portland Cement Co. vs. The Atchison, Topeka and Santa Fe Railway Company, Los Angeles & Salt Lake Railroad Co., Southern Pacific Company and Holton Interurban Railway Co.

In the Matter of the Suspension by the Commission on its own motion of certain reduced rates on cement named on pages 34 and 35 of Southern Pacific Company Local, Joint, Proportional and Transshipment Freight Tariff 584-D, C. R. C. 2861, applying from Colton and Crestmore to points east thereof;

Monolith Portland Cement Company vs. Southern Pacific Company and The Atchison, Topeka & Santa Fe Railway Company;

California Portland Cement Co. and Riverside Cement Co. vs. The Atchison, Topeka and Santa Fe Railway Company, (two);

California Portland Cement Co. and Riverside Cement Co. vs. The Atchison, Topeka & Santa Fe Railway Co. and Southern Pacific Co.;

California Portland Cement Co. and Riverside Cement Company vs. Southern Pacific Co., The Atchison, Topeka and Santa Fe Railway Company and San Diego & Arizona Railway Company.

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DeGOLIA HEADS COMMITTEE ON U. S. ROAD AID

President of California Assn. To Organize Campaign For Highway Money

Presenting a nationwide approach by organized motorists to the question of future Federal Aid appropriations to assist states in highway development, a special committee representing all sections of the country and headed by E. B. DeGolia of San Francisco, president of the California State Automobile Association, has been formed. Selection of DeGolia for the chairmanship of the group is announced by Thomas P. Henry of Detroit, president of the American Automobile Association, with which the California organization is affiliated.

Appropriations for Federal Aid in furtherance of highway projects have been assured to the end of the fiscal year terminating next June, on the basis of \$125,000,000 a year, but legislation providing similar amounts for the fiscal years 1934 and 1935 are still pending in Congress.

A study of Federal Aid will be made by the special committee and a report prepared containing recommendations as to a future policy on the subject.

With highway work proving a popular and effective means of providing employment, it is being recognized that there is a need for sound policies which will assure highway construction being done on a basis of permanent rather than temporary benefits to the motoring public and other taxpayers.

The fact that states are required to match Federal Aid appropriations with equal sums from state funds is being emphasized by the California State Automobile Association and other groups which are resisting attempts to divert gasoline tax revenues from the highway fund to the state general fund. Such diversion, it is declared may endanger continuance of Federal Aid appropriations.

In addition to heading the Federal Aid committee, DeGolia also has been appointed chairman of the Good Roads Committee of the American Automobile Association.

BENNETT DEALERS HOLD CONFERENCE

A sales conference of more than five hundred representatives of the L. H. Bennett Co., Ltd., distributor of General Electric refrigerators, ranges, and other appliances, was held in San Francisco last Tuesday. The Alcazar theater was used to present a road show program demonstrating the utility and beauty of the line.

The feature of the show was the complete General Electric kitchen, featured by the L. H. Bennett Company in recent advertising.

ASSOCIATION GETS U. S. BANK APPROVAL

Surety Building and Loan Association of 285 South First Street, San Jose, has been notified by western headquarters of the Federal Home Loan bank at Los Angeles that it has qualified to obtain loans from the federal bank.

In commenting on Surety's acceptance as a member of the bank, W. C. Barkuloo, secretary of Surety Building and Loan, points out that in the past building and loan associations have appealed to the public for support. In good times that support has been forthcoming. Now that the public needs assistance, however, it is only fair that the building and loan association should cooperate to the fullest extent in making necessary adjustments.

"It is with this thought in mind," he said, "that Surety has availed itself at the first possible moment of the advantages of membership in the Federal Home Loan bank."

BERGSTROM HEADS S. F. CONTRACTORS

A. H. Bergstrom has been re-elected president of the General Contractors of San Francisco for a two-year term.

Other officers were elected as follows: W. W. Hayes, first vice-president; J. Martinelli, second vice-president; J. S. Malloch, treasurer, C. J. Dixon, secretary; Charles L. Taylor, G. K. Jensen and J. A. Grant directors.

President Bergstrom in his annual report outlines the activities of the past year, calling particular attention to the successful legislative campaign conducted in local and national governments.

Forty members of the chapter were present at the meeting and dinner at the Elks club.

City Engineer Gonzalez of Petaluma has been named building inspector to receive compensation by retaining inspection fees. The city council has finally passed the uniform building code, modified in minor respects to suit local conditions.

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PERMITS AND CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
102	Bottarini	Owner	3000
103	Standard	Owner	3750
104	Slickerman	Owner	3000
105	California	Coburn	5000
106	Carstens	Owner	1500
107	Doelger	Owner	20000
108	Moses	McShee	21000
109	Emilio	Schmidt	3000
110	Christiani	Owner	1250
111	Struthers	Lindgren	3500
112	Hanchett	Owner	5000
113	Elkington	Owner	4000
114	Herzig	Owner	3500
115	Peterson	Owner	3000
116	Terzian	De Benedetti	3000
117	Herzig	Owner	7000
118	Wilbe	Owner	5000

DWELLING

(102) NW MOSCOW AND FRANCE.
Two-story and basement frame dwelling.
Owner—E. Bottarini, 710 Naples St., San Francisco.
Architect—Not Given. \$3000

DWELLING

(103) E ARDENWOOD ST. 306 N Sloat Blvd. One-story and basement frame dwelling.
Owner—Standard Bldg., Co., 218 Castenada St., San Francisco.
Plans by Owner. \$3750

APARTMENTS

(104) NO. 213 GREENWICH ST.
Two-story frame (4) apartments.
Owner—H. Slickerman, 231-A Greenwich St., San Francisco.
Plans by G. Moore, 305 Filbert St., San Francisco. \$3000

REPAIRS

(105) NO. 1109-1111 MARKET ST.
Repair fire damage to market.
Owner—California Mutual Bldg. & Loan Assn., 775 Market St., San Francisco.

Architect—D. A. Riedy, 521 Market St., San Francisco.
Contractor—J. W. Coburn, 2048 Market St., San Francisco. \$5000

DWELLING

(106) S LAWTON ST. 57 E 46th Ave. One-story and basement frame dwelling.

Owner—A. A. Carstens, 102 Haight St., San Francisco.
Plans by Owner. \$1500

DWELLINGS

(107) W TWENTY-NINTH AVE. 56 S Irving St. Five one-story and basement frame dwellings.

Owner—H. Doelger, 320 Judah St., San Francisco.
Architect—F. F. Amades, 742 46th Ave., San Francisco. \$4000 ea

REPAIRS

(108) NO. 33-37 FRONT ST. Repair fire damage to factory.

Owner—Moses Ellis Estate, Boston, Mass.
Architect—Not Given.
Contractor—J. B. McSheehy, 137 Clifford Terrace, S. F. \$21,000

FLATS

(109) E SAN BRUNO AVE 150 N Felton St. Two-story frame store and flats.

Owner—A. Emilio, 2477 San Bruno Ave., San Francisco.
Plans by Owner.
Contractor—Schmidt Brothers, 1395 Hampshire St., S. F. \$3000

GARAGE

(110) NO. 3019 GEARY ST. Garage under dwelling.

Owner—C. Cristiani, 3019 Geary St., San Francisco.
Architect—Not Given. \$1250

DWELLING

(111) W MISSION 125 S Admiral St. Two-story frame dwelling.

Owner—M. T. Struthers.
Architect—Not Given.
Contractor—A. C. Lindgren, 346 Lowell St., San Francisco. \$3500

ALTERATIONS

(112) NO. 776 BUSH ST. Alterations to interior of apartments.

Owner—L. E. Hanchett, 776 Bush St., San Francisco.
Architect—Not Given. \$5000

DWELLING

(113) W TWENTIETH AVE 100 S Sloat Blvd. One-story and basement frame dwelling.

Owner—G. J. Elkington & Sons, 330 Vicente St., San Francisco.
Architect—S. A. Colton, Flatiron Bldg. San Francisco. \$4000

DWELLING

(114) E 21st AVE. 50 S Ocean Ave.; one-story and basement frame dwelling.

Owner—A. J. Herzig, 2300 Ocean Ave.
Architect—Not Given. \$3500

DWELLING

(115) NW WANDA 175 NE Onondaga one-story and basement frame dwelling.

Owner—A. R. Peterson, 60 Cotter.
Architect—Not Given. \$3000

ALTERATIONS

(116) 4436 MISSION ST.; alter garage for market.

Owner—Dr. P. G. Terzian, 4442 Mission Street.
Architect—Not Given.
Contractor—A. De Benedetti & Son, 22 Cotter. \$3000

DWELLINGS

(117) E 21st AVE. 130 S Ocean Ave.; two 1-story and basement frame dwellings.

Owner—A. J. Herzig, 2300 Ocean Ave.
Architect—Not Given. each \$3500

DWELLING

(118) S LOS PALMOS 100 E Rockdale; 2-story and basement frame dwelling.

Owner—A. J. Wilbe, 950 Monterey.
Architect—H. B. Stoner. \$5000

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
51	Confer	Confer	4000
52	Alexander	Anderson	2500
53	Christensen	Owner	4000
54	Dufau	Van Ness	2500
55	Warren	Schmidt	2000
56	Mehrtens	Haulman	3600
57	Rice	Owner	2-00
58	Perry	Owner	5000
59	Kearney	Owner	1500
60	Cretan	Owner	1500
61	Fitzsimmons	Owner	1400
62	Halcom	Swanson	1500
63	Fisher	Owner	1000
64	Kenward	Coburn	1900
65	Clark	Owner	2500

RESIDENCE

(51) NO. 484 CRAGMONT AVENUE, BERKELEY. Two-story 6-room 1-family frame residence.
Owner—Confer & Walker, 5730 Keith Ave., Oakland.

Architect—E. L. Snyder, 2102 Addison St., Berkeley.
Contractor—J. W. Confer, 5730 Keith Ave., Oakland \$4000

ALTERATIONS

(52) NO. 19 CRAIG AVE., PIEDMONT. Alterations.

Owner—Miss Juliette Alexander, 19 Craig Ave., Piedmont.
Architect—Not Given.
Contractor—H. C. Anderson & Son, 690 Montclair Ave., Oakland. \$2500

RESIDENCE

(53) NO. 502 BOULEVARD WAY, PIEDMONT. One-story 7-room residence and garage.

Owner—A. C. Christensen, 3917 Park Blvd., Oakland.
Architect—Not Given. \$4000

DWELLING

(54) NO. 1332 GLENFIELD AVENUE OAKLAND. One-story five-room dwelling.

Owner—Theodore Dufau.
Architect—Not Given.
Contractor—L. E. Van Ness, 4920 Park Blvd., Oakland. \$2500

DWELLING

(55) 3535 SUTER ST., OAKLAND. One-story 5-room dwelling.

Owner—W. H. Warren, 3502 Foothill Blvd., Oakland.
Architect—Not Given.
Contractor—A. K. Schmidt, 3502 Foothill Blvd., Oakland. \$2000

DWELLING

(56) NO. 2625 OTIS DRIVE, ALAMEDA. One-story 6-room frame and stucco dwelling.

Owner—C. G. Mehrrens, 1536 Webster St., Alameda.
Architect—Not Given.
Contractor—P. Royal Haulman, 1243 Broadway, Alameda. \$3600

DWELLING

(57) NO. 7988 MOUNTAIN BLVD., OAKLAND. One and one-half-story 3-room dwelling.

Owner—Norman J. Rice, Premises.
Architect—Not Given. \$1400

DWELLING

(58) NO. 7700-04 E-FOURTEENTH St. and 1406 77th Ave., OAKLAND Two-story 5-room dwelling and store.

Owner—M. R. Perry, 7123 E-14th St., Oakland.
Architect—Not Given. \$5000

DWELLING

(59) 1633 LINCOLN ST., BERKELEY one-story 3-room 1-family frame dwelling.

Owner—Sadie Kearney, 1631 Lincoln St., Berkeley. \$1500
Architect—Not Given.

STORE

(60) NO 2710 PARK BLVD., OAKLAND. One-story store.

Owner—Mrs. Louise Cretan, 2339 Elsworth Ave., Berkeley.
Architect—Not Given. \$1500

ALTERATIONS

(61) NO. 1812 E-TWENTY - FIRST St., OAKLAND. Two-story addition and alterations.

Owner—Lillian H. Fitzsimmons, 4417 Pleasant Valley Court, Oakland.
Architect—Not Given. \$1400

STATION

(62) NO. 1400 E-FOURTEENTH ST., OAKLAND. One-story brick service station.

Owner—Harry Halcom, 1723 Franklin St., Oakland.
 Architect—Not Given.
 Contractor—A. W. Swanson, 3906 Laguna Ave., Oakland. \$1500

ALTERATIONS
 (63) NO. 4216-17-19 PARK BLVD., OAKLAND. Alter store fronts.
 Owner—H. P. Fisher, 393 17th St., Oakland.
 Architect—Not Given. 1000

REPAIRS
 (64) NO. 111 ALVARADO ROAD, OAKLAND. Fire repairs.
 Owner—Dr. B. F. Kenward, Prem.
 Architect—Not Given.
 Contractor—Ira W. Coburn, 2048 Market St., San Francisco. \$1900

STORES
 (65) 1924-28 PARK BLVD., OAKLAND; one-story tile stores.
 Owner and Builder—C. D. Clark, 209 Moss Ave., Oakland.
 Architect—Not Given. \$2500

**BUILDING CONTRACTS
 SAN FRANCISCO COUNTY**

No.	Owner	Contractor	Amt.
19	Moses	McSheehy	20866
20	Emporium	Barrett	4100
21	Same	Empire	5320
22	Same	Cohn	4204
23	Wellman	Mohr	2128

REPAIRS
 (19) SW FRONT AND PINE STS. S 91-6xW 137-6 known as 37 Front St. All work to repair fire damage to factory.

Owner—Moses Ellis Real Estate Trust
 Architect—Not Given.
 Contractor—James B. McSheehy, 137 Clifford Terrace, San Francisco.

Filed Feb. 23, '33. Dated Feb. 23, '33.
 Frame work up.....\$5000.00
 Tar and gravel roof on..... 5000.00
 When completed 5616.42
 Usual 35 days..... 5250.00
TOTAL COST, \$20,866.42
 Bond, \$20,866.42. Surety, The Fidelity & Casualty Co. of New York. Limit, 100 days. Forfeit, none. Specifications only filed.

BRIDGE
 (20) ACROSS JESSIE ST., bet. The Emporium Building 2nd and 3rd floors and the Red Cross Warehouse (862-864 Mission St.) 3rd and 4th floors. All work for two-story steel and concrete bridge.

Owner—The Emporium, 835 Market St., San Francisco.
 Engineer—Victor H. Poss, 2929 Russell St., Berkeley.

Contractor—Barrett & Hilp, 918 Harrison St., San Francisco.
 Filed Feb. 24, '33. Dated Feb. 15, '33.
 On 1st and 15th of each month 75%
 Usual 35 days..... 25%
TOTAL COST, \$4100
 Bond, \$4100. Surety, United States Guarantee Co. Limit, forfeit, none. Plans and specifications filed.

EXCAVATING
 (21) OVER AREA BETWEEN THE Hulse-Bradford Warehouse and the Milwaukee Furniture Co. Bldg. All work for excavating the flooring.

Owner—The Emporium, 835 Market St., San Francisco.
 Architect—Not Given.
 Contractor—The Empire Constr. Co., Ltd., Shell Bldg., San Francisco.

Filed Feb. 24, '33. Dated Feb. 16, '33.
 On 1st and 15th of each month 75%
 Usual 35 days..... 25%
TOTAL COST, \$5320
 Bond, \$5320. Surety, United States Guarantee Co. Limit, forfeit, none. Plans and specifications filed.

TUNNEL
 (22) UNDER JESSIE ST. to connect The Emporium building basement and the Hulse-Bradford building basement. All work for concrete tunnel.

Owner—The Emporium, 835 Market St., San Francisco.
 Engineer—C. H. Snyder, 251 Kearny St., San Francisco.

Contractor—Theodore Cohn, Russ Bldg., San Francisco.
 Filed Feb. 24, '33. Dated Feb. 16, '33.
 On 1st and 15th of each month 75%
 Usual 35 days..... 25%
TOTAL COST, \$4204

Bond, \$4204. Surety, United States Fidelity & Guaranty Co. Limit, forfeit, none. Plans and specifications filed.

ADDITION, ETC.
 (23) NW EMBARCADERO AND Jackson Sts. All work for painting, plastering, repairing all exterior surfaces of six-story and basement plant with two-story addition.

W EMBARCADERO bet. Jackson and Pacific, extend to Drumm St. Five-story and basement plant Three story and basement part of above building.

Owner—Wellman, Peck & Co., 301 Embarcadero, San Francisco.
 Architect—J. E. Krafft & Sons, Phelan Bldg., San Francisco.

Contractor—J. A. Mohr & Son, 433 11th St., San Francisco.
 Filed Feb. 27, '33. Dated Feb. 23, '33.
 On completion\$1596
 Usual 35 days..... 532
TOTAL COST, \$2128

Bond, \$1064. Surety, American Employers' Insurance Co. Limit, 92 days. Forfeit, \$5 per day. Specifications only filed.

BUILDING CONTRACTS

No.	Owner	Contractor	Amt.
8	Ames	Hammarberg	9350

RESIDENCE
 (8) LOT 205, St. James Wood, Piedmont. All work for two-story frame and stucco residence.

Owner—George F. Ames, 39 York Dr., Piedmont.
 Architect—Miller & Warnecke, Financial Center Bldg., Oakland.
 Contractor—Albert Hammarberg, 2340 Le Conte St., Berkeley.

Filed Feb. 27, '33. Dated Feb. 9, '33.
 Frame up\$1925
 When plastered 1925
30 days after completion credit on property at No. 39 York

Orive to the amount of 5500
TOTAL COST, \$9350
 Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.

SAN FRANCISCO UNDER \$1000

BILLBOARD, \$7; SE Fell and Laguna owner, Foster & Kleiser, 1675 Eddy
ALTER store, \$200; 49 Taylor St.; owner, A. W. Wilson, 1925 Judah.

REPAIR fire damage to dwelling, \$450 74 Lundy Lane; owner, C. Desko-vitch, % Contractor; contractor, I. W. Coburn, 2048 Market St.

REPAIR fire damage to garage, \$72; 390 Liberty St.; owner, E. Baker, % Contractor; contractor, I. W. Coburn, 2048 Market St.

ALTER apartments, \$60; 762 Stockton St.; owner, Lee Huey, 762 Stockton; contractor, Shang Git, 145 Waverly St.

ALTER restaurant, \$158; 351 Geary, owner, Solari's Grill, Premises; plans by Funa & Schindler, 218 13th St.; contractor, A. E. Murray, 1055 Mission St.

REPAIR fire damage to apartments, \$505; 2030 Fell St.; owner, S. B. Ham, % Contractor; contractor, I. W. Coburn, 2048 Market St.

BARBER pole, \$50; 916 Sutter St.; owner, L. B. Ham, 333 Kearny St.; contractor, Bertrand Elec. Co., 600 California St.

ALTER dwelling, \$190; 88 Delano St.; owner, S. Quartararo, Premises.
ALTER dwelling, \$150; 410 First Ave.; owner, A. Leslie, Premises.

Alter interior of hotel, \$100; Post and Stockton Sts., Hotel Plaza; owner, Mr. Burbank, Premises; engineer, A. B. Saph, Rialto Bldg.; contractor, T. M. Jones, 643 29th Ave.

ALTER market, \$150; 443 Front St.; owner, E. Maracci, 443 Front St.
ALTER market, \$826; 5201-03 Geary; owner, G. Barbieri, 2328 Balboa St.; contractor, P. O. Lind, 2745 16th St.

ALTER dwelling \$150; 53 Eureka St.; owner, Mrs. Hauser, Prem. contractor, California Terrazzo Co., 2083 San Bruno Ave.

REPAIR store, \$315; 2634 Greenwich owner, Dr. L. Marknitz, % contractor; contractor, I. W. Coburn, 2048 Market St.

SIGN, electric, \$35; NW Market and Sanchez Sts.; owner, Associated Oil Co., Premises; contractor, QRS Neon Corp., 530 Potrero Ave.

REPAIR fire damage to dwelling, \$208- 572 Funston Ave.; owner, Miss Dwyer, % Contractor; contractor, I. W. Coburn, 2048 Market St.

ALTER dwelling, \$200; 708 Hampshire St.; owner, C. Oberti, Premises; contractor, D. Cappelletti, 667 Hampshire St.

GREASE racks (2) with apartment above two-story, \$500 each; SE Bayshore and Visitation; owner, Mrs. A. Walsh, 7 Teddy Ave.

ALAMEDA COUNTY UNDER \$1000

ALTERATIONS, \$89; 2110 Hearst Ave. Berkeley; owner, Miss L. D. Clark.

BILLBOARDS, \$100; 4392 Telegraph Ave., Oakland; owner, Special Site Sign Co., 3225 Louise St.

OFFICE, one-story tile, \$100; 2632 Broadway, Oakland; owner, Dahl Chevrolet Co., 24th and Broadway.

ALTERATIONS \$10; 1914 San Pablo Ave., Oakland; owner, H. R. Noftaly, 1914 San Pablo Ave.

GARAGE, one-story, \$88; 5959 Shafter Ave., Oakland; owner, Mrs. D. A. Porter, 241 Hillside St.

GARAGE, one-story, \$200; 29 Moss Ave., Oakland; owner, Mrs. G. Eitel, 1620 Lincoln Ave. Alameda.

ADDITION and one-story tile garage \$225; 515 25th St., Oakland; owner, Joe Mortorana, Premises; contractor, M. E. Valente, 5118 Clarke St.

FIRE repairs, \$160; 834 E-17th St., Oakland; owner, Dr. R. E. Sill, 1451 11th Ave.; contractor, R. J. Barr, 596 Chetwood St.

FIRE repairs, \$475; 916 Cypress St., Oakland; owner, R. J. Ratcliffe, 2511 Telegraph Ave.; contractor, Willis F. Llynn, 1037 1037 Ash-mount Ave.

ADDITION, \$150; 3215 Madeline St., Oakland; owner, H. F. Boyle, 2931 23rd Avenue.

STATION, service, one-story steel, \$500; 1100 E-8th St., Oakland; owner, Pacific Coast Oil Co., 1207 8th Avenue.

ALTERATIONS, \$150; 104 Monte Cresta Ave., Oakland; owner, O. Larsen, Premises.

ADDITION, \$100; 679 25th St., Oak- land; owner, Mrs. Vesta Smith Carr, 679 25th St.

REPAIRS, \$452; 2515 Hillegas Ave., Berkeley; owner, Berkeley Baptist Church, 2506 Dwight Way; contractor, Connor & Connor, Francisco St.

GREEN house, one-story and one- story lath house, \$700; 5462 E-14th St., Oakland; owner, S. Ishiman, 5462 E-14th St.

BUILDING NEWS

APARTMENTS

Plastering Contract Awarded.
REPAIRS Cost, \$32,000
SAN FRANCISCO. No. 765 Geary St.
 Repair fire damage to apartments.
 Owner—McKinnon Estate Co.
 Architect—Not Given.
 Contractor—I. W. Coburn, 2048 Market St., San Francisco.
 Plastering—Vance Petersen, 185 Del Monte St., San Francisco.
 Other awards reported Feb. 10.

Contract Awarded.
ALTERATIONS Cost, \$5,000
SAN FRANCISCO. No. 776 Bush St.
 Alterations to interior of apartments.
 Owner—L. E. Hanchett, 776 Bush St., San Francisco.
 Architect—Not given.
 Contractor—Joe Piasecke, 345 Haight Street.

BONDS

HELENA, Mont.—No bids received by Montana State Board of Examiners for \$4,500,000 state bonds, interest at 4%.

FACTORIES AND WAREHOUSES

Contract Awarded.
ADDITION Cost, \$30,000
SACRAMENTO, Sacramento Co., Cal.
 Eighteenth and C Streets.
 One-story frame and tile addition to packing plant (40x160 ft.)
 Owner—California Almond Growers Exchange, 1809 C St., Sacramento.
 Plans by Engineering Dept. of Owner.
 Contractor—H. W. Robertson, 3004 F St., Sacramento.

Contract Awarded.
REPAIRS Cost, \$20,866.42
SAN FRANCISCO. SW Front and Pine Streets.
 Repair fire damage to factory.
 Owner—Moses Ellis Real Estate Trust Company.
 Architect—Not Given.
 Contractor—James B. McSheehy, 137 Clifford Terrace, San Francisco.

Construction Started.
LUBRICATING PLANT \$15,000
FRESNO, Fresno Co., Cal.
 Lubricating oil and diesel fuel plant (vacuum type of operation).
 Owner—W. G. Phillips et al, 1231 N. Douty St., Hanford.
 Plans by Owner.
 Construction is under way under supervision of owner.

Preparing Preliminary Plans.
FREWEERY Cost, \$400,000
LOS ANGELES, Los Angeles Co., Cal.
 Eleventh St. and Santa Fe Ave.
 Class A brewery.
 Owner—Hauser Brewing Company.
 Architect—Claud Beelman, 1019 Union Bank Bldg., Los Angeles.
 Directors of the company are: I. Dockweiler, Louis A. Hauser, John H. Romboz, O. Nicholas Gabriel, E. C. Hauser and H. J. Hauser.

SAN FRANCISCO—Link Belt Co., 400 Paul Ave., at \$113,16 awarded contract by Department of Public Works for repairs to sand bucket at asphalt plant. Main Engineering Company, 119 Hooper St., at \$70 awarded contract for replacing liners in connection with the same.

Planned.
PLANT Cost, \$—
VISALIA, Tulare Co., Cal.
 Tomato processing plant (type of construction not determined); equipment, etc.
 Owner—Louis Caprlno, 2656 Van Ness Ave., San Francisco.
 Architect—Not Given.

Preparing Plans.
ALTERATIONS Cost, \$10,600
SAN JOSE, Santa Clara Co., Cal.
 Alterations and additions to brewery and malt house.
 Owner—Chas. Colpe et al (Frederickburg Brewery), Russ Bldg., San Francisco.
 Architect—Withheld.
 It is planned to start construction in about thirty days.

Planned.
ALTERATIONS Cost, \$25,000
SALINAS, Monterey Co., Cal. N. Main Street.
 Alterations and additions to brewery (new equipment etc.)
 Owner—Wm. Voss, 213 N. Main St., Salinas.
 Architect—To Be Selected.
 The cost of building improvements will be \$25,000. Equipment costs will be extra. Further information will be given in about two weeks.

Planned.
WAREHOUSE Cost, \$5000
SANTA BARBARA, Santa Barbara Co. Cal. Lawrence Ave. and Wuarantina St.
 One-story storage warehouse (40x65 feet); wood roof trusses.
 Owner—Frank Bonzallo, 521 Wentworth Ave., Santa Barbara.
 Architect—Not Given.

Bids Opened.
PLANT Cost, \$10,000
SAN FRANCISCO. Seventh and Harrison Streets.
 One-story reinforced concrete printing plant (60x37 feet) steel sash, plumbing, heating, electric wiring.
 Owner—Daily Racing Form.
 Architect—C. O. Clausen, 746 46th Ave.
 Low Bidder—Wm. Spivock, Hobart Building.

Following is a complete list of bids:
 William Spivock\$13,583
 O. K. Holt 14,171
 Mission Concrete Company 14,270
 C. L. Wold 14,445
 M. E. Vukicevich 14,773
 Villadsen Brothers 15,000
 J. F. Hannah 15,015
 Aetna Const. Co. 15,698
 John Piconi 15,710
 A. E. Disston 15,880
 Bids held under advisement.

Contract Awarded.
ALTERATIONS Cost, \$5320
SAN FRANCISCO. Jessie Street near Fifth St.
 Excavating flooring over area between Hulse-Bradford warehouse and Milwaukee Furniture Co. Bldg.
 Owner—The Emporium, 835 Market.
 Plans by Eng. Dept. of Owner.
 Contractor—Empire Const. Co., Ltd., Shell Bldg.

PHOENIX, Ariz.—Arizona Wool Growers' Assn., A. A. Johns, president, Phoenix, contemplates erecting a wool and mohair warehouse in Phoenix to cost \$20,000.

FRESNO, Fresno Co., Cal.—Fire destroyed the packing plant owned by Goldkist Packing Company on Church and East Avenues, February 27.

Damage estimated at \$50,000. The plant was owned by Henry Krum and A. C. Adams. Damage partly covered by insurance.

PHOENIX, Ariz.—Arizona Feed & Seed Assn., Marshall Humphries, manager, Phoenix, contemplates erecting a mill building in Phoenix. The building and equipment will cost approximately \$20,000.

GARAGES AND SERVICE STATIONS

Planned.
SERVICE STATION Cost, \$4500
REDWOOD CITY, San Mateo Co., Cal. Middlefield Rd. and Jefferson Ave.
 Mission style service station.
 Owner—Calvin Grandi, 202 Finger Ave., Redwood City.
 Architect—Not Given.

To Be Done By Day's Work.
SERVICE STATION Cost, \$8400
YREKA, Siskiyou Co., Cal.
 Steel service station.
 Owner—Shell Oil Co., Shell Bldg., San Francisco.
 Plans by Eng. Dept. of Owner.
 Construction will start immediately.

Plans Being Figured.
SERVICE STATION Cost, \$6000
SAN FRANCISCO. SW Pierce and Lombard Streets.
 Two one-story steel service station buildings.
 Owner—Standard Oil Co., 225 Bush St., San Francisco.
 Plans by Eng. Dept. of Owner (P. H. Brown, engineer).

Contract Awarded.
SERVICE STATION Cost, \$8000
PALO ALTO, Santa Clara Co., Cal. El Camino Real.
 One-story brick service station (tile roof, drinking fountain, etc.)
 Owner—Associated Oil Co., 79 New Montgomery St., San Francisco.
 Architect—Masten & Hurd, 233 Post St., San Francisco.
 Contractor—Empire Constr. Co., Shell Bldg., San Francisco.

SAN FRANCISCO, Calif.—Kamlan Fence Company, 351 Bryant Street, at \$135 submitted low bid to Department of Public Works to install two 8x8 gates for central warehouse, 15th & Harrison Streets. Following bids received:
 Kamlan Fence Company\$135.00
 Crown Fence Company 140.00
 Standard Fence Company 148.55
 Anchor Post Fence Company 151.40
 Michel & Pfeffer Iron Works 154.30
 Bids held under advisement.

Sub Contracts Awarded.
SERVICE STATION Cost, \$5000
REDWOOD CITY, San Mateo Co., Cal. 402 Middlefield Road.
 Steel frame and concrete service station.
 Owner—Associated Oil Co., 79 New Montgomery St., San Francisco.
 Architect—Masten & Hurd, 233 Post St., San Francisco.
 Engineer—E. J. Willits, care owner.
 Contractor—G. W. Williams Co., 315 Primrose Road, Burlingame.

Mill Work—Pacific Manufacturing Co., Santa Clara.
Excavation—J. O. Archibald, Redwood City.

Hardware—H. & H. Hardware Company, 1405 Broadway, Burlingame.
Steel Building—Michel & Pfeffer Iron Works, Harrison & 10th Sts., San Francisco.

As previously reported, fill and macadam to H. E. Casey Co., San Mateo; plumbing to P. E. Brand, 650 Jefferson Ave., Redwood City; wiring to M. E. Ryan, 345 Hilton St, Redwood City; concrete materials awarded to Redwood Materials Co. Maple Ave., Redwood City.

GOVERNMENT WORK AND SUPPLIES

SUNNYVALE, Santa Clara Co., Cal.—Until March 8, bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., for providing door, window and transom screens at the Naval Air Station, Sunnyvale. Spec. No. 7076. On previous bid opening lowest bid was submitted by the Cincinnati Fly Screen Co., Cincinnati, at \$2.75.

Bids Wanted—To Close March 24.
POST OFFICE Cost, \$150,000
VENTURA, Ventura Co., Cal. Santa Clara and Fir Streets.
 Two-story and basement masonry and steel post office (146x110) cream colored face brick exterior, terra cotta trim, stone base course, tile roof, tile floor and wainscoting, redwood ceiling in lobby, metal windows, steam heat, vaults, etc.
 Owner—United States Government.
 Architect—Harold E. Burket, 455 East Main St., Ventura.

WASHINGTON, D. C.—Until March 21, 3 P. M., bids will be received by Treasury Department, Office of the Supervising Architect, Washington, D. C., for installing a complete elevator plant in the U. S. Post Office at Phoenix, Arizona. Plans and specifications available from above office.
 (779)

PHOENIX, Ariz.—Until March 15, 4 P. M., bids will be received by Dr. A. J. Wheeler, Supt., Phoenix Indian Sanatorium, 1550 E. Indian School Road, Phoenix, to furnish 76 boiler tubes, seamless steel, hot roll boiler tubes not less than .12-in. thick O.D.

WASHINGTON, D. C. — Bids are being received by the Bureau of Yards and Docks, Navy Department, Washington, D. C., for two scale pits at the Naval Ammunition Depot, Pearl Harbor, T. H. Specification No. 7110. Date of opening bids not yet set.

MARCH FIELD, Riverside, Calif.—The War Department has withdrawn the appropriation for enlisted men's service club at March Field and has postponed the job. Bids were opened by the Constructing Quartermaster, at March Field on February 10. Jones Brothers, 9430 Santa Monica Blvd., Beverly Hills, were the low bidders at \$21,170.

OAHU, T. H.—Automatic Electric Co., Chicago, at \$9172 awarded contract by Bureau of Yards and Docks, Navy Department, Washington, D. C. for two automatic telephone systems complete with central office equipment, wiring, storage batteries, charging rectifier and connections to existing lines at the Naval Ammunition Depot, Oahu, T. H. Specification No. 7020.

WASHINGTON, D. C.—Murch Bros. Constr. Co., Railway Exchange Bldg., St. Louis, Mo., awarded contract by Treasury Department, at \$105,700, for the construction of the United States Post Office in Visalia Calif. The building will be a one-story and basement structure, 125x80 feet in area, with concrete foundations, brick and terra cotta tile walls and partitions, structural steel, metal skylights, vaults, brick and terra cotta exterior, wrought iron railings, granite base course, con-

crete floors with terrazzo, wood block and cork carpet surfaces, brick and marble wainscoting, damp-proofing, hollow metal work metal trim, composition roofing, asphalt block paving, bronze or copper screens, lawn sprinkling system, one-pipe low pressure steam heating system, etc. W. D. Coates, Jr., architect, 626 Rowell Bldg., Fresno Calif.

SAN FRANCISCO—City Const. Co., 2134 E 21st, Oakland, at \$325 submitted low bid to Constructing Quartermaster, Fort Mason, for item (1); James Currie, 1100 Peninsula Ave., Burlingame, at \$654 low for item (2); P. Donnelly and W. F. McHugh, San Francisco, at \$2350 low for item (3); and G. H. Armstrong, 2890 Howard St. San Francisco, at \$724 low for item (4), for extension of roads and concrete sidewalks, etc., for four sets of officers' quarters at Lovers Lane in the Presidio, involving:

- (1) construct sewer extension;
 - (2) construct water main extension;
 - (3) construct road exten., sidewalks;
 - (4) construct extension to electric pole line.
- Bidders follow:
- (A) City Const. Co., Oakland.
 - (B) James Currie, Burlingame.
 - (C) P. Donnelly and W. F. McHugh, San Francisco.
 - (D) G. H. Armstrong, San Francisco.
 - (E) Radelfinger Bros., San Francisco.
 - (F) A. G. Raisch, San Francisco.
 - (G) H. S. Tittle Co.
 - (H) P. L. Burr.
 - (I) F. W. Snook.
 - (J) Butte Elec. & Equipment.
 - (K) E. G. Hart.
 - (L) Skelly & Kohler.
 - (M) Fay Improvement Co.
 - (N) Lynn & Hefferman.
 - (O) E. Bradshaw.
 - (P) Frank J. Reilly.
 - (Q) Theo. Cohn.
 - (R) Eaton & Smith.
 - (S) Globe Electrical Works.
 - (T) Pacific Pavements Co., Ltd.
 - (U) E. J. Treacy.
 - (V) F. R. Ritchie.

Unit bids follow:

	(1)	(2)	(3)	(4)
(A)	\$325	\$ 775	\$.....	\$.....
(B)	384	654	.....
(C)	2350	.....
(D)	724
(E)	820
(F)	583	.....	3393
(G)	1285
(H)	780	694	3942
(I)	570	823	1018
(J)	810	885	756
(K)	580	.....	3700
(L)	560	752	.....
(M)	683	925	4020
(N)	860
(O)	450	.....	.....
(P)	\$4181	for 1 & 3, all or none	.....
(Q)	584	893	3078
(R)	850	1200	3500
(S)	845
(T)	615	773	3513
(U)	583	879	3391
(V)	861

SUNNYVALE, Santa Clara Co., Cal.—Until March 7, 11 A. M., bids will be received by Public Works Officer, 12th Naval District, 100 Harrison St., San Francisco, for improvements to mobile telescopic mooring mast at the Naval Air Station, Sunnyvale; Spec. No. 7226. Work includes a steel hatchway in the roof of the winch house, carbon dioxide fire extinguishing system for the mast top and the power house, a marker for centering the telescopic mast, electric light circuit and fixtures. Plans and specifications available from above office upon deposit of \$5.00.

Preliminary Plans Approved.
FEDERAL BLDG. Cost, \$5,850,000

LOS ANGELES, Calif. Main, Temple, and Spring Streets.
 Ten- to 12-story Class A Federal Bldg. (525x300).
 Owner—United States Government.
 Architect—John and Donald B. Parkinson, Title Insurance Bldg., and John C. Austin and Frederic M. Ashley, Chamber of Commerce Bldg., Los Angeles.

Site Selected.
POST OFFICE Cost, \$65,000
SANTA CLARA, Santa Clara Co., Cal. SW Franklin and Jackson Streets.
 Mission style Post Office (tile roof).
 Owner—United States Government.
 Plans by Supervising Architect, Treasury Dept., Washington, D. C.

BERKELEY, Alameda Co., Calif.—Following bids received by Construction Engineer, Post Office building, Berkeley, for making certain repairs and alterations in the old portions of the post office building in Berkeley.
 (1) Items A to T inclusive (miscellaneous work);
 (2) flooring, per sq. ft.;
 (3) metal locker base;
 (4) cork carpets;
 (5) vestibule entrance;
 (6) door enclosure;
 (7) electric fixtures guards, etc.;
 (8) electric light fixtures;
 (9) terra cotta shield and wrought iron flag pole.

- E. T. Leiter & Son, Oakland, (1) \$587 (2) \$.25 (3) \$100 (4) \$140 (5) \$250 (6) \$80 (7) \$10 (8) \$50 (9) \$350.
- K. E. Parker, San Francisco, (1) \$590 (2) \$.35 (3) \$135 (4) 147 (5) \$320 (6) \$102 (7) \$40 (8) \$150 (9) \$537.
- George Swanstrom, Oakland (1) \$819 (2) \$.25 (3) \$125 (4) \$90 (5) \$210 (6) \$82 (7) \$166 (8) \$107 (9) \$490.
- William Spivock, San Francisco, (1) \$837 (2) \$1.50 (3) \$45 (4) \$140 (5) \$290 (6) \$120 (7) \$90 (8) \$150 (9) \$250.
- S. C. McDonald, Oakland, (1) \$840 (2) \$1 (3) \$83 (4) \$160 (5) \$232 (6) \$104 (7) \$34 (8) \$150 (9) \$404.
- David Nordstrom, Oakland, (1) \$1,096 (2) \$.25 (3) \$75 (4) \$120 (5) \$198 (6) \$112 (7) \$38 (8) \$148 (9) \$372.

Bids referred to Washington for

Site Selected.
POST OFFICE Cost, \$---
KELSO, Washington. SW Allen and Fourth Streets.
 Post Office.
 Owner—United States Government.
 Plans by Supervising Architect, Treasury Dept., Washington, D. C.

SAN FRANCISCO—All bids rejected by U. S. Engineer's Office, San Francisco, to furnish one 26-in. gate valve for the U. S. Dredge "Marshall."

- SAN JOSE**, Santa Clara Co., Cal.—As previously reported, Montgomery Elevator Company, Moline, Ill., at \$4435 submitted low bid to Treasury Department, Washington, D. C. for furnishing and installing two freight elevators in the U. S. Post Office at San Jose. Following bids received:
 Montgomery Elevator Co., Moline, Illinois, \$4435.
 - Kimball Bros., Council Bluffs, Iowa, \$4672.
 - Otis Elevator Co., Washington, D. C., \$5134.
 - Reliance Elevator Co., Chicago, Ill., \$5250.
 - Shepard Elevator Co., Cincinnati, \$5390.
 - Haughton Elevator & Machine Co., Washington, D. C., \$5540.
 - Pacific Elevator & Equipment Co., San Francisco, \$5692.
 - Wm. A. Miller Machinery & Elevator Co., St. Louis, \$6680.
 - Westinghouse Electric Elevator Co., Chicago, \$6990.
- Bids held under advisement.

McNEIL ISLAND, Wash.—Bergh Briggs Company, Tacoma, at \$1,263 submitted low bid to Warden, U. S. Penitentiary McNeil Island, for furnishing and installing steam generating system at the farm kitchen, dining rooms and boiler rooms at the penitentiary, McNeil Island.

Contract Awarded.

OFFICERS QUARTERS

Cont. Price, \$114,574
SAN RAFAEL, Marin Co., Cal. Hamilton Field.

Twelve sets of officers' quarters (two-story and basement hollow tile and stucco structures; tile roof, cast stone, steel casement windows, gas fired hot water heating system, linoleum, plumbing, electrical work, etc.

Owner—United States Government.
 Plans by Constructing Quartermaster.
 Contractor—Meyer Bros., 727 Portola Drive, San Francisco.
 Grading bids are now being taken.

Preliminary Plans Approved.

POST OFFICE Cost, \$108,000
SOUTH PASADENA, Los Angeles Co., Cal. Fremont Ave. and E. Centre Street.

One-story and basement Post Office (96x95 ft.) Romanesque design.

Owner—United States Government.
 Architect—Marsh, Smith & Powell, Architects Bldg., Los Angeles.
 (100) 1st report Nov. 29, 1932; 2nd Jan. 23, 1933.

WALLA WALLA, Wash.—Pioneer Sand & Gravel Company, 901 Harrison St., Seattle, at \$2,984.52 submitted low bid to Supervising Superintendent of Construction, Veterans' Hospital, Palo Alto, for installing linoleum on floors, rubber stair tread covering and metal nosings in Building No. 68, at the Veterans' Administration Hospital, Walla Walla. Work involves preparing cement, tile and wood floors to receive new linoleum, furnishing and installing linoleum in rooms indicated on drawings. Following is a complete list of the bids:

- (1) providing rubber covering stair tread.
- Pioneer Sand and Gravel Co., Seattle\$2,984.52
 (1) 100.00
- Tourtellotte-Bradley Co., Seattle\$3,075.00
 (1) 150.00
- Seaside Prod. Corp., L. A.\$3,136.00
 (1) 87.70
- Custombuilt Floor Co., Portland\$3,270.00
 (1) 120.00
- West Coast Paint Co., Seattle.....\$3,297.00
 (1)
- D. Fryer, Seattle\$3,344.00
 (1) 116.00
- Empire Furniture Co., Walla Walla\$3,697.00
 (1) 123.00
- Cork Floor Products Co., Portland\$3,825.00
 (1)

SAN RAFAEL, Marin Co., Cal.—Robert A. Farish, 14 Pinehurst Way, San Francisco, at \$860 awarded contract by Constructing Quartermaster, Hamilton Field, San Rafael, for excavating the site for the Headquarters building to be erected at Hamilton Field (Marin Meadows) Bombing Base. Following bids received:
 Robert A. Farish, S. F.\$ 660
 Johnson & Nelson, San Rafael... 1225
 E. H. Higgins Co., San Rafael... 1222

Commissioned To Prepare Plans.

POST OFFICE Cost, \$425,000
HOLLYWOOD, Los Angeles Co., Cal. NW Wilcox and Selma Aves.
 Class A Post Office (171x235 ft.)
 Owner—United States Government.
 Architect—Clad Beelman Union Bk. Bldg., and Allison & Allison, Edison Bldg., Los Angeles.

Preliminary Plans Approved.
POST OFFICE Cost, \$39,000
SAN GABRIEL, Los Angeles Co., Cal. Post Office.
 Owner—United States Government.
 Architect—Scott Quinton, 418 N. California St., San Gabriel.

WASHINGTON, D. C.—As previously reported, Yuhasz & Olsen, 4174 Connecticut St., Gary, Ind., at \$22,594 submitted low bid to Coast Guard, Washington, D. C., for large dwelling to house officers' quarters, etc., laundry, storm clothes room, storage rooms, toilets, showers, etc.; 2-story and basement frame construction; frame boat house (60x36 feet) 288 launchway, concrete piers and trackage for life boats; frame garage (46x24 ft.) two-story cottage (34x27 feet) reinforced concrete reservoir, 14x12 ft.; pump house, 10x12 ft.; water supply system, standard look out tower, etc.

Following is a complete list of bids:

- (1) boathouse; (2) cottages.
- Yuhasz & Olsen, Gary, Ind.(1) \$22,594
(2) 6,280
- Leisch & Lofte, Marshfield, Oregon(1) \$24,570
(2) 5,800
- L. H. Hoffman, Portland.....(1) \$27,000
(2) 6,000
- Barham Bros., Salem, Ore.(1) \$27,200
(2) 5,800
- Wm. Wills, Seattle(1) \$29,713
(2) 5,600
- G. H. Buckler, S. F.(1) \$31,000
(2) 5,600
- Sig. Ash, Medford, Ore.(1) \$31,800
(2) 6,200
- Sullivan Const. Co. Oakland(1) \$31,138
(2)
- C. T. Brady & Co., Seattle(1) \$32,230
(2) 5,430
- J. W. and J. R. Hillstrom, Marshfield(1) \$32,884
(2) 6,000
- A. F. Mowat, Seattle.....(1) \$34,300
(2) 5,522
- B. T. Allyn, Portland.....(1) \$34,889
(2) 6,620
- H. Brown, Bandon, Ore.(1) \$39,968
(2) 7,813
- C. A. Montag(1) \$40,555
(2)
- A. Del Guzzo, Portland.....(1) \$42,420
(2) 5,400
- M. B. McGowan, S. F.(1) \$43,500
(2)
- Urbrand & Ostrom, Astoria(1) \$43,930
(2) 6,874
- F. J. Maurer & Son Eureka(1) \$44,982
(2) 8,900
- F. C. Dillard, Medford, Ore.(1) \$47,810
(2) 7,879
- Curry Construction Co., Gold Beach(1) \$52,340
(2)
- Parker-Schram, Portland(1) \$53,987
(2) 6,000
- Longton & Larkin, S. F.(1) \$65,958
(2) 7,953

Bids held under advisement.

SEATTLE, Wash.—Until Monday, March 6, bids will be received by the Division of Supply, Treasury Department, Washington, D. C., for Venetian blinds for 610 window openings, 191 transoms and 12 circle heats at Seattle; Proposal 5766.

WASHINGTON, D. C.—Orange Screen Co., Maplewood, New Jersey, at \$270 submitted low bid to Treasury Department for furnishing and installing insect screens in the U. S. post office at Neph, Utah. Following bids received:
 Orange Screen Co., Maplewood.....\$270
 Chamberlain Metal Strip, Detroit. 263
 Cincinnati Screen Co., Cincinnati 295
 Ceco Weatherstrip Works, Chicago 320
 Robbing Mfg. Co., Chicago..... 370
 Corry Metal Corp., Corry, Pa..... 460

WASHINGTON, D. C.—As previously reported, Chas. M. Bailey Co., 665 Folsom St., San Francisco, at \$6,424 and with an alternate of \$5,578 submitted low bid to Bureau of Supplies and Accounts, Washington, D. C., for furnishing strainers under Schedule No. 9587. Following is complete list of bids:

- Chas. M. Bailey Co., S. F.\$ 6,424
 Alternate 5,782
 - Schutte & Koerting Co., Philadelphia 6,771
 - Andale Co., Philadelphia 11,903
 - Staples & Pfeiffer, Ltd., S. F. 14,020
 - Elliott Co., Pittsburgh..... 20,160
- Bids held under advisement.
 (770) 1st report Feb. 24, 1933. 7

SUNNYVALE, Santa Clara Co., Cal.—Herman Lawson, 465 Tehama Street, San Francisco, awarded the electrical contract to Chas. A. Langlais, 472 Tehama St., San Francisco, in connection with the extension of existing services to the mooring circles, including motor-driven gasoline pumps, gasoline storage tanks, pump pits, light, power and telephone manholes, transformers, electrical apparatus and all piping, wiring and accessories at the Naval Air Station, Sunnyvale. Specification No. 7161.
 (349) 1st report Dec. 31, 1932; 6th Feb. 2, 1933. 7

POINT REYES, Marin Co., Calif.—Until March 29, 11 A. M., bids will be received by Public Works Officer, U. S. Navy Yard, Mare Island, for painting of exteriors of buildings at the U. S. Naval Direction Finder Station, Pt. Reyes, and painting exteriors and interiors of buildings at the U. S. Naval Radio Station, South San Francisco. Spec. No. 7006. Plans and specifications available from above office upon deposit of \$5.

EUREKA, Humboldt Co., Cal.—Until March 29, 11 A. M., bids will be received by Public Works Officer, U. S. Naval Yard, Mare Island, for painting exteriors and interiors of buildings at the U. S. Naval Direction Finder Station, Point St. George, Crescent, and painting of exteriors of buildings at the U. S. Naval Radio Station, Table Bluff, Eureka. Spec. No. 7005. Plans and specifications available from above office upon deposit of \$5.

EUREKA, Humboldt Co., Cal.—Until March 29, 11 A. M., bids will be received by Public Works Officer, Mare Island Navy Yard, for painting of two radio towers at the U. S. Naval Radio Station, Eureka. Spec. No. 7004. Plans and specifications available from the above office upon deposit of \$5.

CHEHALIS, Wash.—Murch Bros., Railway Exchange Bldg., St. Louis, awarded the following additional sub-contracts in connection with the construction of the U. S. post office at Chehalis:

Marble to Vermont Marble Co., 5535 N Lincoln St., Chicago; cut stone to Boise Stone Co., Boise, Idaho; sheet metal work to Builders' Sheet Metal Co., Inc., 1716 Yale Avenue, Seattle; promenade tile to Rogers Tile Co., Seattle; terrazzo to Sraida & Co., Inc., Seattle; glass and glazing to C. C. Balknap Glass Co., Seattle; painting to Chas. G. Swanson, Seattle; hardware to Shapleigh Hardware Co., St. Louis; parcel post curtains and cork carpet to Tourtellotte Bradley Corp., Seattle; insulating material to Hawaiian Cane Products Co., San Francisco.

WASHINGTON, D. C.—The following are additional contractors who have procured plans for the purpose of submitting bids to the Treasury Department on March 7 for fencing, etc., in connection with the Federal Building in Seattle:

Portland Ornamental Iron Works, 690 Kearney St., Portland.
West Coast Const. Co., Lloyd Bldg., Seattle.
Carl Bjork, 2437 W 63rd St., Seattle.
Neil McDonald, Lloyd Bldg., Seattle.
Morel Foundry Corp., 533 W Spokane St., Seattle.

WASHINGTON, D. C.—H. C. Miller, 1313 Franklin St., Santa Clara, at \$10,609 awarded contract by Bureau of Yards and Docks, Navy Department Washington, D. C., for the construction of three concrete garages at the Naval Air Station, Sunnyvale. Work includes swinging and sliding doors, wire mesh partitions, steel windows, built-up roofing and sheet metal work, water and electrical services, etc. Spec. No. 7178.

Following is a complete list of bids:
H. C. Miller, Santa Clara.....\$10,609
Theodor Johnson, S. F..... 10,647
Geo. Peterson, San Leandro..... 11,390
Roy Lind, San Francisco..... 11,527
G. W. Williams Co., Burlingame 12,281
S. F. Const. Co., S. F..... 12,700
Neves & Harp, Santa Clara..... 12,823
Dixson & Delhi, S. F..... 13,421
C. L. Wold, S. F..... 13,600
E. T. Lesure, Oakland..... 13,628
Alfred H. Vogt Co., S. F..... 14,650

POMONA, Los Angeles Co., Cal.—Corry Metal Corp., Corry, Pa., has been awarded a contract by the Treasury Department at \$725, for furnishing and installing insect screens in the United States Post Office at Pomona.

SAN FRANCISCO.—Globe Electric Works, 1899 Mission St. at \$549 awarded contract by Supervising Superintendent of Construction, Veterans' Hospital, Palo Alto, for secondary lighting services to Fort Miley, west, and for revisions for secondary services, Fort Miley, east.

LOS ANGELES, Cal.—Geo. Fensky Co., San Francisco, awarded contract by Post Office Department, at \$1210, for furniture and screenline equipment for the Los Angeles post office, Station E. McLane Mfg. Co., Milford, N. H., was awarded contract at \$538 for furniture for Los Angeles post office, Station H.

FORT HUACHUCA, Arizona.—Until Thursday, March 9, bids will be received by the Quartermaster, Ft. Huachuca, for 105 items of electric supplies, including boxes, conduit, condulets, outlets, switches, shades, terminals, wire lights, receptacles etc.; Circular 6.

MARE ISLAND, Cal.—All bids received by Public Works Officer, Mare Island Navy Yard, have been rejected for furnishing and installing oil tanks on a concrete platform, all supported on a pile foundation, including earth fill berm, asphalt macadam lined oil basin, pump house with pit, pumps, purifier, piping and electric wiring, all complete. Spec. No. 7079. Work has been abandoned.

Property Purchased.
POST OFFICE Cost, \$225,600
SANTA MONICA, Los Angeles Co., Cal. Fifth St. and Arizona Ave. Post Office.
Owner—United States Government.
Architect—Not Selected.

POST OFFICE Cost, \$87,000
VAN NUYS, Los Angeles Co., Calif. Sylvan St. near Van Nuys Blvd. One-story and mezzanine floor post office (Spanish style).
Owner—United States Government.
Architect—J. Robert Harris, 6715 Hollywood Blvd., Los Angeles.

WASHINGTON, D. C.—N. P. Severin Co., 222 W Adams St., Chicago, at \$2,548,000 submitted low bid to the Treasury Department, Washington, D. C., for the construction of a six-story and basement reinforced concrete Federal Building in the Civic Center, San Francisco. Will have granite exterior, terra cotta court lining, terrazzo and tile flooring, mastic tile floors in offices, seven elevators, steam heating system, etc. Plans prepared by Architect Arthur Brown, Jr., 251 Kearny St., San Francisco. C. H. Snyder, 251 Kearny St., San Francisco structural engineer, and Leland and Hale, 58 Sutter St., San Francisco, mechanical engineers. Following are six low bidders:

(1) add if terra cotta tile units are used for facing walls of first story corridors in place of painted plaster.
(2) add if all roof surfaces of enclosed faces of buildings are insulated.
N. P. Severin Co., Chicago.....\$2,548,000
.....(1) 5,500
.....(2)
Great Lakes Const. Co., Chicago\$2,597,950
.....(1) 14,000
.....(2) 1,000
Jacobsen Const. Co.....\$2,675,000
.....(1) 17,000
.....(2) 5,000
Geo. Wagner, S. F.....\$2,690,000
.....(1) 8,000
.....(2) 2,000
Lindgren & Swinerton, Inc., San Francisco\$2,710,000
.....(1) 5,050
.....(2) 2,240
Clinton Const. Co., S. F.....\$2,731,500
.....(1) 4,000
.....(2) 2,500

Complete list of the bids will be published shortly.

WASHINGTON, D. C.—Otis Elevator Co., 1 Beach St., San Francisco, at \$78,900 submitted low bid to the Treasury Department, Washington, D. C., for complete elevator plant in connection with the Federal Building to be erected in the Civic Center, San Francisco. Following are three low bids:
Otis Elevator Co., S. F.....\$78,900
Westinghouse Elec. Elev. Co., Philadelphia 82,525
Shepherd Elevator Co..... 89,850
Complete list of bids will be published shortly.

WASHINGTON, D. C.—H. W. Underhill Const. Co., 235 N Waco St., Wichita, Kansas, at \$105,340 submitted low bid to Treasury Department for the construction of a mess hall and school building at the U. S. Federal Southwestern Reformatory at El Reno, Okla., for the U. S. Government. Complete list of bids will be published shortly.

MARCH FIELD, Riverside Co., Cal.—George Gardner, 445 E Cypress Ave., Redlands, was awarded the contract by the Contracting Officer, Quartermaster Corps, March Field, Feb. 27, at \$448.47 for installing storm drain system and applying seal coat and repairing paved aprons, warm-up areas, and hangar line runway at March Field. The work involves approximately 84,000 sq. yds. of paved area to be treated and repaired, 500 ft. of 12-in. concrete pipe, and reinforced concrete catchbasins with steel grate covers. The other bids were: Anso Const. Co., \$5261; W. J. Brand, \$5565; Hall-Johnson Co., \$6669.80; O. U. Miracle, \$7263.

SAN DIEGO, Cal.—Until Tuesday, March 14, bids will be received by the Bureau of Supplies & Accounts, Navy Department, Washington, D. C., for

3350 square feet galvanized steel expanded metal for San Diego; Sched.

SUNNYVALE, Santa Clara Co., Cal.—Theo. Johanns, 2020 15th St., San Francisco, at \$924 submitted low bid to 12th Naval District, San Francisco, for small store facilities for barracks, an enclosure for storehouse at the Naval Air Station, Sunnyvale. Work includes hollow tile, plaster, woven wire, fabric partitions, painting ornamental iron grilles linoleum, steam heating and miscellaneous iron work. Specification No. 7225. Following bids received:
Theo. Johanns, S. F.....\$ 924
Roy Lind, San Francisco..... 935
A. H. Vogt, San Francisco..... 1070
Bids held under advisement.

Site Selected.
POST OFFICE Cost, \$—
REDDING, Shasta Co., Cal. Railroad Ave., Yuba, Oregon and Placer Sts. Post Office.
Owner—United States Government.
Plans by Supervising Architect, Treasury Dept., Washington, D. C.

Additional Sub-Contracts Awarded.
POST OFFICE Cost, \$363,660
RENO, Washoe Co., Nevada. No. 21 Mill Street.
Three-story Class A Post Office (terra cotta and stone exterior finish, marble corridors, etc. (190x80 ft.)
Owner—United States Government.
Architect—F. J. DeLongchamps, Gazette Bldg., Reno, Nevada.
Contractor—MacDonald Engineering Co., 14 California St., S. F.
Terra Cotta—Architectural Floor Co., Co., Geshen, Indiana.
Masonry—Hock & Hoffmeyer, 666 Mission St., San Francisco.
Other awards reported Jan. 20, 1933.

POST OFFICE Cost, \$175,600
ALHAMBRA, Los Angeles Co., Cal. South Garfield Avenue. Post Office.
Owner—United States Government.
Architect—John Walker Smart, 39 E. Main St., Alhambra.

be accepted. Plans are also obtainable from the Constructing Quartermaster, Ft. Mason, Calif., and are on file for examination at the Los Angeles Chamber of Commerce. Bid bond for 10 per cent must accompany each bid.

WASHINGTON, D. C.—W. J. Ochs, American Trust Company Building, San Jose, at \$256,017 awarded contract by Treasury Department, for the construction of a two story and basement Class A post office building at First and St. John Streets, San Jose. Ralph Wyckoff, First National Bank Building, San Jose, Architect. Leland and Hale, 58 Sutter St., San Francisco, mechanical engineer. L. H. Nishkian, 525 Market St., San Francisco, structural engineer.

WASHINGTON, D. C.—Dinwiddie Construction Company, Crocker Bldg., San Francisco, at \$73,750 submitted low bid to Bureau of Yards and Docks, Navy Department, Washington, D. C., for the construction of a balloon hangar at the Naval Air Station, Sunnyvale. Specification No. 7027. Work includes concrete, steel and iron work, steel doors and windows, built-up roof, metal studding and lathing, carpentry and joinery plumbing and electrical systems. Following are three low bids:
Dinwiddie Construction Co., San Francisco\$73,750
K. E. Parker Company, San Francisco 75,300
George Peterson, San Leandro.. 75,980
Complete list of bids will be published shortly.

OAKLAND, Alameda Co., Calif.—
Venor Company, 2059 Webster Street,
Oakland, at \$3,860 submitted low bid
to Custodian, Oakland Post Office, for
linoleum for the Oakland Post Office.
Following bids received:
Venor Company, Oakland\$3,860.00
Daahl-Thoms Co., Oakland..... 3,974.00
F. A. Kamp 4,119.85
Anderson Carpet House, Oak-
land 4,250.00
Van Fleet Freear Co., San
Francisco 4,350.00
Bids held under advisement for a
few days.

ALAMEDA, Cal.—Eaton & Smith,
715 Ocean Ave., San Francisco, at
\$4,126 recommended for award of con-
tract by U. S. Bureau of Public Roads,
Government Island, Alameda and 461
Market St., San Francisco, to con-
struct parts of Units Nos. 1, 3, 5 and
8 Government Island construction, at
Government Island, Alameda.
Complete bids published March 1.

Bids Opened.
GENERATOR SET, ETC. Cost, \$—
SAN FRANCISCO. Letterman Gen-
eral Hospital.
Steam turbine generator (100-kw.) and
new turbine end for 200-kw. gener-
ator (work consists of air re-
duction gear and generator, pip-
ing, new switchboard panel with
instruments, gate valves, etc.)
Owner—United States Government.
Plans by Construction Quartermaster,
Fort Mason.
Low Bidder—De Laval Steam Turbine
Co., 61 Beale Street.
Following bids received:
(a) work complete under Items 1 and 3
(b) work complete under Items 2 & 3
De Laval Turbine Co.....(a) \$10,790
.....(b) 10,490
Westinghouse Electric Co.....(a) \$11,730
.....(b) 11,350
Murray Iron Works Co.....(a) \$13,370
.....(b) 13,019
General Electric Co.....(a) \$19,546
.....(b) 19,546
Bids held under advisement.

SAN FRANCISCO.—The following
awards made by Constructing Quar-
termaster, Fort Mason, for extension
of roads and concrete sidewalks, etc.,
for four sets of officers' quarters at
Lovers Lane in the Presidio:
Sewer Extension
City Const. Co., 2134 E 21st St., Oak-
land, \$325.00.
Water Main Extension
James Currie, 1100 Peninsula Avenue,
Burlingame, \$654.00.
Road Extension and Sidewalks
P. Donnelly and W. F. McHugh, 1539
Funston Ave., San Francisco, \$2,-
350.00.
Electric Pole Line Extension
G. H. Armstrong, 2890 Howard Street,
San Francisco, \$724.00.

ALBROOK FIELD, Canal Zone —
Until 11 A. M., May 1, bids will be re-
ceived by the Department Quartermas-
ter, Panama Canal Department,
Quarry Heights, C. Z., for earth and
rock excavation, curbs sidewalks,
pavement, water distribution and fire
protection systems, storm and sani-
tary sewer systems, electrical distri-
bution system, dispensary, fire and
guard house, garage, the remodeling
of present hangar into a QM ware-
house and the headquarters and oper-
ations building for the Air Corps at
Albrook Field, C. Z. Plans and specifi-
cations may be obtained upon appli-
cation to the Assistant to the Depart-
ment Quartermaster for Construction,
Albrook Field, C. Z., upon deposit of
cash or postal money order in the
sum of \$50, payable to the Treasurer
of the United States. Checks will not

HALLS AND SOCIETY BUILDINGS

CLUBHOUSE Cost, \$2000
SAN MATEO, San Mateo Co., Calif.
Foot of Peninsular Avenue.
One-story frame and stucco clubhouse
(40x30 ft.) Spanish type, tile roof,
metal sash, electric heat (will
house administrative offices, rest
rooms and small cafe).
Owner—City of San Mateo.
Architect—Thomas G. Edwards, 525
Market St., San Francisco.

Contract Awarded.
ALTERATIONS. Cost, \$2500
OAKLAND, Alameda Co., Cal. No.
1441 Franklin Street.
Alterations to club.
Owner—University Club, Jackson and
Lake Sts., Oakland.
Plans by Jack Minchin, 954 12th St.,
Oakland.
Contractor—George Swanstrom, 1615
78th Ave., Oakland.

Contracts Awarded.
ALTERATIONS Cost, \$2000
SANTA ROSA, Sonoma Co., Cal. Third
St. and Exchange Ave.
Alterations to club (plumbing, elec-
trical work, painting, etc.)
Owner—Elks Club (H. T. Anderson,
Exalted Ruler).
Plans by G. W. Hayner, 203 Orange
Ave., Santa Rosa.
Plumbing—Hall Bros., 107 Roberts
Ave., Santa Rosa.
Carpentry—Ed Bohn, Sebastopol Ave.,
Santa Rosa.
Electric—H. W. Jacobs, 316 B St.,
Santa Rosa.
Painting—Gandini & Testorelli, 1118
Morgan St., Santa Rosa.

HOSPITALS

SAN FRANCISCO—Until March 10,
3 P. M., bids will be received by T.
A. Brooks, Purchaser of Supplies, 270
City Hall, for furnishing steel furni-
ture, etc., for health department.
Specifications and proposal blanks
available from above office.

SAN LUIS OBISPO, Cal.—The San
Luis Obispo County's Welfare Com-
mittee will present a proposition to
construct a county tubercular hospital
as an unemployment relief measure.
Plans have been prepared and call for
a structure to provide 24 beds and to
cost approximately \$12,000. More
definite information will be given in
about one week.

HOTELS

PETALUMA, Sonoma Co., Calif.—
Fire destroyed the three-story hotel
in Keddie February 24. Damage esti-
mated at \$20,000. The Keddie Trading
Co. were owners of the building.

ICE AND COLD STORAGE PLANTS

Reinforcing Steel Contract Awarded.
PRECOOLING HOUSE Cost, \$6000
SANTA ROSA, Sonoma Co., Cal.
Two-story wood frame pre-cooling
house (20x120 feet) to connect to
main warehouse.
Owner—Grace Brothers.
Engineer—L. H. Nishkian, 525 Market
St., San Francisco.
Reinforcing Steel—Gunn, Carle & Co.,
20 Potrero Ave., San Francisco.

POWER PLANTS

PASADENA, Cal.—General Electric
Co., General Electric Supply Co., Gen-
eral Cable Corp., John A. Roebing &
Sons, Columbia Steel Co., Okonite-
Callender Cable Co. and the Graybar

Electric Co. submitted identical bids
to the city clerk Feb. 24 for furnish-
ing f.o.b. cars, Pasadena, lead cover-
ed cable as follows:

- (1) 897 ft. three-conductor sector
stranded 500,000 cir. mil. type H 23,-
000-volt cable on 29 reels: \$2,009 per
ft.; total \$16,226.87; reels, only, \$1559.
- (2) 9085 ft. do on 33 reels; \$2,009 per
ft.; total \$18,251.76, reels only \$1749.
- (3) Items Nos. 1 and 2 combined:
\$2,009 per ft.; total, \$34,518.63; reels
only, \$3308.

LOS ANGELES, Cal.—Bids will be
called probably next week by the Met-
ropolitan Water District for the con-
struction of transmission lines bet.
Mecca Pass and the Parker Dam site.
Plans and specifications are being
completed by the Chief Engineer, F.
E. Weymouth. The proposed work
will involve 38 miles of 66,000-volt and
140 miles of 33,000-volt line, including
the furnishing of poles and suspen-
sion insulators; other materials to be
furnished by the district. J. M. Gay-
lord is the Chief Electrical Engineer.

SANTA MONICA, Los Angeles Co.,
Cal.—The Associated Telephone Co.,
Ltd., of Santa Monica will expend ap-
proximately \$16,000 in the relocating
of telephone lines and underground
system incidental to the Roosevelt
Highway improvement bet. the Los
Angeles city limits and Las Flores
Canyon. The telephone company's
work involves the moving of 16,000 ft.
of aerial cable and 4000 ft. of under-
ground conduit.

LOS ANGELES, Cal.—Approximate
quantities included in the six sched-
ules for the construction of the Val-
verde and Bernasconi Tunnels, for
which bids will be opened by the
Metropolitan Water District, 306 W
3rd St., at 10 A. M., March 20 (pre-
viously noted) are given herewith. The
work is located in the vicinity of the
towns of Perris and Lakeview in Riv-
erside County. The work to be bid
upon consists of the excavating and
lining of two water supply tunnels
7.2 and 1.1 miles in length, respecti-
vely, and is divided as follows: Sched-
ules 1 or 2, Bernasconi Tunnel, 1.1
miles; Schedules 3 or 4, East Portion
Valverde Tunnel, 3.3 miles; Schedules
5 or 6, West Portion Valverde Tunnel,
3.9 miles.

Under Schedules 1, 3 and 5 pro-
posals will be received for construct-
ing the tunnels above listed with a
finished interior diameter of 15 ft. 3
in., and under Schedules 2, 4 and 6,
alternative proposals will be received
for their construction with a finished
interior diameter of 11 ft. 9 in.

SCHEDULE NO. 1

Construction of the Bernasconi Tun-
nel with a diameter of 15 ft. 3 in., to-
gether with appurtenant works.

(Schedules 1 and 2 are alternative
and both will not be awarded. A pro-
posal under Schedule 1 will not be
considered unless the bidder submits
a proposal under Schedule 2 also.)

- (1) tunnel access, lump sum;
- (2) 61,600 cu. yds. excav. in tunnel;
- (3) 50 cu. yds. excav. for tunnel en-
largement;
- (4) 16,600 cu. yds. concrete in tunnel;
- (5) 250 M. ft. B. M. furnish and place
permanent timber in tunnel;
- (6) 15 tons erect steel support in tun-
nel;
- (7) 10 cu. yds. Guniting coating of
rock in tunnel;
- (8) 25 connections for grouting;
- (9) 65 cu. yds. mix and place grout;
- (10) 25,000 lbs. place reinforcing steel
- (11) 100 tons miles hauling steel;
- (12) 14,000 ton miles hauling cement;
- (13) does not apply here.

SCHEDULE NO. 2

Construction of the Bernasconi Tun-
nel with a diameter of 11 ft. 9 in., to-
gether with appurtenant works.

(Schedules 1 and 2 are alternative and both will not be awarded. A proposal under Schedule 2 will not be considered unless the bidder submits a proposal under Schedule 1 also.)

- (1) tunnel access, lump sum;
- (2) 40,000 cu. yds. excav. in tunnel;
- (3) 25 cu. yds. excav. for tunnel enlargement;
- (4) 12,800 cu. yds. concrete in tunnel;
- (5) 148 M. ft. B.M. furnish and place permanent timber in tunnel;
- (6) 11 tons erect steel support in tunnel;
- (7) 10 cu. yds. Gunite coating of road in tunnel;
- (8) 25 connections for grouting;
- (9) 50 cu. yds. mix and place grout;
- (10) 20,000 lbs. place reinf. steel;
- (11) 80 ton miles hauling steel;
- (12) 11,750 ton miles haul cement;
- (13) does not apply here.

SCHEDULE NO. 3

Construction of the east portion of Valverde Tunnel, Station 11,695 plus 00 to Station 11,870 plus 00, with a diameter of 15 ft. 3 in., with appurtenant works.

(Schedules 3 and 4 are alternative and both will not be awarded. A proposal under Schedule 3 will not be considered unless the bidder submits a proposal under Schedule 4 also.)

- (1) tunnel access, lump sum;
- (2) 181,000 cu. yds. excav. in tunnel;
- (3) 100 cu. yds. excav. for tunnel enlargement;
- (4) 48,000 cu. yds. conc. in tunnel;
- (5) 530 M. ft. B.M. furnish and place permanent timber in tunnel;
- (6) 265 tons erect steel support in tunnel;
- (7) 110 cu. yds. Gunite coating of rock in tunnel;
- (8) 70 connections for grouting;
- (9) 180 cu. yds. mix and place grout;
- (10) 75,000 lbs. place reinf. steel;
- (11) 370 ton miles hauling steel;
- (12) 15,000 ton miles hauling cement;
- (13) 175,000 million foot gallons pumping water (at 12½¢ per million foot gallons, \$21,875).

SCHEDULE NO. 4

Construction of the east portion of Valverde Tunnel, Station 11,695 plus 00 to Station 11,870 plus 00, with a diameter of 11 ft. 19 in., together with appurtenant works.

(Schedules 3 and 4 are alternative and both will not be awarded. A proposal under Schedule 4 will not be considered unless the bidder submits a proposal under Schedule 3 also.)

- (1) tunnel access, lump sum;
- (2) 117,000 cu. yds. excav. in tunnel;
- (3) 75 cu. yds. excav. for tunnel enlargement;
- (4) 37,400 cu. yds. concrete in tunnel;
- (5) 330 M. ft. B.M. furnish and place permanent timber in tunnel;
- (6) 210 tons erect steel support in tunnel;
- (7) 75 cu. yds. Gunite coating of rock in tunnel;
- (8) 50 connections for grouting;
- (9) 110 cu. yds. mix and place grout;
- (10) 60,000 lbs. place reinf. steel;
- (11) 295 ton miles hauling steel;
- (12) 12,000 ton miles hauling cement;
- (13) 175,000 million foot gallons pumping water (at 12½¢ per million foot gallons, \$21,875).

SCHEDULE NO. 5

Construction of the west portion of Valverde Tunnel, Station 11,870 plus 00 to Station 12,066 plus 50, with a diameter of 15 ft. 3 in. with appurtenant works.

(Schedules 5 and 6 are alternative and both will not be awarded. A proposal under Schedule 5 will not be considered unless the bidder submits a proposal under Schedule 6 also.)

- (1) tunnel access, lump sum;
- (2) 197,000 cu. yds. excav. in tunnel;
- (3) 100 cu. yds. excav. for tunnel enlargement;
- (4) 52,900 cu. yds. concrete in tunnel;
- (5) 170 M. ft. B.M. furnish and place permanent timber in tunnel;

- (6) 85 tons erect steel support in tunnel;
- (7) 40 cu. yds. Gunite coating of rock in tunnel;
- (8) 80 connections for grouting;
- (9) 220 cu. yds. mix and place grout;
- (10) 75,000 lbs. place reinf. steel;
- (11) 660 ton miles hauling steel;
- (12) 74,000 ton miles haul cement;
- (13) 175,000 million foot gallons pumping water (at 12½¢ per million foot gallons, \$21,875).

SCHEDULE NO. 6

Construction of the west portion of Valverde Tunnel, Station 11,870 plus 00 to Station 12,066 plus 50, with a diameter of 11 ft. 9 in. with appurtenant works.

(Schedules 5 and 6 are alternative and both will not be awarded. A proposal under Schedule 6 will not be considered unless the bidder submits a proposal under Schedule 5 also.)

- (1) tunnel access, lump sum;
- (2) 128,000 cu. yds. excav. in tunnel;
- (3) 75 cu. yds. excav. for tunnel enlargement;
- (4) 41,750 cu. yds. concrete in tunnel;
- (5) 110 M. ft. B.M. furnish and place permanent timber in tunnel;
- (6) 70 tons erect steel support in tunnel;
- (7) 25 cu. yds. Gunite coating of rock in tunnel;
- (8) 60 connections for grouting;
- (9) 140 cu. yds. mix and place grout;
- (10) 60,000 lbs. place reinf. steel;
- (11) 540 ton miles hauling steel;
- (12) 59,000 ton miles haul cement;
- (13) 175,000 million foot gallons pumping water (at 12½¢ per million foot gallons, \$21,875).

Specifications and drawings obtainable from office of Chief Engineer, Rm. 1004, 306 W 3rd St. Copies may be seen at the above office and at the district's office at Beaumont, and may be purchased at the Los Angeles office upon payment of \$5 per set. The payment will not be returned.

Each proposal must be accompanied by a certified or cashier's check as a guaranty that the bidder will, if awarded any schedule or schedules, promptly secure workmen's compensation, execute a contract in the required form, and furnish satisfactory bonds for the faithful performance of the contract and for the payment of claims of materialmen and laborers thereunder. Said check shall be in the sum of \$50,000 for a bid on Schedules 1 and 2, and \$100,000 for each of the other parts of schedules bid upon up to the maximum number under which award is possible. The faithful performance bond shall be as shown below for each schedule included in the contract: Schedule 1 or 2, \$200,000; Schedule 3 or 4, \$500,000; Schedule 5 or 6, \$500,000. The bond for materialmen and laborers shall be in the sum required by statute.

BURLINGAME, San Mateo Co., Cal.—City council considers municipal power plant, estimated cost, \$863,610, including \$480,000 for engine and generators. Plans presented by Schoemaker, Hackett and McIntyre, San Francisco engineers.

LOS ANGELES, Cal.—F. E. Weymouth, general manager and chief engineer of the Metropolitan Water District, was authorized by the board of directors Feb. 24 to execute a contract with the Southern California Telephone Co. for the extension of the aqueduct communication system. The contract involves \$92,000.

LOS ANGELES, Calif.—Until 10 A. M., March 18, bids will be received by the Metropolitan Water District, 306 W 3rd St., Los Angeles, for the construction of transmission lines in the Mecca Pass to Colorado River Section of the Construction Power Transmission Line. The work to be contracted for consists of approximately 38 miles of 66,000-volt transmission line, and 147 miles of 33,000-volt transmission line. The lines are located between Mecca Pass and Parker dam site on the Colorado River. Butt-treated cedar poles and suspension insulators to be used on the lines specified will also be purchased under these specifications. Specifications may be obtained from the office of the Chief Engineer and General Manager, F. E. Weymouth, room 1004, 306 W 3rd St., Los Angeles, upon payment of \$3.00 per set. Certified check or cashier's check for 10% must accompany each bid. A list of the items to be bid on follows:

(1) Construction of transmission lines from Mecca Pass to Parker Substation. Bidder to state time in days for completion of 66-kv. line complete and four miles of 33-kv. line from Granite Substation east; also for completion of 33-kv. line from Mecca Pass to Granite Substation; and also balance of 33-kv. line;

(2) suspension insulator units:

- (a) 5000 insulator units;
- (b) 3000 insulator units;
- (c) 2000 insulator units;

(3) Suspension insulators, alloy type:

- (a) 3000 insulator units;
- (b) 2000 insulator units.

F.o.b. cars, Colton.

(4) Cedar poles, butt-treated:

- (a) 50 35-ft. Class 3 poles;
- (b) 100 35-ft. Class 4 poles;
- (c) 30 40-ft. Class 3 poles;
- (d) 120 45-ft. Class 3 poles;
- (e) 1050 45-ft. Class 4 poles;
- (f) 50 50-ft. Class 3 poles;
- (g) 1150 50-ft. Class 4 poles;
- (h) 90 55-ft. Class 3 poles;
- (i) 800 55-ft. Class 4 poles;
- (j) 10 60-ft. Class 3 poles;
- (k) 220 60-ft. Class 4 poles;
- (l) 20 70-ft. Class 3 poles.

F.o.b. cars, Colton.

Bidders to state number of days after notice to proceed within which delivery of poles will be made: First 500 poles, second 500 poles, third, fourth, fifth, sixth, and seventh 500 poles, and balance of poles.

PUBLIC BUILDINGS, FIRE HOUSES AND JAILS

SAN DIEGO, Cal.—San Diego county supervisors have adopted a resolution favoring the construction of a combined city-county building to house all city and county departments. A similar resolution will be submitted to the city council next week pledging the city to carry out its share of the project. Application will be made to the Reconstruction Finance Corporation for a loan of not to exceed \$1,000,000 with which to finance the building.

To Ask Bids. Cost, \$800,000
JAIL
SNEATH RANCH, San Mateo Co.
 Seven-story men's jail building and two-story women's jail building (Class B reinforced concrete construction, tar and gravel roof, concrete floors, mastic finish in cell block, steel cells, steel sash, steam heat, ventilating system, laundry, kitchen, sewage disposal plant farm group).
 Owner—City and County of San Francisco.
 Architect—Albert F. Roller, Crocker First National Bank Bldg., San Francisco.
 Associate Architect—Dodge A. Riedy, Pacific Bldg., San Francisco.
 Structural Engineer—H. J. Brunner, Sharon Bldg., San Francisco.
 Bids will be asked within a few

days, to be opened probably on March 29.

MARTINEZ, Contra Costa Co., Cal.—Pittsburg Redwood Mfg. Association, Industrial Road, Pittsburg, at \$925 awarded contract by County Supervisors to furnish and install shelving in the library and school departments of the new Hall of Records in Martinez.

Preliminary Plans Approved.
CITY HALL Cost, \$25,000
SIGNAL HILL, Los Angeles Co., Cal.
S. W. Hill St. and Cherry Ave.
Reinforced concrete city hall (tile roof, plaster exterior, stone trim, etc.)
Owner—City of Signal Hill.
Architect—Clarence N. Aldrich, 1834 Dawson Ave., Long Beach.

LOS ANGELES, Calif.—Bennett & Taylor, 1973 S. Los Angeles Street, Los Angeles, at \$23400 submitted low bid to State Department of Public Works Sacramento, for furnishing and installing one gearless variable voltage, automatic stopping, passenger elevator in the State Office Building, Los Angeles. Only other bid was submitted by Consolidated Steel Corporation, Los Angeles, at \$23,000. Bids held under advisement.

RESIDENCES

Contract Awarded.
RESIDENCE Cost, \$15,000
LAS VEGAS, Nevada.
Two-story brick and stucco residence (flagstone terrace, heating and ventilating system, recreation room, etc.)
Owner—A. W. Ham, Las Vegas.
Architect—H. C. Nordstrom, 315A So. Third St., Las Vegas.
Contractor—Harrison Stocks, Las Vegas.

Contract Awarded.
RESIDENCE Cost, \$4000
ALAMEDA, Alameda Co., Calif. 2625 Otis Drive.
One-story and basement frame and stucco residence (6 rooms).
Owner—C. G. Mehrtens, 1536 Webster St., Alameda.
Plans by Owner.
Contractor—P. Royal Haulman, 1243 Broadway, Alameda.

Contract Awarded.
RESIDENCE Cost, \$5000
SAN FRANCISCO, W Mission St. S Admiral St.
Two-story frame and stucco residence.
Owner—M. T. Struthers.
Architect—Not Given.
Contractor—A. C. Lindgren, 346 Lowell St., San Francisco.

Sub-Contracts Awarded.
RESIDENCE Cost, \$—
OAKLAND, Alameda Co., Cal. 1332 Glenfield Avenue.
One-story frame and stucco residence (5 rooms).
Owner—Theodore Dufau.
Architect—Not Given.
Contractor—L. E. Van Ness, 4920 Park Blvd., Oakland.
Foundation—M. Medis, 2427 Scenic Ave., Oakland.
Plumbing—K. C. Nelson, 1842 13th Ave., Oakland.
Lumber—E. K. Wood Lumber Co., Frederick and Klings Sts., Oakland
Sash & Doors—Western Sash & Door Co., 5th and Cypress, Oakland.
Electric—Limond Elec. Co., 2100 Hopkins St., Oakland.
Painting—Adamson and Crowell, 1328 Stannage Ave., Berkeley.

To Be Done By Day's Work.
RESIDENCE Cost, \$4,000
SAN FRANCISCO, Calif. N.W. Wanda and Onondago St.
One-story and basement frame and stucco residence.
Owner and Builder—A. R. Peterson, 60 Cotter Street.
Architect—Not given.

Sub Bids Wanted.
RESIDENCE Cost, \$4,000
SAN FRANCISCO, Calif. E. 21st Ave. S. Ocean.
Three one-story and basement frame and stucco residences.
Owner & Builder—A. J. Herzig, 2300 Ocean Avenue.
Architect—Not given.

RESIDENCE Cost, \$—
REDWOOD CITY, San Mateo Co., Cal.
Two-story brick and steel residence (6 rooms and 2 baths, steel sash, electric refrigeration, tiled baths.)
Owner—A. B. Cheatham.
Architect—J. K. Ballintine, 137 Harlan Place, San Francisco.
Low Bidder—D. B. Gladstone, 557 Market St., San Francisco.

Sub-Contracts Awarded.
ADDITION Cost, \$—
PIEDMONT, Alameda Co., Calif. 19 Craig Avenue.
Addition to residence (add library.)
Owner—Juliet Alexander, premises.
Architect—Not Given.
Contractor—H. C. Andresen, 690 Montclair Ave., Oakland.
Millwork—Pacific Mfg. Co., 1315 7th St., Oakland.
Plastering—Joe McGowan, 1513 Linden St., Oakland.
Plumbing and Heating—Carl T. Doell Co., 467 21st St., Oakland.

Plans Being Figured.
RESIDENCE Cost, \$—
HILLSBOROUGH, San Mateo Co., Cal. Liebmann Estate.
Two-story frame residence (10 rooms) flat tiled promenades over composition roof, steel sash, part brick veneered walls and brick garden walls, linoleum and pine carpet covered floors, vitrolite bath and shower, shower doors, marble mantel, stained cement floors and hardwood trim. (Modern Style.)
Owner—Liebmann Estate.
Architect—Not given.

Additional Sub Contracts Awarded.
RESIDENCE Cont. Price, \$23,749
SAN MATEO, San Mateo Co., Calif. Caralands Tract.
Two-story frame and stucco or brick residence (15 rooms 5 baths; English type).
Owner—C. C. Young, 2223 Easton Dr., Burlingame.
Architect—Willis Polk Co., 277 Pine St., San Francisco.
Contractor—G. W. Williams Co., 315 Primrose Road, Burlingame.
Rein. Steel—W. S. Wetenhall, 17th & Wisconsin Sts., San Francisco.
Plastering—Ed Severinsen, 939 Darien Way, San Francisco.

As previously reported, plumbing and heating to James H. Pinkerton, 927 Howard St., San Francisco; sheet metal to Garvey Sheet Metal Works, 1206 Donnelly Ave., Burlingame; lumber to Winsom Lumber Co., 1000 Broadway, Burlingame; brick work to Chas. Ohran, 1038 Chula Vista Ave., Burlingame; mill work to Pacific Mfg. Co., Santa Clara; grading to H. E. Casey Co., San Mateo.

Bids In, Held Under Advisement.
RESIDENCE Cost, \$9,500
SAN JOSE, Santa Clara Co., Calif. Hillcrest Avenue.
One and one-half-story and basement frame and brick veneer residence (7 rooms and 2 baths); shingle

roof gas heating system, hardwood floors, tiled baths, etc.
Owner—Alvin Long.
Architect—William Higgins, 19 N. 2nd St., San Jose.

To Be Done By Day's Work.
RESIDENCE Cost, \$6,000
SAN FRANCISCO, Calif. S. Los Palamos E. Rockdale.
Two-story and basement frame and stucco residence.
Owner—A. J. Wilbe, 950 Monterey Blvd.
Architect—H. B. Stoner, 200 Casitas Ave., San Francisco.

Sub-Contracts Awarded.
RESIDENCE Cost, \$—
OAKLAND, Alameda Co., Calif. 2915 75th Avenue.
1½-story frame and stucco residence (6 rooms) English type.
Owner and Builder—F. Wallin, 2150 50th Ave., Oakland.
Architect—Not Given.
Plumbing—L. J. Davis, 4118 Fullington St., Oakland.
Lumber—Hogan Lumber Co., Second and Alice Sts., Oakland.
Concrete Materials—Transit Concrete Co., Ltd., foot of Broadway, Oakland.
Heating—Atlas Heating & Ventilating Co., 1451 32nd St., Oakland.
Brick—Hans Johnson, 5012 Congress Ave., Oakland.

Sub-Bids Being Taken.
RESIDENCE Cost, \$5000
BERKELEY, Alameda Co., Cal. No. 484 Cragmont Avenue.
Two-story frame and stucco residence (6 rooms) tile and composition roof, gas heat, hardwood floors, colored tile baths etc.
Owner and Builder—Confer & Walker 5130 Keith Ave., Oakland.
Architect—E. L. Snyder, 2102 Addison St., Berkeley.

Sub-Contracts Awarded.
RESIDENCE Cost, \$—
OAKLAND, Alameda Co., Cal. Morcom Ave. and Simmons St.
One-story and basement frame and stucco residence (6 rooms) Spanish type, tile roof, gas furnace hot air heating system, brick chimneys, etc.
Owner and Builder—Ernest W. Urch, 1924 50th Ave., Oakland.
Plans by W. W. Dixon, 1844 5th Ave., Oakland.
Lumber—Sunset Lumber Co., 400 High St., Oakland.
Brick—Gardner E. Marshall, 5935 Virginia Ave., Oakland.
Plumbing—Ambrose Bros., 206 Chumalia Ave., San Leandro.
Heating—M. C. Henry, 1183 53rd St., Oakland.
Electric—G. O. Electric Service, 836 10th St., Oakland.
Sub-bids are being taken on tile roofing, mill work and decorating.

Sub-Contracts Awarded.
RESIDENCE Cost, \$—
OAKLAND, Alameda Co., Cal. 2 Encina Place.
One-story and basement frame and stucco residence (English type).
Owner and Builder—Marcus A. Peel, 10 Oakvale Ave., Oakland.
Architect—Not Given.
Plumbing—J. A. Fazio, 402 Castro St., Oakland.
Concrete—East Bay Const. Co., 3817 San Pablo Ave., Oakland.
Wiring—John Newman.
Roofing—Marshall Shingle Co., 3729 Telegraph Ave., Oakland.
Millwork—Sunset Lbr. Co., 400 High St., Oakland.
Brick—O. P. Reistrup, 3104 Ellis St., Berkeley.

To Be Done By Day's Work.
RESIDENCE Cost, \$6000
BERKELEY, Alameda Co., Calif.
 Shasta & Keller Avenue.
 One-story and basement frame and
 stucco residence (6 rooms); air
 conditioning with gas, oil or elec-
 tric fuel, insulation, etc.
 Owner—R. D. Taylor, 415 Bellevue
 Ave., Oakland.
 Architect—Not Given.

To Be Done By Day's Work.
RESIDENCE Cost, \$—
PIEDMONT, Alameda Co., Cal. No.
 502 Boulevard Way.
 One-story and basement frame and
 stucco residence (7 rooms).
 Owner and Builder—A. C. Christensen,
 3917 Park Blvd., Oakland.
 Architect—Not Given.

Contract Awarded.
ALTERATIONS Cost, \$3900
PIEDMONT, Alameda Co., Cal. No.
 19 Craig Avenue.
 Alterations to frame residence.
 Owner—Miss Juliette Alexander, 19
 Craig Ave., Piedmont.
 Architect—Not Given.
 Contractor—H. C. Anderson & Son, 690
 Montclair Ave., Oakland.

To Be Done By Day's Work.
RESIDENCE Cost, \$4000
SAN FRANCISCO. NW Moscow and
 France Sts.
 Two-story and basement frame and
 stucco residence.
 Owner and Builder—E. Bottarini, 710
 Naples St., San Francisco.
 Architect—Not Given.

To Be Done By Day's Work.
RESIDENCES Cost, \$5000 each
SAN FRANCISCO. W 29th Avenue S
 Irving Street.
 Five one-story and basement frame
 and stucco residences.
 Owner and Builder—H. Doelger, 320
 Judah Street.
 Architect—A. A. Amandes, 742 46th
 Avenue.

Preparing Plans.
RESIDENCE Cost, \$6000
SAN FRANCISCO.
 One-story and basement frame and
 stucco residence (6 rooms); tile
 and composition roof, gas heating
 system, hardwood floors, etc.
 Owner—Withheld.
 Architect—Chas. Strothoff, 2271 15th
 St., San Francisco.

Sub-Bids Being Taken.
RESIDENCE Cost, \$—
SAN FRANCISCO. Merced Manor.
 One-story and basement frame and
 stucco residence (6 rooms and
 social hall); stucco exterior, tile
 and composition roof, tiled patio,
 canvas walls and ceilings, gas
 heating system, oak plank floors,
 Spanish architecture (detached).
 Owner and Builder—G. J. Elkington
 & Son, 330 Vicente St., San Fran-
 cisco.
 Architect—S. A. Colton, 544 Market
 St., San Francisco.

Contract Awarded.
RESIDENCE Cost, \$9350
PIEDMONT, Alameda Co., Calif. St.
 James Wood.
 Two-story and basement frame and
 stucco residence.
 Owner—George F. Ames, 39 York Dr.,
 Piedmont.
 Architect—Miller & Warnecke, Finan-
 cial Center Bldg., Oakland.
 Contractor—Albert Hammarberg, 2340
 LeConte St., Berkeley.

To Ask Bids In About One Week.
ALTERATIONS Cost, \$3000
HILLSBOROUGH, San Mateo Co. Cal.
 Easton Drive.
 Minor alterations to 2-story and base-
 ment frame residence.

Owner—Paul I. Fagan, Hillsborough.
 Architect—Arthur Brown, Jr., 251
 Kearny St., San Francisco.

Plans Being Figured.
RESIDENCE Cost, \$3,500
PALO ALTO, Santa Clara Co., Calif.
 One-story frame and stucco residence
 (6 rooms) tile roof, steel sash,
 hardwood trim, tile bath, patio
 (Spanish type.)
 Owner—D. Carey.
 Architect—Not given.
 Vance M. Brown, 532 Emerson St.,
 Palo Alto, is figuring the plans and
 desires sub bids on all portions of the
 work.

Preliminary Plans Approved.
RESIDENCE Cost, \$8,000
OAKLAND, Alameda Co., Cal. Broad-
 moor Park.
 Two-story and basement frame and
 stucco residence (8 rooms and 3
 baths); Mexican style, tile roof,
 etc.
 Owner—Withheld.
 Architect—Chas. McCall, 1404 Frank-
 lin St., Oakland.

SCHOOLS

Plans Completed.
ADDITION Cost, \$100,000
LOS ANGELES, Los Angeles Co., Cal.
 No. 4600 Olympic Blvd.
 Three-story Class B brick school addi-
 tion (67x127 ft.); brick exterior,
 concrete corridor floors, hardwood
 floors, composition roof, structural
 steel, steel sash, obscure glass,
 slate blackboards concrete vault,
 lockers, heating and ventilating
 system, metal fire doors, etc.
 Owner—Los Angeles City School Dis-
 trict.

Architect—John C. Austin and F. M.
 Ashley, Chamber of Commerce
 Bldg., Los Angeles.

Plans Being Figured.
ADDITION Cost, \$50,000
DALY CITY, San Mateo Co., Cal.
 Class C concrete addition to high
 school (add 6 classrooms); wood
 joists, tile roof, wood and con-
 crete floors, steam heating sys-
 tem, etc.
 Owner—Jefferson Union High School
 District.
 Architect—Resing & McGuinness, 488
 Pine St., San Francisco.
 Date of opening bids not yet set.

Plans Being Figured.
BLEACHERS, ETC. Cost, \$—
OAKLAND, Alameda Co., Cal. Mills
 College.
 Wood frame bleachers (to seat 1500)
 general lighting system.
 Owner—Mills College, Seminary and
 Camden Sts., Oakland.
 Architect—W. H. Ratcliff Jr., Cham-
 ber of Commerce Bldg., Berkeley.
 Bids are being received by C. Cress,
 5909 Mountain Blvd., Oakland, (Mills
 College Riding Academy).

SAN FRANCISCO, Calif. — Until
 March 29, 2:30 P. M., bids will be re-
 ceived by S. J. Hester, Secretary, De-
 partment of Public Works, City Hall,
 for blackboards at the Franklin,
 Cleveland, John Sweet, Washington
 Irving, Glen Park and Garfield Schools.
 Estimated cost \$15,000.

SAN FRANCISCO, Calif.—Michel &
 Pfeffer Iron Works, Harrison and 10th
 Streets, a \$72.75 submitted low bid to
 Department of Public Works, for
 fencing at the Girls' High School.
 Following bids received:
 Michel & Pfeffer Iron Works\$72.75
 Crown Fence Company 75.00
 Anchor Post Fence Company..... 79.00
 Standard Fence Company 81.25
 Kamlan Fence Company 84.50
 Bids held under advisement.

BANKS, STORES & OFFICES

Contract Awarded.
STORES Cost, \$—
NAPA, Napa Co., Cal. Second and
 Main Streets.
 One-story brick stores (4 stores; 60x
 75 feet); tar and gravel roof, wood
 floors, etc.
 Owner—E. H. Manchester, 1318 Clay
 St., Napa.
 Plans by C. Leroy Hunt, Second and
 Main Sts., Napa.
 Contractor—Coffield & Arnitz, 430
 Evans St., Napa.

Contract Awarded.
STORE Cost, \$15,000
MARYSVILLE, Yuba Co., Cal. Fifth
 St., bet. E and F Sts.
 One-story steel, concrete and brick
 store (50x80 ft.); cement floors,
 plate glass front, etc.
 Owner—J. C. Wood and E. A. Hunn,
 Marysville.
 Architect—Not Given.
 Contractor—W. R. Burroughs, 911 5th
 St., Marysville.

Contract Awarded.
ALTERATIONS Cost, \$—
SACRAMENTO, Sacramento Co., Cal.
 811 K Street.
 Alterations to store (new front, in-
 terior work, etc.)
 Owner—Hal Ash, Ltd., 523 S Broad-
 way, Los Angeles.
 Architect—Not Given.
 Leasing Agent—Hickman - Coleman
 Co., 812 J St., Sacramento.
 Contractor—Chas. Vanina & Sons, 2022
 M St., Sacramento.

Planned.
OFFICES Cost, \$—
WILLITTS, Mendocino Co., Cal. Wood
 Street.
 New Office building.
 Owner—H. B. Muir, Willitts.
 Architect—Not Given.

Sub-Contracts Awarded.
STORE Cont. Price, \$3222
SAN MATEO, San Mateo Co., Calif.
 Third Avenue.
 One-story reinforced concrete store
 (50x80-ft.)
 Owner—Judge John J. McGrath.
 Architect—Bertz, Winter & Maury, 210
 Post St., San Francisco.
 Lessee—Public Food Stores.
 Contractor—Clinton Stephenson Con-
 struction Co., 550 Montgomery St.,
 San Francisco.

Sheet Metal—Garvey Sheet Metal
 Works, 1206 Donnelly, Burlingame.
Electric—Scott-Buttner Co., 19 Grand
 Ave., Oakland.
Lumber—Wisnom Lumber Co., 1000
 Broadway, Burlingame.
Plumbing—Herbert Lauder, 218 Lor-
 ton Ave., Burlingame.
Trusses—Summerbell Truss Co., 354
 Hobart St., Oakland.
Structural Steel—Western Iron Works,
 141 Beale St., San Francisco.

As previously reported, reinforcing
 steel awarded to Gunn, Carle & Co., 20
 Potrero Ave., San Francisco; excava-
 tion and concrete materials to H. E.
 Casey Co., San Mateo.

To Be Done By Day's Work By Owner
ALTERATIONS Cost, \$—
SAN FRANCISCO. Eighteenth St.
 near Guerrero St.
 Remodel flats for store (tailor shop).
 Owner—Isabella McLean.
 Architect—G. A. Berger, 309 Valencia
 St., San Francisco.

Contract Awarded.
REPAIRS, ETC. Cost, \$2128
SAN FRANCISCO. NW Embarcadero
 and Jackson Streets.
 Painting, plastering and repairing ex-
 terior surfaces of 5-story bldg.

Owner—Wellman Peck & Co., 301 Embarcadero St.
Architect—J. E. Krafft & Son, Phelan Building.
Contractor—J. A. Mohr & Son, 433 11th Street.

Contract Awarded.
STORE AND FLATS Cost, \$4000
SAN FRANCISCO. E San Bruno Ave. N Felton St.

Two-story frame store and flats.
Owner—A. Emilio, 2477 San Bruno Ave., San Francisco.

Plans by Owner.
Contractor—Schmidt Brothers, 1395 Hampshire St., San Francisco.

Plans Completed.
STORE Cost, \$20,000
SANTA BARBARA, Santa Barbara Co., Cal. Chapala and Victoria Streets.

One-story masonry store (65x177 ft.); stucco exterior, tile and composition roof, structural steel, cement floors, interior tile work, ventilating fans, etc.

Owner—Banks-Huntley Co.
Architects and Engineers—Edwards & Plunkett 20 E. Gigu St., Santa Barbara.

Glass Contract Awarded.
REPAIRS Cost, \$5000
SAN FRANCISCO. 915 Columbus Ave. Repair fire damage to cafe.
Owner—Edward Cerruti, 775 Lombard Street.

Lessee—Louis Maggiora, 1041 Filbert Street.
Glass—Figoni Hardware Co., 1351 Grant Avenue.

As previously reported, sheet metal awarded to John J. Delucchi, 1526 Powell Street.

Contract Awarded.
REPAIRS Cost, \$1500
SACRAMENTO, Sacramento Co., Cal. 1210 F Street.

Repairs to building.
Owner—George Toland, 2218 11th St., Sacramento.

Architect—Not Given.
Contractor—C. J. Hopkinson, 1810 28th St., Sacramento.

To Be Done By Day's Work.
STORE & RESIDENCE \$5600
OAKLAND, Alameda Co., Cal. No. 7700-04 E-14th Street.

Two-story frame and stucco residence and store.

Owner—M. R. Perry, 7123 E-14th St., Oakland.
Architect—Not Given.

Plans Being Figured.
STORE Cst \$40,000
OAKLAND, Alameda Co., Cal. Broadway N Nineteenth Street.

One-story and basement and mezzanine reinforced concrete store (30 by 100 feet).

Owner—Twentieth & Broadway Real-estate Co., 1175 Market St., San Francisco.

Architect—Albert Evers, 525 Market St., San Francisco.
Lessee—Kushins Shoe Co.

Contract Awarded.
ADDITION Cost, \$6000
EMERYVILLE, Alameda Co., Cal. No. 1311 Sixty-third Street.

One-story Class C wood frame top addition to office building.

Owner—Western Waxed Paper Co., 1311 63rd St., Emeryville.

Architect—Alben J. Froberg, Ray Bldg., Oakland.
Contractor—H. J. Christensen, Ray Bldg., Oakland.

Plans Being Figured.
POST OFFICE Cost, \$—
CARPINTERIA, Santa Barbara Co., Calif.

One-story frame and stucco post office (25x55 ft.) tile roof.

Owner—Thomas Fish.
Architect—Keith Lockard, 117 E. De la Guerra, Santa Barbara.
Lessee—United States Government.

Additional Sub-Contracts Awarded.
MARKET Cost, \$10,000
RICHMOND, Contra Costa Co., Cal. SE 23rd St. and Macdonald Ave.

One-story Class C reinforced concrete market (lar and gravel roof, steel sash, etc.)

Owner—Henslee Corp., (% Bells-Gilberg, Ltd.), 366 17th St., Oakland.
Architect—H. A. Minton, 525 Market St., San Francisco.

Contractor—David Paganini 519 California St., San Francisco.

Plumbing—R. W. Timmons, 703 Nevin Ave., Richmond.

Electric—V. G. Electric Co., 1314 Macdonald Ave., Richmond.

Glass—East Bay Glass Co., 621 Sixth St., Oakland.

Other awards reported Feb. 20.

Contract Awarded.
STORES AND OFFICES. Cost, \$—
OAKLAND, Alameda Co., Calif. S.W. 22nd and Broadway.

Two story steel frame and concrete offices and stores (46x100) seven stores.

Owner—J. A. Clark.
Architect—Reed & Corlett, Bank of America Bldg., Oakland.
Contractor—Fred. A. Muller, Syndicate Building, Oakland.

THEATRES

Plans Complete.
ALTERATIONS Cost, \$15,000
PHOENIX, Ariz. 212 E Washington.

Alterations to motion picture theatre (installation of new front, cooling and ventilating system, new seats and decorations).

Owner—Robert Killeen.
Architect—Fitzhugh and Byron, Ellis Bldg., Phoenix.

Preparing Plans.
THEATRE Cost, \$50,000
FRESNO, Fresno Co., Cal. Fresno St., bet. D and E Sts.

Two-story brick theatre (stucco front ornamental marquee) to seat 750; ventilation and cooling system, indirect lighting, etc.

Owner—Vito Brugetti, West Fresno.
Architect—W. D. Coates, Rowell Bldg. Fresno.

Sub Contracts Awarded.
THEATRE Cost, \$20,000
REDWOOD CITY, San Mateo Co., Cal. California and Montgomery Sts.

One-story steel frame and reinforced concrete theatre, to seat 500; heating and ventilating appliances, latest sound equipment, modern lighting effects, decorating, etc.

Owner—Philip A. Frease.
Architect—William I. Garren, 233 Post St., San Francisco, and S. Charles Lee, 2404 W. 7th St., Los Angeles, Associated.

Contractor—G. W. Williams Co., 315 Hot Coating — Izmirian Roofing & Hot Coating — Izmirian Roofing & Sheet Metal Works, 416 2d St., San Mateo.

Mis. Iron—Schrader Iron Works, 1247 Harrison St., San Francisco.

Brick Work—Chas. Ohran, 1038 Chula Vista Ave., Burlingame.

Steel Sash—Soule Steel Co., 1750 Army St., San Francisco.

Lumber—Sudden Lumber Co., Evans and Quint sts., San Francisco.

Hardware—H. & H. Hardware Co., 1405 Broadway, Burlingame.

As previously reported—Structural steel to Schrader Iron Works, 1247 Harrison St., San Francisco; concrete

materials to Redwood Materials Co., Redwood City; excavation awarded to Chas. E. Archibald, 919 Arguella St., Redwood City; mill work to Pacific Mfg. Co., Santa Clara; reinforcing steel to W. S. Wetenhall, 17th and Wisconsin Sts.

WHARVES AND DOCKS

STOCKTON, San Joaquin Co., Cal. —Barrett-Cravens Co., 669 Howard St. San Francisco, at \$300 awarded contract by Stockton City Port Commission for two hand lift trucks for the transit sheds and wharves.

LOS ANGELES, Cal. — Harbor department's engineering division will prepare layout plans and cost estimates for a navy shore base at Los Angeles Outer Harbor. Improvements would include the construction of bulkheads and fill, a graving dock for warcraft repairs, warehouses and other buildings. A bill will be submitted at the next session of congress, requesting an appropriation for the base.

MISCELLANEOUS CONSTRUCTION

Contract Awarded.
BRIDGE Cost, \$4000
SAN FRANCISCO. Fifth St. to Red Cross Building.

Two-story steel and concrete bridge. Owner—The Emporium, 835 Market St., San Francisco.

Plans by Engineering Dept. of Owner. Contractor—Barrett & Hilp, 518 Harrison St., San Francisco.

Sub-bids are in and will be awarded shortly.

SANTA BARBARA, Calif.—Until 1 P. M., March 9, bids will be received by the Santa Barbara city clerk for the construction of shower and locker rooms at the Cabrillo soccer field, Santa Barbara. Plans and specifications may be obtained from the Santa Barbara park department, city hall. Certified check for 10% must accompany each bid.

SEATTLE, Wash.—Jos. A. Vance, Seattle, is planning the construction of a race track south of the Meadows to cost approximately \$200,000 if the State racing bill becomes a law. The track, if constructed, will be a mile in circumference, enclosing 80 acres with a grandstand to seat 100,000. Parking space for 35,000 automobiles. Fred C. Brown, attorney, has been retained to file articles of incorporation.

SEATTLE, Wash.—Radio Station KOMO has leased station KJR from the National Broadcasting Company and will make extensive expansions. A new transmitter station will be constructed and new joint studios will be established in the Skinner Building with new broadcasting equipment, etc. Plans prepared by Architect R. C. Reamer, 1201 4th St., Seattle.

SAN FRANCISCO.—Until March 8, 3 P. M., bids will be received by Felton Taylor, secretary, Public Utilities Commission, Room 225, City Hall, for changing heating system in the San Francisco Water Department Building from district steam supply to a steam generating plant using gas as fuel. Specification W. D. No. 31. Specifications may be procured at Room 605, San Francisco Water Department Bldg., 425 Mason St., upon deposit of \$5.00.

ENGINEERING NEWS

BRIDGES

LOS ANGELES, Cal.—E. E. McKittick Co., Inc., and J. E. Burrell, 5905 Pacific Blvd., Huntington Park, awarded contract by county supervisors on Feb. 24 at \$26702 to construct concrete bridge across the San Gabriel river at Second St., in Long Beach.

The proposed bridge will be 390 ft. long with a 50 ft. roadway and two 6-ft. walks. The superstructure will rest upon 14 pile lents. E. C. Eaton, County Flood Control Engineer. The bids were opened Dec. 19.

SIGNAL HILL, Los Angeles Co., Cal.—A. A. Taylor, City Engineer, has been authorized by city council to prepare plans for a bridge to be built across the railway tracks at Spring St. and California Ave. One end of the bridge will be in Long Beach. The decision to construct a bridge in preference to a grade separation was reached by the city councils of the two cities last Friday, February 17. Long Beach will probably pay a small share of the cost. Excavating and grading will be done by unemployed forces.

LOS ANGELES, Calif.—W. O. Armstrong, County Bridge Engineer, 12th floor Hall of Records, has completed plans for an A-frame truss bridge to be built on Garibaldi Ave. over Eaton Wash. The bridge will be of timber and steel construction, 36 ft. 8 in. long with a roadway 25 ft. 8 in. in width. The paving is not included in this contract.

The approximate quantities are:
 13,796 ft. B. M. creosoted timber (not sized or detailed);
 8,973 ft. B. M. creosoted timber (sized and detailed);
 1,988 ft. B. M. timber, sized but not creosoted;
 590 ft. B. M. timber not sized or creosoted;
 546 lin. ft. piling;
 6,195 lbs. structural steel;
 1,251 lbs. castings;
 258 lbs. drifts;
 1,162 lbs. bolts, deadman and lateral rods;
 700 lbs. upset rods;
 1 lb. cut washers;
 42 lbs. malleable washers;
 3 lbs. lock washers;
 120 sq. ft. burlap (10 oz.);
 65 lin. ft. No. 12 wire;
 135 cu. yds. excavation.

The county will furnish 26 truss beams and 4 clevises.

LOS ANGELES, Cal.—Until 2 P. M., March 6, bids will be received by county supervisors to construct a reinforced concrete culvert on Citrus Ave. over Little Dalton Wash, in the County of Los Angeles. The culvert will have an inside width of 13 ft., a height of 11 ft. 6 in. with 20-in. foundations, and 27.15 ft. in length. Geo. W. Jones, County Road Commissioner. Mame B. Beatty, 501 Hall of Records, Clerk of the Board.

LOS ANGELES COUNTY, Calif.—Clinton Construction Co., Spring Arcade Bldg., Los Angeles, at \$109,101.10 awarded contract by State Highway Commission to construct a reinforced concrete girder bridge across San Gabriel River about 2-mi. east of El Monte, consisting of fourteen 65-ft. spans and two 27-ft. cantilevers on concrete piers.

MODESTO, Stanislaus Counties, Cal.—County supervisors approve plans for 19th St. bridge over Dry Creek;

bids will be asked within the next few days. George D. Macomber, county surveyor. Estimated cost, \$2500.

MONTESANO, Grays Harbor Co., Wash.—Until March 6, 10 A. M., bids will be received by Grays Harbor County Commissioners to construct bridge approaches to the Lund span on lateral highway No. 20, about .13-mi. Work will include preparing site, constructing trestle approaches, timber bridge pier comprising furnishing and driving 58 piling and 90 M ft. b.b. of timber construction, also grading and gravel surfacing road connections. Specifications obtainable from Harold B. Kirkwood, commissioner.

LOS ANGELES, Cal.—Until 2 P. M., March 20, bids will be received by county supervisors to construct A-frame truss bridge on Garibaldi Ave. over Eaton Wash. The bridge will be of timber and steel construction, 36 ft. 8 in. long with a roadway 25 ft. 8 in. in width. The paving is not included in this contract.

The approximate quantities are:
 13,796 ft. B. M. creosoted timber (not sized or detailed);
 8,973 ft. B. M. creosoted timber (sized and detailed);
 1,988 ft. B. M. timber, sized but not creosoted;
 590 ft. B. M. timber not sized or creosoted;
 546 lin. ft. piling;
 6,195 lbs. structural steel;
 1,251 lbs. castings;
 258 lbs. drifts;
 1,162 lbs. bolts, deadman and lateral rods;
 700 lbs. upset rods;
 One lb. cut washers;
 42 lbs. malleable washers;
 3 lbs. lock washers;
 120 sq. ft. burlap (10 oz.);
 65 lin. ft. No. 12 wire;
 135 cu. yds. excav.

County will furnish 26 truss beams and 4 clevises.

Plans prepared by Geo. W. Jones, County Road Commissioner. Copies obtainable from Bridge Engineer, W. D. Armstrong, 12 Floor, Hall of Records. Mame B. Beatty, 501 Hall of Records, Clerk of the Board.

LOS ANGELES, Cal.—Until 2 P. M., March 20, bids will be received by county supervisors to construct railroad grade separation structure in Arcadia. Est. cost, \$82,660. The project calls for a highway subway under the S. F. tracks, connecting Orange Avenue and Colorado St. The total length of the subway will be about 900 ft. with a steel superstructure 80 ft. in length. The width of the street

will be 40 ft. Two contracts will be let, viz., the steel superstructure by the Santa Fe Railway and the subway portion by the county. The county work is estimated at about \$26,169. The total cost will be paid as follows: \$4000 by the City of Arcadia, \$16,532 by the railroad and \$62,123 by the county. The approximate quantities are:

15,407 cu. yds. excavation;
 15,872 sq. ft. hand shaping slopes;
 1,907 ft. 6x9x15-in. curb;
 136 sq. ft. 8-in. concrete aprons;
 2 No. 6 catchbasins;
 42 ft. 18-in. heavy reinf. conc. pipe;
 138 ft. 2-in. std. pipe (weepers);
 5 concrete junction chambers;
 46 ft. 22-in. O. D. steel pipe;
 concrete headwall outlet, complete;
 250 lbs. reinf. steel;
 3,335 lbs. steel wire mesh paved slopes
 7,282 sq. ft. forms, for abutments;
 280 ft. 21-in. D-1800 const. spun conc. pipe;
 224 ft. 21-in. D-2200 do;
 352 ft. 21-in. D-2500 do;
 536 ft. 21-in. D-2700 do;
 483 cu. yds. Class A conc. in paved slopes for placing;
 15,872 sq. ft. paved slopes for finishing
 756 cu. yds. conc. in abut. for placing;
 4 flood lights, complete with conduits, meter and time clock;
 1,630 bbls. cement, delivered;
 664 tons sand;
 1,600 tons rock.

The pavement is a separate contract and is not included in the above list.

Plans prepared by Geo. W. Jones, County Road Commissioner. Copies obtainable from office of Bridge Engineer, W. D. Armstrong, 12th floor, Hall of Records. Mame B. Beatty, 501 Hall of Records, clerk of board.

DREDGING, HARBOR WORKS & EXCAVATIONS

LONG BEACH, Calif.—Application has been made by the Puget Sound Bridge & Dredging Co. for War Department permission to dredge about 5000 cu. yds. of material at Graham Brothers' dock in Channel No. 3, Long Beach Harbor, Long Beach. The dredged material to be deposited at sea. Map showing location of the proposed work will be on exhibition in the office of the U. S. Engineer, 751 S Figueroa St., Los Angeles, until 11 A. M., Friday, March 3, 1933. W. H. Lanagan, Major, Corps of Engineers, District Engineer.

COCO SOLO, C. Z.—Winston Bros. Co., 1470 Northwestern Bank Building, Minneapolis, Minn., and 418 Pecan St., Los Angeles, have been awarded the contract by the Bureau of Yards and Docks at about \$80,000 for constructing an earth filled steel sheet pile pier and service piping and the removal of existing timber pier at the naval submarine base, Fort Clayton, Coco Solo, Canal Zone. Spec. No. 7141. The bids were opened February 8.

UPLAND, San Bernardino Co., Cal.—Until 5 P. M., March 7, bids will be received by Elementary School District for supplying one school bus, fully equipped, with a capacity of 49 to 55 school children. Bids will be required separately for the chassis and for the body. The District will interview sales agents on Friday, March 3, between the hours of 2 and 5 p. m. Clyde D. DuVall, clerk.

CAPITAL CITY TITLE COMPANY

J. C. PALEN,
Manager

914 Seventh Street
Sacramento :: California

IRRIGATION PROJECTS

OMAK, Wash.—Until March 7, bids will be received by Okanogan Irrigation District, Dale Thorp, Secretary, for lining 2300 ft. main canal on Progressive flat about one mile below the Salmon creek diversion. Specifications obtainable from above.

RED BLUFF, Texas.—S. J. Groves & Co., Minneapolis, Minn., and Los Angeles, awarded contract by the Red Bluff Water Improvement District to construct Red Bluff Storage Dam and Siphonic Spillway.

MACHINERY AND EQUIPMENT

OAKLAND, Cal.—G. F. Bishop Co., 1950 San Bruno Ave., San Francisco, at \$725 less \$225 awarded contract by Board of Playground Directors, Oakland, to furnish one light golf course tractor, 4-cylinder.

PORTLAND, Ore.—Until March 13, 10:30 A. M., bids will be received by Multnomah County Commission to furnish 7 current model automobiles for Sheriff's department. Specifications obtainable from county clerk. Certified check 10% required with bid.

WASHINGTON, D. C.—Until March 8, 11 A. M., under No. 363-M, bids will be received by the Procurement Division, Veterans' Administration, Washington, D. C., to furnish: one wheel type tractor; one track type, crawler tractor.

Specifications obtainable from above and on file with domestic trade department, Oakland Chamber of Commerce.

SOUTH SAN FRANCISCO, San Mateo Co., Cal.—Until March 20, 7:30 P. M., bids will be received by Daniel McSweeney, city clerk, to furnish one Chevrolet automobile, 1933 Standard Coupe, 110-in. wheel base, equipped with bumpers tire lock and 5 5:25x18 balloon tires; 6 cylinder motor. State allowance for Ford Roadster.

FIRE ALARM SYSTEMS

ALAMEDA, Alameda Co., Cal.—City council will purchase new fire apparatus to replace present engine No. 4. New engine will have 10,000-gal. capacity. Ralph M. Bryant, city manager.

RESERVOIRS AND DAMS

SACRAMENTO, Cal.—Carter, Austin & Nicol, Oakland, plan to construct 170 ft. dam at Widow Creek, near Coloma; with the intention of selling water to City of Sacramento.

PIPE LINES, WELLS, ETC.

BURBANK, Los Angeles Co., Cal.—J. H. McCambridge, public service superintendent, is preparing plans for the laying of 8-in. water mains on Clark St. Labor will be paid from county stabilization funds.

SEWERS AND SEWAGE DISPOSAL PLANTS

SIGNAL HILL, Los Angeles Co., Cal.—Contracts for furnishing vit. sewer pipe have been awarded by the city council as follows:

Gladding, McBean & Co.—1000 feet or more 12-in. pipe at 46c ft. and 12-in. wyes or tees at \$1.82 each; 100 ft. 6-in. at 18½c ft. with wyes or tees at 74c each.

Pacific Clay Prod. Co.—1000 to 4,000 ft. 8-in. pipe at 24.5c f. with tees or wyes at \$1.10 each.

The bids, which were opened Feb. 21, were:

Gladding, McBean & Co.—12-in. 46c ft.; 10-in., 35c ft.; 8-in. 24.5c ft.; 6-in. 18.5c ft. 2 Wyes or tees: 12-in., \$1.82 each; 10-in., \$1.25 each; 8-in., \$1.10 ea.; 6-in. 74c each; 6-in., ½ or ¾ bends, 56.5c.

Pacific Clay Products Co.—Same as Gladding, McBean Co. except did not bid on bends.

Los Angeles Brick Co.—Bid irregular—12-in., 46c; 10-in., 33c; 8-in., 24.5c 6-in., 18.5c; wyes or tees: 12-in., \$1.82 10-in., \$1.25; 8-in., \$1.10; 6-in., 74c; 6-in. bends, 56.5c each.

SAN LEANDRO, Alameda Co., Cal.—Until March 13, 7:45 P. M. (postponed from March 6) bids will be received by A. E. Pelton, city manager, to furnish:

- (1) 10,000 ft. 12-in. vit. sewer pipe;
- (2) 12,000 ft. 14-in. do;

Certified check 10% required with bid. John C. Thayer, city engineer. Pipe is to be used for construction of sewer to bay; an unemployment relief project.

LOS ANGELES, Calif.—County supervisors have appropriated \$107,000 as an allocation to the city for the purchase of material for use in the construction of a storm drain to be built in the district from Florence Ave. to Slauson Ave. and from Western Ave. to Crenshaw Blvd. The material is principally cement and reinforced concrete pipe ranging from 12- to 101-in. in diameter. The labor will amount to \$200,000, funds for which will be allocated from the next Reconstruction Finance Corp. loan to the county. Plans for the drain have been prepared by L. W. Armstrong, engineer of Storm Drain Design, City Hall. All construction will be supervised by the city.

LOS ANGELES, Calif.—Hearing on the proposed construction of sewers in Belvedere Gardens, Unit No. 4, under C. I. No. 757, has been continued by county supervisors from Feb. 27 to March 27. The work as planned involves 4.73 miles of sewer and is estimated to cost \$66,300. The estimated quantities are:

- (1) 17,380 ft. 8-in. vit. sewer;
- (2) 3500 ft. 8-in. vitrified sewer with standard concrete cradle;
- (3) 870 ft. 8-in. vit. sewer (encased);
- (4) 475 ft. 8-in. Class B cast iron pipe
- (5) 410 ft. 10-in. vit. sewer;
- (6) 1840 ft. 10-in. vit. sewer with standard concrete cradle;
- (7) 6 ft. 10-in. vit. sewer (encased);
- (8) 24 ft. 10-in. Class B cast iron pipe
- (9) 156 ft. 12-in. vit. sewer;
- (10) 210 ft. 12-in. vitrified sewer with standard concrete cradle;
- (11) 16 ft. 12-in. Class B cast iron pipe
- (12) 12 ft. 12-in. vit. lateral sewer with standard conc. cradle;
- (13) 11,250 ft. 6-in. vit. house sewers;
- (14) 25 stand. flushing manholes;
- (15) 5 standard double flushing manholes;
- (16) 41 standard manholes;
- (17) 14 standard drop manholes;
- (18) 7 standard double drop manholes;
- (19) 12 stand. junction chambers;
- (20) 670 ft. 6-in. vit. chimney pipe;
- (21) 30 ft. 6-in. do;
- (22) stand. extension for brick struc.;

LOS ANGELES, Calif.—Hearing on the proposed construction of sewers in Belvedere Gardens, Unit No. 5, under County Improvement No. 770, has been continued by county supervisors from Feb. 27 to March 27. The items are:

- (1) 22,860 ft. 8-in. cement pipe main sewer;
- (2) 5440 ft. 8-in. do with conc. cradle

- (3) 96 ft. 8-in. Class B cast iron pipe or Class 150 centrif. cast C. I. pipe;
 - (4) 1570 ft. 12-in. cement pipe main sewer;
 - (5) 2855 ft. 12-in. do with conc. cradle
 - (6) 1070 ft. 15-in. do;
 - (7) 46 ft. 15-in. do (encased);
 - (8) 15,630 ft. 6-in. cement pipe house sewers;
 - (9) 160 ft. 6-in. cast iron soil pipe house connection sewers;
 - (10) 32 stand. flushing manholes;
 - (11) 3 double flushing manholes;
 - (12) 59 brick manholes;
 - (13) 16 drop manholes;
 - (14) 3 double drop manholes;
 - (15) 20 stand. junction chambers;
 - (16) 560 ft. 6-in. cement pipe chimney pipe;
 - (17) 130 ft. 6-in. do;
 - (18) 14 ft. stand. extension for orick structures;
 - (19) 1992 ft. ¾-in. red brass pipe extension to water mains;
 - (20) 1 break into existing manhole of County of L. A. and for new channel in base.
- The engineer's estimate is \$86,553.

MISCELLANEOUS CONSTRUCTION

CORONADO, San Diego Co., Cal.—Francis B. Smith, consulting engineer for the California Bridge and Tunnel Co. of San Francisco, appeared before the Coronado city council Feb. 20 with assurance that finances for construction of the tunnel between Coronado and San Diego would be forthcoming within the next ten months. Mr. Smith stated that the application for a loan of \$3,000,000 will be made to the Reconstruction Finance Corp. and that \$2,000,000 will be provided by junior financing. The statement was made to the council during a hearing on the application of the U. S. Department of Commerce to erect four 125-ft. towers on the northeast part of the island for a radio directional beam for planes. The site is the exact site planned for the Coronado terminus of the tube. Mr. Smith suggested that the department change its proposed location.

LOS ANGELES, Cal.—F. E. Weymouth, General Manager and Chief Engineer of the Metropolitan Water District, announced Saturday Feb. 25, that he had been notified by E. F. Henoch of the Wenzel & Henoch Construction Co. of Milwaukee, Wis., and by representatives of the bonding companies that the company's surety bonds in connection with the contract for the construction of the San Jacinto Tunnel had been oversubscribed by the group of bonding companies participating. Mr. Weymouth stated that the district is prepared to execute and sign a contract with this firm as soon as he necessary papers and legal preliminaries have been settled. These formalities, he stated, would be completed probably within the next few days and that he had every reason to expect that the work on the tunnel will be started early in March.

LONG BEACH, Los Angeles Co., Cal.—Charles L. Heartwell, chairman of the Municipal Water Commission, has announced that he is advocating the construction of a vehicular tunnel connecting Terminal Island with Long Beach under the harbor entrance channel, as part of the Reconstruction Finance Corp. construction program. The cost is estimated at \$2,600,000.

WATERWORKS

INGLEWOOD, Los Angeles Co., Cal. Layne & Bowler Corp., 900 Santa Fe Ave., Los Angeles, awarded contracts by city council Feb. 20, for equipment as follows:

Furnishing one deep well turbine pump for City Well No. 16 at \$1753.75
Furnishing and installing one 7-stage booster unit at City Well No. 16, at \$884.
The bids were opened Feb. 18.

LOS ANGELES, Cal.—Adams Pipe Co. awarded contract by H. E. Russell, County Purchasing Agent, for furnishing galvanized standard steel pipe under Spec. No. 5195.

25

LOS ANGELES, Cal.—Bids for furnishing bell and spigot, Class 250, cast iron water pipe, under Spec. No. 3002, opened by A. J. Holm, City Purchasing Agent, Feb. 21. Bids were taken as follows:

- (1) 30,000 ft. 8-in. I. D. to be delivered about April 15, 1933;
 - (2) 30,000 ft. 8-in. I. D. to be delivered on or about June 15, 1933;
 - (3) 30,000 ft. 8-in. I. D. to be delivered on or about Aug. 15, '33
- Above to be f.o.b. cars or trucks, Dept. of Water and Power Hewitt St. Yard, Los Angeles.
- (4) 20,000 ft. 8-in. I. D. to be delivered on or about May 15, 1933;
 - (5) 20,000 ft. 8-in. I. D. to be delivered on or about July 15, 1933;
 - (6) 20,000 ft. 8-in. I. D. to be delivered on or about Sept. 15, 1933.
- Above to be f. o. b. cars or trucks, Dept. of Water and Power, Slauson and Compton Ave. Yard, Los Angeles.

National Cast Iron Pipe Co.—(1) 90.6c; no bids on other items. No discount for combined award. Terms, net. Alt. f.o.b. cars Hewitt Spur, 89c based on proposed new rail rate. Lengths, 18 ft. Delavand make plain end, Type 1.

American Cast Iron Pipe Co.—(1) 91.5c; (2) 91.5c; (3) 91.5c; (4) 90.5c; (5) 90.5c; (6) 91.5c. Terms, net. No discount for combined award. Alt. f. o. b. cars Hewitt spur, deduct 1.6c per ft. on proposed new rail rate. Monocast, Type II.

Utilities Supply Co.—(1) 92c; (2) 93c (3) 94c (4) 92c (5) 93c (6) 94c. No discount for combined award. Terms, net. Lengths, 16 ft. 6-in. Alt. rail delivery, deduct 2c ft. based on new rail rate. R. D. Wood & Co. sand-spun, bell and spigot end.

Pacific States C. I. Pipe Co.—No bids on first three items; from Provo by rail (4) 93c (5) 93c (6) 96c. No discount for comb. award. from Birmingham, Ala.—(4) 95c (5) 95c (6) 95c. By trucks, (4) 96.5c (5) 96.5c (6) 96.5c. Lengths, 12 or 16 ft. McWayne, Type III.

U. S. Pipe & Foundry Co.—(1) 91c (2) 91c (3) 91c (4) 91c (5) 91c (6) 91c. No discount for combined award. Terms, net. Lengths, 12 or 18 ft. Alt. f.o.b. Hewitt Spur, 89.4c based on new rail rate. Delavaud, Type I.

OAKLAND, Cal.—Steel Tank & Pipe Co., 1100 4th St., Berkeley, at \$6385 submitted lone bid to East Bay Municipal Utility District to furnish 12 sections of steel pipe in lengths of approximately 20 ft., dia. 54- to 65-in. Bid held under advisement.

BEVERLY HILLS, Los Angeles Co. Cal.—Until 8 P. M., March 14, bids will be received by city council to furnish and lay cast iron pipe line in West Hollywood together with fittings, services, accessories, connections to existing mains and resurfacing. A list of the pipe to be furnished is as follows:

- (1) 800 ft. 8-in. cast iron pipe;
 - (2) 2800 ft. 6-in. cast iron pipe;
 - (3) 3250 ft. 4-in. cast iron pipe.
- Salisbury, Bradshaw and Taylor, 714 W 10th St., Los Angeles, engineers.

OAKLAND, Cal.—Until March 10, 8 P. M. bids will be received by John H. Kimball, Secretary, East Bay Municipal Utility District, 512 16th St., Oakland, to furnish 30 tons of joint compound for cast iron pipe, under Spec. LS-100, obtainable from above office.

GLENDALE, Los Angeles Co., Cal.—Until March 9, 10 A. M., bids will be received by city council to furnish f.o.b. trenchside, Glendale, valves and cast iron pipe, as follows:

- (1) 4 20-in. vertical hub end gate valves with spur gears, valves to conform to specifications of American Water Works Assn. and to open by turning nut counterwise.
- Bidders to furnish name of manufacturer, delivery date and specifications of valves they propose to furnish, including net weight of valve and diameter of operating stem.
- (2) 3400 ft. 24-in. Class C cast iron pipe;
- (3) 10 tons Class D bell and spigot cast iron fittings.

Alternate bids will be received on item 2 for Class 250 cast iron pipe, Federal Spec. WW-P-421.

Certified check 10%. G. E. Chapman, city clerk. P. Diederich, Supt. of Plant and Production.

REDWOOD CITY, San Mateo Co., Cal.—County Purchasing Agent will purchase the following supplies in connection with the \$36,953 Las Pulgas storm water conduit to be constructed along the Alameda:

- 2550 ft. 2½x3½-in. box conduit, concrete,
 - 700 ft. 3x3½-in. do.,
 - 1000 ft. 3½x3½-in. do.,
 - 800 ft. 21-in. vit. clay pipe,
 - 100 ft. reinf. conc. pipe, 18-in., Manholes,
- Catch basins.

An unemployment relief project.

SAN LUIS OBISPO, Cal.—Hearing on San Luis Obispo County Waterworks District No. 3 bonds, for water system at Cambria, ordered continued to March 6, 3 P. M.

LYNDEN, Wash.—Until March 6, 8 P. M., bids will be received by city council to furnish:

- (1) 4800 ft. 6-in. c. i. pipe, class B or class 150,
 - (2) 3 ½x6-in. c. i. tees, hub end,
 - (3) 6 6x5-in. c. i. tees, hub end.
- Delivery, April 15.

KINGSBURG, Fresno Co., Cal.—City council sets March 27 as date for bond election for \$8,000 bonds to replace old pipe in municipal water system. C. W. Trabing, city attorney.

ARCADIA, Los Angeles Co., Calif.—Layne & Bowler Corp., 900 Santa Fe Ave., awarded contract by city council at \$586.00 for repairs to one Layne & Bowler 7-stage deep well turbine pump. The bids were opened Feb. 21.

BURBANK, Los Angeles Co., Cal.—Until 8:30 A. M., March 14, bids will be received by city manager, W. S. Patterson, 272 N Olive Ave., Burbank, for furnishing 7100 ft. of 8-in. C. I. pipe, Class 200, minimum wall thickness .46 inch and made in accordance with Federal Spec. No. WW-P-421 of July 21, 1931, or 7100 ft. of 8-inch C. I. pipe, Class C made in accordance with the A. W. W. A. specifications for sand cast pipe. Pipe to be cement mortar lined as per tentative specifications for cement mortar lined cast iron pipe and fittings as

published by the Cast Iron Pipe Research Assn., Nov., 1930. Proposals to state prices of pipe and cement-mortar lining separately and prices of pipe f.o.b. trenchside, City of Burbank, and f.o.b. cars, foundry.

SACRAMENTO, Cal.—Until March 6, 4 P. M., bids will be received by Board of Trustees, American River Flood Control District, Room 410, State Office Bldg., Sacramento, to furnish corrugated culvert pipe, coupling bands and automatic drainage gates, as follows:

- (1) 2 pcs. 48-in. dia. .30-ft. long, 12-gauge;
- (2a) 1 do, 10-ft., 12-gauge;
- (2b) 1 do, 20-ft., 10-gauge;
- (3a) 1 do, 20-ft., 10-gauge;
- (3b) 1 do, 10-ft., 12-gauge;
- (4) 2 do, 30-ft. 12-gauge;
- (5) 2 do, 20-ft., 12-gauge;
- (6) 2 do, 30-ft., 12-gauge;
- (7) 2 do, 48-in. dia. 30-ft., 10-gauge;
- (8a) 1 do, 10-ft., 10-gauge;
- (8b) 1 do, 20-ft., 12-gauge;
- (9) 2 pcs. 48-in. dia. 30-ft., 12-gauge;
- (10) 2 do, 20-ft., 12-gauge, automatic drainage gate riveted to each;
- (11) 8 pcs. 54-in. dia., 2-ft. 14-gauge;
- (12) 8 pcs. 54-in. 2-ft., 14-gauge;
- (13) 2 pcs. 54-in. 26-ft., 12-gauge with rod reinf. one end;
- (14) 2 do;
- (15) 2 pcs. 36-in. dia. 34-ft. 14-gauge do;
- (16) 2 pcs. 54-in. 1-ft. 12-gauge sand couplers;
- (17) 1 pc. 36-in. 1-ft. 14-gauge do;
- (18) 4 pcs. 48-in. dia. automatic drainage gates riveted on.

Specifications obtainable from C. H. Merry, Secretary, at above address or at Room 926, Forum Bldg., Sacramento. Certified check \$400 required with bid.

SAN DIEGO, Cal.—Until 11 A. M., March 8, bids will be received by the City Purchasing Agent, A. R. Sauer, Jr., for two 36-in. and two 42-in. cast iron saucer valves and cast steel covers with brass by-pass and bronze seat, and miscellaneous items. Spec. may be obtained from the Purchasing Agent, 524 F St., San Diego. Prices to be f.o.b. San Diego. Certified check 5%. These valves are for the El Capitan Outlet Works.

SAN FRANCISCO.—American Cast Iron Pipe Co., Balboa Bldg., submitted low bid to T. A. Brooks, City Purchasing Agent, under Bid No. 971, to furnish cast iron water pipe for S. F. Water Department, involving:

- (1) 18,000 ft. 16-in., Class 150;
- (2) 3,000 ft. 16-in., Class 250;
- (3) 2,750 ft. 12-in., Class 150.

Bidders follow:
(A) American C. I. Pipe Co., 60 days.
(B) Central Foundry, 120 days.
(C) Utilities Supply Co., 60 days.
(D) U. S. Pipe & Foundry, 75 days.

Unit bids follow:

	(A)	(B)	(C)	(D)
(1).....	\$1.845	\$2.035	\$2.06	\$2.64
(2).....	2.25	2.445	2.50	3.00
(3).....	1.15	1.233	1.29	1.736

Bids held under advisement.

SEATTLE, Wash.—Until March 31, 12 M., bids will be received by H. W. Carroll, City Comptroller, for the sale of \$760,000 Municipal Water Bonds, interest 6%. Certified check 5% required with bid.

ARCADIA, Los Angeles Co., Cal.—Until 8 P. M., March 7, bids will be received by city council for one deep well turbine pump and motor in accordance with specifications on file in the office of W. H. Nesbitt, city clerk. All bids must be accompanied by a certified check or bidder's bond for 10 per cent.

SANTA MONICA, Los Angeles Co., Cal.—Until 10 A. M., March 10, bids will be received by city council for furnishing 6000 lin. ft. 6-in. class B sand cast iron water pipe, delivered at the city yards, Ninth and Colorado Sts. Earliest possible delivery required. Certified check, 5%. John A. Morton, commissioner of public works.

BELLINGHAM, Wash.—City water board has instructed City Comptroller J. Harold Stevenson to call for bids to be opened March 9 for 15,675 ft. cast iron or wood pipe, estimated cost \$17,000.

SEATTLE, Wash.—Allis - Chalmers Mfg. Co., at \$6157 awarded contract by Board of Public Works to furnish two pumping units for 17th Ave. N. E. pipe line, equipped with 200-hp. motors.

STREETS AND HIGHWAYS

LOS ANGELES, Cal.—A. E. Pearson 2225 Glencoe Ave., Venice, awarded contract by board of public works, on Feb. 24 at \$5065.75, to improve 64th St. bet. Main St. and 633.86 ft. westerly, under cash contract. The bids were opened February 8.

PIERCE COUNTY, Wash.—Elliott & Co., Seattle, at \$75,821 submitted low bid to U. S. Bureau of Public Roads, Portland, for 3.732 miles of grading N. P. H. Proj. E-12-A1, Rainier National Forest. Complete bids follow:

Elliott & Co., Seattle.....	\$75,821
Coyle Con. Co. and J. P. Papin.....	78,041
Elich & Co., Seattle.....	80,673
Stoner & Kinney, Seattle.....	82,544
Meyers & Goulter, Seattle.....	83,417
A. C. Goerig, Seattle.....	83,510
General Const. Co., Seattle.....	87,004
A. C. Greenwood, Portland.....	89,959
P. L. Crooks & Co., Portland.....	94,796
Morrison-Knudsen, Boise, Ida.....	95,547
Alec Besoloff	99,997

SEATTLE, Wash.—Until March 6, 11 A. M., bids will be received by the City Port Commission, 406 Bell Street Terminal, for asphalt pavement in the Bell Street Transit Shed. Specifications obtainable from above office.

MOUNTAIN VIEW, Santa Clara Co. Cal.—Hearing continued by Judge Sycer, superior court, until March 9, on injunction on hearing on Resolution to extend Moffett Blvd. from the NE city limits to the Bayshore Highway. Ray Hays, City Clerk. C. C. Kennedy, Call Bldg., San Francisco, city engineer.

SAN FRANCISCO.—No bids received by S. J. Heister, secretary, Department of Public Works, Feb. 21 to improve Rutledge St. from Alabama to Peralta St., involving:
 (1) 150 ft. armored concrete curbs;
 (2) 40 ft. V.C.P. side sewer;
 (3) 1125 sq. ft. Class E conc. pave.
 This contract was awarded to E. J. Treacy who asked to be released from his contract on the grounds that he cannot collect for work done in front of State property (the State of California having acquired a lot fronting on this portion of Rutledge St.)

TUOLUMNE, Calaveras, Amador & Stanislaus Counties, Cal.—Until March 13, 3 P. M., bids will be received by R. E. Pierce, District Engineer, State Highway Commission, Loom 502, Sutte Office Bldg., Sacramento, to apply Diesel oil to roadside vegetation over 161 roadside miles. Specifications obtainable from above office. Certified check 10% required with bid.

VENTURA, Cal.—Graham Bros. Co., 1512 W 7th St., Long Beach, awarded

contract by city council Feb. 20, for furnishing approximately 10,000 tons of d.sintegrated material for sub-base for use in connection with the Meta St. cut-off. M. J. Bevanda of Stockton has the contract for the construction of this project.

LOS ANGELES and Vernon Counties, Cal.—Consumers Oil Co., 4600 E 52nd Drive, Maywood, submitted low bid to District Engineer, State Highway Commission, Los Angeles, Feb. 21, at \$3481.40 or \$2.06 barrel, for highway oiling in Los Angeles and Ventura counties, applying Diesel oil to roadside vegetation over a distance of about 110.2 roadside miles, involving:

(1) 1690 barrels Diesel oil in place.
 The other bids were:
 Square Oil Co., \$2.10; total \$3549.
 Gilmore Oil Co., \$2.49 bbl.; \$4208.10.
 Western Motor Transfer, Inc., \$2.44 bbl.; \$4123.60.

Paulsen & Mareh, \$2.49 bbl.; \$4208.10
 Bids taken under advisement.

LOS ANGELES, Cal.—Roger Jessup, supervisor from the Fifth District, has announced that the county is planning to construct the La Tuna Canyon Road as a direct route from Roscoe to Tujunga, providing the shortest connection between the San Fernando Valley and the Tujunga valley. Labor costs will be paid from federal funds.

MONTEREY, Monterey Co., Calif.—Haviside Co., Inc., 56 Steuart St., San Francisco, at \$6450 awarded contract by Associated Oil Co., 79 New Montgomery St., San Francisco, to construct approximately 2000 ft. of 16-in. pipe line at the Associated Oil Co.'s marine terminal on the shore of Monterey Bay at Monterey.

SAN FRANCISCO—M. Bertolino, 32 Shotwell St., San Francisco, at \$6,788 submitted low bid to Department of Public Works to improve Bernal Ave. slopes, Randall to Diamond, by planting, involving:

(1) trees
 (2) wood slope
 Complete bids follow:
 (A) M. Bertolino\$6,788
 (B) Eaton & Smith 7,460
 (C) Love & Haun 7,975
 (D) Park Commissioners 9,000

Unit bids follow:
 (A) (B) (C) (D)
 (1)\$6,500 \$7,100 \$7,525 \$8,598
 (2) 48 60 75 67
 Bids held under advisement.

MONTEREY, Calif.—Sydney Ruthven, Seaside, at \$3,002 for cold mix submitted low bid to Quartermaster, Presidio of Monterey to construct 2300 ft. of asphaltic pavement 18-ft. wide in front of officers' quarters at the Post. Complete bids follow:
 Sydney Ruthven Seaside (cold mix)\$3,602
 (hot mix) 3,647
 Granite Con. Co., Watsonville (cold mix) 4,570
 P. L. Burr, S. F. 4,975
 Bids held under advisement.

SHASTA COUNTY, Calif.—Until March 16, 2 P. M., bids will be received by F. W. Haselwood, District Engineer State Highway Commission, Redding to surface 1.1-mi. with crusher run base and bituminous treated crushed gravel or stone surfacing, between Jenny Creek and Redding. Specifications obtainable from above office. Certified check 10 per cent required with bid.

SOLANO, Yolo and San Joaquin Co., Cal.—R. M. Sheldon, Suisun, at \$1404 awarded contract by State Highway Commission to apply Diesel oil to roadside vegetation over 108.8 roadside miles.

SAN FRANCISCO—Thos. J. Doyle, 1527 17th Avenue, San Francisco, at \$1,287.15 submitted low bid March 1 to Department of Public Works, to improve Chestnut St., from Kearney to 110-ft. east, involving:

- (1) 45 cu. yds. class B concrete
- (2) 10,000 lbs. bar reinf. steel
- (3) 150 ft. 1½ in. galv. conduit.

Complete bids follow:
 (A) Thos. J. Doyle\$1287.15
 (B) J. S. Heilman 1338.00
 (C) Eaton & Smith 1455.00
 (D) M. J. Lynch 1505.00
 (E) P. Donnelly 1565.00
 (F) F. C. Amoroso & Son..... 1570.00
 (G) C. C. W. & H. H. Haun..... 1655.00
 (H) E. J. Treacy 1657.00
 (I) Moore & Roberts 1701.50
 (J) U. Peira & Son 1738.75
 (K) L. Sartorio 1795.25
 (L) Love & Haun 1832.50
 (M) L. De Cew 1905.00
 (N) Robert Cohen 1952.50

Unit bids follow:
 (1) (2) (3)
 (A)\$19.87 \$.03 \$.62
 (B) 21.50 .03 .47
 (C) 25.00 .03 .20
 (D) 25.00 .035 .20
 (E) 21.00 .05 .80
 (F) 24.00 .04 .60
 (G) 27.00 .035 .60
 (H) 29.50 .03 .20
 (I) 30.00 .0285 .45
 (J) 24.75 .04 1.50
 (K) 31.75 .032 .31
 (L) 28.50 .04 1.00
 (M) 34.00 .03 .50
 (N) 34.50 .0325 .50

SPOKANE Wash.—Until March 24, 10:30 A. M., (postponed from Feb. 24), bids will be received by county commissioners to grade and surface 7.35-mi. Lateral Highway No. 16, Rock Lake Highway, involving:

- (1) 31,800 cu. yds. class A excav.,
- (2) 20,700 cu. yds. solid rock excav.,
- (3) 11,250 cu. yds. crushed stone surf.,
- (4) 113.5 cu. yds. concrete,
- (5) 1293 ft. pipe culvert.

A. R. Scott, County Engineer.

MONTEREY, San Luis Obispo and Santa Barbara Counties, Calif.—Palo Alto Road Materials Co., 465 California Ave., Palo Alto, at \$1908 awarded contract by State Highway Commission to apply 600 barrels of Diesel oil to roadside vegetation over 45 roadside miles.

ALAMEDA, Santa Clara and Merced Counties, Cal.—L. A. Briscoe, Arroyo Grande, at \$2850 awarded contract by State Highway Commission to apply 1500 barrels of Diesel oil to roadside vegetation over 120 roadside miles.

WHITE PINE COUNTY, Nevada.—Until April 19 (approximate date) bids will be received by E. C. Durkee, State Highway Engineer, Heroes Memorial Bldg., Carson City, for 12.62 miles reconstruction between West foot of Antelope Summit and Illipah, consisting of gravel surfacing.

The specifications will be available about April 3 from above office; also from County Clerk's office; also from U. S. Bureau of Public Roads, 461 Market St., San Francisco, on payment of \$5, not returnable. Certified check 5% required with bid.

WHITE PINE COUNTY, Nevada.—Until April 19 (approximate date) bids will be received by E. C. Durkee, State Highway Engineer, Heroes Memorial Bldg., Carson City, for 14.4 miles of oiling between Illipah and Robinson Summit.

The specifications will be available about April 3 from above office; also from County Clerk's office; also from U. S. Bureau of Public Roads, 461 Market St., San Francisco, on payment of \$5, not returnable. Certified check 5% required with bid.

SEATTLE, Wash.—King County Engineer Thos. D. Hunt completes plans for the paving of 1 1/7 mile of Renton Ave., from a point near Renton, north and west toward Seattle, estimated cost \$24,000. Bids will be asked probably in April.

MENDOCINO, Sonoma, Marin, Solano and Napa Counties, Cal.—Basalt Rock Co. and Chas. Kuppling, Napa, bidding jointly, at \$3384 submitted low bid to District Engineer, State Highway Commission, San Francisco, to apply 1800 barrels Diesel oil to roadside vegetation over 135 roadside miles. Complete bids follow:

Basalt Rock Co. and Chas. Kuppling, Napa, \$1.88; \$3384.

L. J. Inmel, Berkeley, \$1.89; \$3402.
R. M. Sheldon, Suisun, \$2.04; \$3672.
Peninsula Paving Co., San Francisco \$2.07; \$3726.

Oilfields Trucking Co., Bakersfield, \$2.10; \$3780.

Highway Builders, Ltd., San Anselmo, \$2.14; \$3852.

Bids held under advisement.

LANDER COUNTY, Nevada.—Until April 19 (approximate date) bids will be received by S. C. Durkee, State Highway Engineer, Heroes' Memorial Bldg., Carson City, for 21.4 miles of oiling between Railroad Pass and Austin.

The specifications will be available about April 3 from above office; also from County Clerk's office; also from U. S. Bureau of Public Roads, 461 Market St., San Francisco, on payment of \$5, not returnable. Certified check 5% required with bid.

OAKLAND, Calif.—City planning commission contemplates extension of Skyline Boulevard for four miles in East Oakland. Project depends on dedication to city of right-of-way.

ALAMEDA, Calif.—City Manager Ralph M. Bryant plans repair of automobile ferry road by city, with 25% of the cost to be paid by the Southern Pacific Company.

CHURCHILL & LYON CO., Nev.—Until April 19 (approximate date) bids will be received by S. C. Durkee, State Highway Engineer, Heroes Memorial Bldg., Carson City, for 12-mi. oiling between Leeteville and 2-mi. west of Lahontan.

Specifications will be available about April 3 from above office, also from County Clerk's office; also from U. S. Bureau of Public Roads, 461 Market St., San Francisco, on payment of \$5, not returnable. Certified check 5% required with bid.

EL MONTE, Los Angeles Co., Cal.—Hall-Johnson Co., 905 Westminster St., Alhambra, submitted low bid to city council Feb. 27 at \$1745.05 for improving Lexington St. from Main St. to the Pacific Electric Ry., involving:

- (1) 283 tons asphalt concrete base, in place;
- (2) 432 tons asphalt concrete wearing surface in place.

The bids, which were taken under advisement until March 6, were:

Hall-Johnson Co. — (1) \$2.35, (2) \$2.50; total, \$1745.05.

Griffith Co. — (1) \$2.70, (2) \$2.78; total, \$1965.06.

G. G. Flisher Equipment Co, South Gate — (1) \$2.85, (2) \$3.30; total, \$2232.15.

LOS ANGELES, Calif.—Case Construction Co., Inc., 2001 Parnell Ave., awarded contract by A. J. Holm, City Purchasing Agent, at \$1776.92, for surfacing 1433 sq. yds. of bank on south side of Venice Blvd., between West Blvd. and Vineyard Ave., with 3-in.

Gunita process concrete, installing wire reinforcing and tile weepers. Bid No. 3646.

EL MONTE, Los Angeles Co., Cal.—All bids for furnishing Portland cement, sand, and gravel, opened Feb. 20 rejected by city council Feb. 27. The city engineer, J. C. Ells, was authorized to purchase the materials in the open market.

SELMA, Fresno Co., Cal.—City council instructs City Attorney Chester E. Shepard to obtain estimate of value of San Joaquin Light & Power Corp. water system.

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KERN COUNTY, Cal.—Gogo & Rados, 10024 S. Figueroa St., Los Angeles, at \$118,547.90 awarded contract by State Highway Commission to grade and pave with asphalt concrete 2.9 mi. between Union Ave. and Winkler Spur.

LOS ANGELES, Cal.—Proceedings for the improvement of Lankershim Divd. bet. Burbank Blvd. and Chandler Blvd., in the Lankershim and Chandler Blvd. Improvement District, have been abandoned by city council due to a majority protest filed against the proposed improvement.

LOS ANGELES, Cal.—All bids for the maintenance of streets in Palos Verdes, opened January 23, were rejected by county supervisors Feb. 27. The work is to be done by force account.

LOS ANGELES, Cal.—Until 10 A. M. March 15, bids will be received by the board of public work to improve Ascot Ave. bet. 55th St. and Slauson Ave. under cash contract, involving:

- (1) grading (3191 cu. yds. excav.);
- (2) 54,804 sq. ft. 6-in. conc. paving;
- (3) 6169 sq. ft. rock and oil rdwy.;
- (4) 1926 ft. unplas. light curb;
- (5) 8311 sq. ft. 3-in. concrete walk;

SAN MATEO COUNTY, Cal.—Until March 22, 2 P. M., bids will be received by State Highway Commission, Sacramento, to grade and pave with Portland cement concrete 2.3 mi. between San Francisco and South San Francisco, involving:

- (1) 3000 cu. yds. rdwy. excav., unclass.;
- (2) 43,000 cu. yds. borrow;
- (3) 12 cu. yds. struc. excav.;
- (4) 19,350 cu. yds. class A Portland cem. conc. (pave);
- (5) 537,000 lbs. bar reinf. steel (pave);
- (6) 1230 tons asph. conc.;
- (7) 21,200 tons cru. run base;
- (8) 360 tons screenings;
- (9) 660 bbls. heavy fuel oil;
- (10) 40 lin. ft. 8-in. corr. metal pipe;
- (11) 4 raise drop inlets and headwalls to grade;
- (12) 10 raise manholes to grade;
- (13) 600 sq. yds. cobble gutter;
- (14) 2560 lin. ft. remove and reset timber guardrail;
- (15) 4200 lin. ft. lam. timber guardrail;
- (16) 704 lin. ft. flexible metal guardrail;
- (17) 14 6-ft. metal headers (cribbing);
- (18) 13 8-ft. metal headers (cribbing);
- (19) 52 8-ft. metal stretchers (cribbing);
- (20) 28 metal header caps (cribbing);
- (21) 8160 lin. ft. traffic stripe;
- (22) 163 sta. finish roadway;
- (23) 47 monuments complete in place.

State will furnish corrugated metal pipe, spillway assemblies and rail plates, spring supports and fastenings for metal guard rail.

SAN MARINO, Los Angeles Co., Cal.—Resolution of intention No. 232 has been adopted by city council to improve Oakleigh Drive, between Al-

hambra Road and West Drive, and a portion of Alhambra Road at its intersection with Oakleigh Drive, involving grading, light oil macadam pavement, concrete curb, concrete gutter and reinforced concrete culvert and catchbasins, together with appurtenances, etc. A hearing has been set for 8 P. M., March 8, in the city council room, City Hall, San Marino. Proceedings are under the 1911 Act. H. W. Joyce, city clerk.

MISCELLANEOUS CONSTRUCTION

Contract Awarded.

TUNNEL Cost, \$4204
SAN FRANCISCO, Jessie Street.
Concrete tunnel under Jessie St. connecting the Emporium building basement and Hulse-Bradford Bldg. basement.

Owner—The Emporium, 835 Market.
Engineer—C. H. Snyder, 251 Kearny Street.

Contractor—Theo. Cohn, Russ Bldg.

VANCOUVER, Wash.—The Columbia Memorial (Arthur G. Berry, Mgr.) Vancouver, has purchased additional property on the Evergreen Highway on which a large mausoleum and crematorium will be constructed.

SEATTLE, Wash.—A. C. Pillsbury, 1049 Selby Ave., West Los Angeles, has prepared cost estimates for a proposed automobile and horse racing plant to be erected on a 62-acre site in South Seattle, for the Olympic Racing Assn., C. W. Beaver, room 724, 1411 Fourth Ave., Seattle. Estimated cost of the plant is \$50,000. The project is expected to mature in about 30 days. Plans and specifications will be prepared by Mr. Pillsbury.

Electric Contract Awarded.

TOWER Cost, \$106 60
SAN FRANCISCO, Pioneer Park on Telegraph Hill.

Construct concrete monumental tower (install elevator, heating and electric, concrete work, quarry tile, iron work, carpentry, ornamental tile and plumbing).

Owner—City and County of San Francisco (Park Commission).

Architect — Arthur Brown Jr. 251 Kearny St., San Francisco.

Engineer—C. H. Snyder, 251 Kearny St., San Francisco.

Contractor—Young & Horstmeyer, 461 Market St., San Francisco.

Electric — Central Electric Co., 179 Minna St., San Francisco.

Other awards reported Feb. 10.

VAN NUYS, Los Angeles Co., Cal.—United States Department of Commerce has leased property located at the SE corner of Woodman Ave. and Valerio St., Van Nuys, where it will establish a radio station. Improvements will include two steel towers and a brick building. It is understood that material for the towers is being shipped to Van Nuys from the east.

Planned.

FUMIGATION CHAMBER \$1150
STOCKTON, San Joaquin Co., Cal.
Fumigation chamber in transit shed No. 4.

Owner—City of Stockton (Port Commission), Col. Allen, Director.
Plans by Eng. Dept. of Owner.

BERKELEY, Cal.—W. V. Bernard, 3045 Humboldt Avenue, Berkeley, at \$1126 awarded contract by City Council for constructing a wood truss canopy for warehouse, 25x100 feet, at the Municipal Wharf, Foot of University Ave., Berkeley.

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

REINF. CONC. GIRDER BRIDGE—SAN GABRIEL RIVER—L. A. CO.

LOS ANGELES COUNTY, Cal.—Clinton Construction Co., 923 Folsom St., San Francisco, at \$109,101.10 submitted low bid Feb. 23 to State Highway Commission, Sacramento, to construct a reinforced concrete girder bridge across San Gabriel River about 2 mi. east of El Monte consisting of fourteen 65-ft. spans and two 27-ft. cantilevers on concrete piers involving:

- (1) 7,300 cu. yds. struc. excav.;
- (2) 735 cu. yds. class A cem. concr. (footing blocks);
- (3) 4700 cu. yds. do (struc.);

- (4) 1,140,000 lbs. bar reinf. steel;
 - (5) 75,000 lbs. struc. steel expansion details;
 - (6) 75,500 lbs. do railing;
 - (7) 72 cu. yds. sand fill;
 - (8) 2900 lin. ft. traffic stripe;
 - (9) 1930 lin. ft. curb strip;
 - (10) 1 lot misc. items of work.
- Complete bids follow:
- (A) Clinton Constr. Co., San Francisco, \$109,101.10.
 - (B) Weymouth Crowell Co., Pasadena, \$118,634.60.
 - (C) Oberg Bros. Los Angeles, \$119,144.25.

- (D) Bodenhamer Conser. Co., Oakland, \$124,473.75.
- (E) Merritt-Chapman & Scott, San Pedro, \$126,114.60.
- (F) M. B. McGowan, San Francisco, \$127,639.
- (G) H. M. Baruch Corp. and Robinson-Roberts Co., L. A., \$128,465.75.
- (H) Fredrickson & Watson Co. and Fredrickson Bros., Oakland, \$129,898.50.
- (I) Dimmitt & Taylor, Los Angeles, \$133,010.50.
- (J) Lynch - Cannon Engr. Co., Los Angeles, \$133,837.

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
(1).....	\$ 1.08	\$ 1.43	\$.60	\$ 1.60	\$ 1.50	\$.90	\$ 2.83	\$ 1.00	\$ 1.50	\$ 1.50
(2).....	8.12	5.90	7.55	7.45	10.00	8.00	6.65	8.50	9.70	10.00
(3).....	12.00	13.40	14.00	13.45	13.00	14.60	12.70	16.00	15.70	15.85
(4).....	.0248	.0265	.028	.03	.03	.03	.0285	.026	.0256	.03
(5).....	.0475	.047	.048	.055	.05	.05	.05	.06	.06	.055
(6).....	.0572	.06	.065	.06	.07	.07	.065	.06	.057	.065
(7).....	2.00	1.15	1.00	1.00	1.30	1.00	1.00	1.00	1.00	1.00
(8).....	.15	.17	.165	.10	.13	.20	.12	.20	.11	.10
(9).....	.76	.81	.90	.20	1.30	1.20	.55	.30	1.25	.75
(10).....	650.00	475.00	700.00	500.00	500.00	366.00	600.00	1000.00	350.00	1000.00

4-MI. GRADING — SAN DIEGO COUNTY

SAN DIEGO COUNTY, Cal.—Daley Corp., 4430 Boundary St., San Diego, at \$89,040.50 submitted low bid Feb. 23 to State Highway Commission, Sacramento, to grade 4.4 mi. between Barnett Ave. and Balboa Ave., involving:

- (1) 233 sta. clear and grub right-of-way;
- (2) 30,500 cu. yds. rdwy. excav., unclassified;
- (3) 210,000 sta. yds. overhaul;
- (4) 254,500 cu. yds. imported borrow;
- (5) 14,500 cu. yds. struc. excav.;
- (6) 880 cu. yds. Class A cem. conc. (struc.);
- (7) 1,350 cu. yds. rock foundation;
- (8) 83,000 lbs. bar reinf. steel (struc.);
- (9) 1,500 lbs. misc. iron and steel (struc.);

- (10) 340 lin. ft. 8-in. corr. metal pipe;
 - (11) 364 lin. ft. 12-in. do;
 - (12) 144 lin. ft. 14-in. do;
 - (13) 192 lin. ft. 18-in. do;
 - (14) 432 lin. ft. 24-in. do;
 - (15) 376 lin. ft. 30-in. do;
 - (16) 800 lin. ft. 36-in. do;
 - (17) 72 lin. ft. 48-in. do;
 - (18) 7,300 M. gals. water;
 - (19) 2.4 miles new property fence;
 - (20) 12 fence gates;
 - (21) 50 culvert markers;
 - (22) 233 sta. finish roadway;
 - (23) 64 monuments complete in place.
- State will furnish corrugated metal pipe and spillway assemblies.
- Complete bids follow:
- (A) Daley Corp., San Diego, \$89,040.50
 - (B) J. L. Connor and K. Kristich, Monterey, \$99,962.60.

- (C) Weymouth Crowell and E. Penn Watson Jr., Pasadena, \$101,568.70
- (D) Merritt-Chapman & Scott, San Pedro, \$103,529.30.
- (E) Basich Bros., Torrance, \$105,676.50
- (F) Hall Johnson Co. Alhambra, \$110,476.40.
- (G) Walter Treptke San Diego, \$113,113.00.
- (H) V. R. Dennis Contracting Co., San Diego, \$116,704.90.
- (I) Guy F. Atkinson Co., San Francisco, \$116,826.75.
- (J) S. J. Groves & Sons Co., Los Angeles, \$127,581.00.
- (K) Von der Hellen & Pierson, Castiac, \$151,061.40.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)
(1).....	\$.90	\$ 5.00	\$ 3.00	\$ 5.00	\$ 1.50	\$ 3.00	\$ 2.00	\$ 6.00	\$ 1.00	\$ 2.00	\$ 5.00
(2).....	.176	.20	.15	.12	.17	.20	.16	.22	.29	.23	.25
(3).....	.005	.035	.003	.002	.005	.005	.005	.005	.005	.003	.004
(4).....	.193	.23	.245	.24	.26	.24	.27	.27	.27	.30	.40
(5).....	.30	.35	.25	.40	.40	.60	.50	.40	.50	.75	.50
(6).....	12.30	12.00	13.50	14.00	12.00	16.00	12.00	15.00	13.50	14.00	14.00
(7).....	1.50	1.50	1.00	1.00	1.70	1.00	1.50	1.75	2.00	1.50	1.20
(8).....	.0287	.04	.035	.03	.03	.035	.03	.03	.03	.04	.03
(9).....	.07	.04	.10	.06	.10	.08	.07	.10	.12	.10	.06
(10).....	.25	.15	.25	.20	.50	.30	.30	.50	.60	.60	.30
(11).....	1.45	1.55	1.55	1.50	1.40	1.60	1.75	2.00	1.50	1.75	1.60
(12).....	1.70	1.75	1.75	1.70	1.65	1.80	2.00	2.25	1.75	2.00	1.75
(13).....	2.25	2.25	2.35	2.15	2.10	2.40	2.75	3.10	2.50	2.50	2.50
(14).....	2.95	2.85	3.05	2.65	2.80	3.00	3.25	4.00	3.00	3.10	3.00
(15).....	4.30	4.45	4.45	3.80	4.00	4.25	4.75	5.50	4.50	4.30	4.50
(16).....	5.75	5.60	5.60	5.00	5.20	5.50	5.75	6.75	5.25	5.50	5.75
(17).....	8.70	7.25	7.25	7.00	7.00	7.50	7.50	8.60	8.00	7.50	8.00
(18).....	.15	.10	.20	.20	.18	.40	.50	.20	.30	.40	.60
(19).....	280.00	250.00	400.00	300.00	240.00	350.00	200.00	300.00	400.00	300.00	300.00
(20).....	19.50	12.00	15.00	12.00	12.00	15.00	12.00	15.00	15.00	15.00	15.00
(21).....	2.00	2.00	2.00	1.05	2.00	1.80	2.00	2.00	1.50	1.00	2.00
(22).....	3.00	5.00	5.00	2.00	3.00	4.00	5.00	3.00	2.75	4.00	3.00
(23).....	2.00	2.00	3.00	2.50	1.50	3.00	2.00	2.00	3.00	2.00	3.00

GR. 3-MI. ASHFORK-KINGMAN HWY—ARIZONA STATE

ARIZONA STATE—Martin Brothers Trucking Co., 1389 Gladys Ave., Long Beach, awarded contract by the State Highway Commission, Phoenix, Feb. 24, at \$44,020.34, for highway construction on the Ashfork-Kingman Highway, E-80-F (A. F. E. No. 6655). The work, which is located about 30 miles northeast of the town of Kingman, consists of the grading and draining of approximately three miles of roadway, involving:

- ROADWAY—INDIAN SER. LAND
(1) 16,895 cu. yds. rdwy. excav. (unclass.);
(2) 1826 cu. yds. drainage excav. (unclass.);
(3) 500 lin. ft. grader ditches;
(4) 1200 cu. yds. slides and overbreakage;
(5) 300 cu. yds. struc. exca. (unclass.)
(6) 1787 cu. yds. borrow excav. (unclass.) inc. cushion material;
(7) 105,000 sta. yds. earthwork overhaul (inc. haul of cushion material);
(8) 35 cu. yds. Class A concrete (including cement);
(9) 48 cu. yds. Class B do;
(10) 2190 lbs. reinf. steel;
(11) 152 lin. ft. 30-in. C.M.P.;
(12) 306 lin. ft. 36-in. C.M.P.;
(13) 1 cattle guard, type B;
(14) 3220 lin. ft. cable road guard;
(15) 125 lin. ft. standard line fence.
STRUC. OVER 20-FT. CLEAR SPAN (Indian Service Land)
(16) 650 cu. yds. drainage excav. (unclass.);

- (17) 132 cu. yds. struc. do;
(18) 125 cu. yds. Class A conc. (inc. cement);
(19) 13,010 lbs. reinf. steel.

ROADWAY

- (Outside of Indian Service Land)
(20) 12,059 cu. yds. rdwy. excav. (unclass.);
(21) 2210 cu. yds. drainage do;
(22) 3050 lin. ft. grader ditches;
(23) 800 cu. yds. slides and overbreakages;
(24) 309 cu. yds. structure excav. (unclass.);
(25) 11,125 cu. yds. borrow excav. (unclass. inc. cushion material);
(26) 34,000 sta. yds. earthwork overhaul (inc. haul of cushion material);
(27) 93 cu. yds. Class A concrete (inc. cement);
(28) 27 cu. yds. Class B do;
(29) 7247 lbs. reinf. steel;
(30) 38 lin. ft. 30-in. C.M.P.;
(31) 264 lin. ft. 36-in. C.M.P.;
(32) 2300 lin. ft. cable road guard.

- The total bids were:
(A) Martin Bros. Trucking Co., \$44,020.34.
(B) Hodgman & MacVicar Co., Holbrook, Ariz., \$44,909.57.
(C) Pearson & Dickerson, Riverside, \$45,679.91.
(D) Vinson & Pringle, Phoenix, \$47,844.52.
(E) Skousen Bros., Mesa, Ariz., \$49,903.18.
(F) H. L. Royden, Phoenix, \$51,970.96.
The unit bids were:

Table with 6 columns (A) through (F) and 32 rows of unit bid prices for various construction items.

IRVINGTON PORTAL PIPE LINE—HETCH HETCHY

SAN FRANCISCO—American Concrete & Steel Pipe Co., 19th Ave. and Estuary, Oakland, at \$129,606.50 under proposition B and W. A. Bechtel Co., 155 Sansome St., San Francisco, at \$130,313 under Proposition A, submitted low bids Feb. 24 to Public Utilities Commission, to construct pipe line in the Bay Crossing Division of the Hetch Hetchy Aqueduct, H. H. W. S. Contract No. 137, consisting of 7120 ft. pipe line, Irvington Portal (west portal of Coast Range Tunnel) westerly to junction with east, and existing Bay Crossing pipe line at a

point one-half mile north of Irvington, Alameda County. The Irvington portal is 1 1/2-mi. north of Mission San Jose. Bidders follow

- (A) W. A. Bechtel, San Francisco, (Prop. A), \$130,313.
(B) C. L. Harney, San Francisco, (Prop. A), \$132,102.50.
(C) Youdall Constr. Co., San Francisco (Prop. A), \$135,950.60.
(D) Lindgren & Swinerton (Prop. A), \$136,958.65.
(E) American Concrete & Steel Pipe Co. (Prop. B), \$129,606.50.

AWARD

ARIZONA STATE—Martin Brothers Trucking Co., 1389 Gladys Ave., Long Beach, awarded contract by the State Highway Commission, Phoenix, Feb. 24 at \$56,911.41 (using road mix) for highway construction on the Phoenix-Prescott Highway, E-84-B (A.F.E. No. 8954) and E-84-C (A.F.E. No. 8920).

L. E. Dixon Co., 609 S Grand Ave., Los Angeles, submitted low bid on plant mix at \$62,607.48.

The work, which extends from the Wickenburg bridge northerly about 15 1/4 miles to town of Congress Junction, consists of the placing of sub-grade stabilizer and the oil processing by either the plant or road mix method, involving:

PLANT MIX FOR E-84-B

- (1) 293 M. gallons water applied to roadway;
(2) 22,417 tons plant mixed oil treated surf. inc. haul and all materials except oil;
(3) 224,167 gals. asph. road oil plant mix;
(4) 18,314 gals. asph. road oil for seal coat;
(5) 4877 cu. yds. shoulder material;
(6) 18,584 cu. yd. mi. shoulder material haul;
(7) 12,473 mi. spread, compact and finish;
(8) 959 cu yd. screenings for seal coat.

STRUCTURES OVER 20-FT. CLEAR SPAN

- (9) 23 tons plant mix oil treat. surf.;
(10) 277 gals. asph. road oil, plant mix
(11) 23 gals. asph. road oil for seal coat.
(12) 0.010 mile spread, compact and finish;
(13) 1 cu. yd. screenings for seal coat;
(14) 250 cu. yds. spec. min. aggregate, stockpile;

PLANT MIX FOR E-84-C

- (1) 2574 cu. yds. sub. stabilizer;
(2) 9809 cu. yd. mi. sub stab., haul;
(3) 75 M. gals. water applied to roadway;
(4) 5766 tons plant mix oil treat. surf.
(5) 57,655 gals. asph. road oil for plant mix;
(6) 4710 gals. asph. road oil for seal coat;
(7) 1352 cu. yds. shoulder material;
(8) 6931 cu. yd. mi. shoulder material, haul;
(9) 3,209 miles spread, compact and finish;
(10) 247 cu. yds. screenings for seal coat;
(11) 73 tons plant mix oil treat. surf.
(12) 734 gals. asph. road oil plant mix
(13) 1 cu. yd. screenings for seal coat;
(14) 0.040 mile spread, compact and finish;
(15) 3 cu. yds. screenings for seal coat
(16) 64 cu. yds. spec. min. aggregate, stockpile;

ALTERNATE ROAD MIX E-84-B

- (1) 293 M. gals. water applied to roadway;
(2a) 16,279 cu. yds. min. aggregate;
(2b) 125,211 cu. yds. mi. min. aggregate, haul;
(3a) 293,029 gals. asph. road oil;
(4) 18,314 gals. asph. road oil for seal coat;
(5) 4877 cu. yds. shoulder material;
(6) 18,584 cu. yd. mi. shoulder material, haul;
(7a) 12,473 miles mix, lay down and finish;
(8) 959 cu. yds. screenings for seal coat;

STRUCTURES OVER 20-FT. CLEAR SPAN

- (9a) 20 cu. yds. min. aggregate;
(9b) 155 cu. yd. mi. min. agg., haul;
(10a) 363 gals. asph. road oil;
(11) 23 gals. asph. road oil for seal coat;
(12a) 0.010 mile mix, lay down and finish;
(13) 1 cu. yd. screenings for seal coat;

(F) Bonna Pipe Co. of America (B), \$143,019.25.

Bids were taken under two alternate propositions, as follows: (a) steel pipe line and accessories; (b) steel cylinder reinforced concrete pipe line with short length of steel pipe and accessories.

Project involves:

- (1) furnish and lay 60-in. steel pipe, 5/16-in. plate, Prop. (A) \$3860 ft. (2) do, 3/4-in. plate, (A) 3220 (B) 255. (3) felt wrapping, (A) 103,000 sq. ft.; (B) 2200. (4) Gunite casement, 2-in. thick, (A) 550 sq. ft.; (B) 550. (5) do, 3/4-in. thick, (A) 10,000; (B) 2000. (6) expansion joints, (A) 1; (B) (7) manholes on pipe, (A) 5; (B) 5. (8) saddle nozzles, (A) 500 lbs.; (B) 500 lbs.; (9) companion flanges, (A) \$1000 lbs.; (B) 1000 lbs.; (10) gate valves, 6-in., (A) 5; (B) 5. (11) do, 8-in., (A) 1; (B) 1; (12) do, 16-in., (A) 1; (B) 1; (13) air valves, (A) 5; (B) 5. (14) air release valves, (A) 3; (B) 3. (15) steel frames and covers, (A) 2,000 lbs.; (B) 2000 lbs.; (16) furnish and lay wrought steel pipe 16-in. outside dia., (A) 120 ft.; (B) 120 ft.; (17) 8-in. flanged cast iron pipe, (A) 2000 lbs.; (B) 2000 lbs.; (18) corrugated metal pipe culverts, (A) 100 ft.; (B) 100 ft.; (19) steel bolts, nuts, washers, (A) 1000 lbs.; (B) 1000 lbs.; (20) steel manifold and accessories, (A) 1; (B) 1; (21) metal valve house, (A) 2500 lbs.; (B) 2500 lbs.; (22) miscellaneous steel work, (A) 2,000 lbs.; (B) 2000 lbs.; (23) install fittings furnished by city (A) 1000 lbs.; (B) 1000 lbs.;

- (24) install Venturi meter and butterfly valve (furnished by city) (A) 16,000 lbs.; (B) 16,000 lbs.; (25) install misc. metal work (furnished by city) (A) 10,000 lbs.; (B) 10,000 lbs.; (26) earth excavation, (A) 16,000 cu. yds.; (B) 16,000 cu. yds.; (26a) excavation for culvert under r.r. (A) 270 cu. yds.; (B) 270 cu. yds.; (27) rock excavation, (A) 600 cu. yds.; (B) 600 cu. yds.; (28) earth embankments east of r.r., (A) 700 cu. yds.; (B) 1200 cu. yds.; (28a) do, west of r.r., (A) 300 cu. yds.; (B) 500 cu. yds.; (29) concrete, Class A, (A) 240 cu. yds.; (B) 180 cu. yds.; (30) do, Class B, (A) 20 cu. yds.; (B) 20 cu. yds.; (31) do, Class C, (A) 50 cu. yds.; (B) 50 cu. yds.; (32) reinf. steel, (A) 45,000 lbs.; (B) 30,000 lbs.; (33) furnish and place steel beams, (A) 10,000 lbs.; (B) 10,000 lbs.; (34) valve house, (A) 1 (B) 1; (35) Venturi meter house, (A) 1; (B) 1; (36) crushed rock pavement, (A) 2,000 sq. ft.; (B) 2000 sq. ft.; (37) property line posts, (A) 60; (B) 60; (38) wood fences, (A) 3 MBM; (B) 3; (39) gates in right of way fences, (A) 4; (B) 4; (40) extra cement, (A) 100 bbl.; (B) 100 bbl.; (41) valve connection, (A) 1; (B) 1; (42) expansion joint in existing pipe line (A) 1; (B) 1; (43) furnish and lay 57-in. steel cylinder reinf. concrete pipe east of station 1734, (B) 2240 ft.; (44) do, west of station 1734, (B) 4,585 ft.

Unit bids follow:

- (14) 250 cu. yds. spec. min. aggregate for stockpile; ALTERNATE ROAD MIX E-84-C (1) 2574 cu. yds. sub. stab.; (2) 9809 cu. yd. mi. do, haul; (3) 75 M. gals. water applied to roadway; (4a) 4187 cu. yds. min. aggregate; (4b) 3693 cu. yd. mi. min. agg., haul; (5a) 75,366 gals. asph. road oil; (6) 4710 gals. asph. road oil for seal coat; (7) 1352 cu. yds. shoulder material; (8) 6931 cu. yds. shoulder material, haul; (9a) 3.209 miles mix, lay down and finish; (10) 247 cu. yds. screenings for seal coat;

STRUCTURES OVER 20-FT. CLEAR SPAN

- (11a) 53 cu. yds. min. aggregate; (11b) 58 cu. yds. mi. min. agg., haul; (12a) 960 gals. asph. road oil; (13) 60 gals. asph. road oil for seal coat; (14a) 0.040 miles mix, lay down and finish; (15) 3 cu. yds. screenings for seal coat (16) 64 cu. yds. spec. min. agg. for stockpile.

The total bids were:

- (A) Martin Bros. Trucking Co., road mix, \$56,911.41. (B) L. E. Dixon Co., Los Angeles, plant mix, \$62,607.48. (C) Heafey-Moore Co. and J. A. Casson, Phoenix, road mix, \$65,023.46. (D) Phoenix-Tempe Stone Co., Phoenix, road mix, \$67,696.95; plant mix \$76,819.47. (E) Ralph Pleasant Co., Phoenix, plant mix, \$88,338.02.

The unit bids were:

PLANT MIX FOR E-84-B

Table with 5 columns (A-E) and 14 rows of bid data for Plant Mix for E-84-B.

PLANT MIX FOR E-84-C

Table with 5 columns (A-E) and 16 rows of bid data for Plant Mix for E-84-C.

ALTERNATE ROAD MIX E-84-B

Table with 5 columns (A-E) and 14 rows of bid data for Alternate Road Mix E-84-B.

ALTERNATE ROAD MIX E-84-C

Table with 5 columns (A-E) and 4 rows of bid data for Alternate Road Mix E-84-C.

Main bid comparison table with 6 columns (A-F) and 44 rows of unit bid data.

(4b).....	.08	.08	.10	(11a).....	.48	.60	.70
(5a).....	.05	.05	.05	(11b).....	.08	.08	.10
(6).....	.05	.055	.05	(12a).....	.05	.05	.05
(7).....	.45	.60	.60	(13).....	.05	.055	.05
(8).....	.08	.08	.10	(14a).....	450.00	600.00	500.00
(9a).....	450.00	600.00	500.00	(15).....	1.75	3.50	2.25
(10).....	1.75	3.50	2.25	(16).....	2.00	2.00	2.00

3.9-MI. GRADE & SURFACE—SISKIYOU COUNTY

SISKIYOU COUNTY, Cal. — J. F. Shepherd, 108 E. Miner Ave., Stockton, at \$85,909.50 submitted low bid February 23 to State Highway Commission, Sacramento, to grade and surface with untreated crushed gravel or stone and bituminous surface treatment to be applied over 3.9 mi. bet. Dorris and Oregon State Line, involving:

- (1) 163,200 cu. yds. rdwy. excav., unclass;
- (2) 1,831,200 sta. yds. overhaul;
- (3) 200 cu. yds. struc. excav.;
- (4) 17,050 tons untr. cru. gravel or stone surfacing;
- (5) 950 M. gals. water;
- (6) 5 cu. yds. class A cem. concr. (struc.);
- (7) 170 lbs. bar reinf. steel (struc.);
- (8) 300 bbls. heavy fuel oil;
- (9) 105 tons asphalt road oil;
- (10) 2,620 tons screenings;
- (11) 34 tons cut-back asphalt road oil seal coat;

- (12) 262 lin. ft. 12-in. corr. metal pipe;
- (13) 604 lin. ft. 18-in. do;
- (14) 130 lin. ft. 24-in. do;
- (15) .87 mi. new property fence;
- (16) 2 fence gates;
- (17) 201 sta. finish roadway;
- (18) 41 monuments complete in place. State will furnish corrugated metal pipe.

- Complete bids follow:
- (A) J. F. Shepherd, Stockton, \$85,909.50.
 - (B) A. Teichert & Son, Sacramento, \$114,670.70.
 - (C) Granfield, Farrar & Carlin, San Francisco, \$117,440.20.
 - (D) Dunn & Baker and Johnson Bros., Klamath Falls, \$119,676.20.
 - (E) Heafey-Moore and J. A. Casson, Oakland & Hayward, \$155,367.30.
 - (F) Hemstreet & Bell, Marysville, \$193,210.00.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)
(1).....	\$.27	\$.37	\$.38	\$.45	\$.65	\$.70
(2).....	.005	.005	.005	.005	.003	.01
(3).....	1.50	1.00	1.50	1.00	1.00	2.50
(4).....	1.30	1.75	1.80	1.50	1.70	2.50
(5).....	1.50	1.50	1.25	1.35	1.25	2.00
(6).....	25.00	25.00	25.00	18.00	20.00	30.00
(7).....	.05	.10	.06	.06	.05	.08
(8).....	2.50	3.00	2.75	2.00	2.25	2.75
(9).....	11.00	20.00	20.00	22.00	18.50	21.00
(10).....	1.50	3.00	3.25	1.70	2.80	3.50
(11).....	15.00	22.50	25.00	24.00	20.00	24.00
(12).....	.75	.30	.30	.30	.20	.25
(13).....	.75	.40	.35	.35	.20	.35
(14).....	1.00	.50	.45	.40	.30	.45
(15).....	400.00	400.00	400.00	250.00	350.00	500.00
(16).....	15.00	12.50	15.00	15.00	20.00	15.00
(17).....	5.00	5.00	4.00	5.00	5.00	7.50
(18).....	3.50	3.00	3.00	3.00	2.50	3.00

GOVERNMENT ISLAND MISC. CONSTRUCTION

ALAMEDA, Alameda Co., Cal.—Eaton & Smith, 715 Ocean Avenue, San Francisco, at \$4,126 submitted low bid February 28, to U. S. Bureau of Public Roads, Government Island, Alameda, and 461 Market St., San Francisco, to construct parts of Units Nos. 1, 3, 5 and 8, Government Island construction, at Government Island, Alameda, involving:

- (1) remove the existing wooden frame buildings, lump sum;
- (2) 2760 cu. yds. unclass. excav.;
- (3) 135 lin. ft. lay railroad track;
- (4) 15 cu. yds. sub-ballast in place;
- (5) 70 cu. yds. track ballast in place;
- (6) 161 lin. ft. lay 6-in. pipe line and appurtenances;
- (7) dismantle, recondition and reinstall existing equip. and furnish and install new equip. and materials to complete the pumping plant, lump sum;

- (8) 200 lin. ft. remove, recondition & reinstall 10-in. suction pipe;
- (9) 135 lin. ft. furnish and install new 10-in. suction pipe;
- (10) 740 sq. yds. prepare subgrade for roadway;
- (11) 73 cu. yds. subgrade reinf. in place;
- (12) 118 cu. yds. crushed gravel base course or crushed rock in place.

- Complete bids follow:
- (A) Eaton & Smith, San Francisco, \$4,126.00.
 - (B) Hutchinson Co., Oakland, \$4,190.
 - (C) Roy Lind, San Francisco, \$4,821.
 - (D) Schuler & MacDonald, Oakland, \$5,217.00.
 - (E) Chigris & Sutsos, San Francisco, \$5,761.00.
 - (F) Martin Murphy, Berkeley, \$5,940.
 - (G) Engineer's estimate, \$5,248.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
(1).....	\$150.00	\$100.00	\$100.00	\$350.00	\$480.00	\$400.00	\$100.00
(2).....	.30	.17	.25	.297	.20	.60	.40
(3).....	1.00	1.00	3.40	1.10	2.40	3.00	1.00
(4).....	1.60	1.75	3.00	2.20	2.40	2.00	2.00
(5).....	2.00	2.00	2.90	3.00	3.00	2.00	3.00
(6).....	1.00	.60	1.40	1.20	.70	.30	.50
(7).....	1500.00	2316.00	1650.00	2189.00	2196.00	2200.00	2800.00
(8).....	2.00	1.30	1.70	2.20	2.12	1.00	.40
(9).....	3.00	2.10	2.40	1.50	3.60	3.00	1.00
(10).....	.10	.05	.12	1.35	.12	.10	.10
(11).....	1.00	1.25	3.00	2.00	3.12	2.00	2.00
(12).....	2.00	2.00	2.90	3.30	3.60	2.00	3.00

COMPLETE BID LISTING

LYON COUNTY, Nevada—As previously reported, Dodge Construction, Inc., Fallon, Nev., at \$68,577.66 awarded contract by State Highway Department, Carson City, for highway xx.' EVAD emfwp ... construction between 12 and 2 mi. west of Lahontan, 9.99-mi., to be graded and improved with gravel surfacing, involving:

- (1) 79,700 cu. yds. rdwy. excav.;
- (2) 73 acres clearing;
- (3) 151,848 sta. yds. overhaul;
- (4) 21,479 cu. yds. select borrow;
- (5) 740 cu. yds. struc. excav.;
- (6) 9.99 mi. subgrade;
- (7) 31,500 cu. yds. crushed gravel or stone;
- (8) 98 cu. yds. class B concrete;
- (9) 3000 lbs. reinforcing steel;
- (10) 1352 lin. ft. corr. metal pipe, 18-inch;
- (11) 360 lin. ft. 24-in. do;
- (12) 128 lin. ft. 36-in. do;
- (13) 250 lin. ft. vitrified pipe, 18-in.;
- (14) 295 lin. ft. 24-in. do;
- (15) 83 monuments;
- (16) 9.99 mi. finish roadway;

- Complete bids follow:
- (A) Dodge Constr. Co., Inc., \$68,577.66
 - (B) Nevada Rock & Sand Co., Reno, \$69,581.86.
 - (C) Union Paving Co., San Francisco, \$72,533.43.
 - (D) Engineer's Estimate, \$63,325.41.

Unit bids follow:

	(A)	(B)	(C)	(D)
(1).....	\$.38	\$.34	\$.35	\$.30
(2).....	5.00	10.00	20.00	5.00
(3).....	.02	.02	.01	.02
(4).....	.30	.35	.50	.35
(5).....	.75	1.00	1.00	1.00
(6).....	50.00	75.00	75.00	100.00
(7).....	.60	.65	.70	.60
(8).....	25.00	25.00	16.00	25.00
(9).....	.05	.08	.06	.05
(10).....	1.50	1.50	1.60	1.40
(11).....	2.00	2.25	2.00	2.00
(12).....	3.50	4.00	4.00	3.50
(13).....	2.25	2.25	1.60	2.25
(14).....	3.00	3.00	2.00	3.00
(15).....	3.00	3.00	3.00	3.00
(16).....	100.00	150.00	100.00	50.00

COMPLETE BID LISTING

LYON COUNTY, Nevada—As previously reported, Nevada Rock & Sand Co., Inc., Reno, Nevada, at \$57,756.28 awarded contract by State Highway Department Carson City, for highway construction between Dayton and 9 mi. northeast, Route 2A, 9.28-mi., grading and gravel surfacing, involving:

- (1) 62,400 cu. yds. roadway excav.;
- (2) 55 acres clearing;
- (3) 41,512 sta. yds. overhaul;
- (4) 6087 cu. yds. select borrow;
- (5) 800 cu. yds. structural excav.;
- (6) 9.28 mi. subgrade;
- (7) 29,300 cu. yds. crushed gravel or stone;
- (8) 63 cu. yds. class "A" concrete;
- (9) 87 cu. yds. class "B" concrete;
- (10) 8825 lbs. reinf. steel;
- (11) 1 remove wooden structure;
- (12) 1220 lin. ft. 18-in. corr metal pipe
- (13) 382 lin. ft. 24-in. do;
- (14) 388 lin. ft. 36-in. do;
- (15) 266 lin. ft. 48-in. do;
- (16) 84 lin. ft. corr. metal siphon pipe, 24-in.;
- (17) 21 lin. ft. remove pipe culverts;
- (18) 56 monuments;
- (19) 9.28 mi. finish roadway;
- (20) 1016 lin. ft. remove fence;
- (21) 1099 lin. ft. construct fence.

- Complete bids follow:
- (A) Nevada Rock & Sand Co., \$57,756.28.
 - (B) Jack Casson, Hayward, Calif., \$58,453.04.
 - (C) Union Paving Co., S. F., \$58,953.82
 - (D) Engineer's Estimate, \$50,242.25.

	(A)	(B)	(C)	(D)
(1).....	\$.33	\$.33	\$.35	\$.27
(2).....	25.00	50.00	20.00	5.00
(3).....	.04	.02	.01	.02
(4).....	.35	.35	.50	.35
(5).....	1.00	1.00	1.00	1.00
(6).....	75.00	100.00	75.00	100.00
(7).....	.61	.60	.70	.60
(8).....	25.00	25.00	18.00	26.00
(9).....	25.00	25.00	16.00	25.00
(10).....	.08	.10	.06	.05
(11).....	25.00	25.00	100.00	50.00
(12).....	1.50	1.50	1.60	1.40
(13).....	2.25	2.00	2.00	2.00
(14).....	4.00	4.25	4.00	3.50
(15).....	6.50	6.50	6.00	6.00
(16).....	2.75	2.50	3.00	3.00
(17).....	.50	.50	1.00	.50
(18).....	3.00	4.00	3.00	3.00
(19).....	150.00	150.00	100.00	50.00
(20).....	.10	.10	.05	.06
(21).....	.25	.25	.10	.15
				23

DOUGLAS COUNTY, Nevada—As previously reported, Isbell Construction Co., Carson City, Nevada, at \$35,462.44 awarded contract by State Highway Department, Carson City, for highway construction between 5 mi. east of Holbrook and the East County Line, Route 3, Section A1, 5.62 mi. of grading and graveling, involving:

- (1) 30,500 cu. yds. roadway excav;
- (2) 8 acres clearing;
- (3) 49,727 sta. yds. overhaul;
- (4) 6749 cu. yds. selected borrow;
- (5) 750 cu. yds. structure excav;
- (6) 5.62 mi. subgrade;
- (7) 17,800 cu. yds. crushed gravel or stone;
- (8) 18 cu. yds. class "A" concrete;
- (9) 22 cu. yds. class "B" concrete;
- (10) 2400 lbs. reinf. steel;
- (11) 94 lin. ft. corr. metal pipe, 15-in.
- (12) 96 lin. ft. corr. metal pipe, 18-in.
- (13) 728 lin. ft. corr. metal pipe, 24-in.
- (14) 28 lin. ft. corr. metal pipe, 36-in.
- (15) 6 demolish culv. inlets and outlets;
- (16) 58 lin. ft. remove pipe culverts;
- (17) 96 lin. ft. remove and reset pipe culverts;
- (18) 43 pipe culvert extensions;
- (19) 130 cu. yds. riprap;
- (20) 75 monuments;

(21) 5.62 mi. finish roadway.
Complete bids follow:
(A) Isbell Constr. Co., \$35,462.44.
(B) Dodge Constr. Co., Inc., \$37,083.19.
(C) Engineer's Estimate \$30,752.19.

Unit bids follow:

	(A)	(B)	(C)
(1).....	\$.40	\$.47	\$.32
(2).....	15.00	10.00	10.00
(3).....	.02	.02	.02
(4).....	.40	.35	.35
(5).....	1.25	1.00	1.00
(6).....	100.00	100.00	100.00
(7).....	.75	.75	.65
(8).....	28.00	25.00	24.00
(9).....	28.00	25.00	22.00
(10).....	.06	.05	.05
(11).....	1.30	1.50	1.25
(12).....	1.40	2.00	1.50
(13).....	1.90	2.25	2.00
(14).....	3.50	4.00	3.50
(15).....	5.00	5.00	5.00
(16).....	1.00	.50	.50
(17).....	1.00	.75	.75
(18).....	7.00	8.00	20.00
(19).....	2.50	2.50	2.50
(20).....	3.00	3.00	3.00
(21).....	100.00	75.00	50.00

SAN FRANCISCO—Trans Bay Construction Co., Financial Center Bldg., San Francisco, at \$6,957,100.68 submitted low bid to State Department of Public Works San Francisco-Oakland Bay Bridge, to construct first five piers, substructures for the West Bay Crossing from San Francisco shoreline to Yerba Buena Island, involving:

Trans Bay Construction Co., composed of Chas. F. Swiger, President, Portland, Ore.; J. A. McEachern, Vice President, San Francisco; Chas. A. Shea, Secretary, Portland, Ore.; Felix Kahn Treasurer, San Francisco, and H. W. Morrison Boise Idaho.
Bridge Builders, Inc., 155 Sansome St., San Francisco, composed of Henry J. Kaiser, President; M. M. Upson, Vice President; C. W. Chapman, Secretary; S. D. Bechtel, Treasurer. Controlled by the stockholders of W. A. Bechtel, Kaiser Paving Co. and Warren Bros Co.

Silas Mason Co., Clift Hotel, San Francisco, composed of Sam A. Mason II President, 500 5th Ave., New York; H. Leslie Myers, Vice President, Clift Hotel, San Francisco; Allen W. Granger, Secretary, and W. A. Hanger, Treasurer, Richmond, Ky.

A fourth bid was submitted by Benj. Walters and Associates San Francisco; did not conform to requirements; no bond enclosed—bid thrown out. Amount, \$7,929,768.

- (1) 268,542 cu. yds. caisson work, Piers 3, 4, 5 and 6;
- (2) 10,000 cu. yds. additional caisson work Piers 3, 4, 5 and 6;
- (3) 55,000 cu. yds. concrete seal, Piers 3, 4, 5 and 6;
- (4) 21,400 cu. yds. concrete foundations, Pier 2;
- (5) 27,000 cu. yds. conc. pier shafts and fenders, Piers 2, 3, 5 and 6;
- (6) 60,500 cu. yds. superstructure, concrete, for Pier 4;
- (7) 3,800,000 lbs. reinf. steel above foundations;
- (8) 300,000 lbs. struc. steel above foundations;
- (9) 1,100 MFBM timber in fenders;
- (10) 450,000 lbs. metal work in fenders;
- (11) alterations to Harbor Pier 24;
- (12) 5000 bbls. extra Portland cement.

BIDS

- (A) Trans Bay Constr. Co., \$6,957,100.68.
- (B) Bridge Builders, Inc., San Francisco, \$7,278,014.00
- (C) Silas Mason Co. S. F., \$8,311,653.00.
- (D) Benj. Walters & Assoc. \$7,929,768.00.

Unit bids follow:

	(A)	(B)	(C)
(1).....	\$ 19.54	\$ 17.00	\$ 21.50
(2).....	15.00	25.00	25.00
(3).....	6.25	10.00	8.00
(4).....	9.35	17.00	15.00
(5).....	6.60	12.00	12.00
(6).....	7.00	12.00	12.00
(7).....	.0265	.04	.04
(8).....	.07	.07	.06
(9).....	63.00	100.00	100.00
(10).....	.085	.08	.08
(11).....	175,000.00	170,000.00	150,000.00
(12).....	2.00	2.00	2.20

SAN DIEGO RIVER BRIDGE—SAN DIEGO COUNTY

SAN DIEGO COUNTY, Cal.—B. O. Larsen, 1340 E St., San Diego, at \$99,683.05 submitted low bid March 1 to State Highway Commission, Sacramento, to construct a deck plate girder bridge with concrete decks across San Diego River in San Diego, consisting of eight 80-ft. spans on concrete piers and abutments with pile foundations, involving:

- (1) 3,200 cu. yds. struc. excav;
- (2) 13,020 lin. ft. furnish untreated Douglas fir piles, inc. test piles;
- (3) 735 lin. ft. furnish creosoted Douglas fir piles;
- (4) 455 drive creosoted and untreated Douglas fir piles, inc. test piles;
- (5) 1,360 lin. ft. reinf. concrete piles, including test piles;
- (6) 680 cu. yds. Class A cement concrete (footing blocks);

- (7) 2,175 cu. yds. Class A do (struc.);
- (8) 65 cu. yds. Class A do (slope paving);
- (9) 45 cu. yds. Class E Portland cement concrete;
- (10) 230,000 lbs. bar reinf. steel;
- (11) 984,000 lbs. struc. steel;
- (12) 25,200 lbs. cast steel;
- (13) 3.5 ft. h.m. creosoted Douglas fir timber (struc. grade);
- (14) 1,925 lin. ft. traffic stripe;
- (15) 1,305 lin. ft. curb stripe;
- (16) 1 lot misc. items of work.

See call for bids under official proposal section in this issue.
Complete bids follow:
(A) B. O. Larsen, San Diego, \$99,683.05.
(B) Frank Doran, San Diego, \$103,721.35.

- (C) Bodenhamer Const. Co., Oakland, \$104,942.40.
- (D) M. H. Golden, San Diego, \$109,562.46.
- (E) M. B. McGowan, San Francisco, \$109,574.00.
- (F) Walter Treptke, San Diego, \$109,820.15.
- (G) Weymouth Crowell Co., Pasadena, \$112,977.60.
- (H) Dimmitt & Taylor, Los Angeles, \$115,819.15.
- (I) Lynch-Cannon Engr. Co., Los Angeles, \$116,545.45.
- (J) W. E. Kier Const. Co., San Diego, \$117,192.50.
- (K) Oberg Bros., Los Angeles, \$120,808.35.
- (L) Merritt-Chapman - Scott Co., San Pedro, \$125,650.77.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)
(1).....	\$.40	\$.325	\$.200	\$.150	\$.300	\$.250	\$.270	\$.350	\$.500	\$.290	\$.430	\$.530
(2).....	.17	.18	.16	.273	.14	.175	.18	.19	.21	.20	.18	.181
(3).....	.55	.50	.45	.50	.43	.49	.53	.58	.65	.65	.50	.60
(4).....	5.00	8.00	7.00	17.00	13.00	9.90	5.80	8.00	10.00	8.25	12.20	11.77
(5).....	1.75	2.00	2.25	2.00	2.00	2.20	2.20	8.25	2.50	2.35	2.45	2.40
(6).....	10.00	9.00	8.30	8.20	6.50	9.00	6.80	8.50	10.00	10.00	9.30	8.40
(7).....	11.00	11.25	12.30	11.46	11.50	12.10	12.93	14.75	10.75	13.00	15.00	14.00
(8).....	10.00	8.00	10.00	10.20	9.00	10.00	10.00	10.00	7.50	9.00	11.50	14.50
(9).....	40.00	45.00	40.00	40.00	40.00	50.00	46.00	50.00	25.00	50.00	50.00	59.85
(10).....	.03	.027	.03	.0285	.03	.03	.029	.026	.03	.028	.283	.03
(11).....	.0476	.041	.0445	.0466	.045	.045	.0508	.0445	.0475	.048	.042	.046
(12).....	.08	.10	.10	.088	.10	.10	.0825	.085	.08	.10	.125	.096
(13).....	60.00	70.00	63.50	68.00	75.00	65.00	70.00	80.00	75.00	100.00	82.00	90.00
(14).....	.12	.10	.10	.12	.20	.15	.17	.12	.10	.18	.15	.13
(15).....	1.00	1.00	.70	1.00	1.20	1.25	.65	1.00	.75	1.50	1.00	1.40
(16).....	455.00	300.00	509.00	1020.00	1469.15	500.00	350.00	500.00	500.00	1125.00	640.00	500.00

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IN THIS ISSUE



PROBLEMS OF FACTORY-BUILT HOME MERCHANDISING

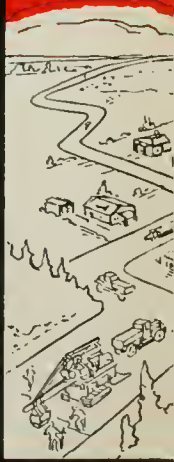
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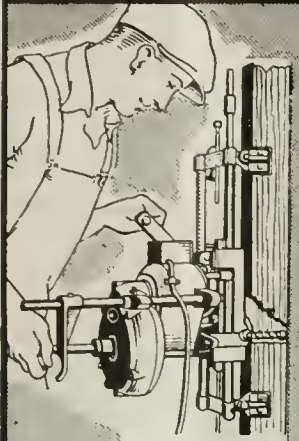
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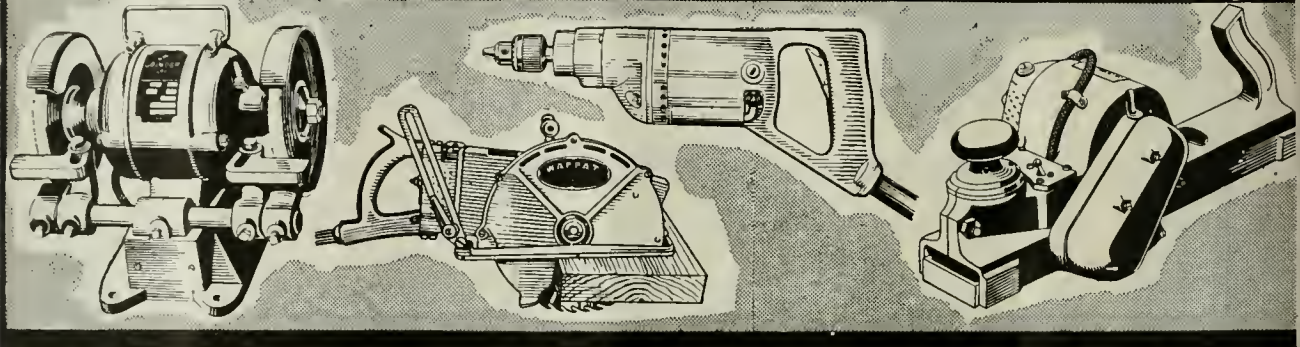
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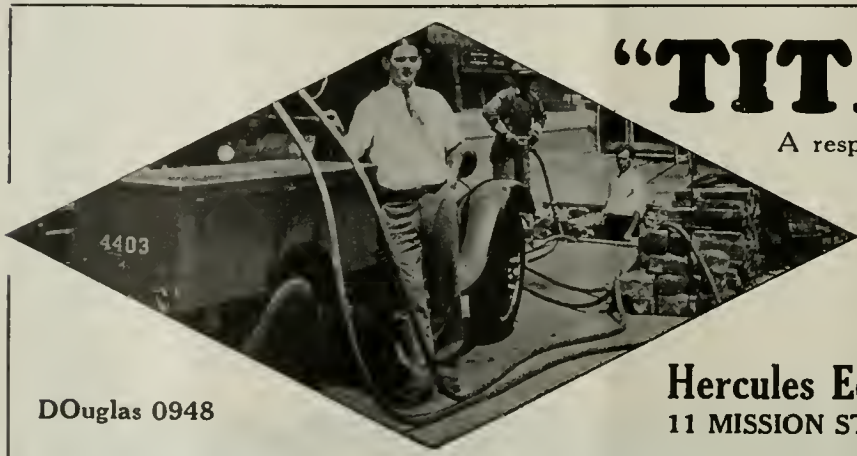
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SAM B. EUBANKS, Editor

Vol. 16.

SAN FRANCISCO, CALIF., MARCH 11, 1933

No 8

HOUSE EXHIBIT IS OPENED IN EASTBAY STORE

Architects Sponsor Display to
Encourage Home
Builders

Architects of the Eastbay are represented in an architects' exhibition of small houses, which has been opened at Breuner's Furniture Store, Oakland, and will continue until the end of the month.

Exhibits have been furnished by architects in Oakland, Berkeley, Alameda and Richmond.

Represented in the display are houses of various types of architectural design, ranging from \$4500 to \$7500 at present-day building costs. Details of floor plans and exteriors, as well as specifications and cost data, are shown.

The exhibition is being given under the auspices of the State Association of California Architects and the Alameda Society of Architects.

One of its main purposes is to stimulate interest in home building as a means of aiding employment, and to inform the public on the present-day low building costs. In addition to homes, there are exhibits showing recent examples by local architects of alterations and additions as applied to houses, store buildings and other types of structures.

During the exhibition talks will be given by several speakers. Among these are Harris Allen, president of the State Association of California Architects; Howard Gilkey, landscape architect; Franklin Blair and Carl S. Replogle.

The list of Eastbay architects represented includes Russell G. de Lappe, George Ellinger, Hardman & Russ, Angelo Hewetson, Charles W. McCall, Miller & Warnecke, James T. Narbett, Gwynn Officer, Wm. E. Schirmer, George Simonds, Edwin L. Snyder, Chester Treichel, Wm. Rich, Williams & Wastell, W. R. Yelland and Arthur Cobblestick, landscape architect.

Carl I. Warnecke is chairman of the exhibition committee.

OFFICES MOVED

De Laval Steam Turbine Company has moved its district offices to the Rialto Building. The company formerly was located at 61 Beale st.

THE WEEK'S NEWS

Highlights

BAY BRIDGE BIDS: Bids were opened Tues. and Wednes. for more than \$27,000,000 worth of work on the San Francisco-Oakland Bay Bridge. Low bids were: Columbia Steel Corp., for West Bay superstructure at \$13,732,471.80 and East Bay superstructure at \$8,798,096; Bridge Builders, Inc., at \$4,495,854 for East Bay substructure. (Complete report of bids received is included in the Engineering Section).

Time for receiving bids on two other contracts was extended until March 28 and March 29 in order to enable prospective bidders to arrange financing. These are for the San Francisco anchorage, estimated at \$1,700,000 and the Yerba Buena Island crossing at \$2,500,000.

Openings thus far have each shown the bid price to be substantially below the engineer's estimate, Chief Engineer C. H. Purcell announced. Saving over original figures on contracts to date is \$7,580,890, and indicates that the entire bridge structure will be completed at a cost of \$53,670,802, Purcell said. This figure is for structural costs alone and does not include interest, insurance, or contingency allowance.

SAN FRANCISCO JAIL: Department of Public Works set March 29 as date for opening bids on San Francisco county jail to be built at Sneath Ranch site, San Mateo county. Appropriation \$490,000. (See Building News Section.)

EXCHANGE ELECTIONS: Oakland Builders' Exchange will hold its annual meeting and election of directors, Monday, March 13; San Francisco, March 20.

PROGRAM IS SET FOR BUILDERS' EXCHANGE MEET

Two-Day Annual Convention
In Los Angeles on
March 17-18

The program for the annual convention of the State Builders' Exchange to be held in Los Angeles March 17 and 18 was announced yesterday.

Preceding the convention a banquet for the construction industry has been arranged by the industry committee of the Los Angeles chamber of commerce. Delegates to the convention are invited to attend the banquet which will be held Thursday night, March 16.

Reservations should be made with Louis R. Ball, executive secretary of the Los Angeles Builders' Exchange.

The banquet is sponsored by the American Institute of Architects, Associated General Contractors, Builders' Exchange, Merchant Plumbers Association, Structural Engineers Association, Electric Club, Electrical Contractors and Dealers Association and Contracting Plasterers Association.

Following is the program for the two-day session:

FRIDAY, MARCH 17th

Registration: Lobby of the Alexandria, 8:00 A. M. Friday.

Business and Committee: Ball room and Committee rooms, 9:30 A. M., until noon. Two hour intermission for luncheon as you will. Ball room and Committee rooms, 2:00 P. M. to 5:00 P. M. Friday evening, Paris Inn, 210 East Market Street.

Speaker: Lynn Atkinson, President of the Southern California Chapter of Associated General Contractors of America, will speak at the opening business session on Friday.

SATURDAY, March 18th

Business and Committee: Ball room and Committee rooms of the Alexandria from 9:30 A. M. until noon. The afternoon as you will. Saturday evening, 6:30 P. M. at The Alexandria: banquet, entertainment, dancing.

Speaker: Sylvester Weaver, Past President of the Los Angeles Chamber of Commerce, will speak at the business session on Saturday.

Special events have been arranged for the entertainment of wives of delegates, including visits to the motion picture studios and other points of interest.

SEASON UPTREND IN CONSTRUCTION DUE THIS MONTH

U. S. Study Shows Normal Gain of One-third During March

If 1933 construction follows the seasonal trend as indicated by the 1929 Census of Construction, now being issued by the U. S. Department of Commerce, by April a one-third increase in construction may be expected over February, and in May an advance of 12 percent over April, with June and July increasing each over the preceding month up to August and September, the construction peak months of the year. In other words, according to American Forest Products Industries, construction will soon enter its best six months of the year—a fact to be taken into account in business forecasts.

Contrary to general belief, the late summer and not the spring is the big building season of the year, although the increase from March to April in building employment is greater than between any other two months.

In 1924 the President's Conference on Unemployment surveyed the subject of seasonal operation in the construction industry and stressed the fact that bad weather was not the principal cause of seasonal idleness, but fixed customs in the building trades. It concluded that for most types of construction it is possible to build the year round in all parts of the United States. The 1929 Construction Census indicates that progress has been made toward greater stability in employment from month to month in the construction industry, despite the persistence of a distinct seasonal trend in all lines of construction activity in 1929. Seasonal fluctuation is apparently not so pronounced as it was ten years ago when (in 1922) the monthly employment of building labor was about 45 percent in January of what it was in July.

In 1929, building employment under contractors and builders was 59 percent in January of what it was in August and residential building was 56 percent of what it was in its peak month, or June.

The Construction Census also shows that in highway, bridge and culvert work, August and September employed more men in 1929 than any other months of the year; October and November for dredging; and July and August for carpentering under sub-contractors. In each case, January and February employment is the lowest of the year. These classes of construction took more lumber than did any other types in 1929, except building into which went 75 percent of all lumber used in construction under contractors and builders.

Of all construction covered by the 1929 Construction Census, for which nearly 150,000 establishments of contractors and builders reported, 30,597 establishments each

PITTSBURGH FIRM LOW ON DOCK BID

SPECIAL TO DAILY PACIFIC BUILDER
WASHINGTON, D. C., Mar. 8.
—Dravo Contracting Co., Pittsburgh, submitted the low bid for construction of a steel floating dock at the San Diego Naval Base. The bid was \$278,200. Second low bid was submitted by Puse & Jones Corp., Wilmington, Del., at \$359,860.

The dock is to be 393 ft. long, having a 50-foot beam. To include oil engine generator, pumps, piping and electric power and light system.

Bids were received by the Bureau of Yards and Docks, Navy Department.

STOCKTON EXCHANGE ELECTS DIRECTORS

Directors for the new year have been elected by the Stockton Builders' Exchange.

The new board includes: John Pengelly, president; Rollie Goold, A. Sandberg, J. C. McIntosh, A. F. Acker, R. A. Forbes, W. E. Bruce, W. T. Gibson, L. S. Peletz, E. M. Lewis and W. J. Scott.

The Exchange unanimously voted to adopt the Sacramento plan for eliminating bid-peddling to govern all contracts over \$5000. A committee consisting of L. S. Peletz, E. M. Lewis and W. J. Scott has been appointed to make the plan effective.

Support of the present contractors' license law was voted in a resolution adopted by the members.

S. F. FIRM SUES TO VOID AWARDS

Suit to restrain the Sacramento board of education from proceeding with three contracts awarded on the new Kit Carson junior high school has been filed on behalf of the Alta Electrical and Mechanical Company of San Francisco.

The action is brought in the name of Fred J. Harris, Sacramento taxpayer.

It asks that the district be enjoined from letting contracts for plumbing to Hately and Hately; heating and ventilating to Carpenter and Mendenhall; electrical work to George C. Foss. Alta Electric contends that its combination bid on these three contracts was \$2,155 lower than the total bids of the three firms receiving the contracts.

In contemplation of possible acquisition of a municipal water system the Se'ma city council has applied to the San Joaquin Light and Power Corporation for an estimate on the value of the local water system.

doing an annual business of more than \$25,000, showed \$28,772 as the average number of wage-earners employed, \$1,467,541,901 as the amount of wages paid; \$2,055,595,482 as cost of materials and \$4,794,772,665 as the value of all construction work done.

U. C. INSTALLS CEMENT KILNS FOR TEST WORK

Rotary Units For Experiments With Materials Added To Equipment

As a further aid in the experimental work of the University of California Engineering Materials Laboratory, two rotary cement kilns are being installed in the courtyard of the testing laboratory on the Berkeley campus and will be ready for use about March 1.

This announcement was made by Professor R. E. Davis on the eve of his departure for Chicago to attend the annual convention of the American Concrete Institute and a meeting of the committee on mortars for unit masonry of the American Society for Testing Materials.

Because one of the kilns is unique in type Professor Davis may report on it while attending the Chicago meetings. He will also confer with representatives of the U. S. Bureau of Reclamation in Denver, and speak before the central Illinois section of the American Society of Civil Engineers in Chicago.

The new kilns are of rotary type, consisting of steel tubes 30 inches in diameter and 30 feet long. The kilns are arranged on a slope so that the lower end of one will feed into the top end of the other. The upper kiln will be used for burning cement clinkers from clay and calcium oxide, while the lower kiln will be used for experimental handling of the clinkers after burning. This is the first kiln ever built which permits heat-treatment of clinkers in an atmosphere having either a deficiency or an excess of oxygen. It is expected that this apparatus will enable the University to extend cement research into the field of clinker-cooling.

The kilns will be rotated by a direct drive from electric motors, at a speed of from one-half to ten revolutions per minute. Natural gas is to be used as a fuel and the apparatus is designed to reach temperatures of 3000 degrees Fahrenheit.

WATER DISTRICT WILL PURCHASE IN OPEN MARKET

Los Angeles Metropolitan Water District will purchase certain items of used equipment and materials in the open market without calling for bids, Chief Engineer F. E. Weymouth has announced.

The board of directors has authorized Weymouth to obtain prices on second-hand equipment needed for construction of the Coachella tunnels, a portion of the aqueduct which is being done under force account.

Condition of the market which enables the district to obtain satisfactory machinery and materials at a price more favorable than by advertising for bids on new.

A. G. C. URGES REVENUE BOND ACT EXTENSION

State Should Prepare To Obtain R. F. C. Credit for Municipalities

In order that the State of California may take full advantage of any liberalization of loan policies approved by the Reconstruction Finance Corporation the state legislature was memorialized by the Associated General Contractors of America of their Northern California Chapter meeting Friday to bring municipal waterworks, dams and sewage disposal systems under provisions of the revenue bond act.

Many such municipal projects now planned would proceed if financing could be obtained through R. F. C. loans, George Pollock, president of the Chapter, asserted. Work of this character does not now come within the scope of R. F. C. loans because it must be financed through taxation in this state, Pollock pointed out. In anticipation of a more liberal attitude of the R.F.C. directors toward self-liquidating construction work the state legislature should remove any legal obstacles that might delay California municipalities from obtaining full benefits, said Pollock.

Bills are now pending in the senate and assembly to enable issuance of revenue bonds for municipal construction. These measures were endorsed by the Associated General Contractors.

The association adopted a resolution opposing Assembly Bill 878 which establishes a state unemployment insurance system. The effect of such legislation at this time would be to increase unemployment, reduce wages and increase the tax burden of business, the officers of the chapter declared.

The legislature is urged to defer action on this measure until a thorough investigation can be made by employers.

Colonel Charles R. Gow, president of Warren Brothers, nationally known contractors and among the firms bidding on bay bridge contracts, was the speaker of the evening. W. A. Bechtel, president of Six Companies, Inc., contractors on the Boulder Dam, and Henry J. Kaiser, also an executive of Six Companies, and former national president of the Associated General Contractors of America, were present.

Colonel Gow predicted an early recovery of construction from its present low levels.

"I am confident that we are going to come out of this period of depression to an era that will be as prosperous as any we have known," Colonel Gow declared. "The return to prosperity is apt to be very rapid when the movement gets underway, six months or a year even may show a complete change. I would not advise any business man to plan a program for the next year or two without anticipating a substantial increase in price levels."

Warren Brothers Company, of which Colonel Gow is president, is associated with others in Bridge Builders, Inc., bidders on the Golden Gate and San Francisco-Oakland bay bridge work.

The chapter meeting followed dinner at the Engineer's Club, which was attended by more than a hundred executives of Northern California manufacturing and construction companies. It was arranged to coincide with the bidding on bay bridge contracts which have attracted many nationally famous engineers and contractors to San Francisco. Among them are members of various Eastern chapters of the Associated General Contractors who were guests of honor of the local organization.

EASTBAY STEEL PLANT RENOVATED

The Alameda plant of the Bethlehem Shipbuilding Corporation is being renovated and will be used for storage of material manufactured for the Golden Gate bridge, according to E. F. Gohl, Pacific coast manager.

While no plans have been made for reopening the plant except for storage purposes, Gohl said the company might have a further announcement to make in the future.

CONVICT TWO FOR VIOLATING ENGINEERS' ACT

Suspended Sentences Given For Practicing Without Licenses

Two convictions for violations of the Civil Engineers' Registration Act during February are reported by H. M. Jones, secretary of the state board.

According to the board report, Preston M. Jones, Los Angeles, pleaded guilty in municipal court to having prepared plans for the J. C. Penny company store in Riverside after his registration certificate had lapsed. He was given a suspended sentence of thirty days in jail upon condition that he renew his certificate before resuming practice.

Verne Ostendorf of Colton received a suspended sentence from a justice of the peace at Compton for practicing without a license. The complaint was preferred after Ostendorf had assumed charge of design and construction of the Compton dog racing track.

MacDonald Asks Registrar to Revoke License for Violation of Wage Law

Revocation of a contractor's state license is asked by Frank C. MacDonald, state labor commissioner, in a complaint filed with the registrar of contractors against M. B. Wood, tile and brick contractor on the science building of the San Jose State College.

Penalties of \$300 have been assessed against Wood for alleged violations of the prevailing wage law.

The request to withhold \$300 due on the contract was forwarded to the State Division of Architecture by MacDonald after seven employees had testified that they received from \$1 to \$5 per day less than the scale specified for bricklayers, tile setters and hod carriers.

Evidence was produced at the hearing held at San Francisco, the commissioner stated, which showed that the receipts signed by the men for their weekly wages were altered later to show payments at the prevailing rate.

"This sort of falsification of records to the injury of the contractor on the job as well as the workmen will not be tolerated," MacDonald declared, "and whenever we find any evidence of it we shall call such evidence to the attention of the Registrar of Contractors, who has offered to cooperate with us to the fullest extent in our efforts to uniformly and fairly enforce the Prevailing Rate Law on Public Work.

"We have this month assessed

penalties totaling \$8,720.00 in our drive to enforce this law, and with our new policy of reporting all flagrant violations to the Registrar of Contractors for summary action under the power granted to him to revoke licenses of contractors and subcontractors who flagrantly violate any of the labor laws of the state, we hope to effectively stop violations of this law to the extent that no contractor will undertake to bid on a public job with the intention of cutting the legal wage rate which is binding on his competitors.

"In this particular case the general contractor on the job paid the prevailing rate and was led to believe by the altered payrolls submitted to him that his subcontractor was doing the same. When he learned that this was not the case he made up the difference to the men employed by the subcontractor and has fully cooperated with our office in every way.

"The penalties are against the subcontractor solely, as are the proceedings before the Registrar of Contractors, which proceedings will be pressed as an object lesson to others engaged in this glaringly unfair practice of securing rebates from the men by means of altered payrolls.

"We are secretly investigating a number of other similar cases and will take similar action against the contractors or subcontractors involved if the evidence warrants."

\$500,000 BANK CREDIT CREATED FOR REMODELING

**District of Columbia Financiers
To Cooperate With
Home Owners**

A carefully planned home repair and remodeling campaign is now under way in Washington, D. C., through the enlisted support of leading business, civic, and other interested local organizations. The main objectives are the increase of employment among building trades workers, stimulation of business, and stabilization of home property values.

The active participation of the District of Columbia Bankers Association, which has created a \$500,000 credit pool for the granting of small loans to home owners for desirable home improvements and repairs, should greatly assist in developing effective results. It is hoped to liberalize loan regulations so that the worthy small property owner may more easily finance home repairs and remodeling work.

Another constructive feature of the campaign is the plan of placing a dilapidated small house on a prominent down town site where it is to be completely remodeled and equipped under the supervision of local architects, in plain public view from day to day. Figures showing actual cost of the work as it progresses will be made public as a guide to home owners, and a public information booth where details on remodeling and home repairs may be secured will be erected near this house.

Reports received by the Department of Commerce Home Modernizing Committee show that during 1932, 144 cities conducted organized home improvement and repair work campaigns of various types. Of this group 81 reported expenditures by property owners for labor and materials of approximately 70 million dollars.

The value of conducting educational home improvement campaigns has impressed local leaders in many cities and towns over the country. A number of business leaders predict that replacement business, including the smaller projects involving home repairs and modernizing, will form an important part of the business program for 1933.

A careful study of successful community home improvement campaigns has been made during the past two years by the Home Modernizing Committee, chiefly to make available the best methods which have been employed in various cities, to other interested communities. This Committee, which is composed of a voluntary membership of 17 representative housing experts, functions as an advisory committee of the Division of Building and Housing of the Bureau of Standards, and has available on request details of methods which have been used in these various

OPEN S. F. JAIL BIDS MARCH 29

The San Francisco county jail general contract was ordered advertised for bids yesterday by the department of public works. Bids are to be opened March 29.

Estimated cost of the jail building is \$490,000. It will be located on the Sneath ranch, San Mateo county. The contract is for construction of a seven-story building designed for men's quarters and a two-story building for women's quarters.

Albert F. Roller, Crocker Bank Bldg., is architect. Dodge A. Reidy, Pacific Bldg., is associate architect and H. J. Brunner, Sharon Bldg., structural engineer.

S. F. THIRD IN PERMIT TOTALS

**Los Angeles Leads Coast
Cities; Nine Above
\$100,000 Mark**

Los Angeles with building permits in February virtually unchanged from the volume reported in January, lead all cities on the Pacific Coast, according to the monthly building permit survey prepared by S. W. Straus & Co. Sacramento advanced from third to second rank and likewise maintained its high degree of building activity.

San Francisco, which during previous months had been materially aided by the issuance of permits for the construction of the Golden Gate Bridge, ranked third in total volume. It was followed by Santa Barbara, Ogden, Utah, Los Angeles, Oakland, Beverly Hills and Portland, Oregon, all of which reported more than \$100,000 in permits issued during February.

While total building permits for the twenty-five leading cities dropped materially in February, 1933, from January, 1933, due to the absence of unusually large volume reported by San Francisco in previous months, more than half of the cities reported increases over January, 1933, and seven showed gains over the corresponding month of 1932. Those cities reporting increases in February, 1933, over January, 1933, were Sacramento, Santa Barbara, Ogden, Oakland, Beverly Hills, Portland, Vernon, Palo Alto, San Mateo, Fresno, Tacoma, Alhambra, Riverside and Pomona. Cities reporting gains in February, 1933, over February, 1932 were Sacramento, Santa Barbara, Ogden, Vernon, San Mateo, Riverside and Pomona.

Total volume of building permits in February, 1933, was \$3,030,645, compared with \$16,699,819 in January, 1933, and \$6,154,881 in February, 1932.

home repair and remodeling campaigns as well as information of interest to individual home owners.

FACTORY-BUILT HOMES URGED BY ARCHITECTS

**Institute Endorses Large-Scale
Production to Lower
Costs**

Mass production of small houses in factories is urged by the American Institute of Architects as a necessary measure to reduce housing costs and eliminate all wasteful and uneconomic features in construction.

In a resolution adopted by the Board of Directors of the Institute, it is pointed out that the importance of lower building costs is overshadowed only by the maintenance of the character of the American home. The Institute warns of the dangers of overstandardization and asserts that builders also have "the larger duty of making the home of the American citizen expressive of all the qualities that his citizenship implies."

By its action the Institute recognizes the need for factory production of small houses and considers the effect of such a development on the architecture in the United States. The resolution, however, calls attention to the latent possibility that the individuality and character of American houses may be obliterated and urges the utmost caution in proceeding with mass production in housing along lines similar to those laid down for the automobile industry.

"The Board of Directors of the American Institute of Architects recognizes fully the absolute necessity of the elimination of all waste and uneconomic features in the production of small houses for the purpose of reducing costs," the resolution said. "Therefore, the Board recognizes and commends proposals for mass or factory production of small houses.

"Nevertheless, attention is called to the danger of obliterating the individuality and character of the house, which is the home of the American family, and to the resultant effect upon the character of the family whose home it is.

"While cost is an important factor in home building, it must certainly be subservient to the larger duty of making the home of the American citizen expressive of all the qualities that his citizenship implies."

SET ROAD SCALE

The following pay scale for county road work in all supervisory districts of Glenn county has been approved by the board of supervisors:

Truck drivers, \$3:50; 30 Caterpillar tractor drivers, \$4; one-man motor control grader drivers, \$4; grader men, \$4; common labor, \$3; carpenters, \$4; concrete men, \$4; jack hammer and air compressor men, \$4; man with team and wagon, \$4; inspectors of roads and bridges, \$6; 1 horse, 50c; 1 wagon, 50c; 1 fresno scraper, 50c.

SMITH-EMERY CO. WILL INSPECT BRIDGE MATERIAL

Golden Gate District to Have Supplementary Inspection Bureau

Directors of the Golden Gate Bridge and Highway District yesterday adopted a two-fold plan for Western inspection of the materials for the \$35,000,000 project.

On recommendation of Manager James Reed, all cement and reinforcing steel will be inspected by Smith-Emery and Company of San Francisco, at two cents per barrel for cement and twenty-five cents per ton for reinforcing bars. Inspection will be done at the mills, and will include physical and chemical tests.

Mixed concrete and aggregates will be inspected by a bureau to be organized by the bridge district, under the direction of Chief Engineer Strauss. A force of thirty-five men will test material at the quarries.

The Smith-Emery offer was the lowest of five close bids. Other proposals were submitted by Robt. W. Hunt Co., San Francisco Inspection Bureau, John G. Little Co. and Pacific Engineering Laboratories.

Selection of the district's thirty-five inspectors was in progress today, though Reed announced that not more than six men would be required in the immediate future. A committee composed of N. D. Cook, manager of the National Association of Engineers, Prof. G. J. Sullivan, dean of the Engineering School of Santa Clara University, and Prof. Paul E. Holden of the Stanford Graduate School of Engineering, had under consideration a list of more than seven hundred applicants.

A requirement that inspectors must be residents of the bridge and highway district was laid down by the committee.

Contract awarded to Eaton and Smith for construction of the Presidio approach was still unsigned today as directors awaited word from the War Department approving the City Planning Commission's proposed new approach route, selected when Marina residents protested the Marina Boulevard approach.

The directors at their meeting yesterday approved initial bills of contractors, and it was announced that the Bank of America would honor bridge district warrants despite the bank holiday.

Heading the list were bills from the McClintic Marshall Co. for fabricating steel now en route here, amounting to \$15,162, and from Barrett and Hilp for excavation to date at \$13,651.

OPEN BRANCH

Incandescent Supply Company, wholesale electrical fixture and supply firm, has opened a San Joaquin valley branch in Fresno. Melvin J. Blessing of San Francisco has been appointed district manager.

Alteration Work Shows Percentage Gain In San Francisco Permits for February

San Francisco building permits for February total \$322,657, according to the report of Building Inspector John B. Leonard.

The second month's figures including estimated value of 319 permits, of which 268 are for alterations. The alterations represent \$147,785, or nearly half of the total

value, a significant indication of the trend toward remodeling and repairing of old structures.

In number of permits issued and dollar value the alteration work compares favorably with February of last year.

Following are the classifications and totals:

Classification	February, 1933	Feb., 1932
A	1 \$ 800	\$
B .....	.....	.....
C	8 18,400	4 11,000
Frames	39 132,835	131 534,085
Alterations	268 147,785	374 191,491
Public Buildings	1 3,737	5 299,700
U. S. Government	2 19,100	2 145,600
Total	319 \$ 322,657	516 \$1,181,876
First 2 months of year.....	591 \$14,880,212	887 \$1,788,025

Cypress Lawn Memorial Park

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San Francisco, Calif.

Profitable Volume of Business is Unsolved Prob. of Factory-Built Home Merchandising, Asserts Spokesman for Lumber Industry

By C. E. Close,

American Forest Prod. Industries

Low cost housing is basically an economic problem whether it be single detached units or large scale multiple units.

Low cost housing can only be the result of cheap land, low cost building and favorable financing.

There has been and there will be a widespread and continued interest in the subject of housing by realization of the fact that it is the one field of construction in which there has been no overbuilding.

To prosper, housing must give more dollar value. Those interests providing housing or housing materials that give greatest dollar value will fare best. Dollar value in housing is not merely low initial cost but long life and low up-keep as well.

Inter-industry competition is an increasingly serious matter to all men in business. The fewer the consumer dollars the more serious it becomes.

An opinion is held and publicized that people get more dollar value in food, clothing, automobiles, radio, refrigeration, recreation, etc., than in housing. This militates against home ownership.

Only half the cost of a home is in labor and materials. If labor and material cost of a house that now sells for \$6400 can be reduced 50 percent the house would still have to sell for \$4000 unless we at the same time cut down the cost of those other elements of cost which are usually ignored—land cost, cost of improvements and utilities, sales cost and profits.

The building industry can furnish lower cost houses but this does not mean housing at much lower cost unless the factors I have mentioned are reduced proportionately.

It is held that dollar value has not been received largely because the house building industry has retained its traditional materials and construction methods, which do not allow to any extent mass production, factory supervision and control.

We hear this is a machine age. Machines produce more quickly, more accurately and cheaper than hand craft production. To secure these advantages it is generally recommended:

1. That prospective home owners be offered a standardized structure, adapted to the needs of the greatest numbers.

2. That materials be cut to length and/or shape to a greater extent than is now customary before being taken to the job.

3. That materials and equipment be assembled under factory conditions into convenient panels or sections which can be transported to

the job and assembled by hand or lifted to place with a small crane.

4. That complete small houses or assemblies of one or more rooms be built under factory conditions and trucked to the site to be there assembled into a finished structure.

Other large groups further demand that a radically new type of architectural treatment be adopted in combination with materials heretofore not generally employed for house construction and that a system of distribution and financing be set up for such structures which will by-pass the existing dealers in building supply materials.

Careful estimates (based on present population indicate there are about 250,000 new dwellings annually susceptible to standardized production.

If we divide 250,000 by 300 working days we have a production of 833 houses a day for the entire country.

A modern automobile plant can produce thousands of cars in a single day. Ask yourself if the production of 833 houses per day warrants the building of giant industrial organizations and the making of expensive machinery that mass production entails.

The U. S. Steel Corporation reports, despite the large amount of publicity which has been given the steel house that the American public does not want standardized houses. The report finds "the American owner insists on individuality in arrangement and appearance," and again "no proprietary system of steel panel units so far presented, either for framing or filling, contains features of outstanding merit.

"No proprietary system of construction having sufficient merit to be considered ideal has yet been developed, but it is possible that a satisfactory unit system may be evolved by its many investigators."

The way to cheaper housing is not through more machinery but less. A prevalent and common idea among some architects who profess to be modern seems to be we must be different at all costs. You have noted the absurdities presented by many designs shown in the professional and non-professional press which are considered epoch making.

Of the eight houses which will constitute the Housing Group at the Century of Progress exposition there will be only one with a sloping roof—The Lumber Industries house.

We refused to accept a flat roof, and only a flat roof, as authority for calling a house "modern."

We refuse to abandon a type of roof construction that is more economical to frame with our material than with other materials when radical changes are sought just because of this condition.

Undoubtedly we face changing conditions beyond control of any one group, which will greatly influence trends in the field of small housing. It seems to us that our job is to plan and produce the small house that Americans want with costs lowered by better planning and build with crafts and wage standards and distribution channels unimpaired.

Solely for the purpose of stimulating constructive thought on this problem and to indicate possibilities in several directions by the various units comprising the Lumber and Wood Using Industries, we have developed five types of small houses to be erected at costs ranging from \$1800 to \$4000, and to meet varying service conditions dependent upon climatic, transportation, fabricating, and distribution features, any one of which may readily dominate the actual construction.

OPEN S. F. BRANCH

J. D. Adams Co., manufacturers of road building machinery and tractors, with headquarters in Indianapolis has established a branch office and warehouse in San Francisco, at 230 Utah Street. Territory covered from this new branch includes Southern Oregon, California and Nevada. D. E. Hoffman is district manager.

Move More Dirt Faster with LE TOURNEAU Equipment

A complete line of grading machinery—designed by a contractor—developed on actual construction jobs—built to stand continuous use under the worst conditions.

ENGINEER'S CONSULTATION FREE

R. G. LE TOURNEAU, INC.

Wilson Way at Roosevelt

Stockton, Calif.

PERMITS AND CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
119	George	Hummer	1000
120	Kanes	Mullen	2800
121	Peterson	Johanson	7000
122	Ran	Owner	1500
123	Crocker	Wagner	1500
124	Walsh	Owner	1000
125	Piatanesi	Ferreri	6000
126	Harrison	Bothe	1450
127	Fisher	Owner	2500
128	Klumpkey	Thulin	1000
128	R C Archbishop	Coburn	2000
130	Emporium	Owner	2000
131	Giorado	Owner	2650
132	Blum	Owner	2560

ALTERATIONS
 (119) 1307 ALABAMA ST. Alter dwelling.
 Owner—S. George, 1307 Alabama St., San Francisco.
 Architect—Not Given.
 Contractor—W. Hummer, 5811 Mission St., San Francisco. \$1000

ALTERATIONS
 (120) NO. 30 THIRD ST. Alter restaurant.
 Owner — Kane's Log Cabin, 34 Third St., San Francisco.
 Architect—Not Given.
 Contractor—Mullen Mfg. Co., 60 Rausch St., San Francisco. \$2300

FLATS
 (121) E RETIRO WAY 150 N Beach St. Two-story and basement frame (2) flats.
 Owner—G. L. Peterson, 12 Montezuma St., San Francisco.
 Plans by O. L. Berg, 675 Corbett Ave., San Francisco.
 Contractor—E. E. Johanson, 414 Missouri St., San Francisco. \$7000

ALTERATIONS
 (122) NO. 232-34-36 FIFTH ST. Alter store.
 Owner — S. Ran, 234 Fifth St., San Francisco.
 Architect—Not Given. \$1500

ALTERATIONS
 (123) NO. 1918-1920 HAYES ST. Alter store front.
 Owner—Crocker First Federal Trust Co., Post & Montgomery Sts., San Francisco.
 Architect—Not Given.
 Contractor — G. Wagner, 181 South Park, San Francisco. \$1500

FLATS
 (124) SE VISITACION AND BAYSHORE. Two-story and basement frame (2) flats.
 Owner—Mrs. A. Walsh, 7 Teddy Ave., San Francisco.
 Architect—Not Given. \$1000

FATS
 (125) NE LEAVENWORTH AND D GLOVER STS. Two-story and basement frame (2) flats.
 Owner — C. Piatanesi, 3056 Webster St., San Francisco.
 Plans by Owner.
 Contractor—G. Ferrari & Sons, 1366 Filbert St., San Francisco. \$6000

ALTERATIONS
 (126) NO. 606 CLEMENT ST. Alter store.
 Owner—C. B. Harrison, Premises.
 Architect—Not Given.
 Contractor—John Bothe, 246 Parker Ave., San Francisco. \$1450

DWELLING
 (127) W TWENTY-NINTH AVE. 75 N Anza St. Two-story and basement frame dwelling.

Owner—F. C. Fisher, 169 11th Ave., San Francisco.
 Architect—Not Given. \$2500

ALTERATIONS
 (128) NO. 3239-3241 TWENTY-SECOND ST. Alter stores.
 Owner—Klumpkey Estate, 63 Brady St., San Francisco.
 Architect—Not Given.
 Contractor—A. L. Thulin, 63 Brady St., San Francisco. \$1000

REPAIRS
 (129) 301 RAYMOND AVE. Repair fire damage to church.
 Owner — Roman Catholic Archbishop of San Francisco, % Contractor.
 Architect—Not Given.
 Contractor—I. W. Coburn, 2048 Market St., San Francisco. \$2000

ALTERATIONS
 (130) NO. 835-865 MARKET ST. Alter store.
 Owner — The Emporium, 835 Market St., San Francisco.
 Architect—Not Given. \$2000

DWELLING
 (131) W RUTLAND 200 S Visitacion. One-story and basement frame dwelling.
 Owner—G. Gioardo, 938 Rutland St., San Francisco.
 Architect—Not Given. \$2650

DWELLING
 (132) S HALE 225 W Merrill St. One-story and basement frame dwelling.
 Owner—J. Blum, 212 Silliman St., San Francisco.
 Architect—Not Given. \$2500

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
66	Morgan	Kerber	2000
67	Caggeshall	Rose	5885

ALTERATIONS
 (66) NO. 2050 UNIVERSITY AVE., BERKELEY. Alterations.
 Owner — R. J. Morgan, 928 Romona Ave., Albany.
 Architect—Not Given.
 Contractor—S. C. Kerber. \$2000

LIBRARY
 (67) NO. 1934 PARK BLVD., OAKLAND. One-story brick library.
 Owner—Lalph Caggeshall, 1127 Chatham Road, Oakland.
 Architect — Ray Keefer, 770 Wesley Ave., Oakland.
 Contractor — Mervin P. Rose, 6329 Shattuck Ave., Oakland. \$5885

DWELLING
 (68) NO. 2625 OTIS DRIVE., ALAMEDA. One-story 6-room dwelling
 Owner—C. A. Mehrtens, 1536 Webster St., Oakland.
 Architect—Not Given.
 Contractor — P. Royal Haulman, 1243 Broadway, Oakland. \$3600

ALTERATIONS
 (69) NO. 1201 SECOND ST., BERKELEY. Alterations.
 Owner—E. M. Bullard, 535 Liberty St., El Cerrito.
 Architect—Not Given. \$1000

STORES
 (70) NO. 3246 - 50 - 52 LAKESHORE AVE., OAKLAND. One-story brick stores.
 Owner—D. H. Murnik.
 Architect—Miller & Warnecke, Financial Center Bldg., Oakland.
 Contractor—The John J. Moore Co., 511 Robert St., Oakland. \$6381

ALTERATIONS
 (71) 1441 FRANKLIN ST., OAKLAND alterations.
 Owner—University Club of Alameda County, corner of Jackson and Lake Sts., Oakland.
 Architect—J. L. Minchin, 954 12th St., Oakland.
 Contractor—Geo. Swanstrom, 1615 78th Ave., Oakland. \$3200

BUILDING CONTRACTS

No.	Owner	Contractor	Amt.
21	U. S. Govt.	Lindgren	21079
25	War Memorial	Lawson	2375

BUILDING
 (24) NW SEVENTH and Mission N 45 deg 08 min 09 sec E 325 N 44 deg 51 min 51 sec W 350 to East Stevenson S 45 deg 08 min 09 sec W 325 S 44 deg 51 min 51 sec E 350 alg N 7th St to beg; all work on a 4-story and basement steel frame building.
 Owner—United States Government.
 Architect—George W. Kelham, 2 5 5 0 Scott St.
 Contractor—Lindgren and Swinerton, Inc., 225 Bush St.
 Sub - Contractor—Charles Terranova, 1212 Willard St.
 Filed, March 8, '33. Dated Feb. 16, '33.
 Installments on or before the 15th day of each month in amounts equaling 75% of value.
 36 days after completion 25%
 TOTAL COST, \$21,079
 Bond, \$15,809.25. Sureties, U. S. Guarantee Co. No plans or specifications filed.

ALTERATIONS
 (25) TWO CITY blocks bounded by Van Ness Ave., Franklin St., McAllister and Grove Sts., including Fulton and Ash Sts. bet. Van Ness Ave. and Franklin and Birch Sts. which streets have been closed by city ordinance; alterations to the Sprinkler system of the Veterans' Bldg. for the War Memorial of San Francisco.
 Owner—The Board of Trustees of the War Memorial of San Francisco, 250 Bush Street.
 Architect—Arthur Brown, Jr. and G. Albert Lausburgh, collaborating architect, 251 Kearny St.
 Contractor—Herman Lawson, 465 Tehama Street.
 Filed March 8, '33. Dated Feb. 20, '33.
 On or before 10th of each mo.....75%
 Usual 35 days25%
 TOTAL COST, \$2375
 Bond, \$1187.50. Sureties, American Indemnity Co. Forfeit, Limit, 40 days. Plans and Spec. filed.

ALAMEDA COUNTY

9	Murnik	Moore	6381
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STORE BLDG.
 (9) LOT 50, Lakeshore Park Heights, Oakland; general construction on 1-story brick store building.
 Owner—D. H. Murnik, 3799 Park Blvd. Oakland.
 Architect—Miller & Warnecke, Financial Center Bldg., Oakland.
 Contractor—John J. Moore, 354 Hobart St., Oakland.
 Filed March 7, '33. Dated March 3, '33.
 When brick walls erected\$1595.25
 Brown coated 1595.25
 Completed 1595.25
 Usual 35 days 1595.25
 TOTAL COST, \$6381
 Bond, \$6381. Sureties, Pacific Indemnity Co. Limit, 60 days. Plans and specifications filed.

BUILDING NEWS

1—APARTMENTS

Planned.
APARTMENTS Cost \$—
CAPITOLA, Santa Cruz Co., Cal.
 Two-story steel and concrete apart-
 ments and stores (135x87 feet);
 Spanish style, tile roof, steam heat,
 tiled baths and sinks)7 2, 3 and
 4-room apts and 7 stores).
 Owner—C. E. Blanchard, 111 Sutter
 St., San Francisco.
 Architect—Not Selected.

Segregated Bids Being Taken.
APARTMENTS Cost, \$100,000
SAN FRANCISCO, Pacific Avenue.
 Seven-story Class A steel frame, con-
 crete and brick apartments (70x
 127 ft.) two elevators, steam heat-
 ing system, garbage incinerator,
 tiled baths and kitchens, hardwood
 floors, electric refrigeration, etc.
 Owner—Bargene Realty Co., Monad-
 neck Bldg., San Francisco.
 Architect—Chas. E. J. Rogers, Phelan
 Bldg., San Francisco.
 Bids are being taken by Nick Ayer,
 % owner.

Plans Being Figured.
ALTERATIONS Cost, \$9000
SAN FRANCISCO. Location withheld
 Alterations and additions to building
 (alter exterior of store and apart-
 ment in rear, add to stories of
 apartments, to contain four 3- and
 4-room apts.) stucco exterior, tile
 and composition roof, gas fired
 steam heating system, mechanical
 refrigeration, etc.
 Owner—Withheld.
 Architect—Sydney Colton, 544 Market
 St., San Francisco.

Bids are being taken from a selected
 list of contractors on a general con-
 tract basis with separate bids for
 heating and mechanical refrigeration.

Bids In—Held Under Advisement.
APARTMENTS Cost, \$—
SAN FRANCISCO. N West Portal W
 Fourteenth Avenue.
 Three-story and basement frame and
 stucco apartments (12 2- and 3-
 room apts.) tile and composition
 roof, fireplaces, steam heating sys-
 tem, hardwood floors, tiled baths,
 electric refrigeration, etc.
 Owner—Mrs. F. Nelson.
 Architect—H. C. Baumann 251 Kear-
 ny St., San Francisco.
 Announcement will be made shortly.

2—BONDS

PASADENA, Los Angeles Co., Cal.
 —The Reconstruction Finance Corp.
 submitted the only bid to the Pas-
 adena city directors February 28, at
 par and accrued interest at 5% for a
 \$992,000 block of San Gabriel Canyon
 water storage project bonds. The bid
 was taken under advisement until
 March 2. 2

MEDFORD, Ore. — Until March 21,
 7:30 P. M., bids will be received by
 city council for \$49,463.85 in City of
 Medford consolidated improvement
 fund No. 2, bonds, 5% interest.

OREGON STATE. — State Highway
 Commission, Multnomah Hotel, Port-
 land, postpones opening of bids for
 \$1,500,000 State of Oregon short term
 state highway bonds, interest at 6%
 payable semi-annually, which were to
 have been opened March 1.

Extension of bid opening is due to
 condition of bond market at this time

and bids will probably be opened as
 soon as conditions improve.

HEMET, Riverside Co., Calif.—An
 election will be held April 4 to vote on
 a \$121,000 bond issue to provide funds
 for a municipal water system. Burns-
 McDonnell-Smith Engineering Corp.,
 Western Pacific Bldg., Los Angeles,
 have been engaged to handle the en-
 gineering work.

3—CHURCHES

Low Bidder.
CHURCH Cost, \$4720
PLACERVILLE, Eldorado Co., Cal.
 One-story frame and brick veneer
 church (to seat 100) shake roof,
 hardwood floors, etc.
 Owner—Christian Science Church.
 Architect—George Sellon, California
 State Life Bldg., Sacramento.
 Low Bidder—J. P. Morton, 3 Cottage
 Ave., Placerville, at \$4720.
 Contract will be awarded in about
 one week.

Contract Awarded.
REPAIRS Cost, \$2500
SAN FRANCISCO. N. 301 Raymond
 Avenue.
 Repair fire damage to church.
 Owner—Roman Catholic Archbishop
 of San Francisco, 1100 Franklin
 St., San Francisco.
 Architect—Not Given.
 Contractor—I. W. Coburn, 2043 Market
 St., San Francisco.

Preparing Working Drawings.
CHURCH Cost, \$—
MONTEREY, Monterey Co., Calif.
 One-story frame and stucco church
 (to seat 200).
 Owner—Christ an Science Church.
 Architect—Swartz & Ryland, Spazier
 Bldg., Monterey, and Carmel.

4—FACTORIES & WARE- HOUSES

Sub-Contracts Awarded.
ALTERATIONS Cost, \$20,000
OAKLAND, Alameda Co., Cal. 24th
 and Grove Streets.
 Alterations and additions to two-story
 brick factory (15,000 sq. ft.)
 Owner—Western Dairy Products Co.
 (Geo. L. Burt), 2101 S. Los Ange-
 les Blvd., Los Angeles.
 Plans by Eng. Dept. of Owner.
 Construction Engineer—D. O. Lamb,
 Premises.
 Leasing Agent—Harold Wachs, Bank
 of America Bldg., Oakland.
Carpentry—George Easterly, Premises.
Refrigeration—Baker Ice Machine
 Co., 2459 E-14th St., Oakland.
Insulation—Mundett Cork Co., 440
 Brannan St., San Francisco.
Painting—M. Williams & Sons, 354
 Hobart St., Oakland.
Electric—Pacific Electric Motor Co.,
 10th and Oak Sts., Oakland.
Plumbing—Minggio Bros., 2316 Tele-
 graph Ave., Oakland.
Reconditioning Well—John Graves,
 2323 San Pablo Ave., Oakland.
Boiler, Etc.—Gehlert Boiler Works.

Owner Taking Bids.
BAKERY Cost, \$8000
SUNNYVALE, Santa Clara Co., Cal.
 One-story reinforced concrete bakery
 (25x125ft.) tar and gravel roof,
 reinforcing steel, sheet metal sky-
 lights, bakery equipment, etc.
 Owner—Sunnyvale Bakery (A. Bia-
 risio), 215 Murphy St., Sunnyvale.
 Plans by Frank Moore, 1132 Glenn
 Ave., San Jose.

Bakery equipment will be furnished
 by owner.

Planned.
PLANT Cost, \$25,000
KING CITY, Monterey Co., Cal.
 Road oil plant (treating asphalt base
 crudes, etc.)
 Owner—Golden Bear Oil Co., Ltd.,
 Oildale.
 Plans by Eng. Dept. of Owner.

Sub-Bids Being Taken.
LAUNDRY Cost, \$10,000
BERKELEY, Alameda Co., Cal. Shat-
 tuck Avenue.
 One-story brick laundry (tile roof,
 steel sash and steel trusses, etc.)
 Owner—Berryman French Laundry,
 1448 Shattuck Ave., Berkeley.
 Architect—Not Given.
 Contractor—Gaubert Brothers, 4735
 Brookdale Ave., Oakland.

KING CITY, Monterey Co., Calif.—
 Golden Bear Oil Co., 325 W 8th St.,
 Los Angeles, is having plans prepared
 for a road oil plant to be constructed
 near King City for the company. Work
 will involve the installation of equip-
 ment and appurtenant structures.
 Construction will be handled by the
 owner and all bids have been taken.
 Mr. Coulter, Bartlett Bldg., Los An-
 geles, engineer.

Planned.
REMODELING Cost, \$200,000
EUREKA, Humboldt Co., Cal. Broad-
 way.
 Remodel brewery (reconstruct brew
 house, bottle house, new equip-
 ment, etc.)
 Owner—Group of San Francisco Finan-
 ciers (G. H. Mullin, 1988 Vallejo
 St., San Francisco, et al).
 Engineer—William A. Coch, % Owners
 Further information will be given
 shortly.

Contract Awarded.
FACTORY Cost, \$11,539
OAKLAND, Alameda Co., Cal., 16th
 Avenue and E-12th St.
 One-story steel frame and brick man-
 ufacturing plant.
 Owner—California Animal Products
 Co., 1530 E-12th St., Oakland.
 Architect—W. E. Schirmer, Financial
 Center Bldg., Oakland.
 Contractor—Thomas F. L. Furlong,
 460 Jerome Ave., Oakland.

Contract Awarded.
CANNERY Cost, \$40,000
WALLA WALLA, Washington.
 Frame cannery (220x60) composition
 roof, concrete floors, warehouse
 (140x60).
 Owner—Walla Walla Canning Co., (J.
 G. Kelly, president).
 Plans by owner.
 Contractor—W. H. Huntington, Walla
 Walla.
Plumbing—J. L. Schaefer, Walla
 Walla.

Sub-Bids Being Taken.
PLANT Cont. Price, \$10,777
SAN FRANCISCO. Seventh and Har-
 rison Streets.
 One-story reinforced concrete print-
 ing plant (60x37 feet) steel sash,
 plumbing, heating, electric wiring.
 Owner—Daily Racing Form.
 Architect—C. O. Clausen, 746 46th
 Avenue.
 Contractor—C. L. Wold, 4416 Fulton
 Street.

Work To Start Shortly.
REMODELING Cost, \$150,000

EUREKA, Humboldt Co., Cal. Broadway.
 Remodel brewery (repaint, clean and replace some brick work, recondition machinery, installation of new machinery, steel and wood tanks, new bottle house equipment, new electrical equipment, new wiring, switchboard and motors, etc.)
 Owner—Humboldt Brewery Co. (H. C. Howe, president; G. H. Mullin, et al, 5th floor, Russ Building, San Francisco.
 Architect—Not Given.

Plans Being Completed.
PLANT Cost, \$50,000
SAN FRANCISCO, Washington St.
 Two-story reinforced concrete printing plant.
 Owner—Edward Barry Co., 32 Clay St.
 Architect—H. A. Minton, 525 Market Street.
 Engineer—L. H. Nishkian, 525 Market Street.
 Bids will be asked shortly.

5—FLATS

Contract Awarded.
FLATS Cost, \$7000
SAN FRANCISCO, NE Leavenworth and Glover Streets.
 Two-story and basement frame and stucco (2) flats.
 Owner—C. Pittanesi, 3056 Webster St., Sao Francisco.
 Plans by Owner.
 Contractor—G. Ferrari & Sons, 1968 Filbert St., San Francisco.
 March 3, 1933
FLATS Cost, \$15,000
SAN FRANCISCO, E Retiro Way 150 N Beach Street.
 Two duplex dwellings (four five-room flats) frame and stucco construction, cast stone trim, asphalt and tile roofing, warm air, furnaces, oak flooring, electric refrigeration, colored plumbing fixtures mahogany trim, ornamental iron, etc.
 Owner and Builder—Gust L. Peterson, 12 Montezuma St., San Francisco.
 Plans by L. O. Berg, 675 Corbett Ave., San Francisco.
 Contractor—E. E. Johanson, 414 Missouri St., San Francisco.

6—GARAGES & SERVICE STATIONS

Sub-Contracts Awarded.
SERVICE STATION Cost, \$4000
SAN MATEO, San Mateo Co., Calif. Bayshore Blvd. and Third St.
 Steel service station.
 Owner—Standard Oil Co., 225 Bush St., San Francisco.
 Plans by Eng. Dept. of Owner.
 Contractor—Lengfeld & Olund, 220 3rd St., San Mateo.
Grading and Cement Materials—San Mateo Feed & Fuel Co., San Mateo.
Plumbing—J. W. Forsythe, 521 South Humboldt St., San Mateo.
Mill Work—Pacific Mfg. Co., Santa Clara.
 Contract Awarded.
SERVICE STATION Cost, \$4000
SAN MATEO, San Mateo Co., Cal. Bayshore Blvd. and Third St.
 Steel service station.
 Owner—Standard Oil Co., 225 Bush St., San Francisco.
 Plans by Engineering Department of Owner.
 Contractor—Lengfeld & Olund, 220 3rd St., San Mateo.
 (\$44) 6
 Steel Building Contract Awarded.
SERVICE STATION Cost, \$3000
SAN FRANCISCO, NE Taylor and O'Farrell Streets.

One-story steel service station.
 Owner—Bohemian Garage, Premises.
 Plans by Eng. Dept. of Standard Oil Co., 225 Bush St., San Francisco.
 Contractor—Barrett & Hill, 918 Harrison St., San Francisco.
Steel Building—Michel & Peffer Iron Works, Harrison and Tenth Sts., San Francisco.

Plans Being Completed.
SERVICE STATION Cost, \$15,000
BERKELEY, Alameda Co., Cal. Vine and Shattuck Ave.
 Masonry super service station.
 Owner—Standard Oil Co., 225 Bush St., San Francisco.
 Plans by Eng. Dept. of Owner.
 Bids will be asked within one week.

7—GOVERNMENT WORK AND SUPPLIES

March 3, 1933
COMPLETE BID LISTING
 Washington, D. C. — As previously reported, N. P. Severin Co., 222 West Adams St., Chicago, at \$2,548,000 submitted low bid to the Treasury Department, Washington, D. C., for the construction of a six-story and basement reinforced concrete Federal Bldg. in the Civic Center, San Francisco. Will have granite exterior, terra cotta court lining, terrazzo and tile flooring, mosaic tile floors in offices, seven elevators, steam heating system, etc.
 Plans prepared by Architect Arthur Brown, Jr., 251 Kearny St., San Francisco. C. H. Snyder, 251 Kearny St., San Francisco, structural engineer, and Leland & Haley, 58 Sutter Street, San Francisco, mechanical engineers. Following are six low bidders:
 (1) add if terra cotta tile units are used for facing walls of first story corridors in place of painted plaster.
 (2) add if all roof surfaces of enclosed spaces of buildings are insulated.
 Following is a complete list of bids:
 N. P. Severin Co., Chicago...\$2,548,000
 (1) 5,500
 (2) 1,800
 Great Lakes Const. Co., Chicago\$2,597,952
 (1) 14,000
 (2) 1,000
 Jacobsen Const. Co. Chicago...\$2,675,000
 (1) 17,000
 (2) 5,000
 George Wagner, S. F.\$2,600,000
 (1) 8,000
 (2) 2,000
 Lindgren & Swinerton, S. F.\$2,710,000
 (1) 5,050
 (2) 2,440
 Clinton Const. Co., S. F.\$2,731,500
 (1) 4,000
 (2) 2,500
 Pike & Cook Co., Inc., Minneapolis\$2,745,090
 (1) 14,643
 (2) 4,050
 Schuler and McDonald, Oakland\$2,850,000
 (1) 20,000
 (2) 2,000
 R. E. McKee, Los Angeles\$2,845,000
 (1) 7,400
 (2) 3,900
 H. M. Baruch Corp., L. A.\$3,045,000
 (1) 12,000
 (2) 3,000
 Coath & Goss, Inc., Chicago...\$3,107,800
 (1) 10,000
 (2) 2,000
 Bids held under advisement.

Washington, D. C. — As previously reported, the H. W. Underhill Const. Co., Oklahoma City, at \$105,342 submitted low bid to Treasury Department, Washington, D. C., for the construction of a mess hall and school building at the U. S. Federal Southwestern Reformatory at El Reno, Okla. for the U. S. Government. Following is a complete list of the bids:
 H. W. Underhill Const. Co., Oklahoma City\$105,342
 W. S. Bellows Const. Co., Oklahoma City 105,600
 H. B. Deal & Co., Inc., St. Louis 106,671
 Manhattan Const. Co., Muskogee, Okla. 107,300
 Nathan Wohfeld, Dallas, Tex. 107,313
 D. C. Eass & Sons Const. Co., Enid, Okla. 109,202
 Henger & Chambers, Dallas 110,300
 Murch Bros. Const. Co., Saint Louis 111,000
 A. J. Rife Const. Co., Dallas 112,700
 L. S. Simmons Co., Inc., Decatur, Ill. 112,833
 Spence Bros., Inc., Saginaw, Michigan 114,699
 Penker Const. Co., Cincinnati 116,470
 Henry Bros. Co., Chicago 117,000
 H. E. Friedman, Fort Worth 120,000
 Wm. MacDonald Const. Co., St. Louis 126,500
 C. S. Lambie & Co., Amarillo, Texas 133,000
 Bids held under advisement.

WASHINGTON, D. C.—W. Bayles, 2110 Market St., Oakland, at \$2,500 awarded contract by Public Works Officer, Mare Island Navy Yard, for moving frame quarters and other buildings at the U. S. Navy Yard, Mare Island. Work involves moving buildings, installing foundations, service connections, etc.

SAN FRANCISCO, Calif. — Until 3 P. M., March 22, bids will be received by the Treasury Department, Office of the Supervising Architect, Washington, D. C., for furnishing and installing special interior lighting fixtures in the United States post office and court house at San Francisco. Plans and specifications may be obtained from the supervising architect in Washington.

WASHINGTON, D. C.—Yuhasz & Olsen, 4174 Connecticut Street, Gary, Ind., at \$22,594 for the boathouse and \$6280 for the cottages, etc., awarded contract by U. S. Coast Guard for large dwelling to house officers' quarters, etc., laundry storm clothes room, storage rooms, toilets, showers etc., two-story and basement frame boat house (60x36 ft.) 288 foot launchway, concrete piers and trackage for life boats; frame garage (46x24 ft.) two-story cottage (34x27 ft.) reinforced concrete reservoir, (14x12 ft.); pump house, (10x12 ft.) water supply system, standard look-out tower, etc., at Port Orford, Oregon.

Commissioned To Prepare Plans.
POST OFFICE Cost, \$225,000
SANTA MONICA, Los Angeles Co., Cal. NW Fifth and Arizona Ave. Post Office.
 Owner—United States Government.
 Architect—Henry Carlton Newton and R. D. Murray, Architects Bldg., Los Angeles.

Commissioned To Prepare Plans.
 POST OFFICE Cost, \$——
 MADERA, Madera Co., Cal.
 Post Office.
 Owner—United States Government.
 Architect—Ernest J. Kump, Rowell
 Bldg., Fresno.

PEARL HARBOR, T. H.—Until Mar.
 29, 11 A. M., (date postponed from
 March 8) bids will be received by Dis-
 trict Public Works Officer, 14th Naval
 District, Pearl Harbor, T. H., for
 cleaning and painting the coaling plant
 trestle, two coal hoisting towers and
 two coal chutes at the 14th Naval
 District (Naval Fuel Depot), Pearl
 Harbor, T. H. Specification No. 7236.
 Plans and specifications available from
 above office and from the Comman-
 dant, 12th Naval District, 100 Harrison
 St., San Francisco, upon deposit
 of \$10.

WASHINGTON, D. C.—Rosen &
 Fischel, Inc., 11 S. La Salle Street,
 Chicago, Ill. at (a) \$87,419 and (b)
 \$91,080 submitted low bid to Treasury
 Department, Washington, D. C., for
 the construction of the U. S. Post
 Office at Silver City, New Mexico.

BERKELEY, Cal.—Farr & Company,
 1613 Josephine St., Berkeley, at \$325
 awarded contract by Construction En-
 gineer, U. S. Post Office, Berkeley,
 for seeding, planting, etc., the grounds
 of the Post Office at Berkeley.

ALAMEDA, Cal.—General Fireproof-
 ing Co., 534 4th St., San Francisco,
 at \$3323.13 awarded contract for fur-
 nishing and installing metal shelving,
 counters and bins in the Bureau of
 Public Roads & Administration Build-
 ings at Government Island, Alameda.
 Work involves 62,500 lbs. metal shelv-
 ing, counters and bins, and 2500 lbs.
 metal counter tops.

Sub-Contracts Awarded.
 OFFICERS' QUARTERS
 Contract Price, \$114,574
 SAN RAFAEL, Marin Co., Cal. Ham-
 ilton Field.
 Twelve sets of officers' quarters (two
 story and basement hollow tile
 and stucco structures; tile roof,
 cast stone, steel casement win-
 dows, gas fired hot water heating
 system, linoleum, plumbing, electri-
 cal work, etc.
 Owner—United States Government.
 Plans by Constructing Quartermaster.
 Contractor—Meyer Bros., 727 Portola
 Drive, San Francisco.
 Reinforcing Steel—Trucson Steel Com-
 pany, Call Bldg., San Francisco.
 Steel Sash—Detroit Steel Products Co.
 111 Sutter St., San Francisco.
 Tile—Art Tile & Mantel Co., 221 Oak
 St., San Francisco.

WASHINGTON, D. C.—Arthur H.
 Golden Co., 1240 N Wells St., Chicago,
 at \$561 awarded contract by Treasury
 Department, for painting plaster, etc.,
 in the U. S. post office at Price, Utah.
 (551) 1st report Jan. 31, 1933.

Commissioned To Prepare Plans.
 POST OFFICE Cost, \$135,000
 REDDING, Shasta Co., Cal.
 Post Office.
 Owner—United States Government.
 Architect—Albert E. Roller, Crocker
 First National Bank Bldg., San
 Francisco.

—Until March 28, 11 A. M., bids will
 be received by Public Works Officer,
 12th Naval District, 100 Harrison St.,
 San Francisco, for a photographic
 laboratory in the basement of the Ad-
 ministration Building at the Naval
 Air Station, Sunnyvale. Work in-
 cludes metal studding, metal lath,
 gypsum plaster, partitions; wood
 doors; carpentry and joinery; hard-

ware; plumbing; lead-lined wood
 tanks and sinks, wood tables, shelving;
 film-winding reel, stand and drum.
 Specification No. 7121. Plans and
 specifications available from above
 office upon deposit of \$10.

WASHINGTON, D. C.—Dinwiddie
 Construction Co., Crocker Bldg., San
 Francisco, at \$73,750 awarded contract
 by Bureau of Yards and Docks, Navy
 Department, Washington, D. C. for
 the construction of a balloon hangar
 at the U. S. Naval Air Station Sun-
 nyvale. Work includes concrete, steel
 and iron work, steel doors and win-
 dows, built-up roof, metal studding
 and lathing, carpentry, joinery, plumb-
 ing and electrical systems. Specifica-
 tion No. 7027. Following is complete
 list of bids:
 Dinwiddie Constr. Co. S. F. \$ 73,750
 K. E. Parker Co., S. F. 75,300
 George Petersen, San Leandro 75,980
 Leo Epp, San Francisco 78,300
 G. W. Williams Co, Burlingame 79,500
 San Francisco Con. Co., S. F. 80,000
 E. T. Lesure, Oakland 81,837
 F. C. Amoroso & Sons, S. F. 84,400
 Jacks & Irvine, S. F. 85,821
 A. H. Vogt Co., S. F. 86,300
 Robert E. McKee, Los Angeles 93,000
 Butte Constr Co., S. F. 101,671

WASHINGTON, D. C.—Robert E.
 McKee, El Paso, Texas, at \$9300 sub-
 mitted low bid to Veterans Adminis-
 tration for constructing and finishing
 patio, garden walks, pool, etc., at the
 Veterans' Administration Building,
 Albuquerque New Mexico. Following
 bids received:
 Robt. E. McKee, El Paso, Tex. \$ 9,300
 E. J. Marchant, Albuquerque 10,500
 Edward Lembke Albuquerque 11,514
 Poe Constr. Co., Greenville, South
 Carolina 19,200
 Bids held under advisement.

Planned.
 POST OFFICE Cost, \$76,000
 CARMEL, Monterey Co., Cal.
 Post Office.
 Owner—United States Government.
 Architect—Not Selected.

BEVERLY HILLS, Los Angeles Co.,
 Cal.—Sarver & Zoss, 1015 W. Fourth
 St., Los Angeles, report additional
 sub-contracts for the erection of the
 United States Post Office in Beverly
 Hills, for the Treasury Department,
 awarded as follows: Hollow metal
 work to Dahlstrom Metallic Door Co.,
 3350 E. Slauson Ave., Los Angeles;
 plumbing and heating to John H.
 Cummins Co., 11,618 Santa Monica
 Blvd., West Los Angeles; electrical
 work to Norton & Norton, 1375 N.
 Broadway, Los Angeles. Excavation
 of the site is under way. Ralph C.
 Flewelling, architect, 450 N. Beverly
 Dr.; Allison & Allison, consulting archi-
 tects, 1014 Edison Bldg., Los An-
 gelos.

LAS VEGAS, Nevada — Following
 equipment bids approved by the Treas-
 ury Department, Washington, D. C.,
 in connection with the construction of
 the post office building at Las Vegas,
 Nevada. Rosen & Fischel, Chicago,
 Ill., general contractors:
 Glassware, Gill Glass Co., Moe-
 Bridges Co., and Goodrich Elec. Co.;
 sockets, Harvey Hubbell Co.; pen-
 dant switches, Pass & Seymour and
 Harvey Hubbell Co.; lighting fixtures,
 Moe-Bridges Co.

WASHINGTON, D. C.—As reviously
 reported Rosen and Fischel, 11 S. La
 Salle St., Chicago, Ill., at (a) \$87,419
 and (b) \$91,083 submitted low bid to
 Treasury Department, Washington, D.
 C., for the construction of a post office
 building at Silver City, New Mexico.
 Following bids received:

(1) Limestone; (2) Terra Cotta.
 Rosen & Fischel, Chicago, Ill.
 (1) \$87,419
 (2) 91,083
 Glover-Boyington, Tampa, Texas
 (1) \$90,100
 (2) 89,100
 Robert E. McKee, El Paso, Texas
 (1) \$93,800
 (2) 94,800
 R. Eutke, Omaha, Neb.
 (1) \$96,675
 (2)
 Bids held under advisement.

March 7, 1933
 SAN FRANCISCO, Calif.—Until 2
 P. M., March 21, bids will be received
 by the Treasury Department, Office of
 the Supervising Architect, Washing-
 ton, D. C., for furnishing and install-
 ing insect screens in the United States
 Marine Hospital, San Francisco. The
 following firms have procured plans:
 Cincinnati Fly Screen Co., Evans and
 Gest Sts., Cincinnati, O.; W. J. Baker
 Co., Newport Ky.; Rolescreen Co., 1427
 Eye St., N. W., Washington, D. C.;
 Morrison - Skinner Co., Wakefield,
 Mass.; L. M. Clark, 3160 18th St., N.
 W., Washington, D. C.; Kane Blind &
 Screen Co., Kane, Pa.; Watson Mfg.
 Co., Jamestown, N. Y.; Cecco Weather-
 strip & Screen Co., 1926 S. 52nd Ave.,
 Chicago; Maurice E. Reilly, 2010 Ros-
 well Ave., Charlotte, N. C.; Corry
 Metal Corp., 614 Mills Bldg., Wash-
 ington, D. C.; Chicago Weatherstrip &
 Screen Co., 1617 N. Yory St., Chicago;
 Johnson Metal Products Co., 2539 Pen-
 nsylvania Ave., N. W., Washington,
 D. C.; Acme Screen Co., P. O. Box
 1537, Dallas, Tex.; Agee Screen Co.,
 Fort Worth, Tex.; Higgins Mfg. Co.,
 Newport, Ky.; Robbins Mfg. Co., 1801
 N. Central Park Ave., Chicago; Wash-
 ington Mfg. Co., 3223 W. 76th St., Se-
 attle, Wash.

LOS ANGELES, Cal.—F. H. Stroche-
 ker, 1738 W. 49th St., Los Angeles, at
 \$2873 submitted low bid to Veterans
 Administration, office of the Super-
 vising Superintendent of Construc-
 tion, Veterans' Hospital, Palo Alto,
 for one garbage and refuse incinerator
 at the Veterans Administration
 Home, West Los Angeles. Work in-
 cludes, excavation, grading, reinforced
 and plain concrete, brick work, com-
 mon and fire miscellaneous steel and
 iron work, including angle iron rail-
 ing, cast iron grate, draft and charg-
 ing doors, etc.

Following bids received:
 F. H. Strohecker, L. A. \$2873
 Bennett & Taylor, L. A. 2581
 Anton Johnson, Los Angeles 2930
 J. B. McIntosh, Los Angeles 3051
 H. F. Miller, Los Angeles 3065
 Contracting Engr. Co., Berkeley 3100
 J. C. Thorp, San Jose 3121
 Jones Bros., Los Angeles 3279
 F. F. Greenfield, Los Angeles 3444
 R. G. Meyler Corp., L. A. 3460
 Los Angeles Contracting Co.,
 Los Angeles 3499
 J. N. J. Firebrick Co., S. F. 3512
 Andy Sordal, Los Angeles 3626
 Rainey & MacIsaac, L. A. 3695
 Acme Engr. Co., Los Angeles 4686
 (Alternate) 2750
 Price Building Specialties Co.,
 San Francisco 5890
 Bids held under advisement.

MERCED, Merced Co., Cal.—Follow-
 ing equipment bids approved by
 Treasury Department, Washington D.
 C., in connection with the construc-
 tion of the Post Office Building at
 Merced. North Moller Company,
 Jackson, Michigan, general contractors.
 Plumbing fixtures, Standard Sanitary
 Mfg. Co.; electric water coolers,
 Halsey-Taylor Co.; lawn sprinklers,
 Thompson Sprinkler Co.; non conduct-
 ing covering for plumbing and heat-
 ing, Plant Rubber & Asbestos Co.;
 boiler, Kewanee Boiler Co.; oil burn-

erg, Ray Burner Co.; tube and wall radiators, Crane Co.; angle radiator valves, offset radiator, valves, Marsh Valve Co.; radiator air valves, air valves for end of mains, American Radiator Co.; main switch panels, entrance switch and lighting distributing panels, Square D Co.; r. c. wire, John A. Roebbling's Sons Co.; flush switches, Hart & Hegeman; special lighting fixtures, Phoenix-Day Co.

MARYSVILLE, Yuba Co., Cal.—Following equipment bids have been approved by the Treasury Department, Washington, D. C., in connection with the post office building at Marysville. K. E. Parker, 135 South Park, San Francisco, general contractor. Concealed radiators, Rome Radiator Co. and indirect water heaters to Taco Heater Co.

WASHINGTON, D. C.—Following have procured plans for the purpose of submitting bids to the Treasury Department, Washington, D. C., on March 21 for installation of an elevator plant in the U. S. Post Office at Phoenix, Arizona:

Leacher & Mahoney, Phoenix, Ariz. S. Heller Elevator Co., Milwaukee, Wis.

Montgomery Elevator Co., Moline, Illinois.

Gurney Elevator Co., 109 W. 64th St., New York City.

Reliance Elevator Co., 212 W. Austin Ave., Chicago.

Elevator Locks Co., 119 N. Washington St., Peoria, Ill.

Westinghouse Electric Elevator Co., Philadelphia, Pa.

J. J. Matson (General Electric), Schenectady, New York.

American Elevator & Machine Co., 500 E. Main St., Louisville, Ky.

Elevator Supplies Co., 1515 Willow Ave., Hoboken, New York.

Graves Elevator Supplies Co., East Ave., P. O. Box 56, Rochester, N. Y.

Atlantic Elevator Co., Erie Ave. and D St., Philadelphia, Pa.

Wm. A. Miller Elevator Co., 920 N. Maun St., St. Louis, Mo.

A. B. See Elevator Co., 14th and H Sts., N.W., Washington, D. C.

Haughton Elevator Co., 1103 Vermont Ave., N. W. Washington D. C.

Otis Elevator Co., Washington, D. C.

Warren Elevator Mfg. Co., Cincinnati, Ohio.

Richards-Wilcox Mfg. Co., Aurora, Illinois.

Commissioned To Prepare Plans. POST OFFICE Cost, \$67,500

BELL, Los Angeles Co., Cal. Post Office.

Owner—United States Government. Architect—Hibbard, Gerity & Kerton, 816 W. 5th St., Los Angeles.

SUNNYVALE, Santa Clara Co., Cal.—Roy Lind, 54 Stanton St., San Francisco, at \$2127 awarded contract by Public Works Officer, 12th Naval District, 100 Harrison St., San Francisco, for wagon scales of the suspended-platform, direct-reading dial type, 40,000 pounds capacity, the work to include excavation, reinforced concrete pit and platform, weighing mechanism, housing for indicating mechanism and drainage provisions at the Naval Air Station, Sunnyvale. Specification No. 7191.

LIVERMORE, Alameda Co., Cal.—Until March 20, 2:30 P. M. (date postponed from March 9) bids will be received by Supervising Superintendent of Construction, Veterans Administration Hospital, Palo Alto, for the construction of a pipe line, etc., on the water system at the Veterans Administration Hospital, Livermore. Work includes construction of one eight inch class 150 cast iron pipe line, pro-

vision of automatic control for existing pump, corrugated iron housing around pump, etc. An alternate bid will be received for installing pipe composed of asbestos fiber and cement in lieu of cast iron specified.

Following have secured plans: U. S. Pipe & Foundry Co., Monadnock Bldg., San Francisco.

P. L. Burr, 320 Market St., San Francisco.

WASHINGTON, D. C.—Floral Supply Co., Seaboard Branch First National Bank Bldg., Seattle, Wash., at \$49,097, submitted low bid to Treasury Department, Washington, D. C., for landscaping in connection with the Federal Bldg., Seattle. Complete list of bids will be published shortly.

WASHINGTON, D. C.—Until May 3, bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., has cancelled the call for bids for a three-story extension to storehouse at the Naval Fleet Air Base, Pearl Harbor, T. W. Work to include concrete hollow tile, and brick, steel and iron, steel windows, roofing and sheet metal, stucco plastering, steel rolling and metal doors, glazing, plumbing, and electrical systems. Spec. No. 7085.

LONG BEACH, Calif.—Logan Mfg. Co., Louisville, Ky., awarded contract by Post Office Department at \$654 for furnishing and installing a conveyor in the Long Beach post office.

TAHLEQUAH, Okla.—Connor and Ripstra, Wichita, Kans., submitted low bid to Purchasing Office, Department of the Interior, at \$55,444 for central heating plant and distributing system at Tahlequah.

BERKELEY, Alameda Co., Calif.—Until Friday, March 17, bids will be received by the Division of Supply, Treasury Department, Washington, D. C., for Venetian blinds for 64 window openings and 10 circle heads, Berkeley; Proposal 6051.

EL CENTRO, Imperial Co., Calif.—Brussard-Nelson Co., Washington, D. C., awarded contract by Treasury Department, at \$1173 for plaster models for the U. S. post office under construction in El Centro.

MARCH FIELD, Riverside, Calif.—Campbell Const. Co., 2143 Hyperion Ave., Los Angeles, submitted low bid to Constructing Quartermaster, March Field, on March 6, at \$2015, for the construction of foundation for officers' mess building at March Field. Recommendation was made that the contract be awarded the low bidder. Other bids were: Cresmer Mfg. Co., \$2,070; Wm. Gannon, \$2187; John T. Bibb \$2196; T. C. Pritchard, \$2264; Bennett & Taylor, \$2266; H. G. Klusman, \$2,300; Jos. Maiser, \$2363; Jones Bros., \$2400; Jacobsen & Jacobsen, \$2675; Anton Johnson Co., \$2822; Wm. P. Neil Co., \$2934; H. M. Baruch Corp., \$3116; Southwest Const. Co., \$3290.

WASHINGTON, D. C.—Henrickson Alstrom Const. Co., Textile Tower Bldg., Seattle, Wash., at \$12,550 submitted low bid to Treasury Department, Washington, D. C., for fencing, etc., in connection with the Federal Bldg., in Seattle. Complete list of bids will be published shortly.

WASHINGTON, D. C.—Gunner Johnson, 2521 33rd St., San Diego, at \$46,450 submitted low bid to Treasury Department, Washington, D. C., for the construction of a masonry inspection station to be erected in Tecate, San Diego county, for the U. S. Government. Second low bid was sub-

mitted by John A. Hunt, San Diego, at \$48,676, and third low by North Moller Co., Jackson, Michigan, at \$48,989. Complete list of bids will be published shortly.

Bids Wanted—To Close April 5. CELL BLOCKS, ETC. Cost, \$— EL RENO, Okla. Southwestern Reformatory.

Cell block and utilities buildings. Owner—United States Government. Plans by Supervising Architect, Treasury Dept., Washington, D. C.

Plans obtainable from the supervising architect upon deposit of \$25.00, checks to be made payable to the Treasurer of the United States.

SUNNYVALE, Santa Clara Co., Cal.—Until March 15 (date postponed from March 8) bids will be received by the Bureau of Yards and Docks, Navy Department, Washington, D. C., for providing door, window and transom screens at the Naval Air Station, Sunnyvale. Spec. No. 7076. On previous bid opening lowest bid was submitted by the Cincinnati Fly Screen Company Cincinnati, at \$2,757.

REDLANDS, San Bernardino Co., Cal.—North Moller Company, 120 West Cortland St., Jackson, Michigan, awarded the following sub-contracts in connection with the construction of the post office building being erected in Redlands for the U. S. Government. F. Stanley Wilson, 3646 W. 9th St., Riverside, Architect. Cost, \$104,980.

Marble and Tile—Berger-Eldridge, Inc., 2206 Beverly Blvd., Los Angeles.

Reinforcing Steel—Concrete Engineering Co., 1450 Mirasol St., Los Angeles.

Mr. L. P. Scherer, representative of the North Moller Co. will be in Redlands on March 8th.

WASHINGTON, D. C.—Crocker-Wheeler Electric Company, Ampere, New Jersey, at \$30,785 submitted low bid to Bureau of Yards and Docks, Navy Department, Washington, D. C. for generator set at the Puget Sound Navy Yard, Bremerton, Wash.

WASHINGTON, D. C.—Otis Elevator Co., 1 Beach St., San Francisco, at \$9,224 submitted low bid to Bureau of Yards and Docks, Navy Department, Washington, D. C., for freight elevators at the Naval Operating Base, Pearl Harbor, T. H. Specification No. 7122. Complete list of bids will be published shortly.

WASHINGTON, D. C.—R. G. Meyler Corp., 408 S Spring St., Los Angeles, at \$69,000 submitted low bid to Bureau of Yards and Docks, Navy Department, Washington, D. C., for the removal of four 250-hp. boilers, two boiler feed pumps, feed water heater, certain walkways, piping accessories and their replacement with three 500-hp. water tube boilers including foundations, setting, oil-burning units, soot blowers, deaerating feed water heater, boiler feed pumps, boiler appurtenances, walkways, alterations to breeching and complete piping systems and accessories, at the naval operating base, San Diego; Spec. No. 7171.

Second low bid was submitted by A. D. Granger, New York City, at \$69,608. Complete list of bids will be published shortly.

WASHINGTON, D. C.—Dravo Contracting Co., Pittsburgh, at \$352,680 awarded contract by Bureau of Yards and Docks, Navy Department, Washington, D. C., for a steel floating dock, 393 ft. long and 50 ft. beam, having a closed bow and a hanged gate at

the stern, and including oil engine generator, pumps, piping and electric power and light systems for the Naval Operating Base (destroyer base) San Diego. Specification No. 6532. Second low bid was submitted by Pusey and Jones Corp., Wilmington, Del., at \$359,860. Complete list of bids will be published shortly.

Sub-Contracts Awarded. HOSPITAL BUILDINGS

Contract Price, \$898,816
SAN FRANCISCO. Fort Miley.
Six - story reinforced concrete hospital (300 beds) 3-story concrete administration bldg., nurses' home, garage, storehouse, laundry, etc. (prepared roof).

Owner—United States Government.
Plans by U. S. Veterans' Administration, Veterans' Hospital, Palo Alto
Contractor—Herbert M. Baruch Corp., 625 S Olive St., Los Angeles.

Machine Excavation—R. A. Parish, 14 Pinehurst Way.

Concrete Piles—Western Foundation Co., Chicago.

Placing Reinforcing Steel—H. Krueper 1608 Micheltorena, Los Angeles.

Steel Sash—Soule Steel Co., 1750 Army Street.

Insect Screens—Concrete Engr. Co., 1280 Indiana St.

As previously reported, reinforcing steel awarded to Gulf Steel Co., Birmingham, Ala.; wrecking to California Wrecking Co., 666 Mission St..

Mr. Paul Neal, representative of the Earuch Corp., is at the Gaylord Hotel, 620 Jones St., San Francisco, and is receiving sub-bids on all portions of the work.

SAN RAFAEL, Marin Co., Calif.—Following bids received by Constructing Quartermaster, Hamilton Field, San Rafael, to furnish:

- (1) 8 gas meters, 5-B, tinned steel east, L. P.;
- (2) 1 gas meter, 25-B, I. C., H. P.;
- (3) 8 regulators, $\frac{3}{4}$ -in. x $\frac{3}{4}$ -in., Type II, spring loaded.
- (4) 16 caps, 5-light, GMI, Standard;
- (5) 16 swivels, do;
- (6) 16 gaskets, 5-light, motor connection.

Bidders and unit bids follow:

(A) Pittsburgh Equitable Equip. Co. Oakland, (1) \$3.70 (2) \$28.90 (3) \$3.40 (4) \$.05 (5) \$.04 (6) \$.01.

(B) Pacific Meter Works of the American Meter Co., San Francisco, (1) \$8.36 (2) \$41.25 (3) \$5.90 (4) \$.0305 (5) \$.0435 (6) no charge.

Bids held under advisement.

PEARL HARBOR, T. H.—Bids are being received by Bureau of Yards & Docks, Navy Department, Washington, D. C., for building at the Navy Yard, Pearl Harbor, T. H. Work involves: concrete construction, hollow tile, steel and iron work, built-up roof and sheet metal, steel windows, pressed steel, steel rolling and metal covered doors; plastering; slate and tile work; two ton crane; freight elevator; wet pipe sprinkler system; plumbing and electrical systems. Spec. No. 7074. Date of opening bids not yet set.

WASHINGTON, D. C.—Until May 3, bids will be received by the Bureau of Yards and Docks, Navy Department, Washington, D. C., for pier and two quays of reinforced concrete construction, supported on concrete cylinders on wood piles and on concrete piles and includes a steel sheet pile bulkhead, timber fender systems, track work, piping and electrical conduits at Pearl Harbor, T. H. Spec. No. 7224. Estimated cost, \$800,000.

WASHINGTON, D. C.—Until March 27, 2 P. M., bids will be received by Supervising Architect, Treasury De-

partment, Washington, D. C., for metal shelving, metal counters, etc., in the United States post office at Alameda, Calif. Plans and specifications available from above office and from the Custodian at the building.

SACRAMENTO, Cal.—Anderson & Cristofani, Innes and Griffith Sts., San Francisco, at \$428 submitted low bid to U. S. Engineer Office, Sacramento, to drydock, paint and repair the U. S. Engineer Department deck barge "L." Complete bids follow:
Anderson & Cristofani.....\$428.00
Crowley Launch & Tug Boat Company 564.00
Bundesen and Luritzen, Pittsburg 597.00
General Eng. & Dry Dock Co..... 895.00
F. L. Fulton Shipyard, Antioch 907.40
Engineer's Estimate 950.00
Bids held under advisement.

MARE ISLAND, Calif.—Following bids received by Navy Purchasing Department, 100 Harrison Street, San Francisco, for the erection of a complete antenna system at the U. S. Naval High Power Radio Station at Mare Island Navy Yard.

Severin Electric Co., 172 Clara St., San Francisco.....\$12,889
H. S. Tittle Co., S. F..... 17,080
Butte Elec. & Mfg. Co., S. F.....
(a) Equip. furn. by Navy.....\$11,802.26
(b) Supply tractor..... 12,522.66
(c) Materials only 6,532.36
Bids held under advisement.

SUNNVALE, Santa Clara Co., Cal.—Until March 14, 11 A. M. (date postponed from March 7) bids will be received by Public Works Officer, 12th Naval District, 100 Harrison St., San Francisco, for improvements to the mobile telescopic mooring mast at the Naval Air Station, Sunnyvale. Spec. No. 7226. Work includes a steel hatchway in the roof of the winch house, carbon dioxide fire extinguishing system for the mast top and the power house, a market for centering the telescopic mast, electric light circuit and fixtures, etc. Plans and specifications available from above office upon deposit of \$5.00.

SAN FRANCISCO.—Until March 21, 11 A. M., bids will be received by Constructing Quartermaster, Ft. Mason, for construction of a 300 lineal foot timber and creosoted pile bulkhead extension along the bay shore at Crissy Field, San Francisco.

8—CLUB BUILDINGS

Bids Opened.
CLUBHOUSE Cost, \$2000
SAN MATEO, San Mateo Co., Calif.
Foot of Peninsular Avenue.
One-story frame and stucco clubhouse (40x30 ft.) Spanish type, tile roof, metal sash, electric heat (will house administrative offices, rest rooms and small cafe).
Owner—City of San Mateo.
Architect—Thomas M. Edwards, 550 Montgomery St., San Francisco.
Low Bidder—Moore and Roberts, 461 Market St., San Francisco.

Following is a complete list of bids:
Moore & Roberts, S. F..... \$2,435
I. Sorensen, Burlingame..... 2,630
W. Waterhouse, San Mateo..... 2,778
Frank Ferrea, San Mateo..... 2,910
A. F. Mattock, S. F..... 2,934
R. E. Broderick, San Mateo..... 3,000
P. Garrell 3,183
Black & Campbell, Palo Alto..... 3,195
G. W. Williams Co., Burlingame.. 3,385
Bids held under advisement until March 17, 4 P. M.

9—HOSPITALS

Sub-Contracts Awarded.
ADDITION Cost, \$5000
SAN JOSE, Santa Clara Co., Cal. 21st and Santa Clara Sts.
Frame and stucco addition to sanitarium (to accommodate physiotherapy X-ray and surgery depts., rest rooms, etc.)
Owner—Garden City Sanitarium (Dr. Charles R. Campbell, et al), San Jose.
Architect—Not Given.
Contractor—R. C. Knight, Mountain View.
Plastering—Lloyd Rudy, 399 N-19th St., San Jose.
Painting—Otto Freeborn, Mt. View.
Plumbing—J. Dorius, San Jose.
Heating—A. J. Gratton, 702 Ashbury St., San Jose.
Cement—M. A. Pyle, 1144 N-First St., San Jose.

12—POWER PLANTS

LOS ANGELES, Cal.—Engineers for the Metropolitan Water District are completing specifications for substations to be built on the Mecca Pass-Colorado River transmission line and expect to call for bids within the next three weeks for the construction of these stations. The proposed stations will include 66-kv. substations at Hayfield and at Granite, a 33-kv. station at Parker on the Colorado River, and about 12 smaller distribution stations along the line. The major equipment, including switches, has been purchased under separate orders. J. M. Gaylord is the Chief Electrical Engineer. F. E. Weymouth, General Manager and Chief Engineer.

Preparing Plans.
SUBSTATION Cost, \$25,000
PASADENA, Los Angeles Co., Calif.
Santa Ana Avenue.
Reinforced concrete substation.
Owner—Pasadena Municipal Light and Power Department.
Architect—Robt. H. Ainsworth, Central Bldg., Pasadena.
Electrical equipment will cost \$350,000.

13—PUBLIC BUILDINGS FIRE HOUSES & JAILS

Planned.
ADDITION Cost, \$107,000
EXETER, Tulare Co., Cal.
Fireproof addition to courthouse.
Owner—County of Tulare.
Architect—Not Selected.

SAN FRANCISCO—San Francisco War Memorial Trustees rejected all bids for kitchen equipment for the Veterans' Building, Civic Center. Specifications are being revised and new bids will be asked in about one week. On previous bid opening lowest bid was submitted by James A. Nelson, 10th and Howard Sts., at \$3882.

Bids Wanted—To Close March 29, 2:30 P. M.

JAIL Cost, \$490,000
SNEATH RANCH, San Mateo County.
Seven-story men's jail building and two-story women's jail building (Class B reinforced concrete construction, tar and gravel roof, concrete floors, mastic finish in cell block, steel cells, steel sash, steam heat, ventilating system, laundry, kitchen, sewage disposal plant farm group).

Owner—City and County of San Francisco.
Architect—Albert F. Roller, Crocker

First National Bank Bldg., San Francisco.
Associate Architect—Dodge A. Riedy, Pacific Bldg., San Francisco.
Structural Engineer—H. J. Brunner, Sharon Bldg., San Francisco.

Preliminary Plans Completed.
SAN FRANCISCO. Ellis Street.
REMODEL Cost, \$—
Remodel school annex for police station.
Owner—City and County of San Francisco.
Architect—Not Given.
Plans by Bureau of Architecture (Chas. Sawyer, architect), City Hall.

Plans Completed.
ALTERATIONS Cost, \$26,000
SAN FRANCISCO. Municipal Auditorium.
Remodel 3rd and 4th Floors of the Municipal Auditorium (house offices of the Board of Education).
Owner—City and County of San Francisco.
Plans by Bureau of Architecture (Chas. Sawyer, Architect), City Hall.

14—RESIDENCES

Contract Awarded.
RESIDENCE Cost, \$4000
SAN JOSE, Santa Clara Co., Cal. Grant St., bet. First and Almaden
One-story and basement frame and stucco residence (5 rooms).
Owner—John Catania, Almaden Road
Architect—Not Given.
Contractor—J. Santi, 545 Madera Ave., San Jose.

Contract Awarded.
ALTERATIONS Cost, \$3000
SAN JOSE, Santa Clara Co., Cal. No. 189 S-Eleventh St.
Alterations to frame and stucco residence.
Owner—Miss K. H. Hall, 1675 S-11th St., San Jose.
Architect—Not Given.
Contractor—J. Moore, 75 Duane St., San Jose.

Contract Awarded.
RESIDENCE Cost, \$4000
SAN JOSE, Santa Clara Co., Cal. 4th St. near Taylor St.
One-story and basement frame and stucco residence (5 rooms).
Owner—Victor Pieracci, 1595 Hester Ave., San Jose.
Architect—Not Given.
Contractor—Sherrill Fleming, 727 Riverside Ave., San Jose.

Contract Awarded.
RESIDENCE Cost, \$4000
ALAMEDA, Alameda Co., Cal. No. 2625 Otis Drive.
One-story and basement frame and stucco residence (6 rooms).
Owner—C. G. Mehrtens, 1536 Webster St., Oakland.
Architect—Not Given.
Contractor—P. Royal Haulman, 1243 Broadway, Oakland.

Sub-Contracts Awarded.
RESIDENCE Cost, —
ORINDA, Contra Costa Co., Cal.
Two-story brick veneer residence (tile roof, steel sash, hot air heating system, etc.)
Owner—L. P. Dodson, 474 Walker St., Oakland.
Architect—Newsom Bros., Russ Bldg., San Francisco.
Contractor—F. C. Stolte, 3449 Laguna St., Oakland.
Lumber—Sunset Lumber Co., 400 High St., Oakland.

Brick Work—Geo. Anderson, Oakland.
Sheet Metal—Christiansen & Grutsch, 444 Piedmont Ave., Piedmont.
Steel Sash—Michel & Pfeffer Iron Works, Harrison and Tenth Sts., San Francisco.

Sub-Contracts Awarded.
RESIDENCE Cost, \$4000
ALAMEDA, Alameda Co., Calif. 2625 Otis Drive.
One-story and basement frame and stucco residence (6 rooms) tar and gravel roof and part tile, gas heating system, hardwood floors, etc.
Owner—C. G. Mehrtens, 1536 Webster St., Oakland.
Architect—Not Given.
Contractor—P. Royal Haulman, 1243 Broadway, Oakland.
Concrete—L. Scaramelli, 916 Broadway, Oakland.
Lumber—Loop Lumber Co., Broadway and Blanding, Oakland.

Sub-Contracts Awarded.
RESIDENCE Cost, \$9350
PIEDMONT, Alameda Co., Calif. St. James Wood.
Two-story and basement frame and stucco residence (English type) shingle roof, gas heating system.
Owner—Dr. Geo. F. Ames, 39 York Drive, Piedmont.
Architect—Miller & Warnecke, Financial Center Bldg., Oakland.
Contractor—Albert Hammarberg, 2340 LeConte St., Berkeley.
Excavating—Ariss-Knapp Co., 961 41st St., Oakland.
Plumbing—J. R. Pierce Plumbing Co., 7109 E 14th St., Oakland.
Concrete—Manuel Medis, 2427 Scenic Ave., Oakland.
Lumber—Tilden Lumber Co., foot of University Ave., Berkeley.
Sash and Doors—Matheny, 4200 E 14th St., Oakland.
Plastering—John Sherman, 2119 Oregon St., Berkeley.

Sub-Bids Being Taken.
ALTERATIONS Cost, \$2500
SAN JOSE, Santa Clara Co., Calif. 1200 S Second Street.
Alterations and additions to frame residence (add 3 rooms, cement plaster, oak floor, ceramic tile, roofing, plumbing, heating, etc.)
Owner—P. Raggio, 1200 S Second St., San Jose.
Architect—Wm. Higgins, 19 N Second St., San Jose.
Sub-bids are being received by the architect.

Sub-Bids Being Taken.
RESIDENCE Cost, \$7500
SAN FRANCISCO. St. Francis Wood.
Two-story and basement frame and stucco residence, tile roof, gas heat hardwood floors, etc.
Owner—Alfred Matthews.
Architect—Masten & Hurd, 233 Post Street.
Contractor—Moore and Madsen, 557 Market Street.

Sub-Contracts Awarded.
RESIDENCE Cost, \$7500
SAN MATEO, San Mateo Co., Calif. Fairfax Avenue.
Two-story frame and stucco residence.
Owner—C. N. Westzard, 123 N Ellsworth St., San Mateo.
Architect—Not Given.
Contractor—Lengfeld & Olund, 220 3rd St., San Mateo.
Lumber—Wishom Lbr. Co., Fifth and Claremont, San Mateo.
Mill Work—Worden Mill Co., San Mateo.
Concrete Material—H. E. Casey Co., San Mateo.
Concrete Work—Camerotto & Moretto, San Mateo.
Sub-bids are being taken on plumbing, plastering, tile work, electric and hardwood floors, etc.

Sub-Contracts Awarded.
RESIDENCE Cost, \$6500
BERKELEY, Alameda Co., Cal. Berkeley Highlands.
Two-story frame and stucco residence (6 rooms) shingle roof, gas heat-

ing, hardwood floors, tiled baths, etc.
Owner—T. Y. Johnson.
Architect—E. L. Snyder, 2102 Addison St., Berkeley.
Contractor—J. M. Walker, 1709 Grove St., Berkeley.
Excavation—J. Henry Harris, 2208 Roosevelt St., Berkeley.
Lumber—Tilden Lumber Co., Berkeley
Steel Sash—Michel & Pfeffer Iron Works, Harrison and Tenth Sts., San Francisco.
Carpentry—J. Gruenwald, Berkeley.

Preparing Working Drawings.
RESIDENCE Cost, \$8500
OAKLAND, Alameda Co., Cal. Oakmore Highlands.
Two-story and basement frame and stucco residence (7 rooms and 3 baths); shake roof, gas heating, steel sash, colored tile baths, electric refrigeration, etc.
Owner—Withheld.
Architect—E. L. Snyder, 2102 Addison St., Berkeley.
Bids will be asked in about one week.

Contract Awarded.
RESIDENCE Cost, \$7500
SAN MATEO, San Mateo Co., Cal. Fairfax Avenue.
Two-story frame and stucco residence.
Owner—C. N. Westzard, 123 N. Ellsworth St., San Mateo.
Architect—Not Given.
Contractor—Lengfeld & Olund, 220 Third St., San Mateo.

Contract Awarded.
RESIDENCE Cost, \$5000
SAN MATEO, San Mateo Co., Cal. El Camino Real.
One-story and basement frame and stucco residence.
Owner—Hans Thomsen, 25 E-Santa Inez Ave., San Mateo.
Architect—Not Given.
Contractor—Chris Sorensen, 63 Douglas St., San Francisco.

Contract Awarded.
RESIDENCE Cost, \$7000
CROCKETT, Contra Costa Co., Cal.
Two-story and basement frame and stucco residence (7 rooms and 2 baths); tile roof, gas heat, tiled baths, etc.
Owner—A. Valli.
Architect—Chas. Perry, 514 Marin St., Vallejo, and 540 Alcatraz Ave., Oakland.
Contractor—Karl Koller, Crockett.

Low Bidder.
RESIDENCE Cost, \$9500
SAN JOSE, Santa Clara Co., Calif. Hillcrest Avenue.
One and one-half-story and basement frame and brick veneer residence (7 rooms and 2 baths); shingle roof, gas heating system, hardwood floors, tiled baths, etc.
Owner—Alvin Long.
Architect—William Higgins, 19 N. 2nd St., San Jose.
Low Bidder—Gibson & Wheeler, Bank of San Jose Bldg., San Jose.

15—SCHOOLS

BERKELEY, Alameda Co. Cal.—Universal Tool & Manufacturing Co., 109 New Montgomery St., San Francisco, at \$1650 awarded contract by Berkeley Board of Education for furnishing fire alarm equipment.

LOS ANGELES, Cal.—Until 11 A. M. March 15 (opening date postponed from March 8) bids will be received by the Regents of the University of California for a wing addition to the chemistry building at the University of California at Los Angeles. Separate bids will be taken as follows: (1) general construction; (2) heating and ventilating; (3) plumbing; (4) elec-

trical work. Plans may be obtained from the Comptroller, 48 Library, University of California at Los Angeles, 405 Hilgard Ave., Los Angeles, upon deposit of \$100. The addition will be a 3-story, basement and sub-basement, L-shaped structure, 143x105 ft. in area; steel frame construction, concrete and brick walls, concrete floors and stairs, brick exterior, terra cotta tile roof, ornamental terra cotta, steel windows, metal furring and lathing, dampproofing, marble and tile work, hollow metal doors, slate blackboards, ventilating, high and low pressure steam and return piping, etc. Plans and specifications are on file for examination at the office of the Southwest Builder and Contractor, 158 S Hill St., Los Angeles. G. W. Kelham, architect, 315 Montgomery St., San Francisco; H. J. Brunner, structural engineer, Sharon Bldg., San Francisco; Hunter & Hudson, mechanical engineers, 41 Sutter St., San Francisco. The following contractors have procured plans (all being of Los Angeles unless otherwise specified):

General Work

C. L. Peck, 354 S Spring St.
C. J. Kubach-Snyder Co., 730 Chapman Bldg.
Weymouth Crowell Co., 2104 E 15th Street.
H. Mayson, 9317 Hooper Ave.
David J. Reed, 6348 Colgate Ave.
Clinton Const. Co., 1103 Spring-Arcade Bldg.
J. F. Kobler, 932 S Rimpau Ave.
Bannister-Field Co., 4101 Goodwin Avenue.

Pozzo Const. Co., 421 Macy St.
Wm. J. Shirley, 1724 S Vermont Ave.

Heating and Ventilating

Lohman Bros., 232 S Spring St.
Howe Bros., 1198 S San Pedro St.
F. D. Reed Plumbing Co., 1573 E 23rd St.
Johnston & Washer, 1706 N Spring Street.

Munger & Munger, 174 East Union, Pasadena.

Johnson & Reeves, 1112 S Central Ave., Glendale.

F. C. Schilling, 3215 Beverly Blvd.

Plumbing

Johnston & Washer, 1706 N Spring Street.

Munger & Munger, 174 East Union, Pasadena.

F. C. Schilling, 3215 Beverly Blvd.

F. D. Reed Plumbing Co., 1573 E 23rd St.

Lohman Bros., 232 S Spring St.

Electrical Work

Newbery Electric Co., 1038 Venice Blvd.

Norton & Norton Electric Co., 1375 N Broadway.

R. R. Jones Electric Co., 1124 South Fair Oaks, South Pasadena.

Moore Electric Co., 321 W 3rd St.

H. H. Walker, 1323 Venice Blvd.

Gerard Vande, 1876 W 38th Place.

Contract Awarded.

STORE Cost, \$72,000
SANTA ANA, Orange Co., Cal. NE Fourth and Main Streets.

Three-story and basement steel frame department store (100x100 ft.) brick walls, composition and tile roofing, wood floor joists, art stone exterior facing, tile bulkheads, plate glass, copper fronts cement and maple floors, metal toilet partitions, gas-steam radiator, ornamental iron, freight elevator, etc.

Owner—Montgomery Ward & Co.
Architect—W. Horace Austin, Hill Bldg., Santa Ana.
Contractor—Thermon Means, 611 E. First St., Santa Ana.

Elevator will be awarded under separate contract.

BERKELEY, Alameda Co., Cal.—Until March 15, 8 P. M., quotations will be received by Berkeley Board of Education for auxiliary fire alarm boxes and bell ringing panels, enclosed in metal cabinets.

Bids Wanted—To Close March 27, 7:30 P. M.

SCHOOL Cost, \$100,000
NORTH SACRAMENTO, Sacramento County, Calif.

One and two-story Class C brick high school (17 classrooms) gymnasium two shop rooms, etc.

Owner—Grant Union High School District.

Architect—Harry Devine, California State Life Bldg., Sacramento.

Plans and specifications available from the offices of the architect upon deposit of \$20.

BERKELEY, Alameda Co., Cal.—Bay Cities Asbestos Company, 188 Tenth St., Oakland, at \$843 awarded contract by Berkeley Board of Education for re-roofing the Franklin School. Following bids received:
Bay Cities Asbestos Co., Oakland, \$843
*E. G. West..... 729
*Guy Tyler..... 762
*H. A. Goodmanson..... 790
San Jose Building & Supply Co., 898 Star Roofing Company..... 905
Western Roofing Company..... 923
Crown Roofing Co..... 962
W. L. & W. C. Rideout..... 996
*Bids did not comply with specifications.

Contract Awarded.

STORE Cont. Price, \$6381
OAKLAND, Alameda Co., Cal. No. 3246 Lakeshore Avenue.

One-story brick store (50x75 feet).

Owner—D. H. Murnik.

Architect—Miller & Warnecke, Financial Center Bldg., Oakland.

Contractor—John J. Moore Co., 334 Hobart St., Oakland.

Prospective Bidders.

ADDITION Cost, \$50,000
DALY CITY, San Mateo Co., Cal.

Class C concrete addition to high school (add six classrooms) wood joists, tile roof, wood and concrete floors, steam heating system, etc.

Owner—Jefferson Union High School District.

Architect—Resing & McGuinness, 488 Pine St., San Francisco.

Following have procured plans. Bids open March 20, 12 Noon.

General Work

M. & M. Home Builders.
Alfred P. Fisher, Hunter - Dulin Bldg., San Francisco.

A. Nelson, 212 Ocean Avenue, San Francisco.

F. C. Amoroso & Sons, Wallace and Keith Sts., San Francisco.

F. J. Early, Jr., 369 Pine St., San Francisco.

O. Monson, 475 6th St., San Francisco.

H. H. Larsen, 64 South Park Street, San Francisco.

G. W. Williams Co., 315 Primrose Road, Burlingame.

Young & Horstmeyer, 461 Market St., San Francisco.

J. Harold Johnson, 639 Brannan St., San Francisco.

DeLuca & Son, 666 Mission Street, San Francisco.

Cahill Bros., 206 Sansome St., San Francisco.

Joel Johnson, 1614 Church St., San Francisco.

Peter Sartorio, 2440 Greenwich St., San Francisco.

H. L. Petersen, 731 Treat Ave., San Francisco.

Anderson & Ringrose, 320 Market St., San Francisco.

Electric

Central Electric Co., 179 Minna St., San Francisco.

Decker Electric Co., 538 Bryant St., San Francisco.

Reliable Electric Co., 728 S 2nd St., San Jose.

N. C. Nicklassen, 51A Downey St., San Francisco.

Lynn & Heffernan, 114 Ashton Ave., San Francisco.

Heating

F. W. Snook, 596 Clay Street, San Francisco.

Mechanical Cont. Co., 83 Shipley St., San Francisco.

Scott Machinery Co., 960 Folsom St., San Francisco.

Scott Co., 243 Minna St., San Francisco.

To Be Done By Day's Work.

ALTERATIONS Cost, \$1500
OAKLAND, Alameda Co., Cal. No. 1201 Second Street.

Alterations to building.

Owner—E. M. Bullard, 535 Liberty St., El Cerrito.

Architect—Not Given.

Bids In—Held Under Adjudication.
BLEACHERS, ETC. Cost, \$—
OAKLAND, Alameda Co., Cal. Mills College.

Wood frame bleachers (to seat 1500) general lighting system.

Owner—Mills College, Seminary and Camden Sts., Oakland.

Architect—W. H. Ratcliff, Jr., Chamber of Commerce Bldg., Berkeley. Announcement will be made shortly.

16—BANKS, STORES AND OFFICES

Plans Being Revised.

STORE Cost, \$10,000
MONTEREY, Monterey Co., Cal. Del Monte Avenue.

One-story concrete store (70x25 ft.); tile roof, plate glass front, etc.

Owner—Mrs. L. R. Bussey, 518 Light-house Ave., Monterey.

Architect—Not Given.

Lessee—American Railway Express Co., Second and Mission Sts., San Francisco.

It is expected to ask bids in about one week.

Contract Awarded.

ALTERATIONS Cost, \$2000
SAN FRANCISCO, No. 1918-20 Hayes Street.

Alterations to store front.

Owner—Crocker First Federal Trust Co., Post and Montgomery Sts., San Francisco.

Architect—Not Given.

Contractor—George Wagner, 181 South Park, San Francisco.

Contract Awarded.

ALTERATIONS Cost, \$3000
SAN FRANCISCO, No. 30 Third St.

Alterations to restaurant.

Owner—Kane's Log Cabin, 34 Third St., San Francisco.

Plans by Mullen Mfg. Co.
Contractor—Mullen Manufacturing Co., 60 Rausch St., San Francisco

Plans Being Prepared.

BUILDING Cost, \$—
BERKELEY, Alameda Co., Cal. Telegraph Ave. near Bancroft.

New building.

Owner—Mrs. Weeks.

Architect—Stafford Jory, 1370 Euclid Ave., Berkeley.

Present building on site is being wrecked by Symon Bros. Wrecking Company, 22nd Ave. and E-14th St., Oakland. Further information as to type of building, etc., will be announced shortly.

To Be Done By Day's Work.

ALTERATIONS Cost, \$2000
SAN FRANCISCO, No. 232-234-236 Fifth Street.

Alterations to store.

Owner — S. Ran, 234 Fifth St., San Francisco.
Architect—Not Given.

Contract Awarded.
ALTERATIONS Cost, \$2000
SAN FRANCISCO. No. 606 Clement Street.
Owner—C. B. Harrison, 606 Clement St., San Francisco.
Architect—Not Given.
Contractor—John Bothe, 246 Parker Ave., San Francisco.

Sub-Contracts Awarded.
REBUILD. Cost, \$6500
SAN FRANCISCO. No. 1111 Market Street.
Rebuild portion of three-story building recently damaged by fire.
Owner—California Mutual Building & Loan Company.
Architect—Dodge Riedy, Pacific Bldg., San Francisco.
Lessee—California Food Palace.
Contractor—Ira W. Coburn, 2048 Market St., San Francisco.
Plumbing—Frank J. Klimm, 456 Ellis St., San Francisco.
Glass—Habenicht & Howlett, 529 Clay St., San Francisco.
Electric — Central Electric Co., 179 Minna St., San Francisco.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$—
OAKLAND, Alameda Co., Cal. No. 2401 Telegraph Avenue.
Alterations to store (replastering, change partitions, painting, etc.)
Owner—Central Savings Bank.
Plans by Owner.
Contractor—C. H. Thrans, 28 Home Place, Oakland.
Lessee—Public Food Stores.
Glass—East Bay Glass Co., 621 6th St., Oakland.
Plumbing—B. H. Beynon, 855 53rd St., Oakland.
Electric—East Bay Electric Co., Inc., 130 12th St., Oakland.
Ornamental Iron Work — Oakland Welding & Ornamental Iron Wks., 746 21st St., Oakland.

Being Done By Day's Work.
MARKET Cost, \$4500
EL CERRITO, Contra Costa Co., Cal. San Pablo Ave. at County Line.
One-story market (90x140 ft.) concrete foundations, brick walls, corrugated iron roof, asphalt floors, etc.
Owner—Yee Shew Lung.
Plans by L. F. Hyde, 705 25th St., Oakland.
Mgr. of Constr. — A. A. McDonald, Premises

Sub-Contracts Awarded
MARKET Cost, \$20,000
BERKELEY, Alameda Co., Cal. Haste St. and Telegraph Avenue.
One-story Class C market; steel sash, wire glass in sash and skylights, concrete floor, steel roof trusses, stainless steel light reflectors, modernistic polished metal sash bars, metal glass sliding door front, refrigeration machinery, cork lining for approximately 3500 cu. ft. of storage, electric wiring, light fixtures, etc.
Owner — Henslee Corp., % Bells-Gilberg, Ltd., 366 17th St., Oakland.
Architect —A. W. Smith, American Bank Bldg., Oakland.
Contractor — Gede Construction Co., 1820 Chase St., Oakland.
Plumbing—J. R. Pierce, 7109 E-14th St., Oakland.
Concrete Materials—Transit Concrete Co., Ltd., 2500 Peralta St., Oakland.
As previously reported, structural steel awarded to Independent Iron Works, Ltd., 1820 Chase St., Oakland.

Sub-Contracts Awarded.
MARKET Cost, \$4800
SALINAS, Monterey Co., Cal.
One-story reinforced concrete market (92x50 ft.) L-Shaped.
Owner—Joe Felice, Hollister.
Plans by Mervin Campbell, Salinas.
Contractor—J. S. Boyd, 603 Riker St., Salinas.
Concrete—Standard Rock Co., Salinas.
Iron Work—San Jose Iron Works, 535 W. San Carlos St., San Jose.
Lumber and Roofing—Tynan Lumber Co., Salinas.

Sub-Blds Wanted.
STORE Cost, \$—
BERKELEY, Alameda Co., Cal. 2036 Shattuck Avenue.
Two-story brick and concrete store (brick and terra cotta facing, composition roof, structural steel, cement, hardwood and terrazzo floors, plate glass, metal fire doors ornamental iron, gas heating, etc.)
Owner—S. H. Kress Co., 114 5th Ave., New York City.
Plans by Eng. Dept. of Owner.
Mr. Keegan, representative of the Kress Company, Sir Francis Drake Hotel, San Francisco, is receiving bids on plumbing, heating, electrical work and painting. All other bids received are being held under advisement for about one week.

Contract Awarded.
ALTERATIONS Cost, \$3000
SAN JOSE, Santa Clara Co., Cal. No. 265 S-First St.
Alter marquis for theatre.
Owner—American Theatre, Premises.
Architect—Not Given.
Contractor—Schutte Bros., 37 Fountain St., San Jose.

Electrical Contract Awarded.
REPAIRS Cost, \$5000
SAN FRANCISCO. No. 915 Columbus Avenue.
Repair fire damage to cafe.
Owner—Edward Cerruti, 775 Lombard St., San Francisco.
Architect—Not Given.
Lessee—Louis Maggiora, 1041 Filbert St., San Francisco.
Electric—G. Vaccarino, 1909 Hyde St., San Francisco.
As previously reported, glass awarded to Figoni Hardware Co., 1351 Grant Ave.; sheet metal to John J. Delucchi, 1526 Powell St.

Sub-Contracts Awarded.
STORE Cost, \$5352
OAKLAND, Alameda Co., Calif. 528 Seventh Street.
One-story brick store.
Owner—Emil Arndt, 320 5th St., Oakland.
Architect—Not Given.
Contractor—H. J. Christensen, Ray Bldg., Oakland.
Plumbing—Max Saylor, Oakland.
Lumber—Sunset Lumber Co., 400 High St., Oakland.

Contract Awarded.
ADDITION Cost, \$—
SAN FRANCISCO. No. 18 Geary St.
Addition to building for retail bakery.
Owner—Foster's Lunch System.
Plans by Austin B. Murray.
Contractor—Austin B. Murray, 1055 Mission St., San Francisco.

Contract Awarded.
ALTERATIONS Cost, \$1500
SAN FRANCISCO. No. 3239-41 Twenty-second Street.
Alterations to stores.
Owner—Klumpkey Estate, 63 Brady St., San Francisco.
Architect—Not Given.
Contractor—A. L. Thulin, 63 Brady Street, San Francisco.

18—WHARVES & DOCKS

PORTLAND, Ore.—Liesch & Tofté, Marshfield, Oregon, at \$164,500.50 submitted low bid to U. S. Engineer office Portland, to construct wharf, marine dolphins, trestle, land track-age, two axial dikes, revetment and two pile and stone dikes, at Sand Island, in Columbia River, about 10 mi. below Astoria, Ore.

19—MISC. CONSTRUCTION

Leveling Contract Awarded.
TENNIS COURTS Cost, \$1500
SAN BRUNO, San Mateo Co., Cal. West end of Jenevin Avenue.
Two double tennis courts (110x112 ft.)
Owner—City of San Bruno.
Plans by Engineering Dept. of Owner.
Leveling — Don Powers and Ralph Holliday, San Bruno, at \$138.

Contract Awarded.
GREENHOUSE, ETC. Cost, \$—
RIVERSIDE, Riverside Co., Cal. Citrus Experimental Station.
Steel and glass greenhouse, headhouse and water distillation plant.
Owner—University of California.
Architect—G. Stanley Wilson, 416-18 Mission Inn, Riverside.
Contractor — Contracting Engineers, Inc., 2310½ W. Vernon Ave., Los Angeles.

SAN FRANCISCO—Until March 16, 3 P. M., (date postponed from March 8) bids will be received by Felton Taylor, Secretary, Public Utilities Commission, Room 225, City Hall, for changing heating system in the San Francisco Water Department Building, from district steam supply to a steam generating plant, using gas as fuel. Specification W.D. No. 31. Work involves:
(1) Furnishing and installing new heating system, new radiator, pipes, etc.
(2) Furnishing and installing two new hot water tanks.
Estimated cost \$3000.
Specifications may be procured at Room 365, San Francisco Water Department Building, 425 Mason St., upon deposit of \$5.

OREGON CITY, Oregon—George H. Buckler Company, Lewis Bldg., Portland, has been awarded contract for the construction of a series of flumes and conveyors for the Hawley Pulp & Paper Company's plant at Oregon City. Flumes will be of metal and wood construction.

Plans Completed.
BASEBALL PARK Cost, \$75,000
SEATTLE, Washington.
New baseball park (wood stands, concrete foundation, with steel girder supports (to seat 15,000)
Owner—Seattle Baseball Park Assn. (Fred Rivers, Secretary), Butler Hotel, Seattle.
Plans by Edward Garrick, 3080 Anderson St., Seattle.
Construction will start in about ten days.

Preparing Plans.
RACING PLANT Cost, \$—
PUENTE, Los Angeles Co., Cal. Valley Blvd. and Covina Pass Road.
Horse racing plant and amusement center.
Owner—El Vei Recreational Center, Inc., H. M. Gilliam, Mgr.
Architect—Adrian J. Wilson and Erle F. Webster, Architects Bldg., Los Angeles.
Engineer—C. A. Sanborn & Co., 357 S. Hill St., Los Angeles.

ENGINEERING NEWS

21—BRIDGES

LAKE COUNTY, Cal.—Until March 16, 2:30 P. M., bids will be received by C. H. Whitmore, District Engineer, State Highway Commission, 502 State Office Bldg., Sacramento, to remove an existing timber bridge and construct a reinforced concrete slab bridge across Morrison Creek, 28 mi. east of Mendocino County line, consisting of two 30-ft. spans on a concrete pier and concrete abutments, involving:

- (1) 600 cu. yds. struc. excav.;
- (2) 170 cu. yds. rdwy. excav., unclass.
- (3) 192 cu. yds. Class A Portland cement concrete (footing blocks);
- (4) 280 do (structures);
- (5) 6 cu. yds. Class E Port. cement concrete;
- (6) 36,000 lbs. bar reinf. steel;
- (7) 6.5 cu. yds. sand fill;
- (8) 1 existing bridge, remove;
- (9) 1 existing pipe line, move.

Specifications obtainable from above office. Certified check 10% required with bid.

KLAMATH COUNTY, Ore.—Until March 15, 9 A. M., bids will be received by State Highway Commission, Multnomah Hotel, Portland, to construct a bridge over Crooked Creek on The Dalles-California Highway 6.5 miles northwest of Chiloquin, involving 400 lin. ft. treated piling, 12 MFEM treated lumber, 35 cu. yds. concrete; 7800 lbs. metal reinf. and 102 lin. ft. composite handrail. Specifications obtainable from State Highway Commission, Room 322, State Office Bldg., Salem, on deposit of \$5, returnable.

SAN DIEGO, Calif.—B. O. Larsen, 1340 E St., San Diego, at \$99,683.05 awarded contract by State Highway Commission to construct a deck plate girder bridge with concrete decks across San Diego River in San Diego, consisting of eight 80-ft. spans on concrete piers and abutments with pile foundations.

SAN FRANCISCO.—Until March 29, 2 P. M. (postponed from March 8) bids will be received by State Department of Public Works, Room 235, City Hall, San Francisco, to construct Contract No. 3, San Francisco Anchorage, San Francisco - Oakland Bay Bridge, involving:

- (1) 50,000 cu. yds. excav., unclass.;
- (2) 2,700,000 lbs. anchorage steel work
- (3) 31,000 cu. yds. mass conc. erection block;
- (4) 34,000 cu. yds. concrete anchorage, mass concrete;
- (5) 3,000 cu. yds. concrete anchorage above lower deck;
- (6) 300 cu. yds. concrete viaduct, footings;
- (7) 5,800 cu. yds. concrete viaduct above footings;
- (8) 200 cu. yds. concrete railings;
- (9) 7,900 cu. yds. concrete foundations, Piers A, B and I;
- (10) 11,500 cu. yds. concrete above foundations, Piers A, B and I;
- (11) 3,000,000 lbs. reinf. steel;
- (12) 25,000 lbs. misc. metal work;
- (13) electric conduits and fittings, a lump sum;
- (14) 20,000 lbs. cast iron drain pipe & fittings;
- (15) 10,000 lbs. castings;
- (16) 2,000 bbls. extra Port. cement;
- (17) lump sum, demolish buildings.

Estimated cost \$1,580,000. San Francisco-Oakland Bay Bridge Office, 500 Sansome St., San Francisco. Chas. H. Purcell, Chief Engineer.

LOS ANGELES, Calif.—Plans for a steel rolled girder bridge with concrete bents and piers, to be built on Soto St. across Ramona Blvd.; and the Pacific Electric Railway tracks will be completed early in April by the Bridge Department of the city engineer's office. R. W. Stewart, engineer in charge. The proposed structure will be 430 ft. long with a 40-ft. roadway. The estimated cost is \$100,000, of which \$93,000 has been allocated from 1926 bridge bond funds.

SIGNAL HILL, Los Angeles Co., Cal.—A. A. Taylor, City Engineer, has been authorized by the Signal Hill city council to prepare plans for a bridge to be built across the railway tracks to be built across the railway tracks. One end of the bridge will be in Long Beach. The decision to construct a bridge in preference to a grade separation was reached by the city councils of the two cities Friday, Feb. 17. Long Beach will probably pay a small share of the cost. Excavating and grading will be done by unemployed forces. No details of the proposed bridge are available except that construction will probably be of creosoted timber.

22—DREDGING, HARBOR WORKS, EXCAVATION

NOME, Alaska—No bids received by U. S. Engineer Office, Seattle, to dredge 5100 cu. yds. of material from Nome Harbor at the mouth of Snake River, Nome; project will not be re-advertised.

PORTLAND, Ore.—Until March 31, 3 P. M., under Bid No. 33-283, bids will be received by U. S. Engineer Office, 321 Customhouse, Portland, to repair South Jetty at Mouth of Columbia River, Oregon and Washington, involving furnishing and placing 1,250,000 tons of stone. Quantities involved follow:

- (1) 165,000 lin. ft. Douglas fir piling;
- (2) 2550 MFEM Douglas fir lumber;
- (3) 57,000 lbs. bolts, drift;
- (4) 107,000 lbs. bolts, machine;
- (5) 87,000 lbs. spikes, ship and wire;
- (6) 63,000 lbs. spikes, railroad;
- (7) 570 tons rails, steel, 75-lb. relay;
- (8) 5 sets frogs and switches, complete;
- (9) 80,000 lin. ft. wire cable, 5/8-in. dia.
- (10) 46,000 lbs. straps, stel;
- (11) 5300 metal pile shoes;
- (12) 10,000 anti-rail creepers;
- (13) 1,250,000 tons stone;
- (14) 570 tons take up and store steel in tracks on mail jetty as directed.

PORTLAND, Ore.—Until March 7, bids will be received by U. S. Engi-

neer Office, 312 Customhouse, Portland, to repair dike at Henrici, on the lower Columbia River; 95 ft. of which were damaged by a passing vessel.

23—IRRIGATION PROJ.

IMPERIAL COUNTY, Cal.—Legislative validation of contracts between the United States Government and water district of Imperial Valley was delayed March 2 by the California legislature until after approval or disapproval of the contracts by the courts. A senate bill by Ben Hulse, Imperial, validating the contracts in connection with the construction of the all-American canal was to have been a special order of business before the assembly committee on irrigation. At the request of members who desired to await result of court action to start in a few days the bill was not taken up. It will be brought before the committee at a later date. Opposition to the measure was expected from representatives of Coachella valley, members of the committee said.

DENVER Colo. — Until March 10, bids will be received by U. S. Bureau of Reclamation, Denver, Colo., to construct lateral structures, Gooding Division Minidoka Project Idaho, under Spec. 587-D, involving:

- (1) 620 cu. yds. excav.;
- (2) 365 cu. yds. backfill, struc.;
- (3) 125 cu. yds. concrete;
- (4) 60 cu. yds. rubble masonry;
- (5) 5500 lbs. reinf. bars;
- (6) 404 lin. ft. 12- to 24-in. corr. metal pipe;
- (7) 4000 lb. gates and gate hoists;
- (8) 2.5 MFEM timber, struc.

Specifications obtainable from above, no deposit to prospective bidders; \$1 to others, not returnable.

25—MACHINERY AND EQUIPMENT

VERNON, Los Angeles Co., Calif.—Bids received by the city council Feb. 28 for furnishing f.o.b. warehouse, 4305 Santa Fe Ave., (1) one 4-wheel trailer with body and (2) one 2-wheel cable reel carrier under Spec. No. 62, are as follows:

- Utility Trailer Sales Co., (1) \$1249.60 (2) no bid.
Pile Auto & Trailer Works, (1) \$1-387 (2) \$1345.

Bids were referred to Howard S. McCurdy, city engineer.

LOS ANGELES, Cal.—All bids cancelled Feb. 28, 1933, by A. J. Holm, City Purchasing Agent for furnishing on 30-day rental basis, one No. 60 Caterpillar tractor and one No. 12 Gallion heavy duty grader with operator. Bids N. 3882.

LOS ANGELES, Calif.—The board of directors of the Metropolitan Water District of Southern California has granted authority to General Manager and Chief Engr. Weymouth to obtain prices and purchase, without advertising for bids, certain used or second-hand equipment and materials for use in the construction of the Coachella tunnels which are being constructed by force account. The general manager explained that for certain work second-hand or used equipment and materials would be satisfactory and could be purchased more advantageously in the open market without advertising for bids and awarding contracts to the lowest bid-

CAPITAL CITY TITLE COMPANY

J. C. PALEN,
Manager

914 Seventh Street

Sacramento :: California

ders as more consideration could be given to the condition and suitability of the equipment and materials.

SAN BERNARDINO, San Bernardino Co., Cal.—Until March 11, 2 P. M., bids will be received by the State Purchasing Agent, Sacramento, to furnish one 36-hp. track-laying type tractor with canopy top, street plates, fenders and spark arrester. Quotation No. 30444, Requisition No. 678. Submit allowance on used Caterpillar 30 CHC 161.

YUMA, Ariz.—Until 2 P. M., March 17, bids will be received by the U. S. Bureau of Reclamation, Custom House Denver, Colo., for furnishing one second-hand, standard gauge, oil-burning road locomotive complete with tender, to be delivered on track at shipping point and/or on track at destination, Yuma, for use on the Colorado River front and levee system. Bid No. A-14860-A. A. McD. Brooks.

26—RAILROADS

LIVINGSTON, Montana—The North-Pacific Ry. has authorized construction of steel relay for curves and main lines. The curve relays will be made at six points on the division in western Montana and main line relays on water grade freight lie between Bozeman and Belgrade. Some ballasting and tie replacement is contemplated.

28—FIRE EQUIPMENT

SEATTLE, Wash.—Until March 22, 10 A. M., bids will be received by W. A. Gaines, City Purchasing Agent, 511 County-City Bldg., Seattle, to furnish 14,000 ft. double jacket rubber lined fire hose. Specifications obtainable from above office.

29—STREETS AND HIGHWAYS

LOS ANGELES, Calif.—The Special Assessment Committee has been authorized to present proceedings for the improvement of the alley south of Ramona Blvd., between Herbert St. and Bonnie Beach Place, to county supervisors on July 10, 1933. Proceedings are under County Improvement No. 996. The quantities and estimates follow:

614 cu. yds. excavation;
16,571 sq. ft. 4-in. Durite pavement.
Total estimated contract price, \$3250.

LOS ANGELES, Calif.—The preliminary hearing on the improvement of Vine Ave., between Redondo and Wilmington Blvd., and the south line of lot 87, Tract 848, in the 4th Supervisorial District, County Improvement No. 991, was held April 12, 1932, and was ordered continued to May 1, 1933. The proposed work involves approximate quantities (and estimate) as follows:

Excav., incl. shaping (est. \$400).
Construction of 4-in. D. R. pavement (oil and rock wearing surface) (est. \$3030).
2368 ft. 6x9x15-in. concr. curbs at 40c per ft.
243 ft. 6x10x18-in. curb at 50c ft.
5227 sq. ft. 6-in. concr. gutter at 18c. ft.;
292 ft. of concr. sidewalks at 16c ft.;
5 cu. yds. of concrete wall at \$20. ft.;
25 lin. ft. highway guard fence at \$1.00 ft.;
Total est. contract price, \$5612.00.

PROSSER, Wash.—Until March 24, 2 P. M., bids will be received by E. O. Keene, County Auditor, Benton County, to construct Lateral Highway No. 10, near Richland, grading and surfacing with crushed stone

45083 ml. Specifications obtainable from County Engineer. Certified check 5% required with bid.

MENDOCINO, SONOMA, MARIN, Solano and Napa Co., Cal. — Basalt Rock Co. and Chas. Kupplinger, Napa, bidding jointly, at \$3384 awarded contract by State Highway Commission to apply 1800 bbls. Diesel oil to roadside vegetation over 135 roadside miles.

MONTEREY, Calif.—Until April 1, 10 A. M., bids will be received by Quartermaster, Presidio of Monterey, to construct asphaltic concrete roadways and concrete curbs at Presidio. Specifications obtainable from above on deposit of \$5, returnable.

LOS ANGELES & VENTURA Cos., Cal.—Square Oil Co., Inc., 916 Adobe St., Los Angeles, at \$3549 awarded contract by State Highway Commission to apply Diesel oil to roadside vegetation over 110.2 miles, involving 1690 bbls. Diesel oil.

Consumers Oil Co., Maywood, submitted low bid on this contract at \$3481.40.

LASSEN COUNTY, Cal.—Until Mar. 29, 2 P. M., bids will be received by State Highway Commission, Sacramento, to surface with bituminous treated crushed gravel or stone (road mix method) 2 miles between Susanville and Johnstonville, involving:

- (1) 2490 cu. yds. crusher run base;
- (2) 2925 cu. yds. crushed gravel or stone (bit. treated surfacing);
- (3) 200 M. gals. water;
- (4) 115 bbls. heavy fuel oil;
- (5) 187 tons cut-back asph. (bit. tr. surface);
- (6) 104 sta. mix cut-back asphalt and crushed gravel or stone;
- (7) 104 sta. finish roadway.

SAN FRANCISCO.—T. J. Doyle, 1527 17th Ave., at \$1,287.15 awarded contract by the Department of Public Works to improve Chestnut St. from Kearny St. 110-ft. east.

ARIZONA STATE—Until 2 P. M., March 11, bids will be received by State Highway Commission, Phoenix, for highway construction on the Holbrook-Winslow Highway, E-40, Schedules 1 and 2 (A.F.E. No. 6656).

The work on E-40 Schedule 1, which begins at the west city limits of Holbrook and extends westerly about 10.2 miles, consists of constructing two culverts, placing subgrade stabilizer and oil processing by the plant mix method, using cutback asphaltic cement.

The work on E-40, Schedule 2, which begins at a point about 10.2 miles west of the town of Holbrook and extends westerly about 11 miles, consists of constructing one C.M.P. culvert and oil processing by either the road or plant mix method, using asphaltic road oil.

The work on each of these schedules is to be completed on or before June 15, 1933. The principal items are: Schedule 1 Contract—

- 2,600 cu. yds. subgrade stabilizer;
 - 9,100 cu. yd. mi. subgrade stabilizer haul;
 - 18,400 tons plant mix;
 - 70,100 ton mi. plant mix haul;
 - 762 tons cutback asphaltic cement;
 - 10.2 mi. spreading compacting and finishing;
 - 790 cu. yds. screenings;
 - 3,250 cu. yds. shoulder material;
 - 12,400 cu. yd. mi. shoulder material haul;
 - 240 M. gallons water.
- Schedule 2 Contract—Road Mix—
14,400 cu. yds. mineral aggregate;
93,900 cu. yd. mi. mineral aggregate haul;
276,300 gallons asphaltic road oil;

- 11 miles mixing, laying and finishing;
 - 850 cu. yds. screenings;
 - 3,600 cu. yds. shoulder material;
 - 9,500 cu. yd. ml. shoulder material haul;
 - 260 M. gallons water.
- Alternate—Plant Mix—
19,900 tons plant mix;
129,200 ton ml. plant mix haul;
237,000 gallons asphaltic road oil;
11 mi. spreading, compacting and finishing;
and other incidental items.

A proposal guarantee in cash or certified check of not less than 5% of the gross amount of the bid is required. T. S. O'Connell, State Highway Engineer.

Note: Bids on Schedule No. 2 will be opened at 2:30 p. m.

LOS ANGELES, Calif.—Arthur E. Pearson, 225 Glencoe St., Venice, submitted low bid to board of public works, March 1, at \$955.50, for the improvement of the alley south of 30th St. bet. 11th Ave. and Edgemoor Drive, under the 1911 act.

LOS ANGELES, Calif.—Until 10 A. M., March 15, bids will be received by board of public works for improving 67th St. bet. Main St. and Broadway, under cash contract, involving:

- (1) grading (830 cu. yds. excav. and 305 cu. yds. fill);
- (2) 50,310 sq. ft. 6-in. conc. paving;
- (3) 7 tons asph. conc. wearing surf. (variable thickness) inc. resurf.;
- (4) 5 tons asph. conc. base do;
- (5) 1741 ft. unplas. light curb;
- (6) 7530 sq. ft. 3-in. concrete sidewalk;
- (7) 278 sq. ft. 4-in. concrete sidewalk (driveways);
- (8) 44 sq. ft. 8-in. concrete gutter;
- (9) storm drain, complete, not inc. resurfacing;
- (10) ornamental lighting reconstruction, complete;
- (11) 2 manholes to be reset.

LAKE COUNTY, Calif.—Hanrahan Co., Hobart Bldg., San Francisco, at \$59,959.20 submitted low bid March 8 to State Highway Commission, Sacramento, to grade and surface with crushed rock base and bituminous treated crushed gravel or stone surfacing 3.2 miles between Manila ranch and Bartlett Springs road.

INYO COUNTY, Cal.—Basich Bros., 20550 Normandie Ave., Torrance, at \$54,193.20 submitted low bid March 8 to State Highway Commission, Sacramento, to grade 7 miles bet. Bishop and Round Valley road, of which 3.9 miles are to be surfaced with selected material and a bituminous treatment applied.

SAN FRANCISCO.—Department of Public Works, S. J. Hester, Secretary, plans to improve crossing at Carroll Ave. and Ingalls.

CLARK COUNTY, Nev.—Until Mar. 15 (previously reported March 8) 2 P. M., bids will be received by S. C. Durkee, State Highway Engineer, Heroes Memorial Bldg., Carson City, to furnish, apply and mix asphaltic fuel oil with the roadway surface over 11.51 miles between Lover Virgin River Bridge and Mesquite, involving:

- (1) 270,249 gals. fuel oil;
- (2) 11.51 miles road mix;
- (3) 11.51 miles finish roadway;
- (4) 558 cu. yds. load, haul and spread gravel.

Specifications obtainable from above also from county clerk's office at Las Vegas and from U. S. Bureau of Public Roads, 461 Market St., San Francisco, on payment of \$5, not returnable. Certified check 5% required with bid.

MERCED COUNTY, Cal.—Until March 29, 2 P. M., bids will be received by State Highway Commission, Sacramento, to grade and pave with Portland cement concrete about 0.9 mile Merced River Bridge approaches, involving:

- (1) 47 sta. clear and grub right-of-way;
- (2) 26,000 cu. yds. rdwy. excavation, unclassified;
- (3) 440,000 sta. yds. overhaul;
- (4) 100 cu. yds. struc. excavation;
- (5) 10,000 sq. yds. subgrade for pave.
- (6) 2,150 cu. yds. Class A cement concrete pavement;
- (7) 5 cu. yds. do. struc.;
- (8) 47,200 lbs. bar reinf. steel pave. and struc.;
- (9) 104 lin. ft. 8-in. corr. metal pipe;
- (10) 92 lin. ft. 12-in. do.;
- (11) 50 lin. ft. 18-in. do.;
- (12) 190 barrels light fuel oil;
- (13) 670 barrels heavy fuel oil;
- (14) 1200 tons untreated crushed stone or gravel surfacing (detours);
- (15) 1250 tons bit. treated crushed gravel or stone (borders);
- (16) 1800 M. gals. water;
- (17) 360 cu. yds. concrete remove from existing pave. and dispose of;
- (18) 0.1 mile existing fences remove and dispose of;
- (19) 24 guide posts complete in place;
- (20) 1406 lin. ft. lam. timber guard rail;
- (21) 47 sta. finish roadway;
- (22) 14 monuments complete in place;

State will furnish corrugated metal pipe and spillway assemblies.

SISKIYOU COUNTY, Calif.—J. F. Shepherd, 108 E. Miner Ave., Stockton, at \$85,909.50 awarded contract by State Highway Commission to grade and surface with untreated crushed gravel or stone and bituminous surface treatment to be applied over 3.9 miles between Dorris and Oregon state line.

SAN DIEGO COUNTY, Cal.—Daley Corp., 4430 Boundary St., San Diego, at \$89,040.50 awarded contract by State Highway Commission to grade 4.4 miles between Barnett Ave. and Balboa Ave.

OREGON STATE.—Until March 15, 9 A. M., bids will be received by the State Highway Commission, Multnomah Hotel, Portland, for highway construction as follows:

Douglas County—1.5 miles roadbed construction on Rice Hill Section, Pacific Highway, involving 120,000 cu. yds. excavation.

Linn County—Grade and pave approaches to the Santiam River bridge, Pacific Highway at Jefferson, involving 15,000 cu. yds. gravel embankment construction; 4,500 sq. yds. concrete pavement.

Malheur County—Ironsides - Brogan Station, John Day Highway, furnish 7,000 cu. yds. crushed rock in stockpiles.

Union County—Hot Lake - North Powder Section, Old Oregon Trail, furnish 6,000 cu. yds. crushed rock in stockpiles.

Specifications obtainable from State Highway Commission, Rm. 322, State Office Bldg., Salem, on deposit of \$5.

30—RESERVOIRS & DAMS

LOS ANGELES, Cal.—Plans and specifications for the Eaton Canyon Dam may be approved by the State Engineer so that bids may be called early this spring and contracts awarded by May 1. The proposed dam will be an earth fill structure with concrete channel. The dam will be approximately 40 ft. high with a length of 1000 ft. A gravel fill road with concrete face will be built along the top. This roadway will be an extension of East Washington St., Sierra Madre. The estimated cost is \$530,914.

32—SEWERS & SEWAGE DISPOSAL PLANTS

MONTEREY PARK, Los Angeles Co., Cal.—Until 8:30 P. M., March 13, bids will be received by city council to furnish the city with sewer pipe in the quantities shown below. Alternative bids will be taken on vit. clay and cement pipe. The quantities are: 11,800 ft. of 15-in. sewer pipe; 3,500 ft. of 12-in. sewer pipe; 109 pieces of 15x6-in. Y's; 65 pieces of 12x6-in. Y's.

Prices shall be quoted f.o.b. plant, and/or delivered along Garvey Ave. from New Ave. east to Walnut and along proposed route of sewer to end of Musactel Ave. Certified check or cash for 10% of bid required. A. W. Langley, city clerk.

ROSEBURG, Ore.—City plans intercepting and outfall sewer, involving 9500 ft. 24-in. pipe, 1200 ft. 21-in., 1,000 ft. 18-in., 10,500 ft. of 15-in., 1500 ft. of miscellaneous size pipe for reconstructing existing sewers, 1300 ft. creosoted wood trestle, 1 suspension bridge 80-ft. span. Estimated cost, \$50,000.

LOS ANGELES, Cal.—The Assessment Limitation Report on Snow Dr., Bonnie Beach Place, Hazard St., Miller Ave. and Van Pelt Ave., in City Terrace, under County Improvement No. 997, has been completed by the office of J. E. Rockhold, County Surveyor, and has been forwarded to the Special Assessment Committee. This work, which is estimated to cost \$26,875, involves:

- 7300 ft. 8-in. vitrified clay pipe;
- 2025 ft. 6-in. vitrified clay pipe;
- 19 standard manholes;
- 5 flushing manholes;
- 6 junction chambers;
- 1 drop manhole.

SEATTLE, Wash.—Until March 15, 10 A. M., bids will be received by Board of Public Works, G. W. Roberge, Secretary, to construct temporary sewage pumping plant near Dakota St. and 5th and 6th Aves., South; also to furnish and install pumping unit complete with all electrical apparatus, fixtures and wiring for above. Specifications obtainable from above office, also from City Engineer. Certified check 5% required with bid.

SEATTLE, Wash.—Until March 15, 10 A. M., bids will be received by Board of Public Works, G. W. Roberge, Secretary, to improve 29th Ave. West by constructing sewers. Specifications obtainable from above office. Certified check 5% required with bid.

CAPITOLA, Santa Cruz Co., Cal.—City may call bids on proposed sewage system in Capitola, estimated cost \$21,500, with the proviso that successful bidder will accept bonds in lieu of payment. Plans call for 1000 ft. disposal pipe.

BERKELEY, Alameda Co., Calif.—Until March 14, 10 A. M. (postponed from March 7) bids will be received by Florence E. Turner, city clerk, to construct storm sewer on Dwight Way from College Ave. to Prospect St. and on Prospect St. from Dwight Way northerly, together with catchbasins on Hillside Ave. southeast of Prospect St., involving:

- (1) 650 ft. 24-in. vit. or concrete pipe;
- (2) 70 ft. 10-in. do.;
- (3) 2 manholes;
- (4) curb inlet;
- (5) 7 catchbasins.

Specifications obtainable from above office. Certified check 10% required with bid.

33—WATER WORKS

BELMONT, San Mateo Co., Cal.—Richmond Oil Co., granted permit by Belmont City Council to erect three 10,000-gal. storage tanks at Bayshore highway and Ralston Blvd.

PIMA, Ariz.—The Pima Water Co., Pima, Ariz., has been granted a loan by the Reconstruction Finance Corp. of \$13,500 to be used for the construction of additions to the company's water works system.

SAN FRANCISCO—American Concrete and Steel Pipe Co., 19th Ave. and Estuary, Oakland, at \$129,576.50 awarded contract under Proposition B by Public Utilities Commission, to construct pipe line in the Bay Crossing Division of the Hetch Hetchy Aqueduct, H.H.W.S. Contract No. 137, consisting of 7120 ft. pipe line, Irvington Portal.

OAKLAND, Cal.—Steel Tank & Pipe Co., 1100 4th St., Berkeley, at \$6385 (lone bid) awarded contract by East Bay Municipal Utility District to furnish 12 sections of steel pipe in lengths of approximately 20 ft., dia. 54- to 65-ft.

SAN FRANCISCO—Until March 15, 2:30 P. M. (postponed from March 8) bids will be received by Department of Public Works, S. J. Hester, Secretary, to construct water system about 3 mi. in length from San Andreas to the site of the Sneath Ranch jail in San Mateo County. Will be of 10-in. c. i. pipe. Estimated cost, \$35,000. Plans by the Bureau of Architecture. Time limit, 90 days from award of contract.

SAN FRANCISCO—Until March 13, 3 P. M., under Bid No. 973, bids will be received by T. A. Brooks, City Purchasing Agent, Room 251, City Hall, to furnish pipe and fittings for a term of four months from April 1. Specifications obtainable from above.

SEATTLE, Wash.—Until March 15, 10 A. M., bids will be received by Board of Public Works, G. W. Roberge, Secretary, to construct steel standpipe near intersection of North 145 St. and Dayton Ave. at Foy, King County. Specifications obtainable from above office; also from City Engineer; deposit \$5 required. Certified check 5% required with bid.

34—PARKS AND PLAY-GROUNDS

SEAL BEACH, Orange Co., Cal.—Application has been made by Frank Haegle of Sunset Beach, Cal., for War Department permit to construct fences across two sloughs in Anaheim Bay for the protection of his oyster beds; the fences to be located about one-quarter mile and one-half mile, respectively, southeasterly of the east city limits of Seal Beach, in unincorporated territory; the fences to consist of 2-in. x 4-in. x 10-ft. posts set 7 in. center to center with openings 12 ft. wide in the center of the channels. This application is in lieu of his application of Feb. 4, 1933, for permission to construct fences in the same positions, but with 10 ft. openings with wire screens, which has been withdrawn. Maps showing location of the proposed work will be on exhibition in the office of the U. S. Engineer, 751 S. Figueroa St., until 11 A. M., Tuesday, March 14, 1933. W. H. Lanagan, Major, Corps of Engineers, District Engineer.

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

SAN FRANCISCO-OAKLAND BAY BRIDGE—EAST BAY SUBSTRUCTURE—(Contracts 4 and 4a)

Contract No. 4—Piers E2 to E5 Incl.
 (1) 7,300 cu. yds. concrete below elevation 10, Pier E-2;
 (2) 4,960 cu. yds. concrete above elevation 10, Pier E-2;
 (3) 143,942 cu. yds. caisson work, Piers E-3, E-4, and E-5;
 (4) 10,000 cu. yds. addn. caisson work Piers E-3, E-4, and E-5;
 (5) 16,000 cu. yds. concrete seal, Piers E-3, E-4, and E-5;
 (6) 8,780 cu. yds. concrete above elevation 0, Piers E-3, E-4 and E-5;
 (7) 750,000 lbs. reinf. steel above elevation 0 in Pier E-2 and above elevation 0 in Piers E-3, E-4 and E-5;
 (8) 141,000 lbs. anchorage steel work, Piers E-2, E-3, E-4 and E-5;
 (9) reconstruct army wharf (lump sum);

(10) 540 M. ft. b.m. creosoted timber fenders;
 (11) 11,000 lin. ft. creosoted fender piles in place;
 (12) 165,000 lbs. metal work in fenders
 (13) 1,000 bbls. extra Port. cement;

Contract No. 4A—Piers E6 to E22 Inclusive
 (14) 372,000 lin. ft. timber piles in place;
 (15) 50,000 lin. ft. additional length timber piles in place;
 (16) 22,000 tons gravel blanket;
 (17) 61,500 cu. yds. concrete seal;
 (18) 38,000 cu. yds. conc. pier shafts;
 (19) 1,530,000 lbs. reinf. steel;
 (20) 186,500 lbs. anchorage steelwork;
 (21) alterations to Key Route Pier;
 (22) 1,000 bbls. extra Port. cement.

Complete bids follow:
 Bids were taken under three proposals, as follows: (a) Contract No. 4; (b) Contract No. 4A; (c) Contracts 4 and 4A combined.
 (A) Bridge Builders, Inc., (c) \$4,495,854.00.
 (B) Connolly, Hanrahan, Pollock, \$4,805,851.20.
 (C) Bridge Builders, Inc., (a) \$2,697,246.00; (b) \$2,034,450.00.
 (D) Connolly, Hanrahan, Pollock, (a) \$2,984,246.20; (b) \$1,846,405.00.
 (E) Silas Mason Co., (a) \$2,989,157.89.
 (F) Healy-Tlbbitts Co., (b) \$1,922,040.00.
 (G) S. P. Bridge Co., (b) \$1,999,670.
 (H) Mercer-Fraser Co. and George R. Cook Co., (b) \$2,185,565.00.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
(1)	\$ 10.00	\$ 15.00	\$ 10.00	\$ 15.00	\$ 15.00	\$	\$	\$
(2)	30.00	15.00	30.00	15.00	12.00			
(3)	12.00	16.10	15.00	16.10	15.30			
(4)	9.00	11.00	9.00	11.00	15.00			
(5)	10.00	8.00	10.00	8.00	10.00			
(6)	25.00	14.00	25.00	14.00	10.00			
(7)	.04	.04	.04	.04	.04			
(8)	.10	.06	.10	.06	.06			
(9)	19,000.00	15,000.00	19,000.00	15,000.00	15,000.00			
(10)	80.00	85.00	80.00	85.00	100.00			
(11)	1.50	1.00	1.50	1.00	1.00			
(12)	.06	.06	.06	.06	.08			
(13)	2.00	1.50	2.00	1.70	2.00			
(14)	.60	.50	.60	.50		.80	1.00	.88
(15)	.35	.15	.35	.15		.20	.40	.50
(16)	1.25	.70	1.25	.70		.75	1.75	2.00
(17)	17.00	15.25	18.00	15.65		17.80	15.00	19.65
(18)	14.00	16.12	14.80	16.12		11.25	15.00	13.28
(19)	.04	.026	.04	.026		.035	.036	.03
(20)	.10	.06	.10	.06		.06	.06	.06
(21)	15,000.00	10,000.00	15,000.00	10,000.00		9,000.00	8,400.00	17,000.00
(22)			2.00	1.50		2.00	2.00	2.00

Bridge Builders, Inc., 155 Sansome St., is composed of the following firms: W. A. Bechtel Co., Henry J. Kaiser, Warren Bros. Co., Missouri Valley Bridge and Iron, Dravo Contracting

Co., Raymond Concrete Pile Co., and Utah Construction Co. Their officers are as follows: Henry J. Kaiser, President, M. M. Upson, Vice-President, S. D. Bechtel, Treasurer, and K. K.

Bechtel, Secretary. T. E. Connolly, Hanrahan Co., and George Pollock, submitted bid together, address, 461 Market St., San Francisco.

SAN FRANCISCO-OAKLAND BAY BRIDGE—WEST BAY SUPERSTRUCTURE—(Contracts 6 and 6a)

(a) Contract No. 6; (b) Contract No. 6A; (c) Contracts 6 and 6A combined;
 (A) Columbia Steel Co., (c) \$13,732,471.80.

(B) Columbia Steel Co., (a) \$9,566,431; (b) \$4,625,977.20.
 (C) McClintic-Marshall Co., (a) \$9,693,157.00.

(D) John A. Roebling's Sons, (b) \$4,812,116.00.
 Quantities Involved and unit bids follow:

Contract No. 6—Superstructure, Except Cables and Attachments

	(A)	(B)	(C)	(D)
(1) 37,000,000 lbs. silicon steel in towers	.0764	.0775	.0749	\$
(2) 10,000,000 lbs. carbon steel in towers	.0729	.0738	.0706	
(3) 1,200,000 pounds cast steel in towers	.1112	.1125	.1383	
(4) 700,000 lbs. heat treated eyebars	.0845	.0845	.0920	
(5) 510,000 lbs. carbon steel eyebars	.0652	.0652	.0681	
(6) 560,000 lbs. nickel steel	.1044	.1044	.1101	
(7) 48,000,000 lbs. silicon steel suspended structures	.0631	.0637	.0656	
(8) 29,000 lbs. carbon steel suspended structure	.0597	.0603	.0619	
(9) 300,000 lbs. cast steel, suspended structure	.1023	.1023	.1210	
(10) 600,000 lbs. manganese steel rivets, suspended structure	.0573	.0573	.0609	
(11) 50,000 lbs. phosphor bronze, suspended structure	.3270	.3270	.3385	
(12) 11,600 cu. yds. concrete paving, light weight upper deck	15.75	15.75	18.50	
(13) 6,300 cu. yds. concrete paving lower deck	15.75	15.75	19.20	
(14) 815,000 lin. ft. reinf. trusses, upper deck	21.071	21.0070	22.002	
(15) 625,000 lin. ft. reinf. trusses, lower deck	21.071	21.007	22.002	
(16) 2,200,000 lbs. reinf. steel	.0378	.044	.044	
(17) 2,200 cu. yds. concrete complete center anchorage	18.41	18.40	14.50	
(18) 33,000 bbls. Portland cement	2.10	2.15	2.10	

Contract No. 6a—Cables and Attachments

(19) 37,400,000 lbs. cable wire	.1002	.1085		.1170
(20) 1,660,000 lbs. cable castings	.1196	.1315		.11
(21) 226,000 lin. ft. 2 1/4-in. diameter suspended ropes	.0128	1.39		.94
(22) 38,100 lin. ft. 1-in. dia. band ropes	.2680	.3040		.36
(23) 150,000 lbs. high tensile bolts	.1028	.1104		.10
(24) 33,000 lbs. wrought shims	.0725	.0746		.07
(25) 41,000 lbs. galv. cable fastenings	.1212	.1231		.25

SAND ISLAND WHARF, ETC.—PORTLAND, ORE.

PORTLAND, Ore. — As previously reported, Liesch & Tofte, Marshfield, Ore., at \$164,500.50 submitted low bid to U. S. Engineer Office, Portland, to construct a wharf, marine dolphins, trestle, land trackage, two axial dikes, revetment and two pile and stone dikes at Sand Island, in Columbia River, about 10-mi. below Astoria, Ore., involving:

- (1) 131,700 lin. ft. piling;
- (2) 6000 lin. ft. piling for cutoff;
- (3) 664 M FBM lumber;
- (4) 141 M FBM ties;
- (5) 56,400 lbs. tie rods, etc.;
- (6) 500 lbs. machine bolts;
- (7) 15,700 lbs. drift bolts;
- (8) 15,700 lbs. black boat spikes;
- (9) 15,200 lbs. track spikes;

- (10) 300 lbs. wire rope;
- (11) 180 tons steel rails;
- (12) 9 sets frogs and switches;
- (13) 3415 lin. ft. haul track;
- (14) 100 remove piles;
- (15) 18,000 cu. yds. shore rock;
- (16) 45,000 cu. yds. water rock;
- (17) 700 cu. yds. ballast.

Complete bids follow:
 (A) Liesch & Tofte, Marshfield\$164,500.50
 (B) Gilpin Constr. Co., Portland 173,843.75
 (C) Parker - Schram Co., Portland 176,792.80
 (D) Rumsey & Co., Seattle.. 184,817.00
 (E) Kern & Kibbe, Portland 187,326.35
 (F) Engineer's Estimate 191,920.00

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)
(1)	\$.205	\$.24	.27	.24	.25	.26
(2) .....	.1025	.12	.135	.12	.12	.13
(3)	28.75	31.50	36.00	28.00	33.00	40.00
(4)	27.50	20.00	18.80	25.00	27.00	40.00
(5) .....	.055	.07	.05	.05	.005	.07
(6) .....	.055	.06	.05	.04	.10	.05
(7) .....	.055	.04	.03	.04	.033	.03
(8) .....	.055	.05	.05	.04	.05	.05
(9) .....	.055	.05	.05	.04	.05	.04
(10) .....	.10	.30	.35	.10	.25	.06
(11)	30.00	22.50	20.00	25.00	18.00	26.00
(12)	75.00	100.00	50.00	100.00	100.00	50.00
(13)	1.90	.25	.20	1.04	.75	.20
(14)	3.00	2.00	2.00	1.00	3.00	2.50
(15)	1.77	1.74	1.63	1.80	2.18	1.80
(16)	1.37	1.62	1.63	1.80	1.66	1.75
(17)	2.50	1.90	1.85	2.50	2.25	2.35

SAN FRANCISCO-OAKLAND BAY BRIDGE—EAST BAY SUPERSTRUCTURE—(Contract 7)

(a) Columbia Steel Co., \$8,798,096.50; (b) McClintic-Marshall, \$8,941,580.
 Quantities and unit bids follow:

	(a)	(b)
(1) 6,800,000 lbs. nickel steel in spans	\$.0915	\$.0936
(2) 49,000,000 lbs. silicon steel in spans .....	.0675	.0683
(3) 40,400,000 lbs. carbon steel in spans .....	.0635	.0639
(4) 8,500,000 lbs. heat treated eyebars .....	.073	.0763
(5) 7,050,000 lbs. silicon steel in bents .....	.079	.0781
(6) 4,900,000 lbs. carbon steel in bents .....	.0715	.0719
(7) 50,000 lbs. manganese steel rivets .....	.064	.062
(8) 25,000 lbs. phosphor bronze .....	.324	.403
(9) 12,000 cu. yds. concrete paving, upper deck	15.75	18.00
(10) 6,550 cu. yds. concrete paving, lower deck	16.75	19.00
(11) 825,000 lin. ft. reinforcing trusses, upper deck .....	.217	.215
(12) 653,000 lin. ft. reinforcing trusses, lower deck.....	.217	.215
(13) 2,116,000 lbs. reinforcing steel.....	.038	.0425
(14) 30,500 barrels Portland cement.....	2.10	2.10

STANISLAUS, San Joaquin, Calaveras, Sacramento and Amador Cos., Calif.—Dee Strong, Box 143, Rio Vista at \$1364.22 submitted low bid to District Engineer, State Highway Commission, to apply Diesel oil to roadside vegetation over 110.7 roadside mi., involving 780 bbls. Diesel oil. Complete bids follow:

- (A) Dee Strong, Rio Vista, \$1,749; \$1,364.22.
- (B) R. M. Sheldon, Suisun, \$1,77; \$1,380.60.
- (C) L. J. Immel, Berkeley, \$1.58; \$1,466.40.

Bids held under advisement.

LOS ANGELES, Calif. — American Concrete & Steel Pipe Co., 4636 Firestone Bldv., Southgate, submitted low bid to board of public works March 6 for furnishing reinforced concrete pipe, centrifugal concrete pipe, laying equipment, and skilled pipe laying foreman in connection with the improvement of Western Ave. between 59th Place and 68th St., and other streets and rights of way, in the Western Ave. and 66th Street Imp. Dist. The schedule of quantities follows:

- (1) 2440 ft. 102-in. heavy reinf. conc. pipe, Case I, laying condition;

- (2) 100 ft. 66-in. centrif. conc. pipe, 1500-D, Case III, laying condition;
- (3) 1800 ft. 60-in. do;
- (4) 1000 ft. 60-in. 1200-D do;
- (5) 30 ft. 36-in. do;
- (6) 100 ft. 30-in., 1250-D do;
- (7) 900 ft. 24-in. do.

The bids were:
 American Concrete & Steel Pipe Co.,
 (1) \$15.85 (2) \$8.75 (3) \$8.00 (4) \$7.75
 (5) \$3.50 (6) \$3.10 (7) \$2.00.
 United Conc. Pipe Corp. (1) \$16.90
 (2) \$9.10 (3) \$8.40 (4) \$8.26 (5) \$3.75
 (6) \$3.30 (7) \$2.22.

LOS ANGELES, Cal.—Bids for furnishing welded steel water pipe under Spec. No. 3018 were opened by A. J. Holm, City Purchasing Agent, March 6. Bids were taken as follows:

1. 2730 lin. ft. electric fusion welded steel water pipe in 30-ft. laying length sections, having a wall thickness of 3/4-in., internal diameter of 30 inches, slip joint for field welding, dipped in coating f.o.b. trenchside on Pickford St. from Cloverdale Ave. to Longwood Avenue;

II. 5520 lin. ft. electric fusion welded steel water pipe in 30-ft. laying length sections, having a wall thickness of 3/4-in., internal diameter of 24 inches, slip joint for field welding, dipped in

coating, f.o.b. trenchside on Stonehurst Ave. from Sunland Blvd. and northely in San Fernando Valley.

The bids were:
 Southwest Welding & Mfg. Co., (1) 3.53 (alt. to specifications); (2) \$2.90 (alt. to specifications). Total \$25,700. Terms net. Delivery 60 days.
 Consolidated Steel Corp. (1) \$4.58 (2) \$3.87. Terms net. Delivery not stated.
 Western Pipe & Steel Co., (1) \$4.50 (2) \$3.65. Terms net. Delivery not stated.

SACRAMENTO, Cal.—Bids for furnishing one one-man grader unit f.o.b. North Hollywood, Quotation No. 27292, Requisition No. 5829 were opened by the State Purchasing Agent, Feb. 28. The bids were:

Crook Co. — Allis-Chalmers VH, \$2565, delivery 2 days.
 Shepherd Tractor & Equipment Co. —No. 7 Caterpillar Auto Patrol, \$3010, delivery 10 days, discount 2% 30.
 Smith-Booth-Usher Co.—Gallon EZ-Lift, \$2195, 35 days delivery; \$2225, 18 day delivery.
 Associated Equipment Co.—Rome Mod. SW-20-2, \$2224, 30 days delivery.
 Spears-Wells Machinery Co.—Spearwell Big 8, \$2243, 30 days delivery.
 Austin-Western Road Mch'y Co.—Austin single drive, \$2313.20, 15 days delivery; add \$60 for 40x8 dual rear pneumatic tires; add \$50 for leaning front wheels; add \$100 for IHC No. 20 or Case CI motors; add \$88 for 2-cyl. Kellogg tire pump.
 Brown-Bevis Co.—Adams No. 102, \$3075, 10 days delivery; Model 30, \$3175, 10 days delivery.

ARIZONA STATE—Until 10 A. M., March 11, bids will be received by State Highway Commission, Phoenix, for highway construction on the Prescott-Phoenix Highway, E-72-A (A. F. E. No. 8952). The work, which begins at the western boundary of the Prescott National Forest near Wilhoit and extends southwesterly approximately 8 miles, consists of grading, draining, placing of subgrade stabilizer and oil processing by the plant mix method, is to be completed on or before June 15, 1933. The principal items are:

- 4,200 cu. yds. roadway excavation;
- 3,200 cu. yds. drainage excavation;
- 600 cu. yds. structural excavation;
- 3,100 cu. yds. borrow excavation;
- 20,700 cu. yds. subgrade stabilizer;
- 21,800 cu. yd. mi. subgrade stabilizer; haul;
- 130 cu. yds. concrete;
- 9,700 lbs. reinforcing steel;
- 66 lin. ft. C. M. P. (two sizes);
- 1 each cattle guard;
- 1,100 lin. ft. cable road guard;
- 84,000 lin. ft. line fence;
- 35.3 M. B. M. treated timber;
- 2.2 M. B. M. untreated timber;
- 387 lin. ft. treated piling in timber bents;
- 191 M. gals. water;
- 14,700 tons plant mix;
- 687 tons cutback asphaltic cement;
- 8.1 mi. spread, compact, and finish;
- 700 cu. yds. screenings;
- 1,200 cu. yds. shoulder material;
- 1,300 cu. yd. mi. shoulder material, haul, and other incidental items.

A proposal guarantee in cash or certified check of not less than 5% of the gross amount of the bid is required. T. S. O'Connell, State Highway Engineer.

UKIAH, Mendocino Co., Cal.—Richmond Sanitary Co., 290 Division St., San Francisco, at \$1345.25 awarded contract by city council to furnish 1900 ft. wrought steel pipe, 4 flanges and 2 gate valves, f.o.b. Ukiah.
 Complete bids follow:
 Richmond Sanitary Co.....\$1345.25
 Crane Co., S. F..... 1418.04
 Holz Co., Ukiah..... 2002.15
 Tay-Holbrook Co., S. F..... 2078.80

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IN THIS ISSUE



\$10,000,000 LOAN ASKED FOR L. A. REBUILDING

FOREST INDUSTRIES DESIGNS \$2,500 HOUSE

EIGHTEEN CONTRACTS REMAINING
ON BAY BRIDGE

STATE PROHIBITS FORECLOSURE ON
MORTGAGES

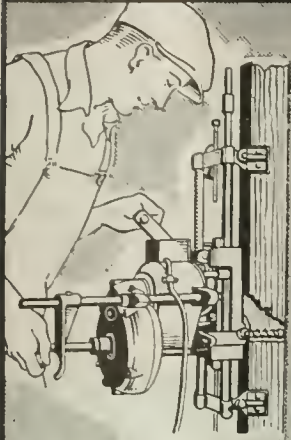
LEGISLATION PROPOSED TO REVEAL LOAN
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BUILDING PERMITS — ADVANCE REPORTS
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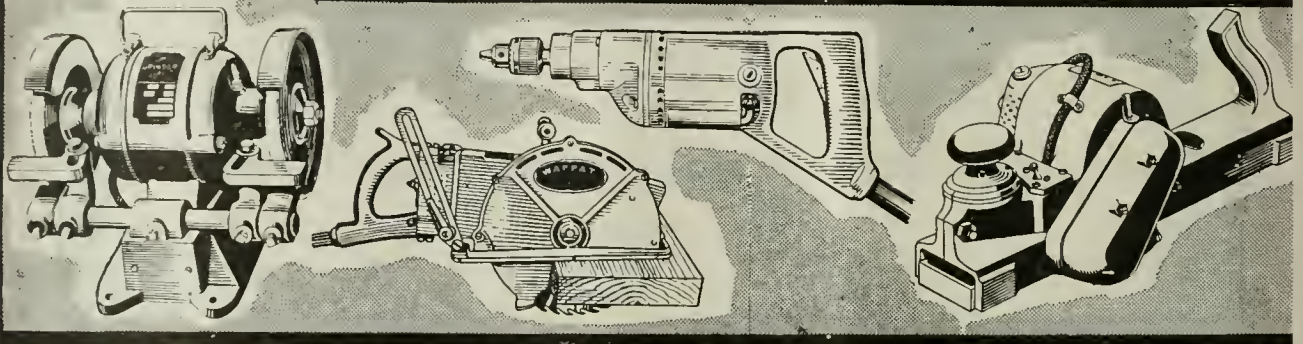
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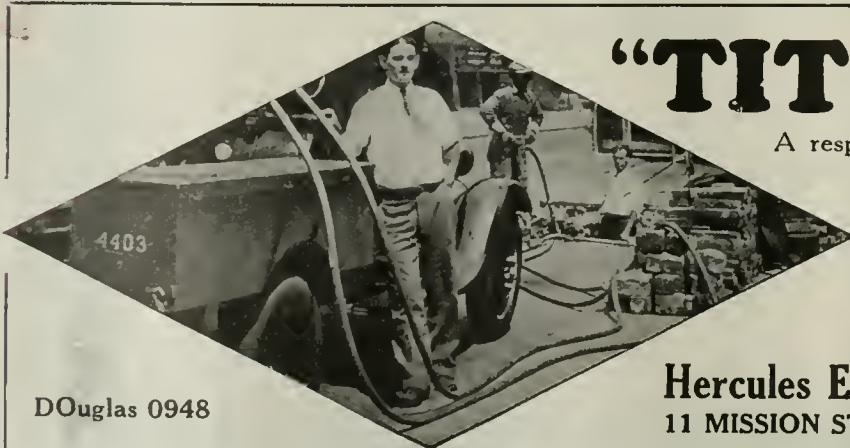
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Official Publication of the Associated General Contractors of America
for the Eleven Pacific Coast States

SAM B. EUBANKS, Editor

Vol. 16.

SAN FRANCISCO, CALIF., MARCH 18, 1933

No. 9

STATE BUREAU FORCE SENT TO L. A. QUAKE AREA

Huntington Details Inspectors
To Protect Public From
Fraud

Possibility that steps may be taken at the present session of the legislature to obtain passage of laws to compel the construction of quake-proof buildings is intimated in a statement issued by Col. Carlos W. Huntington, state registrar of contractors.

Drastic steps to halt the invasion of the Los Angeles quake-stricken area by any irresponsible or incompetent contractors during the reconstruction period were also ordered by Col. Huntington.

"A staff of inspectors has been assigned by the registrar to the quake-stricken area to prevent the public from being duped by carpet-bag contractors in the rebuilding of their homes or business properties. We are cooperating to the fullest extent with the legitimate contractor and building organizations," Col. Huntington said.

"With the reconstruction work already in the preliminary stages, we are faced with the problem of preventing fraudulent construction, which might constitute a menace to public health and safety. Likewise, we are determined to prevent the incompetent or crooked contractor from robbing the people of the stricken area.

"It is apparent that much of the quake damage can be traced to improper construction of homes and business buildings during the past decade.

"Consequently, I plan to confer with members of the board of engineers, the state board of architectural examiners, the Los Angeles City department of building and safety, representatives of the California building congress and other building and construction groups in the immediate future with a view of formulating some regulations or laws which would enable the state to compel the construction of earthquake-proof structures, within reasonable bounds and, insofar as it is humanly possible to do so.

"I firmly believe that some steps should be taken in this direction, and, if possible, legislation enacted at once.

THE WEEK'S NEWS Highlights

EARTHQUAKE DAMAGE—Revised damage estimates from the Southern California area affected by last week's earthquake indicate losses in excess of \$60,000,000. New reports from Long Beach, where the shock was heaviest, are that the losses in this city alone will reach \$50,000,000. Many public buildings in Long Beach, including six schools, were demolished. The county courthouse in Los Angeles was condemned, due to damage sustained, and the board of supervisors voted to petition the R.F.C. for a loan of \$10,000,000 to rebuild. The supervisors also are contemplating asking an additional \$10,000,000 for reconstruction of schools in the county, of which 142 were badly damaged. The state legislature has appropriated 150,000 in emergency funds for rebuilding streets and highways, principal highway damage being on the route between Long Beach and Huntington Beach.

* * * *

TUNNEL BIDS ASKED—Los Angeles Metropolitan Water District has set April 17 as the date for receiving bids on approximately 15 miles of tunnels for the Colorado River aqueduct. It is estimated the work will approximate \$4,000,000.

* * * *

STATE HARBOR CONSTRUCTION—Two additions to harbor facilities at San Francisco have been ordered by the State Harbor Commission. Bids will be received April 6 on a shed extension for Pier 35 and extension of the refrigeration terminal by construction of a new unit of approximately 27,000 square feet of floor space.

* * * *

OAKLAND EXCHANGE ELECTS—S. J. Bertelson, general contractor, was re-elected president of the Oakland Builders' Exchange at the first meeting of the new board of directors elected at the annual meeting March 13.

OAKLAND CHARTER AMENDMENTS WILL AFFECT BUILDERS

Unlimited Authority Given For
Day Labor by Proposed
Change

Four proposed amendments of the Oakland city charter to be voted on at a special election are of interest to contractors and materialmen.

Proposal No. 8 provides for an 8-hour day on all municipal public works and a wage "at least equal to the prevailing salary or wage for the same quality of service rendered to private persons, firms or corporations under similar employment in the city of Oakland."

Proposal No. 9 specifies the mode of making progressive payments on contracts. It provides that "no progressive payments can be provided for or made at any time which, with prior payments, if there have been such, shall exceed in amount at that time seventy-five per cent of the value of the labor done and the materials used" . . . "no contract shall authorize the payment of more than seventy-five per cent of the contract price before the completion and acceptance of the work."

Proposal No. 10 increases the limit of the expenditure permitted by the city council without calling for bids, applying to all material for repairs, construction and improvement work on public buildings, streets, sewers and harbor work. The limit would be raised from \$500 to \$1000.

Proposal No. 11 authorizes the city council to proceed with public works without advertising for bids under an "emergency" resolution, by which the council may determine with a vote of seven members that the emergency is "creating unemployment detrimental to the general welfare."

SUPERVISORS PASS BOILER ORDINANCE

San Francisco's new boiler and pressure vessels inspection and fee ordinance, which has been in preparation for more than a year, was passed without opposition by the Board of Supervisors. The measure will be effective next month.

STATE PROHIBITS FORECLOSURE ON HOME MORTGAGES

Sixty-day Moratorium Effective As Protection For Owner

A 60-day moratorium on mortgage and trust deed foreclosure in the state of California is provided by an act of the legislature which became effective Saturday when Governor Rolph signed the emergency measure.

Sponsors of the legislation said it was designed to protect home owners whose finances were temporarily involved because of the banking holiday. It will provide immediate relief from foreclosure until the present emergency is over and will enable the legislature to give further consideration to real estate debt burdens.

The bill provides:

"Section 1: From the date this act takes effect until sixty days thereafter no sale on execution or under power of sale contained in any mortgage or deed of trust or by direction of court in an action for the recovery of a debt or the enforcement of a right secured by mortgage or other lien shall be made by the dwelling house in which the owner resides or of any of the necessary outbuildings or of the land upon which it is situated and necessary for the convenient use thereof or of land used by the owner in farming or ranch operations conducted by him or under his immediate supervision or of any interest therein or in either thereof. Owner, as used herein, includes the debtor, mortgagor or trustor or his successor in interest in respect to such dwelling house, outbuilding or land. Any such sale held contrary to the provisions of this act or any deed given or executed pursuant to any such sale is void.

"Section 2: Notwithstanding any provision of law or any obligation or agreement affected by the provisions of this act the period of time during which proceedings must be instituted or a sale had on execution or under power contained in any mortgage or deed of trust or by direction of court in an action for the recovery of a debt or the enforcement of a right secured by mortgage or other lien is hereby extended for sixty days and any such sale heretofore set for a date which occurs during the period of time mentioned in Section 1 of this act may legally and effectually be postponed to a date subsequent to the expiration of said period of time. The owner has not the right to waive any of the provisions of benefits of this Act. Any such waiver by or for the owner is wholly null, void and ineffectual after or before or after the event."

SUPERVISORS ASSN. OPPOSE ABOLITION OF LICENSE LAW

SACRAMENTO, Cal. — Recommendations of the Senate Fact Finding Committee for abolition of the State Bureau of Contractors Registration were vigorously opposed in a resolution adopted by the California County Supervisors Association, in convention here. The 234 supervisors also went on record as opposing repeal of the State Barbers' Act and abolition of the State Department of Professional and Vocational Standards.

The following officers were elected: Supervisors W. J. Buchanan, Contra Costa County, President; J. E. MacGregor, Riverside, Vice-President; W. J. Mellon, Yuba City, Treasurer. Supervisor Stanley Abel, Kern County, former president of the association, was reappointed secretary.

Introduced by Supervisor John R. Quinn, Los Angeles County, and Supervisor Tom Hurley, San Diego County, the resolutions were approved by the 234 delegates at the closing session without a dissenting vote.

Pointing out that the Contractors' Bureau, and the Barber Board, as well as the entire department of Professional and Vocational Standards were entirely self-supporting, the resolution declared that repeal of these units of Government would "in no way, shape or form, aid in the solution of the State's financial problem, and would constitute false economy."

"We are unalterably opposed to the repeal or weakening of these laws," the resolution stated.

Abolition of the Contractors' Act, which has enabled the State to weed out irresponsible and crooked contractors and prevent racketeering in the construction industry is being sought in Senate Bill 183 by Senator R. R. Ingels, Ukiah.

Assemblyman James O'Connor, Los Angeles, is author of Bills to repeal the Barber Law and the Department of Professional and Vocational Standards.

PROPOSE REPEAL OF VISALIA ACT

An ordinance to repeal the Visalia building regulations and to permit cheaper types of construction in certain residential zones has been introduced in the city council by Councilman E. R. Connelly.

Connelly said that present restrictions were a deterrent to improvement of property.

SALES GAIN

Wayne Oil Burner Corporation of Indiana reports sales for 1932 with the exception of one month above the volume of each month in the previous year. The sales volume has shown an increase up to March 1 during the current year, according to John A. Berghoff, general manager.

29 COMPLAINTS INVESTIGATED IN FEBRUARY

Eighteen Contractors Lose State Licenses For Law Violation

Complaints filed with the State Registrar of Contractors during February involved a total of \$107,299, according to the report of Registrar Carlos G. Huntington.

Of 29 cases filed, eighteen resulted in suspension of state contractors' licenses.

In ten complaint cases, settlement was amicably effected after the filing of a formal charge, but prior to and without the necessity of a formal hearing, and the complainants allowed to withdraw the charges. One case was dismissed due to the lack of jurisdiction of the Registrar.

Five applications for contractors' licenses were denied, while one applicant was granted a license. A total of 34 hearings were held during the month in the formal complaint section, and 31 additional cases were settled by arbitration by inspectors in the field.

Six court cases were pending before the Registrar during the past month and a conviction was obtained in one case where a man was found to be operating as an unlicensed contractor.

PALO ALTO NAMES UTILITY MANAGER

Creation of a new department of public utilities has been authorized by the Palo Alto board of public works on the recommendation of J. F. Byxbee, city engineer.

L. Harold Anderson, deputy city engineer, was named director of public utilities. He will retain his position as deputy.

Anderson will have complete charge of all municipal utilities and will act as building inspector.

COLUSA COUNTY SETS ROAD WAGES

Colusa county supervisors have established a uniform scale of wages for road work providing \$3 for day laborers and \$4 for a man and team. The daily scale follows:

Truck drivers, \$3.50; caterpillar 30 tractor drivers, \$4; one-man motor control grader drivers, \$4; grader men, \$4; common labor, \$3; carpenters, \$4; concrete men, \$4; jackhammer and air compressor men, \$4; man with team and wagon \$4; inspector of roads and bridges, \$6; one horse, 50 cents; wagon, 50 cents; fresno scraper, 50 cents.

SAN ANSELMO PERMITS

Building permits authorized in San Anselmo during February totaled \$8,600, according to the report of Building Inspector Charles H. Cartwright.

SIX COMPANIES DENIED NEVADA TAX EXEMPTION

Federal Court Upholds Levy On Construction Company Properties

State of Nevada tax claims against the Six Companies for personal property and poll tax assessments in the amount of approximately \$200,000 were upheld by a decision of the Federal District Court at Carson City.

The court dissolved a temporary injunction obtained by Clark county authorities restraining them from levying taxes against the Six Companies property used in construction of Boulder dam. The company is not a government agency and cannot therefore claim exemption from local taxes, according to a decision by Judge Frank Norcross.

The taxes involved, officials estimated, now amount to \$200,000 and will be approximately \$100,000 a year during the course of construction.

Judge Norcross held that the only reservation property over which the Federal government has exclusive jurisdiction is the dam itself and the power plants and structures immediately appertaining.

Six Companies was successful in another Federal court action, decided at the same time, in obtaining a permanent order against enforcement of the Nevada state law prohibiting use of gasoline engines in underground work. A three-judge court which heard the case ruled that the state legislature had intended to apply the regulation only to mining operations and that the Boulder Dam construction did not come within its provisions.

TRUCKMEN ASK LOCAL PREFERENCE LAW

Dump truck owners have asked the Santa Clara county board of supervisors to enact an ordinance providing that only local labor and locally-owned equipment be used in county road work. They ask a minimum wage scale of from \$2.25 to \$4 an hour for trucks.

Representatives of the truck drivers' union demanded that the present wage scale be lowered not more than 50 cents daily which would make the range from \$5.50 to \$6.50 a day.

James Quinby, spokesman for truck contractors, asked that the scale be lowered \$1 a day.

The controversy has been referred to the district attorney for an opinion as to whether the board can enact an ordinance limiting truck contracting to county resi-

WATER SYSTEM SALES

The number of deep well water systems sold in January was above the total for December and equal to that of November, according to the monthly report to the Bureau of the Census. The net sales value was reported as \$32,663.

RILEY TO CONTINUE COUNTY BRIDGE JOB

E. H. Riley has been authorized to continue with his contract for construction of the Garwood Ferry bridge in San Joaquin county, it is announced.

The San Joaquin county board of supervisors last week declared Riley in default when he informed the board he would be unable to complete the structure. At the meeting this week Riley appeared before the board and said he had obtained financing to enable him to finish the contract.

The Columbia Casualty Company, surety for Riley, advised the board they were satisfied with his arrangement and recommended that he be permitted to resume the contract.

The supervisors rescinded their former action and ordered Riley to proceed with the work on recommendation of County Engineer Julius Manthey.

MONTEREY ENGINEER HEADS ASSOCIATION

Howard Cozzlins, Monterey county engineer, was elected president of the County Surveyors' and Engineers' Association of California for the new year at the annual convention in Sacramento.

Other officers are J. B. Mantley, San Joaquin county, vice-president; Lloyd Bowman, Santa Cruz county, secretary-treasurer.

WATER COMPANY TO SPEND \$22,700

Improvements totaling \$22,700 will be made by the Bear Gulch Water Company in the Menlo Park and Atherton district within the next few months, according to a program authorized by the board of directors.

Replacement of mains and extensions are the principal items scheduled.

Uniform State Building Code to End Danger From Earthquake, Says Leonard

Adoption of the California uniform building code and its rigid enforcement in every city of the state will forever end the earthquake menace, declared Building Inspector J. B. Leonard. Leonard is superintendent of the bureau of building inspection of San Francisco and vice-chairman of the uniform building code.

For the past four years this committee has been engaged in formulating a uniform building code that would set a new standard in safe and economical construction, Leonard said. Of first consideration in their study has been the means of eliminating the danger of collapse due to earth shocks.

The committee members include: Architects—D. J. Witmer of Los Angeles, Chairman of the Building Code Committee, Wm. Day of San Francisco.

Engineers—Mellville Dozier of Los Angeles; J. B. Leonard of San Francisco, Vice-Chairman of the Code Committee.

Contractors—Wm. Simpson of Los Angeles; George Wagner of San Francisco.

Building Officials—Waller Putnam of Pasadena; S. P. Koch of Berkeley.

Technical Editors—Edwin Bergstrom of Los Angeles, Architect; Henry Dewell of San Francisco, Engineer.

The special engineering sub-committee includes: Henry Dewell, Henry Brunnier, M. C. Couchot, L. H. Nishkian, Walter L. Huber, C. H. Snyder, H. B. Hammill, C. H. Kramer.

Leonard said:

"One of the first steps taken by the committee was to secure data not only on experience in every section of the United States that has ever had earthquake shocks,

but in practically every country in the world where damage has been recorded as a result of earth tremors. Outstanding among these were Japan, Italy, Australia, and South America. Intensive study was made of damage done to the various types of buildings and from this intensive study, taking into consideration every phase of building construction and the results of stresses and strains caused by earth tremors The California Uniform Building Code has been built carefully step by step.

"Upon its completion and adoption throughout the length and breadth of this state, I do not hesitate to say that loss of life due to any possible earth tremors in California will be a thing of the past. Our study has shown that loss of life has been due to falling walls of poorly constructed buildings, that Class A buildings generally, the tall buildings or so-called skyscrapers, have given splendid account of themselves, not only protecting the lives of all those within the building but protecting the lives of those in the street, due to the fact that the walls have not fallen. Upon the adoption of this code, California will be the safest place in the world to reside. Earthquakes, as such, in California, have never caused loss of life. It has been due purely to poorly constructed buildings of the lower classifications.

"Earthquakes in California should never have or ever should cause loss of life. The adoption of this Building Code would permanently establish this fact. California has taken advantage of its experience and the experiences in all other parts of the world. After analysis and intensive study of these experiences, it is providing an absolute safeguard to life and property."

SALES CONTRACT IS VOIDED BY LOAN AGREEMENT

Court Stops Radiator Company From Removing Fixtures

A decision recently by the appellate court is of importance to heating contractors.

The title of the case is Hammel Radiator Corp. vs. Mortgage Guarantee Company. (Appellate Court Decisions 682).

It is an action for damages for conversion where the radiator corporation had installed gas steam radiators in an apartment house under construction and for which the Mortgage Guarantee Company had made a loan.

The radiators were necessary in the use of the building as an apartment house. The defendant company did not pay out the last \$48,000 of its loan until after it had inspected the premises and found the radiators installed and attached to the building by means of slip joints threaded unit and flanges. The deed of trust purported to cover the land with appurtenances, buildings and improvements.

The radiators were placed under a conditional sales contract, providing title should remain in the corporation. The owner failed to make trust deed payment and the mortgage company foreclosed.

The court held the radiator company had no right to remove the radiators. The ruling was made removal would substantially injure the security of the prior encumbrance the conditional vendor's rights must be relegated to those of the prior encumbrancer.

BAUMBERGER NAMED INSPECTION CHIEF

Walter E. Baumberger of Kentfield has been appointed cost and progress engineer in charge of the inspection division of the Golden Gate Bridge District.

It is the first appointment announced by General Manager James Reed.

Baumberger is a well-known architect and engineer. He was selected from among three hundred applicants for inspection appointments.

Major local construction that Baumberger has supervised include the Hotel Mark Hopkins and the Pacific Telephone and Telegraph headquarters building.

PUMP UNIT SALES GAIN IN JANUARY

The number of pumps sold in January exceeded by nearly fifty percent the total for November, but the dollar value was approximately the same, according to manufacturers' reports to the Bureau of the Census. Sales in units and dollars were: November, 12,736 and \$75,595; December, 13,028 and \$56,664; January, 18,077 and \$75,238.

UPTREND SHOWN IN MATERIALS PRICES

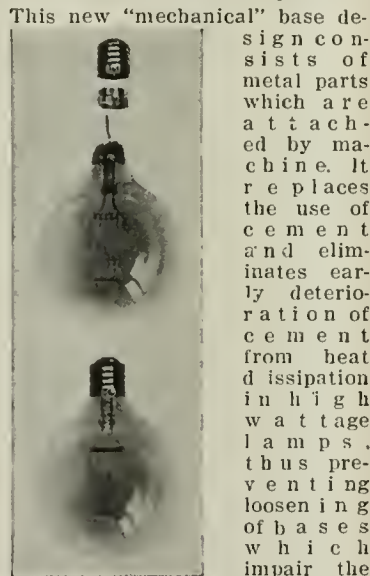
An upward trend in wholesale prices of building materials during the past month is shown in the report of the Bureau of Labor Statistics. The increase in building materials prices is registered in the face of a decline in average prices of all commodities.

The wholesale price index on February 11 stood at 69.6 and had increased by March 4 to 70.1. The average commodity price on February 11 and 60.2 and on March 4 was 59.6.

Price comparisons are based on an index base of 10.0 representing the price level in 1926.

NEW DESIGN FOR SPOTLIGHT LAMPS

The Westinghouse Lamp Company announces a new base design for the Mazda 2000 watt, G-48 bulb projection or spotlight lamp.



This new "mechanical" base design consists of metal parts which are attached by machine. It replaces the use of cement and eliminates early deterioration of cement from heat dissipation in high wattage lamps, thus preventing loosening of bases which impair the position of the light center or cause short circuits.

Development of this new base design is an outgrowth of the reduction in the size of high wattage incandescent light sources. The trend to hotter operation has resulted in faster deterioration of the cement in the bases because of greater heat dissipation. The new base design corrects this condition.

The mechanical base is simple in design, consisting of a ferrule of eraydo metal and a standard mogul base. The ferrule is placed inside the base and both are slipped over the neck of the bulb then clamped into slight indentations moulded in the glass until a tight fit is obtained. One lead wire projects straight through the button of the base and the other is turned up into a groove along the glass neck. After the lead wires are welded to the base is clamped tight the ends of base.

18 CONTRACTS REMAINING ON S. F. BAY BRIDGE

Estimated Cost \$53,000,000 Bids Open on Three-fifths Of Schedule

Eighteen contracts remain to be advertised for bids before the San Francisco-Oakland Bay Bridge awards are completed, it is pointed out by State Director of Public Works Earl Lee Kelly. These are in addition to the five major units on which bids have been received.

On the basis of figures received covering nearly \$34,000,000 worth of the work the entire bridge structure will cost \$53,670,872, Chief Engineer C. H. Purcell estimated. This sum is now the estimated cost of the structural work alone and does not include interest charges during construction, insurance, engineering or legal services, administration costs or an allowance for contingencies.

However with savings to date of \$7,580,890 over original engineers' estimates on the contracts thus far authorized, it is expected that a further reduction will be seen in actual costs when bids are opened on work yet to be advertised.

The contracts on which bids have been received are:

	Low Bid
West Bay Substructure....	\$ 6,957,100.68
East Bay Substructure....	4,495,854.00
East Bay Superstructure	13,732,471.80
West Bay Superstructure..	8,798,096.50

\$33,983,522.98

The contracts on which a date has been set for opening bids are:

	Engineers' Estimate
Yerba Buena crossing,	
March 28	\$ 2,500,000.00
San Francisco Anchorage,	
March 29	1,700,000.00

The contracts on which bids have not been advertised and which will be deferred until the foundation work is well underway are:

No. 8 Demolition of the San Francisco Section; No. 9 San Francisco section; No. 10 Substructure girder spans on mole; No. 11 Moving buildings on Yerba Buena Island; No. 12 Light weight aggregate; No. 13 Administration and toll buildings; No. 14 Electrical work; No. 15 Wrapping cables; No. 16 Operating equipment; No. 17 Final field painting; No. 18 Demolition of San Francisco approaches; No. 19 San Francisco approaches; No. 20 Mole construction and waterfront grading; No. 21 East Bay viaducts; No. 22 Southern Pacific underpass; No. 23 Paving East Bay streets.

SEABERG APPOINTED

E. M. Seaberg has been named East Bay representative of the United States Gypsum Company during the absence of D. F. Scott, who has taken a leave on account of illness. Seaberg resides at 812 Creed Road, Oakland.

State Law Proposed to Aid Builder in Determining Property Loan Agreements

By J. W. MORIN

Following is a memorandum in support of Assembly Bill No. 711, a proposal known as the "Declaration of Intention to Build" Act:

The essential object of this bill is to make readily available the facts essential to a credit investigation of a building enterprise which seeks credit of the public, at its beginning. Ordinarily, a building projected on clear property is a fair credit risk—a building projected on encumbered property may or may not be a fair risk, depending upon not merely the recorded character of the encumbrances, but the facts which lie behind the record, to-wit, an answer to the question, do the encumbrances represent an arrangement under which money, or its equivalent, will be available for the project and, if so, the amount and the exact conditions under which it will be available.

As a matter of law, the borrower and the lender having once committed themselves to a definite set of loan conditions cannot, after the beginning of construction, change these conditions in any material detail without the lender surrendering his preferred lien over the material man, and therefore an intelligent credit investigator can examine the recorded credit set-up required under this proposed law; if it is good, he can sell his goods and rely on the set-up. He knows it will remain as set forth; and, if it is bad, he can stay out in the beginning.

If the credit set-up does not rationally support the construction program, the credit showing will occasion an immediate, consolidated investigation by accredited, responsible trade organizations and it may lead to a modification or abandonment of the abortive enterprise, or to a refinancing thereof along conventional lines, and this is as it should be. If this system had prevailed in the metropolitan areas during the last ten years, it would have finally saved builders, lenders, investors and material men the better part of \$100,000,000, and the building industry, the financing business, the building and loan business, and even the banking business would have been in better repute today. While times were booming, this proposed law was not particularly welcomed in some quarters because it might retard building. Now, while building is fully retarded, is the time to put it on an honest basis for future prosperity.

Purported building finance which is so recorded as to present only a half truth of the credit picture is frequently a device used by lender agencies in dealings with incompetent or visionary borrowers, many of which borrowers are the weakest financial members in society. There is no magic by which a

promise to repay a loan which was never substantially advanced in the first place can be made a real asset upon the books of a lending organization. A transaction which is founded in impossible discounts and commissions and full of junk is also characterized by inflation of material and labor bids, and is headed for trouble later, if not sooner.

The following statements can be made in reference to the proposed law:

FIRST: It does not touch the mechanic's lien law.

SECOND: It does not require anything of one building on clear property.

THIRD: It does not require anything of one building with the proceeds of personal unsecured loans.

FOURTH: It does not require any statement of assets or liabilities.

FIFTH: It does not require any statement of old or fully closed loans, proceeds of which have been heretofore fully advanced before construction.

SIXTH: It does not make a lender responsible for the borrower's statement.

SEVENTH: It only requires a statement of one building on a shoestring, that is, one whose building is to be a part of the security for the loaned funds.

EIGHTH: It does not even supervise or control the building fund in the hands of the borrower.

In summary—only necessitates a showing as to whether or not the project is actually financed or only abortive.

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Executive Office—995 Market St., San Francisco



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San Francisco, Calif.

\$10,000,000 LOAN ASKED BY L. A. FOR REBUILDING

Petition R. F. C. For Money To Replace Wrecked Structures

Supervisors of Los Angeles county will appeal to the Reconstruction Finance Corporation for a loan of \$10,000,000 to build a new county courthouse. It was decided as one of the first moves toward reconstruction of public buildings destroyed by the earthquake.

An additional \$10,000,000 may be asked for constructing new school buildings.

The petition for funds will be filed through Governor Rolph. The district attorney has been instructed to prepare necessary legal forms.

W. E. Record, business manager of the Los Angeles board of education, has filed a preliminary report on school damage in which he stated 142 out of 392 in the city will be unable to open until repairs have been made. Twenty-two schools were reported seriously damaged, while the remaining 120 will be reoccupied after minor repairs.

Walter Barber, secretary of the Long Beach board of education, reported six schools in the district probably would have to be razed. These include four elementary schools and two high schools.

Interior damage to the new \$620,000 Federal Building at Third and American Avenue was estimated at between \$80,000 and \$100,000 by A. R. McPherson of Lindgren & Swinerton, contractors on the building. A considerable portion of the plaster and interior finish will have to be removed for inspection of girders and other structural elements.

Architect Claud Beelman, Union Bank Building, Los Angeles, who designed the Pacific Coast Club on East Ocean Avenue, Long Beach, made a complete inspection of the building and reported that repairs would cost about \$75,000.

Damage to state highways in the earthquake zone has been estimated at \$200,000 in reports to State Director of Public Works Earl Lee Kely. The pavement between Long Beach and Huntington Beach is damaged and bridge approaches have dropped from 3 to 12 inches. The fill at Hathaway cutoff shows large cracks and will require complete rebuilding.

F. J. Connolly, manager of Southern California Chapter, Associated General Contractors, yesterday issued a request for building contractors and qualified estimators to communicate with him at the Chamber of Commerce Building, Los Angeles. Volunteers are being sought for service in Long Beach.

A preliminary summary of damage surveys in affected cities follows:

LOS ANGELES COUNTY: Recommendations have been made by Wm. Davidson, Los Angeles county mechanical engineer that the old Court House be condemned; four old buildings at Rancho Los Amigos be con-

demned, and repairs be made to steel tank and tower.

LONG BEACH: Unofficial estimates of damage to buildings at Long Beach has been placed at not less than \$25,000,000. A survey is now under way to determine the exact extent of damage and which buildings will be condemned.

COMPTON: Practically all buildings in business section of Compton were either demolished or badly damaged and must be replaced or rebuilt. Preliminary surveys of damage now in progress. Estimated damage, \$6,000,000.

HUNTINGTON PARK: City Building Inspector Pryor has established temporary quarters in Bungalow No. 4 at rear of City Hall Park, from where he is directing survey of property damage. Contracting firms of Whipple & McDonald, Reid & Alexander and James C. Barr are working with city officials on the survey. Permits for reconstruction work will not be issued for two or three days. Estimated damage, \$1,000,000.

SANTA ANA: City Building Inspector Sam Preble estimated that fifty major buildings in Santa Ana were partially damaged and that cost of repairs to these structures would total \$150,000 or more.

COSTA MESA: Practically all buildings in the two-block business area were damaged, loss being estimated at \$100,000.

ARTESIA: Survey indicates damage to buildings will exceed \$150,000. A number of buildings were partially wrecked.

HERMOSA BEACH: Survey made by City Officials reveals damage confined to cracks in outer walls of business buildings, broken chimneys, etc. Damage estimated at \$100,000.

SEAL BEACH: Estimated property damage in Seal Beach is \$200,000.

ANAHEIM—Rudolph Nyboe, City Building Inspector is making a survey of damage. Estimate of damage placed at \$125,000.

HAWTHORNE: Property damage in Hawthorne will total less than \$10,000.

MANHATTAN BEACH—Late surveys disclose only slight building damage in Manhattan Beach. Damage confined to broken glass, weakened roofs, etc. Damage estimate, \$1000.

TORRANCE: Property damage in Torrance will probably not exceed \$100,000, according to report based on preliminary surveys.

NEWPORT BEACH: Newport Beach and Balboa report practically no damage.

UAGUNA BEACH—About \$10,000 damage was done. Portions of front fell off business buildings.

VERNON: An estimate of property damage in Vernon made by fire department officials was that loss will not exceed \$10,000.

BELLFLOWER: Business section, in which there were 60 stores and stands was practically demolished. Until survey is made plans for rebuilding will not be made. Damage estimated at \$200,000.

BUENA PARK: Virtually every building in Buena Park was seriously damaged, loss being estimated at \$40,000.

GARDENA: Damage will approximate \$50,000.

BELL: Buildings damaged to extent of \$600,000 according to insurance men. Estimate may increase after larger buildings are thoroughly inspected.

MAYWOOD: Property loss of approximately \$50,000, according to estimates made by Maywood police.

VENICE: Damage in Venice section will not exceed \$60,000.

SOUTH GATE: Mayor Harold Pomeroy estimates property loss at \$600,000.

INGLEWOOD: Building inspector Garfield Leftwich estimates damage at \$100,000.

SANTA MONICA: Officials of city building department state total property loss will not exceed \$5000.

NORWALK: No official estimate of damage has been made but it is expected to be about \$375,000.

WATTS: Stores fronting on two blocks of 103rd Street, either wrecked or seriously damaged. Damage estimated at \$200,000.

WHITTIER: Damage small and scattered. Estimated damage \$20,000.

REDONDO BEACH: Unofficial estimates place damage at \$100,000.

LYNWOOD: Fire department officials estimated property damage at \$3,000,000. Extensive damage to city's water system, including wrecking of steel water tank and tower.

GARDEN GROVE: Damage to buildings is set unofficially at \$50,000.

WILMINGTON: Approximately \$100,000 is a conservative estimate of property damage sustained in Wilmington.

HUNTINGTON BEACH: Major portion of the estimated \$600,000 loss was the destruction of the new \$500,000 elementary school which is a total loss.

DOMINQUEZ JUNCTION: Pacific Electric sub-station totally wrecked.

SAN PEDRO: Some damage to business buildings.

Move More Dirt Faster with LE TOURNEAU Equipment

A complete line of grading machinery—designed by a contractor—developed on actual construction jobs—built to stand continuous use under the worst conditions.

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R. G. LE TOURNEAU, INC.

Wilson Way at Roosevelt

Stockton, Calif.

WATER DISTRICT ASKS BIDS ON THREE TUNNELS

Units of Colorado Aqueduct Are Advertised to Contractors

Bids will be received by the Los Angeles Metropolitan Water District on April 17 for constructing three tunnels of the Colorado River aqueduct.

The work includes excavation and lining of three tunnels divided as follows:

Iron Mountain Tunnel, East Portion, 4.5 mi., West Portion, 3.1 mi.; Coxcomb Tunnel, East Portion, 1.6 mi.; West Portion, 1.9 mi.;

Cottonwood Tunnel, East Portion, 1.9 mi., West Portion, 1.9 mi.

Proposals will be received for construction with a finished interior diameter of 16 feet and an alternate for a finished interior of 12 feet 4 inches. The total contract price will be in the vicinity of \$4,000,000, it is estimated.

Iron Mountain tunnel site is located about 20 miles west of Rice station on the A.T. & S. F. Ry.; Coxcomb tunnel site 36 miles west of Rice, and Cottonwood tunnel site about 17 miles east of Indio.

ENTERPRISE BOOTH FOR BURNER SHOW

Enterprise Oil Burner Company of San Francisco has reserved Booth 29 at the Tenth National Oil Burner Show to be conducted by the American Oil Burner Association at Hotel Stevens in Chicago, June 12-16.

The Enterprise display will feature domestic and commercial burners for heavy fuel oil. Mr. H. Barley, vice-president of the company, will be in attendance at the exhibit booth. Distributors of the company's products from various sections of the country also will have headquarters at the booth.

DELIVERY OF CEMENT FOR DAM IS STARTED

With a capacity cargo of cement from the plant of the Santa Cruz Cement Company, the S. S. Point Arena is on its way toward the Panama Canal to deliver the material to the site of the Madden dam near Balboa.

The shipment is the first of an order for 350,000 barrels to be produced by Santa Cruz for the United States Government for use in the dam construction. Madden dam is designed to protect the canal from floods and to provide a storage supply of water during drought periods.

The million-dollar contract will keep the cement plant busy for more than six months. Three ships have been chartered to carry the consignment to Panama, at the rate of 5350 barrels a trip.

BERTELSEN AGAIN PRESIDENT OF OAKLAND EXCHANGE

S. J. Bertelsen, Oakland general contractor, was re-elected president of the Oakland Builders' Exchange at the first meeting of the new board of directors.

Other officers elected are: W. E. McGrath of McGrath Steel Co., vice-president; William Makin, plastering contractor, treasurer; Sam C. Hanna, Port Costa Brick Co., secretary.

Twelve directors were elected at the annual meeting held Monday, a three-cornered tie occurring in the contest for twelfth member of the board. A drawing resulted in the seating of Carl Replogle, Judson-Pacific Company, who was tied with Clyde Sherwood and David Nordstrom in the original vote.

The other members of the board are S. J. Bertelsen, H. J. Christensen, William Makin, Sam C. Hanna, Thomas F. L. Furlong, Wm. E. McGrath, W. E. Lyons, W. W. Harmon, A. C. Bocchio, W. J. Rigney and Walter B. Innes.

Two hundred and fifty members of the Exchange attended the annual dinner served at Stephens'

Restaurant Monday night. An entertainment at the Exchange followed the dinner. Refreshments were donated by the following firms: Gladding McBean Co., McNear Brick Co., W. S. Dickey Co., Rhodes-Jamieson, Port Costa Brick Works, Sunset Lumber Co., N. Clark & Son, Union Oil Co.

Committees in charge of the annual affair included Sam C. Hanna, general chairman; Wm. McGrath, chairman of the house committee; Pierce Ricker, door prizes; Fred Bocchio, Carl Replogle, W. E. Thornally, refreshments; Ralph King, J. F. Fitzmaurice, R. O. Brown, entertainment.

TO TEST WOODLAND LICENSING ORDINANCE

Test of the validity of the Woodland city ordinance licensing electrical contractors has been undertaken by Ernest Conger, who was arrested on complaint of Building Inspector Geo. Hazeman.

Conger is charged with operating without a license. He entered a plea of not guilty and his trial has been set for March 21.

Forest Industries Designs Small House To be Built and Equipped for \$2500

By careful selection of floor plans and designing, and installation of suitable household equipment, the small house can provide many of the desirable features of a larger dwelling and at the same time be erected at very modest cost.

Plans, developed by American Forest Products Industries to meet the requirements of deflated income and new price levels, call for construction along customary lines, except that a departure from the standard type of wall framing makes it possible to install vertical boarding on the interior instead of plaster. A three-room modern house with standard household equipment included, will cost from \$1800 to \$2500 to build, not counting, of course, the price of lot, says a bulletin from the organization.

"The house is 20 feet wide by 30 feet deep and can be built on a comparatively narrow lot. By running a gable across the front of the house, the roof lines and side elevations are broken up and offer a more pleasing effect than is obtained with the single gable roof. The sloping roof at the front with the narrow overhang at the cornice hint of the Colonial type of architecture.

"The floor plan consists of a living room 13½ feet square at the front of the house, with storage space and bath at the right. The dinette and kitchen are to the left toward the rear of the house and a bedroom 10½ feet by 12 feet is at

the right rear. The living room may be utilized as a spare bedroom with a disappearing bed. When the bed is in use the bath is accessible from the living room through the bed-storage space. Otherwise the bath may be entered only through the bedroom.

'An excavated basement under the rear of the house accommodates the heater, fuel storage, laundry trays and provides space for limited storage and a work bench. The attic space may also be used for storage of articles. It is accessible through a trap door in the ceiling at the head of the basement stairs.

"The unique feature of the wall construction is the 2-in. by 2-in. studs spaced 16-in. on centers with 2-in. by 2-in. horizontal strips spaced 2 feet apart, to which the vertical interior finish boards are nailed. This construction with exterior diagonal sheathing provides ample strength for the loads to be carried.

"The house can be heated to advantage either by a 'pipeless' warm air furnace with short air ducts or by a hot water system. Insulating properties of the walls are slightly better than for the standard frame and plastered type. The 2½ inches of loose insulation over the wood finish ceiling cuts down the heat transfer to about one-fifth of what it would be through a lath and plastered ceiling. This effective type of insulation should make practical the installation of an automatic heating system with either gas or oil."

PERMITS AND CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
135	White	Stahl	1300
136	Emporium	Owner	4000
137	Emporium	Owner	35000
138	Taylor	Barrett	1995
139	Federal	Walker	1000
140	Merritt	Risdon	4500
141	P T & T	MacDonald	6000
142	Nelson	Owner	20000
143	Lennon	Owner	2000
144	Theodos	Murer	1500
145	Bargene	Owner	125000
146	Standard	Owner	4000

ALTERATIONS

(135) S ARMY 50 W Potrero Ave. Alter store.
Owner—L. S. White, 2250 North Point St., San Francisco.
Architect—Not Given.
Contractor—R. C. Stahl, Colma. \$1300

ALTERATIONS

(136) NO. 844-848 MISSION. Alter warehouse.
Owner—The Emporium, 835 Market St., San Francisco.
Engineer—V. H. Poss, 2929 Russell St., Berkeley.
Contractor—Not Selected. \$4000

WAREHOUSE

(137) N MISSION 312 E FIFTH ST. Class A warehouse.
Owner—The Emporium, 835 Market St., San Francisco.
Engineer—V. H. Poss, 2929 Russell St., Berkeley.
Contractor—Not Selected. \$35,000

REPAIRS

(138) 975-985 McALLISTER ST.; repair fire damage to flats.
Owner—N. and F. Taylor, trustees, % contractor.
Architect—Not Given.
Contractor—Barrett & Hillp, 918 Harrison St. \$1995

ALTERATIONS

(139) NE SANSOME AND SACRAMENTO STs. Alter interior of bank.
Owner—Federal Reserve Bank, Prem.
Architect—Not Given.
Contractor—P. J. Walker Co., Sharon Bldg., San Francisco. \$1000

DWELLING

(140) S MARINA BLVD. 80 W Broderick. Two-story and basement frame dwelling.
Owner—H. S. Merritt, % Contractor. Plans by Contractor.
Contractor—Risdon Bros., 735 Marina Blvd., San Francisco. \$4500

ADDITION

(141) SW LARKIN AND BUSH STS. Addition to telephone exchange.
Owner—Pacific Telephone & Telegraph Company.
Architect—Not Given.
Contractor—MacDonald & Kahn, Financial Center Bldg., San Francisco. \$6000

APARTMENTS

(142) N WEST PORTAL 180 E 14th Ave. Three-story and basement frame (12) apartments.
Owner—Mrs. F. Nelson, % Architect.
Architect—H. C. Baumann, 251 Kearny St., San Francisco.
Engineer—J. M. Smith, 251 Kearny St., San Francisco.
Contractor—Not Given. \$29,000

GARAGE

(143) ADJ. 2340 WASHINGTON ST. One-story frame private garage.

Owner—K. M. Lennon, % Architect.
Architect—J. E. Krafft & Sons, Phelan Bldg., San Francisco. \$2000

ADDITION

(144) NO. 1532 THOMAS AVE. Addition to dwelling.
Owner—J. Theodos, Premises.
Architect—G. A. Berger, 309 Valencia St., San Francisco.
Contractor—L. Murer, 1815 Mason St., San Francisco. \$1500

APARTMENTS

(145) NE PACIFIC AND BUCHANAN Seven-story Class A (56) apartments.
Owner—Bargene Realty Co., Monadnock Bldg., San Francisco.
Architect—C. E. J. Rogers, Phelan Bldg., San Francisco.
Engineer—W. Adrian, 417 Market St., San Francisco. \$125,000

DWELLING

(146) S MAGELLAN 146 E Cortez. Two-story and basement frame dwelling.
Owner—Standard Bldg. Co., 218 Castaneda Ave., San Francisco.
Architect—Donnell E. Jaekle, Call Bldg., San Francisco. \$4000

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
74	Mills	Schuler	3000
75	Showers	Kesti	3300
76	P T & T	Thornally	13500
77	P T & T	Thornally	1500
78	Pacific States	Rich	2650

SHED, ETC.

(74) SW SEMINARY AVE. AND Mountain Blvd., Oakland. One-story shelter shed and bleachers.
Owner—Mills College Riding Academy Mills College.
Architect—W. H. Ratcliff, Chamber of Commerce Bldg., Berkeley.
Contractor—Schuler & McDonlad, 1730 Webster St., Oakland. \$3000

DWELLING

(75) NO. 6221 TELEGRAPH AVE., OAKLAND. One-story five-room dwelling.
Owner—B. T. Showers, 623 62nd St., Oakland.
Architect—Not Given.
Contractor—David Kestl, 2217 Brownling St., Berkeley. \$3300

ALTERATIONS

(76) NO. 1545 FRANKLIN ST., OAKLAND. Alterations.
Owner—Pacific Telephone & Telegraph Co., 140 New Montgomery St., San Francisco.
Architect—E. V. Cobby, 140 New Montgomery St., San Francisco.
Contractor—W. G. Thornally, 354 Hobart St., Oakland. \$13,500

ALTERATIONS

(77) NO. 1521 FRANKLIN ST., OAKLAND. Alterations.
Owner—Pacific Telephone & Telegraph Co., 140 New Montgomery St., San Francisco.
Architect—E. V. Cobby, 140 New Montgomery St., San Francisco.
Contractor—W. G. Thornally, 354 Hobart St., Oakland. \$1500

ALTERATIONS

(78) NO. 2215-17-19-21 HOPKINS ST. OAKLAND. Alterations.
Owner—Pacific States Saving & Loan Co., San Francisco.
Architect—Not Given.
Contractor—James L. Rich, 556 37th St., Oakland. \$2650

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

27 U. S. Govt. Lindgren 3116

PAINTING, ETC.

(27) NW SEVENTH and Mission St. N 45 deg 08 min 09 sec W 325 S 44 deg 51 min 51 sec to E Stevenson S 45 deg 08 min 09 sec W 325 S 44 deg 51 min 51 sec 350 gal N 7th to beg; painting and finishing four-story and basement steel frame building.

Owner—United States Government.
Architect—G. W. Kelham, 315 Montgomery Street.
Contractor—Lindgren and Swinerton, Inc., 225 Bush St.
Sub-contractor—Mark A. Miller, Inc. Filed Mar. 11, '33. Dated Feb. 23, '33.
15 of each month.....75%
36 days after completion.....25%
TOTAL COST, \$3116
Bond, \$1558. Sureties, Hartford Accident & Indemnity Company.

SAN FRANCISCO UNDER \$1000

ALTER dwelling, \$2; 623 Paris St.; owner, O. F. Espen, 623 Paris St.
ALTER store, \$45; 1239 9th Ave.; owner, A. P. Fisher, 111 Sutter St.
ADDITION to dwelling, \$100; 66 Delano Ave.; owner, P. Marta, Prem.
ALTER warehouse, \$800; NW Steuart and Howard; owner, Southern Pacific Co., 65 Market St.; architect, J. H. Christie, 65 Market.
ALTER store, \$250; 855 Capp St.; owner, Mrs. F. E. Bradley, Prem.
SIGN, board, \$68; 62 First St.; owner American Thread Co., Inc., 526 Mission Ct.; contractor, Swan 1117 Howard St.
SIGN electric, \$50; 658 Market St.; owner, Process Engraving Co., 658 Market St.; contractor, Elec. Prods. Corp., 255 Golden Gate Ave.
ALTER rooming house, \$6; 2139 Pierce St.; owner, C. Bontano, Premises.
ALTER flats, \$895; E Hampshire 100 S 20th St.; owner, A. Gravano, 2633 20th St.; contractor, H. Apte, 287 Arleta St.
STUCCO front of flats, \$110; 560 Fell St.; owner, Mr. Kelly, 1998 Eddy St.; contractor, J. Atkinson, 578 Linden St.
ALTER storehouse roof, \$350; 1035 Howard St.; owner, Eng-Skell Co., 1035 Howard St.
REPAIR fire damage to dwelling, \$400; 1032 Munich St.; owner, Mrs. Stretch, 1032 Munich St.; contractor, I. W. Coburn, 2048 Market
SIGN, electric, \$350; 2500 Fillmore St. owner, Wrenden Grocery Co., 2500 Fillmore St.; contractor, Neon Sign Service Co. 1707 Folsom St.
GARAGE, one-story frame (private), \$40; ...W 48th Ave. and Lawton St.; owner, C. L. Harney, Call Bldg.
ALTER dwelling, \$500; 731 Jackson St.; owner, William Co., 1108 Stockton St.
SIGN, electric, \$250; 1170 Sutter St.; owner, Howard Olsen, 1170 Sutter St.; contractor, Neon Sign Service Co. 1707 Folsom St.
GARAGE private, frame, \$20; E Zoe 237 S Bryant St.; owner, Mrs. M. Johansen, 43 Zoe St.
BILLBOARD, \$7; N Ellis 40 E Larkin St.; owner, Foster & Kleiser, 1675 Eddy St.
SIGNS (3) electric, \$200; 473 Ellis St. owner, Hotel Woodland, 473 Ellis St.; contractor, America Electric Sign Co., 1740 Eddy St.

BUILDING NEWS

1—APARTMENTS

Low Bidder.
APARTMENTS Cost, \$—
SAN FRANCISCO. N West Portal W
 Fourteenth Avenue.
 Three-story and basement frame and
 stucco apartments (12 2- and 3-
 room apts.); tile and composition
 roof, fireplaces, steam heating sys-
 tem, hardwood floors, tiled baths,
 electric refrigeration etc.
 Owner—Mrs. F. Nelson.
 Architect—H. C. Baumann 251 Kear-
 ny St., San Francisco.
 Low Bidder—San Francisco Constr.
 Co., 3159 Fillmore St.

2—BONDS

March 10, 1933
NO BIDS RECEIVED—POSTPONED
SAN MATEO, Cal.—No bids received
 March 7 by city council for \$8785.80
 improvement bonds, 7% interest, un-
 der 1903 Street Opening Act. Certi-
 fied check 10% payable to City of San
 Mateo required with bid. Date of
 opening bids was put off for two
 weeks, until March 20, 8 P. M.

3—CHURCHES

March 10, 1933
 Preparing Plans.
REBUILD Cost, \$—
SAN FRANCISCO. 2475 California St.
 Rebuild structure recently destroyed
 by fire.
 Owner—St. Paul's Episcopal Church
 (Rev. Leslie C. Kelly, pastor).
 Architect—Arnold Constable, 580 Mar-
 ket Street.
 Further details will be announced
 shortly.
 (903) 1st report Feb. 16, 1933. 3

Roofing Contract Awarded.
REPAIRS Cost, \$2500
SAN FRANCISCO. No. 301 Raymond
 Avenue.
 Repair fire damage to church.
 Owner—Roman Catholic Archbishop
 of San Francisco, 1100 Franklin
 St., San Francisco.
 Architect—Not Given.
 Contractor—J. W. Coburn, 2048 Market
 St., San Francisco.
 Roofing—Alta Roofing Co., 976 Indiana
 St., San Francisco.

Preparing Preliminary Plans.
ADDITION Cost, \$3000
SAN FRANCISCO. No. 750 25th Ave.
 Frame addition to Jewish Synagogue
 (raise roof, add social rooms, etc.)
 Owner—Chebra Thilim.
 Architect—J. Lloyd Courich, 815 25th
 Ave., San Francisco.

4—FACTORIES & WARE- HOUSES

Contract Awarded.
BAKERY Cont. Price, \$4920
SUNNYVALE, Santa Clara Co., Calif.
 One-story reinforced concrete bakery
 (25x125 ft.) tar and gravel roof,
 reinforcing steel, sheet metal sky-
 lights, bakery equipment, new oven,
 etc.
 Owner—Sunnyvale Bakery (A. Bla-
 rislo) 215 Murphy St., Sunnyvale.
 Plans by Frank Moore, 1132 Glenn
 Ave., San Jose.
 Contractor—A. N. True, Mt. View.
 Bakery equipment will be furnished
 by owner.

HEALDSBURG, Sonoma Co., Cal.—
 Fire destroyed the Frank Passalacqua
 winery at Healdsburg March 9. Build-
 ing was located on Sixth St. near
 the Healdsburg High School. Damage
 estimated at \$45,000.

SEATTLE, Wash.—E. J. Bartells
 Co., 1212 6th St. S. Seattle, at \$1,185
 awarded contract by Seattle Port
 Commission for roofing of the Bel St.
 Transit Shed.

SANTA BARBARA, Cal.—E. L. Cra-
 gen, San Fernando, has petitioned the
 Santa Barbara city council for a
 change in the La Mesa zoning ordi-
 nances to permit him to build a top-
 ping plant for oil in the La Mesa area,
 Santa Barbara. Council referred the
 matter to the city planning commis-
 sion. Mr. Cragen now operates a top-
 ping plant in the Venice district.

SAN FRANCISCO — Kamlan Fence
 Co., 351 Bryant St., at \$135 awarded
 contract by Department of Public
 Works, to install two 8x8 gates for
 central warehouse, 15th and Har-
 rison Streets.

Blds Wanted—To Close March 27.
WAREHOUSE Cost, \$30,000
SEATTLE, Washington, No. 4634 East
 Marginal Way.
 One-story warehouse (276x150 ft.)
 masonry walls, metal sash, con-
 crete floors, etc.
 Owner—Withheld.
 Plans by Austin Co. of Calif., Dexter
 Horton Bldg., Seattle.
 Lambuth & Sill, Hoge Bldg., Seattle,
 released the plans to contractors.

OAKLAND, Alameda Co., Cal.—
 Until March 20, 4:30 P. M., bids will
 be received by G. B. Hegardt, Sec-
 retary, City of Oakland Port Commis-
 sion, Grove Street Pier, for repairs to
 floors of the second unit of Terminal
 Building "B." Specifications avail-
 able.

5—FLATS

Contract Awarded.
SERVICE STATION Cost, \$6000
SAN FRANCISCO. SW Pierce and
 Lombard Streets.
 Two one-story steel service station
 buildings.
 Owner—Standard Oil Co., 225 Bush St.,
 San Francisco.
 Plans by Eng. Dept. of Owner (P. H.
 Brown, engineer).
 Contractor—Lindgren & Swinerton,
 Inc., 225 Bush St., San Francisco.

Contract Awarded.
REPAIRS Cost, \$2000
SAN FRANCISCO. 975-85 McAllister
 Street.
 Repair fire damage to flats.
 Owner—N. and F. Taylor, trustees, %
 Barrett & Hilp.
 Architect—Not Given.
 Contractor—Barrett & Hilp, 918 Har-
 rison Street.

6—GARAGES & SERVICE STATIONS

Sub-Contracts Awarded.
SERVICE STATION Cost, \$3000
SAN FRANCISCO. NE Taylor and
 O'Farrell Streets.
 One-story steel service station.
 Owner—Bohemian Garage, premises.
 Plans by Eng. Dept. of Standard Oil
 Co., 225 Bush Street.

Contractor—Barrett & Hilp, 918 Har-
 rison Street.

Plumbing—Dowd & Welch, 3558 16th
 Street.

Mill Work—J. A. Hart Mill & Lumber
 Co., Jerrold and Napoleon Sts.

Paving—A. G. Ralsch, 46 Kearny St.

Pumps—Tokhelm Tank & Pump Co.,
 462 9th St.

As previously reported, steel build-
 ing awarded to Michel & Pfeffer Iron
 Works, Harrison and Tenth Sts.

Sub-Contracts Awarded.
 Contract Awarded.
SERVICE STATION Cost, \$6000
SAN MATEO, San Mateo Co., Cal.
 Poplar and El Camino Real.
 Brick and stucco service station.
 Owner—Union Oil Co., Mills Bldg.,
 San Francisco.
 Plans by Engineering Dept. of Ower.
 Contractor—Lindgren & Swinerton,
 Inc., 225 Bush St., San Francisco.

Contracts Awarded.
SERVICE STATION Cost, \$5000
SAN FRANCISCO. SW California
 and Stelner Streets.
 Two one-story Class C service station
 buildings.
 Owner—Shell Oil Co., Shell Bldg., San
 Francisco.
 Plans by Engineering Dept. of Owner.
Steel Building—Independence Iron
 Works, 1820 Chase St., Oakland.
Concrete Work, Etc.—Louis Cohn,
 Premises.
 Electric and plumbing contracts will
 be awarded shortly.

7—GOVERNMENT WORK AND SUPPLIES

SAN DIEGO, Cal.—J. A. Hunt, P.
 O. Box 146, East San Diego, submit-
 ted low bid to Public Works Officer,
 11th Naval District, San Diego, March
 7, at \$1948 for constructing timber
 floats at the Naval Operating Base
 under Spec. No. 7227. The work con-
 sists of (a) the provision of materials
 for and the construction of two tim-
 ber floats approx. 14 feet wide and 48
 feet long; and (b) the delivery of the
 two floats to the Government at the
 Destroyer Base. The Government will
 provide mooring and place the floats.
 The engineer recommended that the
 contract be awarded to the low bid-
 der.

The other bids were:
 Campbell Machine Co.....\$2107.31
 Club Boat Shop..... 2145.00
 B. L. Morris..... 2192.00
 John C. Moore..... 2192.03
 Fellows & Stuart, Inc..... 2240.00
 Chas. and F. W. Steffgren..... 2290.00
 San Diego Marine Const. Co..... 2337.97
 Ira M. Johnson..... 2340.00
 Miracle Company..... 2362.00
 Gustaf L. Anderson..... 2400.00
 Fred F. Greenfield Co..... 2777.00

March 10, 1933
 Sub-Contract Awarded.
ADDITION Cost, \$625,530
SAN FRANCISCO. Seventh and Mis-
 sion Streets.

Four-story Class A reinforced concrete
 addition to post office (granite ex-
 terior).

Owner—United States Government.
 Architect—Geo. W. Kelham, 315 Mont-
 gomery St., San Francisco.

Contractor—Lindgren & Swinerton,
 Inc., 225 Bush St., San Francisco.

Roofing Dampproofing and insulation—
 J. W. Bender Roofing & Paving
 Co. 18th and Bryant Sts., S. F.

Other awards reported February 14.

Plans Being Completed.
HEADQUARTERS BLDG. \$40,000
 SAN RAFAEL, Marin Co., Cal. Hamilton Field.

Concrete and hollow tile headquarters building (177 feet long, two-story center); tile roof, Spanish Mission style.

Owner—United States Government.
 Plans by Contracting Quartermaster, Hamilton Field.

Plans will be completed in about thirty days.

SUNNYVALE, Santa Clara Co., Cal.—Columbia Machine Works, 160 Spear St., San Francisco, at \$1035 submitted low bid to Public Works Office Twelfth Naval District, 100 Harrison St., San Francisco, for improvements to the mobile telescopic mooring mast at the Naval Air Station, Sunnyvale. Spec. No. 7226. Work includes a steel hatchway in the roof of the winch house, carbon dioxide fire extinguishing system for the mast top and the power house, a market for centering the telescopic mast, electric light circuit and fixtures, etc.

Only other bid was submitted by Wellman Engineering Company, Cleveland, Ohio, at \$1210. Bids held under advisement.

WASHINGTON, D. C.—Until April 5, 11 A. M., bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C. for alterations to trolley beams in the hangar at the Naval Air Station Sunnyvale, Calif. Specification No. 7243. Plans and specifications available from above office and from Commandant, Twelfth Naval District, 100 Harrison St., San Francisco, upon deposit of \$10.

WASHINGTON, D. C.—As previously reported, Dravo Contracting Co., Pittsburgh, Pa., at \$352,680 awarded contract by Bureau of Yards & Docks, Navy Department, for a steel floating dock, 393 feet long and 50 ft. beam, having a closed bow and a hinged gate at the stern, and including oil engine generator, pumps, piping and electric power and light systems for the Naval Operating Base (destroyer base) San Diego. Specifications No. 6532.

Following is a complete list of bids:

Dravo Contracting Co., Pittsburgh, Pa.	\$352,680
Pusey and Jones Corp., Wilmington, Del.	359,360
Treadwell Const. Co., Midland, Pennsylvania	364,000
Maryland Dry Dock Co., Baltimore	365,704
Wallace Bridge & Struc. Steel Co., Seattle	386,000
Ney York Shipbuilding Co., Camden, N. J.	417,000
Sun Shipbuilding & Dry Dock Co., Chester, Pa.	425,000
Bethlehem Shipbuilding Corp. New York City	484,000
Berg Shipbuilding Co., Seattle, Wash.	522,195

SAN DIEGO, Calif.—R. G. Meyler Corp., 408 S Spring St., Los Angeles, submitted lowest bid (at hour of opening) to Bureau of Yards and Docks at \$69,000 for removal of four 250-hp. power boilers, two boiler feed pumps, feed water heater, certain piping and accessories, and their replacement with three 500-hp. water tube boilers, including foundations, settings, oil burning units, soot blowers, deaerating feed water heater, boiler feed pumps, boiler appurtenances, walkways, alterations to breeching and complete piping systems and accessories at the Naval Operating Base, San Diego; Spec. No. 7171. The bids follow:

R. G. Meyler Corp. (1) solid brick walls and steam atomizing burners, \$69,000; (2) solid brick walls and mechanical atomizing burners, \$73,000; (3) air-cooled walls and steam burners, no bid; (4) air-cooled walls and mechanical burners, no bid.

A. D. Granger Co., (1) \$69,608 (2) \$73,739 (3) \$72,908 (4) \$76,947.

M. H. Golden (1) \$72,000 (2) \$77,394 (3) \$80,000 (4) \$85,394.

C. C. Moore & Co. (1) 74,043 (2) \$81,968 (3) \$78,500 (4) \$86,723.

John W. Danforth Co. (1) \$74,117 (2) \$80,040 (3) \$76,121 (4) \$81,707.

Puget Sound Machinery Depot (1) \$74,430 (2) \$77,529 (3) \$77,131 (4) \$80,230.

Washington Iron Works (1) \$74,434 (2) \$79,361 (3) \$79,646 (4) \$83,573.

St. Louis Fire Brick Co. (1) \$74,809.

Consolidated Steel Corp. (1) \$78,000 (2) \$82,613.

Industrial Heating & Engr. Co., Milwaukee, Wis., submitted bids of \$64,350 on (1) and \$68,740 on (2), but the regularity of this proposal is questioned as it was not received in Washington until after the hour of opening.

PORT ORFORD, Ore.—A. Del Guzzo 3702 Ida St., Seattle, at \$5,400 awarded contract by U. S. Coast Guard for cottages, etc., in connection with the work at Port Orford. As previously reported, Yuhasz and Olsen, 4174 Connecticut St., Gary, Ind., at \$22,594 awarded contract for boat house, runway, etc.

WASHINGTON, D. C.—As previously reported, Crocker Wheeler Electric Co., Ampere, New Jersey, at \$30,785 submitted low bid to Bureau of Yards & Docks, Navy Department, for generator set at the Puget Sound Navy Yard, Bremerton, Wash. Following is the complete list of bids:

Crocker Wheeler Co., Ampere, New Jersey	\$30,785
General Elec. Co., Schenectady, New York	32,975
Allis-Chalmers Mfg. Co., Milwaukee, Wis.	33,196
Westinghouse Electric Mfg. Co. Washington, D. C.	33,500

Bids held under advisement.

WASHINGTON, D. C.—As previously reported, Blake Palm Elevator Co., Washington, D. C., at \$8,500 submitted low bid to Bureau of Yards and Docks, Navy Department, for freight elevators at the Naval Operating Base, Pearl Harbor, T. H. Specifications No. 7122. Following is a complete list of bids received:

Blake Palm Elevator Co. Washington, D. C.	\$ 8,500
Otis Elevator Co., Washington, D. C.	9,224
Kieckhefer Elevator Co., Milwaukee, Wis.	10,800
Warner Elevator Mfg. Co., Cincinnati, Ohio	12,000

Bids held under advisement.

FORT LEWIS, Washington—Quartermaster General, Washington, D. C., awarded the following contracts in connection with the building work at Fort Lewis:

- Asphalt Asbestos Tile — Duro Tile Flooring Co., Seattle, at \$2905.
- Tile Quarry Floors—McDonald Bldg. Co., Tacoma.
- Linoleum—D. E. Fryer & Co., Seattle
- Painting—J. G. Shacklett, Tacoma.

PHOENIX, Ariz.—Until April 6, 4 P. M., bids will be received by the Interior Department, Indian Field Service; Phoenix Indian Sanatorium, 1550 E Indian School Road, Phoenix, for furnishing and installing electric refrigerator cabinet in the Infirmary Building of the Phoenix Indian Sanatorium. Work includes refrigerator box, complete with coils, compressor,

motor and necessary switches, wiring and piping. Specifications may be inspected at the office of Daily Pacific Builder by those interested.

Preparing Working Drawings.
FEDERAL BLDG. Cost, \$5,265,000
 LOS ANGELES, Los Angeles Co., Cal. Temple St. bet. Spring and Main Streets.

Fifteen-story H-shaped steel frame and reinforced concrete Federal building (182x370 ft.); granite facing, some terra cotta facing, 10 passenger elevators, 2 freight elevators, steam heating, etc.

Owner—United States Government.
 Architect—John C. Austin and Frederic M. Ashley, Chamber of Commerce Bldg., Los Angeles, and John arnd Donald Parkinson, Title Insurance Bldg., Los Angeles.

Plans will be completed about Sept. 1.

Commissioned To Prepare Plans.
POST OFFICE Cost, \$—
 SPOKANE, Washington.
 Post Office.

Owner—United States Government.
 Architect—Rigg & Vantyne, Peyton Bldg., Spokane.

ALBROOK FIELD Canal Zone—Office of the Constructing Quartermaster, Fort Mason, San Francisco, has available for distribution to prospective bidders, a limited number of plans and specifications in connection with excavation, both earth and rock, curbs, sidewalks, pavement, water distribution and fire protection systems; storm and sanitary sewer systems; electrical distribution system; Dispensary; Fire and Guard House; Garage; the remodeling of the present 66 ft. Hangar into a QM Warehouse and the Headquarters and Operations Building (total of five (5) buildings) for the Air Corps at Albrook Field, Canal Zone.

Sealed bids for this work will be received by the Department Quartermaster, Panama Canal Department, Quarry Heights, Canal Zone, until 11 A. M., May 1, 1933, and then publicly opened.

A deposit of \$50 is required on these plans and specifications to insure their return. Checks must be made payable to the Treasurer of the United States. No cash deposit will be received.

If requested plans will be forwarded by mail upon receipt of U. S. postage in sufficient amount to carry 17 lbs. by parcel post from San Francisco to destination.

WASHINGTON, D. C.—Until April 12, 11 A. M., bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., for two fire alarm systems, each consisting of call boxes air horns, gongs, control board and accessory equipment, wires, cables and connections to existing services at the Naval Ammunition Depot, Oahu, T. H. Specification No. 7021. Plans and specifications available from above office, from Commandant, Fourteenth Naval District, Navy Yard, Pearl Harbor, T. H., and Commandant Twelfth Naval District, 100 Harrison St., San Francisco, upon deposit of \$10.

WASHINGTON, D. C.—Bids are being received by the Bureau of Yards and Docks, Navy Department, Washington, D. C., for fire protection system at the Fuel Depot, Pearl Harbor T. H. Specification No. 7068. Date of opening bids not yet set.

RENO, Nevada—Until 2 P. M., April 5, bids will be received by the Treasury Department, Office of the Supervising Architect, Washington, D. C.,

for furnishing and installing interior lighting fixtures in the United States Post Office at Reno. Plans and specifications may be obtained from the supervising architect in Washington.

Commissioned To Prepare Plans.
 POST OFFICE Cost, \$85,000
 HOLLISTER, San Benito Co., Cal.
 Class A Post Office.
 Owner—United States Government.
 Architect—G. Albert Lansburgh 140
 Montgomery St., San Francisco.

WASHINGTON, D. C.—Cincinnati Fly Screen Co., Cincinnati, at \$3900 submitted low bid to Bureau of Yards and Docks, Navy Department, for providing door window and transom screens at the Naval Air Station, Sunnyvale. Specification No. 7076. Second low bid was submitted by the Watson Manufacturing Co., Jamestown, New York, at \$3998. Complete list of bids will be published shortly.

WASHINGTON, D. C.—Walter G. Warren, 363 E. Ohio St., Chicago, Ill. at \$574 submitted low bid to Treasury Department for furnishing and installing interior lighting fixtures in the U. S. Post Office at Napa, Calif. Second low bid was submitted by Moe Bridges, Milwaukee, at \$585. Complete list of bids will be published shortly.

WASHINGTON, D. C.—Walter G. Warren, 363 E. Ohio St., Chicago, Ill., at \$487 submitted low bid to Treasury Department, Washington, D. C., for furnishing and installing interior lighting fixtures at the U. S. Post Office, Vallejo, Calif. Second low bid was submitted by Moe Bridges, Milwaukee at \$575. Complete list of bids will be published shortly.

Bids Wanted—To Close April 14, 11 A. M.
 EXTENSION Cost, \$—
 SAN FRANCISCO.

Extension of wharf shed for Dock No. 2 (150x92 feet); steel frame, five rolling doors, copper beaming, monitor sash, copper gutters; outside walls of reinforced concrete.
 Owner—United States Government.
 Plans by Constructing Quartermaster, Fort Mason, San Francisco.
 Plans and specifications available from above office upon deposit of \$10.

Commissioned To Prepare Plans.
 POST OFFICE Cost, \$90,000
 SAN RAFAEL, Marin Co., Cal. NE D and Third Streets.
 Class A Post Office.
 Owner—United States Government.
 Architect—Albert Evers, 525 Market St., San Francisco.

Commissioned To Prepare Plans.
 POST OFFICE Cost, \$65,000
 SANTA CLARA, Santa Clara Co., Cal. SW Franklin and Jackson Sts.
 One-story Post Office (Mission style), tile roof.
 Owner—United States Government.
 Architect—Clarence R. Ward, 24 California St., San Francisco.

Commissioned To Prepare Plans.
 POST OFFICE Cost, \$—
 BELL, Los Angeles Co., Cal. Post Office.
 Owner—United States Government.
 Architect—Hibbard, Gerity & Kerton, 816 W. 5th St., Los Angeles.

PEARL HARBOR, T. H.—Following have procured plans for the purpose of submitting bids to the Bureau of Yards and Docks, Navy Department, Washington, D. C., on May 3 for pier and two quays of reinforced concrete construction, supported on concrete cylinders on wood piles and on concrete piles and includes a steel sheet pile

bulkhead, timber fender systems, track work, piping and electrical conduits at Pearl Harbor, T. H. Spec. No. 7224. Estimated cost, \$800,000:

- Honolulu Iron Works, Honolulu, T. H.
- American Factors, Matson Bldg., San Francisco.
- Stuart Mannell & Co., Arctic Bldg., Seattle, Wash.
- General Cable Corp., 465 10th St., San Francisco.
- E. T. Thurston, 57 Post St., San Francisco.
- Enterprise Foundry, 2902 19th St., San Francisco.
- W. A. Bechtel, 155 Sansome St., San Francisco.

Roofing Contract Awarded.
 OFFICERS' QTS. Cont. Price, \$73,968
 SAN FRANCISCO. Fort Mason.
 Seven sets of two-story and basement officers' quarters (hollow tile construction, Mission stucco exterior, three baths to each set, garage, hot water heating system, etc.)
 Owner—United States Government.
 Plans by Constructing Quartermaster, Fort Mason, San Francisco.
 Contractor—William Spivoek, Hobart Bldg., San Francisco.

Roofing—Alta Roofing Co., 976 Indiana St., San Francisco.

Other awards previously reported.
 WASHINGTON, D. C. — As previously reported, Floral Supply Co., Seaboard Branch First National Bank Bldg., Seattle, Washington, at \$49,097 submitted low bid to Treasury Department for landscaping in connection with the Federal Building at Seattle, Washington. Following is a complete list of bids. All bidders of Seattle:

Floral Supply Co.....	\$49,097
West Coast Constr. Co.....	51,650
Henrickson-Alstrom Constr. Co.....	54,500
Johnson Bros., Inc.....	54,977
Western Constr. Co.....	60,790
Hedecon Constr. Co.....	61,805
Warrack Constr. Co.....	63,600
Pedar P. Gjarde.....	69,278

Bids held under advisement.

WASHINGTON, D. C.—Until May 3, bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., for building at the Navy Yard, Pearl Harbor, T. H. Work involves: Concrete construction hollow tile, steel and iron work, built-up roof and sheet metal, steel windows, pressed steel steel rolling and metal covered doors; plastering; slate and tile work; two-ton crane; freight elevator; wet pipe sprinkler system; plumbing and electrical systems. Spec. No. 7074.

Sub-Contracts Awarded.
 OFFICERS' QUARTERS
 Contract Price, \$114,574
 SAN RAFAEL, Marin Co., Cal. Hamilton Field.
 Twelve sets of officers' quarters (two story and basement hollow tile, and stucco structures; tile roof, cast stone, steel casement windows, gas fired hot water heating system, linoleum, plumbing, electrical work, etc.)
 Owner—United States Government.
 Plans by Constructing Quartermaster.
 Contractor—Meyer Bros., 727 Portola Drive, San Francisco.
 Excavation—R. A. Farish, 14 Pinehurst Way, San Francisco.
 Concrete — Napa Basalt Rock Co., Napa.
 Brick and Building Tile—Drake & Collins, 666 Mission St., San Francisco.

Framing Lumber & Mill Work—Hayman Bldg. Supply Co., 727 Portola Drive, San Francisco.

Roofing—C. L. Frost, Monterey.
 Miscellaneous Iron — Folsom Street Iron Works, 17th and Missouri Sts., San Francisco.

Sheet Metal—Richmond Sheet Metal Works, Richmond.

Plastering—Chirs Berg, 580 Market St., San Francisco.

Glass — Habenticht & Howlett, 529 Clay St., San Francisco.

As previously reported, reinforcing steel awarded to Truscon Steel Co., Call Bldg.; steel sash to Detroit Steel Products Co., 111 Sutter St.; tile to Art Tile & Mantel Co., 221 Oak St.

WASHINGTON, D. C. — As previously reported, Gunner Johnson, 2521 33rd St., San Diego at \$46,450 submitted low bid to Treasury Dept., Washington, D. C. for the construction of a masonry inspection station to be erected in Tecate San Diego. Following is a complete list of the bids received

- | | |
|--|----------|
| Gunner Johnson, San Diego..... | \$46,450 |
| John A. Hunt, San Diego..... | 48,675 |
| North Moller Co. Jackson, Mich..... | 48,989 |
| Robert E. McKee Los Angeles..... | 49,785 |
| Anton Johnson Co., So Pasadena..... | 49,780 |
| Ramey Bros., El Paso, Texas..... | 49,800 |
| Associated Constructors, Inc. Los Angeles..... | 49,882 |
| John Strona, Pomona..... | 49,993 |
| Norman F. Barber, Los Angeles..... | 50,253 |
| Campbell Constr. Co. L. A..... | 51,848 |
| W. E. Kier Constr. Co., San Diego..... | 53,970 |
| Willard Lutz, Los Angeles..... | 55,000 |
| Andy Sordal, Long Beach..... | 55,000 |
| E. O. Larsen San Diego..... | 56,000 |
| Floyd Shofner, Los Angeles..... | 58,000 |
| J. E. Burrell, Long Beach..... | 60,755 |
- Bids held under advisement.

WASHINGTON, D. C. — As previously reported, Henrickson-Alstrom Constr. Co., Textile Tower Building, Seattle, Washington submitted low bid at \$12,550 to Treasury Department for fencing, etc., in connection with the Federal Building in Seattle, Washington. Following is complete list of bids:

Henrickson-Alstrom Constr. Co., Seattle.....	\$12,550
Warrack Constr. Co., Seattle.....	14,200
Hedecon Constr. Co., Seattle.....	14,496
West Coast Constr. Co. Seattle.....	14,759
H. S. Stiffenson, Seattle.....	14,776
Western Constr. Co., Seattle.....	14,990
Neil McDonald Seattle.....	16,244
W. T. Butler, Seattle.....	16,295
Pedar P. Gjarde, Seattle.....	16,396
MacRae Bros., Seattle.....	16,699
Reliance Iron & Wire Works Seattle.....	17,245
Johnson Bros., Inc., Seattle.....	17,949
Strandberg & Co. Seattle.....	23,800

Bids held under advisement.

PORTLAND, Ore.—Parker Schram Co., Couch Bldg., Portland, at \$2100 submitted low bid to U. S. Engineer office, Portland, to repair dike at Henrici on the lower Columbia River, 95 ft. of which were damaged by a passing vessel. Complete bids follow:

Parker Schram Co.....	\$2100
Jacobsen Constr. Co.....	2102
Portland Dredging Co.....	2252
Gilpin Constr. Co.....	2270
A. Burcham, St. Helens.....	2278

DENVER, Colo.—Until March 30, 2 P. M., under Spec. No. 589-D bids will be received by U. S. Bureau of Reclamation, Denver, Colo., to furnish:

- (1) 8 57-in. butterfly valves complete;
- (2) c. i. pipe fittings, manholes and trash bar spacers, complete;
- (3) 8 24-in. internal differential control valves, complete.

Specifications obtainable from above office. Bids may be submitted on separate items or on combinations of items.

WASHINGTON, D. C. — Following have procured plans for the purpose of submitting bids to the Treasury Department, Washington, D. C., on March 22, for furnishing and install-

ing special interior lighting fixtures in the U. S. Post Office and Court House in San Francisco:

Hilam Co., 730 N. Jackson St., Milwaukee, Wis.
 Metalcrafts, 712 Reading Road, Cincinnati Ohio.
 F. K. Enzor Co., 288 N. 4th St., Columbus, Ohio.
 J. Schoenvack Electric Co., 834 Sutter Ave., Brooklyn, N. Y.
 Blumenthal Kahn Co., 518 N. Charles St., Baltimore, Md.
 H. A. Framburg & Co., 3320 Carroll Ave., Chicago.
 Moe-Bridges Co., 236 Broadway, Milwaukee.
 Chas. Kimmick, Frink Corp., Long Island City, New York.
 Conrad-Schmidt Studios, 11 W. 42nd St., New York City.
 Maler Electric Co., 213 E. Hennepin Ave., Minneapolis.
 H. E. McArthur Co., Inc., 141 N. La Brea Ave., Los Angeles.
 Solar Lighting Fixture Co., 444 N. Western Ave., Los Angeles.
 Interstate Bronze & Mfg. Co., P. O. Box 565, Culver City.
 Curtiss Lighting, Inc., 1123 W. Jackson Blvd., Chicago.
 Price Bros., 2644 N. Maplewood St., Chicago.
 Klem Reflector Co., 132 N. Fifth St., Philadelphia, Pa.
 Industrial Arts Corp., 1026 N. Water St., Milwaukee, Wis.
 Erickson Electric Co., 6 Power St., South Boston, Mass.
 Roman Art Co., Inc., 2700 Locust Blvd., St. Louis, Mo.
 Geo. W. Kelham 315 Montgomery St., San Francisco.
 Willy H. Lau Studio, 1514 N. Wells St., Chicago.
 Hasenstab Bros., 268 Elm St., Buffalo, New York.
 Hatzel & Buchler, Inc., 420 Lexington Ave., New York City.
 Zenith Electric Constr. Co., Inc., 207 E. 149th St., Bronx, New York.
 Michigan Chandelier Co., 3130 Chene St., Detroit, Mich.
 Cassidy Co., Inc., 101 Park Ave., New York City.
 Lightoller Co., 569 Broadway, New York City.
 Frankford Lighting Fixture Mfgs., 4273 Frankford Ave., Philadelphia, Pa.
 F. W. Wakefield Brass Co., Vermonton, Ohio.
 Majestic Steel Spinning & Stamping Co., 61 Navy St., Brooklyn, N. Y.
 Benson Brass & Elec. Co., 3001 E. 18th St., Kansas City Mo.
 Edwin F. Guth Co., Jefferson and Washington Aves., St. Louis, Mo.
 Ferro Art Lighting Fixture Co., 12 Vestry St., New York City.
 Illuminating Mfg. Co., 17 Clinton St., Chicago.
 Graybar Elec. Co., 420 Lexington Ave., New York City.
 Walter G. Warren, 363 E. Ohio St., Chicago.
 Cox, Nostrand & Gunnison, 339 Alams St., Brooklyn, N. Y.
 Simes Co., 22 W. 5th St., New York City.
 Kayline Co., 600 Huron Ave., Cleveland, Ohio.
 Ivanhoe Div. of Miller Co., Meriden, Conn.
 Gill Glass & Fixture Co., 122 W. Baltimore St., Baltimore, Md.
 Shapiro & Aronson Co., 20 Warren St., New York City.
 Michaels Art Bronze Co., 233 Court Ave., Covington, Ky.
 Northside Pattern & Foundry Co., 3616 Colerain Ave., Cincinnati, Ohio.
 General Bronze Corp., 27th St. and 27th Ave., Minneapolis.
 Bailey-Reynolds Chandelier Co., 1529 McGee St., Kansas City, Mo.
 Butler & Kohans, Inc., 2823 Olive St., St. Louis, Mo.

WASHINGTON, D. C. — Western Venetian Blind Co., 2700 Long Beach

Ave., Los Angeles, at \$4421.04 submitted low bid to Treasury Dept., Washington, D. C., for venetian blinds in connection with the Federal building in Seattle, Washington. Following is a complete list of bids:

Western Venetian Blind Co., Los Angeles, \$4421.04.
 J. G. Wilson Corp., Norfolk, Va., \$4989.
 Seattle Tent & Awning Co., \$5,172.40.
 Burlington Venetian Blind Co., Burlington, \$5310; alternate, \$5114.
 Bostwick-Goodwill Co., Norwalk, O., \$5370.
 Monarch Johnson Co. Minn., \$5494.
 Yardley Screen & Weatherstrip Co., Columbus, Ohio, \$5670.64.
 Schatz Venetian & Blind Co., Los Angeles, \$5797.84.
 Seattle Window Shade Co., Seattle, \$6189.65.
 Frederick & Nelson, Seattle \$5202.
 Kane Mfg. Co., Kane, Pa., \$6300.
 Pacific Shade & Drapery Co. \$6590.26
 Watson Mfg. Co., Jamestown, N. Y., \$6669.
 Higgins Mfg. Co., Newport, Ky., \$8,300.
 Venetian Blind Service Co., Inglewood \$8414.77.
 Acme Screen Co. Fort Worth Texas, \$8811.53.
 Hough Shade Corp., Washington, D. C., \$8983.
 Raymond Porch Shade Co., Janesville, Wis., \$12,200.
 Bids held under advisement.

8—CLUB BUILDINGS

March 11, 1933

Bids Rejected.
 CLUBHOUSE Cost, \$2000
 SAN MATEO, San Mateo Co., Calif.
 Foot of Peninsular Avenue.
 One-story frame and stucco clubhouse 40x30 ft.) Spanish type, tile roof, metal sash, electric heating, (will house administrative offices, rest rooms and small cafe).
 Owner—City of San Mateo.
 Architect—Thomas M. Edwards, 550 Montgomery St., San Francisco.
 On bid opening lowest bid was submitted by Moore & Roberts, 461 Market St., San Francisco, at \$2495.
 Whether new bids will be asked or not is not determined at this time.

Contract Awarded.

CLUBHOUSE Cost, \$—
 LAS VEGAS, Nevada. S Fifth St.
 Wood frame clubhouse.
 Owner—Mesquite Club (Mrs. C. P. Squires, president).
 Architect—Not Given.
 Contractor—Hampton Bros., Las Vegas.

9—HOSPITALS

Planned.

HOSPITAL Cost, \$30,000
 SANTA ROSA, Sonoma Co., Calif.
 Alterations to two-story building for hospital (40 rooms).
 Owner—Western States Life Insurance Co., (Milton Wasserman, 506 5th St., Santa Rosa, Agent).
 Architect—Not Given.
 More definite information will be given shortly.

SAN FRANCISCO—Until March 27, 11 A. M., bids will be received by the Regents of the University of California, for the construction of a Deep Therapy Pavilion at the University Hospital, Third and Parnassus Aves., San Francisco. Plans and specifications available from Cashier's Window California Hall, University of California, Berkeley, upon deposit of \$10.

SAN FRANCISCO—Alfred H. Vogt, 250 11th St., at \$1940 awarded contract by Regents of the University of California for porch and balcony alterations to No. 2 Ward Floor at the University of California Hospital, Third and Parnassus Aves., San Francisco.

Plans Being Figured—Bids Close Mar. 29.

HOSPITAL Cost, \$—
 VANCOUVER, B. C. 59th and 60th Aves., bet. Columbia and Manitoba Streets.

Three-story reinforced concrete fire-proof crippled children's hospital; gypsum tile and terra cotta interior partitions, tar and gravel roof (103x42 ft.); low pressure steam heating system, swimming pool, laundry, etc.

Owner—Crippled Children's Hospital. Architect—Wm. Frederick Gardiner, 1301 Vancouver Block, Vancouver, B. C.

Bids are being taken from a selected list of contractors.

10—HOTELS

Plans Being Prepared.

ALTERATIONS Cost, \$2000
 VALLEJO, Solano Co., Cal. Sonoma and Capitol Streets.

Remodel swimming pool in hotel for supper club (dance floor, gallery, etc.)

Owner—Casa de Vallejo Hotel, Prem. Architect—F. H. Slocombe, 131 Monte Cresta Ave., Oakland.

Bids will be asked in about one week.

11—ICE AND COLD STORAGE PLANTS

NILAND, Imperial Co., Cal.—Carbondale Machinery Co., 1031 S Broadway, Los Angeles, awarded contract for furnishing and installing dry ice manufacturing equipment in a plant near Niland for the Salton Sea Chemical Co., Carl M. Einhart, president. Equipment will consist of compressors and hydraulic presses. The plant will have a capacity of from three to four tons of ice each 24 hours.

12—POWER PLANTS

LOS ANGELES, Cal.—Consolidated Steel Corp., 5701 E Slauson Avenue, awarded contract by County Supervisors March 7, at \$26,900 for furnishing and installing two Foster-Wheeler 500-hp. water tube boilers in the new power plant at the Los Angeles General Hospital, 1100 Mission Road. Wm. Davidson, chief mechanical engineer, 10th floor, Hall of Records, prepared the plans. The bids were opened Feb. 20. The work embraced in the specifications includes excavation, reinforced concrete foundations, boilers complete with masonry settings, covering of breeching within power house painting of exposed equipment after completing, and testing of equipment. The new boiler room will be 37 ft. 10 in. by 42 ft. 10½ in. with a length of 30 ft.

MONTEBELLO, Los Angeles Co., Cal.—Until 5 P. M., March 27 (bids to be opened at 7:30 P. M. on that date) bids will be received by the Montebello city council for the construction of a municipal light plant, including a building to house motors, at Greenwood Ave. and the Union Pacific tracks in Montebello. The building will be a one-story, brick structure. Bidder's bond for 10 per cent must accompany each bid. Plans will be available at the office of J. P. Walker, city clerk, on and after March 13.

Plans Completed.
SUB-STATION Cost, \$75,000
LOS ANGELES, Los Angeles Co., Cal.
Palms District.

Brick and concrete power substation (130x50 feet); steel roof trusses, steel columns, concrete roof and floors, ruff brick facing, art stone trim, steel sash, hollow metal doors etc.

Owner—Los Angeles Bureau of Power & Light.
Architect—F. L. Roehrig, 35 S. Raymond Ave., Pasadena.

D. P. Nicklin, purchasing agent of the bureau will advertise for bids soon for fabricating and erecting the steel.

LOS ANGELES, Calif.—Water and Power Commission has authorized the expenditure of \$524,370 for improvements and betterments to the city power system.

**13—PUBLIC BUILDINGS
FIRE HOUSES & JAILS**

Plans Being Completed.
FIRE HOUSE Cost, \$12,500
SACRAMENTO, Sacramento Co., Cal.
Sacramento Blvd. and Sixth Ave.
One-story frame and stucco firehouse (single community building).

Owner—City of Sacramento.
Architect—Starks & Flanders, Forum Bldg., Sacramento.

Bids will be asked shortly.

LAS VEGAS, Nevada—Until 2 P. M., April 6, bids will be received by the Clerk of the Board of County Commissioners of Clark County, Nev., Las Vegas, for cells and jail equipment for the accommodation of approximately thirty prisoners. Plans and specifications may be obtained from Wm. L. Scott, County Clerk, Las Vegas, upon deposit of \$5.

SANTA FE, N. M.—E. B. Swope, warden of the New Mexico state penitentiary, Santa Fe, has requested an appropriation for financing improvements at the institution. Major expenditures would include \$20,000 for materials to remodel cell houses; \$5,000 for additions to the dining hall; and \$5000 for raising the prison wall.

14—RESIDENCES

Contract Awarded.
ALTERATIONS Cost, \$5000
WOODSIDE, San Mateo Co., Cal.
Alterations and additions to residence (work involves painting, plumbing, heating, ventilating, etc.)

Owner—J. L. Deahl.
Architect—Bliss & Fairweather, Balboa Bldg., San Francisco.

Contractor—H. S. Meinberger, 343 Fourth St., San Francisco.

Contract Awarded.
RESIDENCE Cost, \$—
SANTA BARBARA, Santa Barbara Co., Cal. No. 702 Chiquita Road.
Two-story residence (10 rooms).

Owner—A. Prevedello, 1721 Boca del Canon, Santa Barbara.
Architect—Not Given.

Contractor—Alex d'Alfonso, P. O. Box 120, Santa Barbara.

Plans Being Figured—Bids Close March 20, 1 P. M.

RESIDENCE Cost, \$—
SAN RAFAEL, Marin Co., Cal.
One-story wood frame residence (shingle exterior); 8 rooms and 4 baths.

Owner—Mr. McCarthy.
Architect—Wm. I. Garren, 233 Post St., San Francisco.

Following contractors have procured plans:
DeLuca & Son, 320 Market St., San Francisco.
Young & Horstmeyer, 461 Market St., San Francisco.

G. P. W. Jensen, 320 Market St., San Francisco.

Preparing Working Drawings.
RESIDENCE Cost, \$9000
MIDMONT, Alameda Co., Cal.

Two-story and basement frame and brick residence (8 rooms and 2 baths); steam heat, oak floors, steel sash, tiled baths, etc.

Owner—Withheld.
Architect—E. L. Snyder, 2102 Addison St., Berkeley.

Contract Awarded.
RESIDENCE Cost, \$9500
SAN JOSE, Santa Clara Co., Calif.
Hillcrest Avenue.

One and one-half-story and basement frame and brick veneer residence (7 rooms and 2 baths); shingle roof, gas heating system, hardwood floors, tiled baths, etc.

Owner—Alvin Long.
Architect—William Higgins, 19 N. 2nd St., San Jose.

Contractor—Gibson & Wheeler, Bank of San Jose Bldg., San Jose.

Contract Awarded.
ADDITION Cost, \$—
BERKELEY, Alameda Co., Cal. No. 25 El Camino Real.
Addition to frame residence (add sun room, etc.)

Owner—Arthur Myer, Premises.
Plans by J. F. Altermatt.
Contractor—J. F. Altermatt, 961 Hilldale St., Berkeley.

Project Abandoned.
RESIDENCE Cost, \$—
REDWOOD CITY, San Mateo Co., Cal.
Two-story brick and steel residence (6 rooms and 2 baths, steel sash, electric refrigeration, tiled baths)

Owner—A. B. Cheatham.
Architect—J. K. Ballantine, 137 Harlan Place, San Francisco.
Low Bidder—D. B. Gladstone, 557 Market St., San Francisco.

Plans Completed.
RESIDENCE Cost, \$16,000
ALBUQUERQUE, New Mexico.
Two-story brick and hollow tile residence (stucco exterior, built-up roof, etc.)

Owner—J. S. Dodson.
Architect—Brittelle & Wilson, Kimo Bldg., Albuquerque, N. M.

Sub-Contracts Awarded.
RESIDENCE Cost \$—
OAKLAND, Alameda Co., Calif. 67 Agnes Street.

One-story and basement frame and stucco residence (5 rooms) English style; shingle roof, gas heating system, tile bath, hardwood floors, etc.

Owner—M. A. Nelson.
Architect—Not Given.
Contractor—McCabe and Nelson 3987 Rhoda Ave., Oakland.

Concrete—A. Casqueiro, 2851 75th Ave. Oakland.

Plumbing—P. H. Blake, 3400 Eden Lane, Oakland.

Plastering—Harry Mortensen, 145 W 12th St., Pittsburg.

Millwork—Melrose Lumber Co., 1201 46th Ave., Oakland.

Brick—Henry Koenig, 4714 Congress Ave., Oakland.

Lumber—Scammell Lbr. Co., foot of Ninth Ave., Oakland.

Electric Wiring—Allendale Electric, 4233 Masterson St., Oakland.

Sub-Contracts Awarded.
RESIDENCE Cost, \$6,000
BERKELEY, Alameda Co., Cal. 1006 Cragmont Avenue.

One-story and basement frame and stucco residence (5 rooms).

Owner—M. J. Church 1004 Cragmont Ave., Berkeley.
Architect—W. H. Ratcliff, Jr., Chamber of Commerce Bldg., Berkeley.
Contractor—H. G. Park and Son 1046

Peralta Ave., Berkeley.
Roofing—Guy Tyler, 1502 Cedar St., Oakland.

Electric—Electric Service Co., 1455 Dwight Way, Berkeley.

Sub-bids are being taken on hardwood flooring and interior tile work. Other awards reported Feb. 15, 1933.

Contract Awarded.
RESIDENCE Cost, \$6200
SAN MATEO, San Mateo Co., Cal.
Baywood Park.

Two-story and basement frame and stucco residence (10 rooms and 3 baths); tile roof, hot air heating system, oak floors, electric refrigeration, etc.

Owner—T. J. Duffy.
Architect—C. Hugh Klirk, Los Angeles Contractor—Henry Voelker, 805 Winchester Drive, Burlingame.

General contract does not include heating for which the owner is now taking bids.

Mr. Voelker will take sub-bids in one week.

Sub-Contracts Awarded.
RESIDENCE Cost, \$7500
BERKELEY, Alameda Co., Cal. Montrose St., bet. Spruce and Santa Barbara Sts.

Two-story residence (7 rooms and 2 baths) oiled brick and half-timber exterior, shake roof, colored tile baths, steel sash, oak plank floors, hot air heating system; English type.

Owner—Rev. Roger H. Peters.
Architect—E. L. Snyder 2101 Shattuck Ave., Berkeley.

Contractor—J. M. Walker, 1709 Grove St., Berkeley.

Brick—W. H. Wlsheropp, 3749 Quigley St., Berkeley.

Plumbing—Golden Gate Plumbing Shop, 5904 San Pablo Ave., Oakland.

Roofing—M. & S. Tile Co., Decoto.
Electric, sheet metal and plastering contracts will be awarded shortly. Other awards reported Feb. 1.

Plans Being Figured.
RESIDENCE Cost, \$—
PALO ALTO, Santa Clara Co., Cal.
Two-story frame and stucco residence (tile roof, gas hot air heating system, hardwood floors, steel sash etc.)

Owner—Mr. Ornsby.
Architect—Birge M. Clark, 310 University Ave., Palo Alto.

15—SCHOOLS

Additional Prospective Bidders.
ADDITION Cost, \$50,000
DALY CITY, San Mateo Co., Cal.
Class C concrete addition to high school (add six classrooms) wood joists, tile roof, wood and concrete floors, steam heating system, etc.

Owner—Jefferson Union High School District.

Architect—Resing & McGuinness, 488 Pine St., San Francisco.

Following are additional prospective bidders. Bids open March 20.

General Work
Leo Epp, 4745 Geary St., San Francisco.

A. H. Vogt, 250 11th St., San Francisco.

B. A. Howkins, 16th St. at Mission, San Francisco.

Hammer & Putney.
Electric
Butte Electric Equip. Co., 2014 Folsom St., San Francisco.

Alta Electric Co., 467 O'Farrell St., San Francisco.

Heating
Alta Electric Co., 467 O'Farrell St., San Francisco.

A. M. Harrison, Daly City.

SACRAMENTO, Cal.—Crown Fence Co., 144 Townsend St., San Francisco submitted low bid to the Sacramento Board of Education for complete erection of approximately 1700 lineal feet of 6-ft. high galvanized chain link fencing, including two 12-ft. double drive gates with necessary end, corner and gate posts and approximately four 4-ft. walk gates, at the new Stanford Junior High School, Sacramento.

(1) Fence complete, per lineal foot with top rail (2) gates (3) end posts (4) corner posts (5) gate posts (6) erection, per lineal foot.

Crown Fence Co., S. F.	(1)	\$.74
	(2)	4.10
	(3)	7.19
	(4)	10.33
	(5)	7.19
	(6)	.305
Thomson-Diggs Co., Sacto.	(1)	\$.795
	(2)	4.40
	(3)	7.71
	(4)	11.08
	(5)	7.71
	(6)	.3264
Standard Fence Co., S. F.	(1)	\$.81
	(2)	4.48
	(3)	7.86
	(4)	11.30
	(5)	7.86
	(6)	.3328
Kamlan Fence Co., S. F.	(1)	\$.84
	(2)	4.65
	(3)	8.16
	(4)	11.74
	(5)	8.16
	(6)	.345
Stewart Fence Company	(1)	\$.969
	(2)	4.27
	(3)	9.12
	(4)	12.35
	(5)	9.12
	(6)	.30

Bids held under advisement.

Contract Awarded.

BLEACHERS, ETC. Cost, \$—
OAKLAND, Alameda Co., Cal. Mills College.

Wood frame bleachers (to seat 1500) general lighting system.

Owner—Mills College, Seminary and Camden Sts., Oakland.

Architect—W. H. Ratcliff Jr., Chamber of Commerce Bldg., Berkeley.
Contractor—Worden & Forsythe, 264 Sybil Ave., San Leandro.

Bld Opening Postponed Until March 21.

ADDITION Cost Complete, \$375,000
LOS ANGELES, Los Angeles Co., Cal. University of California Campus.
Three-story steel frame and brick wing addition for chemistry bldg.
Owner—Regents of the University of California.

Architect—George Kelham, 315 Montgomery St., San Francisco.

Structural Engineer—H. J. Brunner, Sharon Bldg., San Francisco.

Mechanical Engineer—Hunter & Hudson, 41 Sutter St., San Francisco.

SAN FRANCISCO—Anchor Post Fence Co., 460 5th St., at \$330 awarded contract by Department of Public Works for fencing at the McKinley School.

March 14, 1933

VALLEJO, Solano Co., Cal.—Until March 28, 4 P. M., bids will be received by Elmer L. Cave Secretary, Vallejo High School District, for furnishing art and stationery supplies, physical education supplies, sanitary and janitors' supplies, wood and coal during the school year, 1933-34. Certified check, 5% required with bid.

March 15, 1933

To Ask Bids March 18—To Close April 26.

SCHOOL Cost, \$135,000
FAIRBANKS, Alaska.
Three-story reinforced concrete school (75x150 ft.) kindergarten rooms.

manual training department, classrooms, gymnasium and auditorium
Owner—Fairbanks School District.

Architect—Tourtellotte & Hummel, Postal Bldg., Portland.
(712) 1st report Feb. 17, 1933. 15

SAN FRANCISCO—Until March 29, 2:30 P. M. bids will be received by S. J. Hester, Secretary, Department of Public Works, City Hall, for steam cleaning brick and terra cotta and repainting exterior wood work of the Girls' High School. Estimated cost, \$3000.

16—BANKS, STORES AND OFFICES

Contract Awarded.

ALTERATIONS Cost, \$1500
SAN FRANCISCO. E Army St. 80 W Potrero Avenue.

Alterations to store.

Owner—L. S. White, 2250 Nort Point St., San Francisco.

Architect—Not Given.

Contractor—R. C. Stahl, Colma.

Contract Awarded.

ADDITION Cost, \$—
SAN FRANCISCO. Bush and Larkin Streets.

Foundation and erection of structural steel for two-story and basement addition to telephone building for an ultimate 5-story and basement addition.

Owner—Pacific Telephone & Telegraph Co., 140 New Montgomery St.

Plans by Engr. Dept. of Owner (E. V. Cobby, Engineer).

Contractor—MacDonald & Kahn. Financial Center Bldg., San Francisco, at \$7000.

Bids for the general construction work will be asked in about thirty days.

As previously reported, furnishing structural steel and iron awarded to Judson-Pacific Co., 609 Mission St., at \$15,075.

Plans Completed.

ALTERATIONS Cost, \$—
BERKELEY, Alameda Co., Cal. No. 1818 Harmon Street.

Alterations to building for creamery (refrigeration, etc.)

Owner—Pacific States Savings & Loan Co., 1317 Broadway, Oakland.

Plans by Owner.

Lessee—Ernie's Creamery (New Corporation).

Agent—Mr. Hillback (Templehar \$688)

Revising Plans.

STORE Cost, \$—
WATSONVILLE, Santa Cruz Co., Cal. On-story reinforced concrete store (35x90 feet) parking facilities, etc.
Owner—A. P. Beck and W. H. Weeks.
Architect—W. H. Weeks, 525 Market St., San Francisco.

A slight revision is being made in the structural plans to reduce the cost. Whether new bids will be asked or not is not determined at this time. On bid opening lowest bid was submitted by the Bay City Iron Works, at \$8522.

March 16, 1933

Carpentry Contract Awarded.
RESTAURANT Cost, \$3500
SAN RAFAEL, Marin Co., Cal. One-story wood frame restaurant, shingle roof.

Owner—Marin Fish Grotto.

Architect—N. W. Sexton, deYoung Bldg., San Francisco.

Carpentry—Person & Olsen, 717 Lincoln Ave., San Rafael.

As previously reported, lumber and mill work awarded to San Rafael Mill & Lumber Co., San Rafael.

Work is being done on a segregated bid basis.

Sub-Contracts Awarded.

LIELARY Cost, \$—
OAKLAND, Alameda Co., Cal. Park Boulevard.

One-story brick branch library (30x80 ft.) tile and composition roof, stucco interior, linoleum floors, gas heating system, Oregon pine trim, steel sash, etc.

Owner—R. E. Coggeshall.

Architect—Ray Keefer, 770 Wesley Ave., Oakland.

Contractor—Bryan Milton, 589 Haddon Road, Oakland.

Plumbing—J. A. Fazio, 402 Castro St., Oakland.

Labor—M. P. Rose, 6329 Shattuck Ave. Oakland.

Brick Work—Herschel & Reinecke, 820 E 11th St., Oakland.

Concrete—L. M. Rasmussen, 1442 102d Ave., Oakland.

Electric—Morgan Electric Co., 1102 E 14th St., Oakland.

Sub-Contracts Awarded.

STORES AND OFFICES Cost, \$—
OAKLAND, Alameda Co., Calif. SW 22nd and Broadway.

Two-story steel frame and concrete offices and stores (46x100) seven stores.

Owner—J. A. Clark.

Architect—Reed and Coriett, Bank of America Bldg., Oakland.

Contractor—F. A. Muller, Syndicate Bldg., Oakland.

Structural Steel—McClintic Marshall Corp., 2050 Bryant St., San Francisco.

Reinforcing Steel—Soule Steel Co., 1750 Army St., San Francisco.

Tile—Rigney Tile Co., 3012 Harrison St., Oakland.

Concrete—J. H. Fitzmaurice 2857 Hannah St., Oakland.

As previously reported, excavation awarded to J. Catucci, 1212 18th Ave., Oakland.

Sub-Contracts Awarded.

STORE Cost, Price, \$6381
OAKLAND, Alameda Co., Cal. No. 3246 Lakeshore Avenue.

One-story brick store (50x75 feet).

Owner—D. H. Murnik.

Architect—Miller & Warnecke, Financial Center Bldg., Oakland.

Contractor—John J. Moore Co., 354 Hobart St., Oakland.

Sheet Metal—McHenry Sheet Metal Works, 1183 53rd St., Oakland.

Hardwood Floors—Martin Friedman, 4044 La Cresta Avenue, Oakland.

Other awards reported March 11.

Prospective Bidders.

STORE Cost, \$100,000
PHOENIX, Arizona.

Two-story brick and concrete store (brick and terra cotta facing. Composition roofing, structural steel, cement, hardwood & terrazzo floors, plate glass, metal fire doors, ornamental iron, gas heating, etc.)

Owner—S. H. Kress Co. 114 Fifth Ave., New York City.

Plans by Eng. Dept. of Owner.

McGinty Conser. Co., Luhrs Bldg., Phoenix, and Del E. Webb, 1633 W. Jefferson St., Phoenix, will submit bids to the owners on March 31.

Contract Awarded.

ALTERATIONS Cost, \$1500
SAN FRANCISCO. NE Sansome and Sacramento Streets.

Alterations to interior of bank.

Owner—Federal Reserve Bank, Sansome and Sacramento Sts.

Architect—Not Given.

Contractor—P. J. Walker Co., Sharon Bldg., San Francisco.

Sub-Contracts Awarded.

STORE Cost, \$5352
OAKLAND, Alameda Co., Cal. No. 528 Seventh Street.

One-story brick store.

Owner—Emil Arndt, 320 5th St., Oakland.
 Architect—Not Given.
 Contractor — H. J. Christensen, Ray Bldg., Oakland.
Mill Work—Oakland Planing Mill, 2nd and Washington Sts., Oakland.
 Concrete — J. H. Fitzmaurice, 2857 Hannah St., Oakland.
 As previously reported, plumbing awarded to Max Saylor, Oakland; lumber to Sunset Lumber Co., 400 High St., Oakland.

March 10, 1933

To Be Done By Day's Work.
ALTERATIONS Cost, \$3000
SAN FRANCISCO, 31 Broadway.
 Alter garage for restaurant.
 Owner—M. Caldarella, 58 Embarcadero
 Architect—Not Given.
 Lessee—Joe Morello, 670 Broadway.

Contract Awarded.
STORE ADDITION Cost, \$30,000
GLENDALE, Los Angeles Co., Cal.
 Brand Boulevard.
 Alterations and additions to store (one-story addition, elevator, gas radiators, steel sash, electric, plumbing and decorating, etc.); brick walls, steel frame interior, composition roofing, etc.

Owner—Montgomery, Ward & Co.
 Plans by E. B. Meinardus, 6417 Lindenhurst St., Los Angeles.
 Contractor—Calhoun & Hastings, 1150 N. Las Palmas Ave., Los Angeles.

Work Started.
ALTERATIONS Cost, \$—
BERKELEY, Alameda Co., Cal. No. 1805 San Pablo Avenue.
 Alterations to one-story Class C store.

Owner—Loy Block.
 Architect—Not Given.
 Contractor—H. C. Kidder, 3133 Eton St., Berkeley.

Contract Awarded.
ADDITION Cost, \$—
LOS ANGELES, Los Angeles Co., Cal. No. 6740 Hollywood Blvd.
 Two-story and basement Class C brick addition to store (24x46 ft.); composition roof, wood roof trusses, fire escape, steel sash, structural steel, gas steam radiators etc.
 Owner—Jesse Ray Miller, 2814 Ellendale Place, Los Angeles.
 Architect—Vernon W. Houghton, 5800 S. Boyle Ave., Los Angeles.
 Contractor — Pacific System Homes, Inc., 5800 S. Boyle Ave., Los Angeles.

Construction Postponed.
MARKET Cost \$4500
EL CERRITO, Contra Costa Co., Cal. San Pablo Ave. at County Line.
 One-story market (90x140 feet) concrete foundations, brick walls, corrugated iron roof, asphalt floors, etc.
 Owner—Yee Shew Lung.
 Plans by L. F. Hyde, 705 25th St., Oakland.
 Mgr. of Constr. — A. A. McDonald, Premises.

When work will be resumed is not determined at this time.

Sub-Contracts Awarded.
REBUILD MARKET Cost, \$—
OAKLAND, Alameda Co., Cal. Broadway, between 19th and 20th Sts.
 Rebuild market (two-story Class C concrete construction).
 Owner — Twentieth and Broadway Realty Co., (% Mr. Montgomery, Crystal Palace Market).
 Architect—Albert Evers, 525 Market St., San Francisco.
 Contractor—Wilbur Cone, 1744 Broadway, Oakland.
Plumbing—Carl T. Doell, 467 21st St., Oakland.
Sheet Metal—East Bay Sheet Metal

Works, 1101 Market St., Oakland.
Heating and Ventilating—Max Finzel, 2025 Hopkins St., Oakland.
Roofing — General Roofing Co., 3985 Beach St., Oakland.
 As previously reported, structural steel awarded to Moore Dry Dock Co., Foot of Adcline St., Oakland.

Sub-Contracts Awarded.
STORE Cost, \$6381
OAKLAND, Alameda Co., Cal. No. 3246 Lakeshore Avenue.
 One-story brick store (50x75 feet).
 Owner—D. H. Murnik.
 Architect—Miller & Warnecke, Financial Center Bldg., Oakland.
 Contractor—John J. Moore Co., 354 Hobart St., Oakland.
Brick Work—Hallert & Kneale, 2500 65 Ave., Oakland.

Plumbing—J. R. Pierce Plumbing Co., 7109 E-14th St., Oakland.
Plastering—Sam Muriele, 354 Hobart St., Oakland.
Lumber and Mill Work—T. P. Hogan Co., Second and Alice Sts., Oakland.

Concrete—Norman McLeod, 1163 Wellington St., Oakland.
Electric—C. W. Gates, 1628 85th Ave., Oakland.
Glass—East Bay Glass Co., 621 6th St., Oakland.
Steel Sash — Michel & Pfeffer Iron Works, Harrison and Tenth Sts., San Francisco.
Roofing — General Roofing Co., 3985 Beach St., Oakland.

March 11, 1933

Plaster Contract Awarded.
MARKET Cost, \$10,000
RICHMOND, Contra Costa Co., Cal. SE 23rd St. and Macdonald Ave.
 One-story Class C reinforced concrete market (tar and gravel roof steel sash, etc).
 Owner—Henslee Corp., (% Bells-Gilberg, Ltd.), 366 17th St., Oakland.
 Architect—H. A. Minton 525 Market St., San Francisco.
 Contractor—David Paganini, 519 California St., San Francisco.
Plastering—Vincent Patta, 5558 Claremont Ave., Oakland.
 Other awards previously reported.

Brick Contract Awarded.
STORE Cost, \$22,000
OAKLAND, Alameda Co., Cal. Broadway N 19th Street.
 One-story and basement and mezzanine reinforced concrete store (30 by 100 feet).
 Owner—Twentieth & Broadway Realty Co. 1175 Market St., San Francisco.
 Architect — Albert Evers, 525 Market St., San Francisco.
 Contractor — Lindgren & Swinerton, Inc., 225 Bush St., San Francisco.
 Lessee—Kushins Shoe Company.
Common Brick—Remillard Brick Co., 960 7th St., San Francisco.

17—THEATRES

March 10, 1933

Reinforcing Steel Contract Awarded.
THEATRE Cost, \$20,000
SONOMA, Sonoma Co., Cal. First St. East.
 One-story steel and concrete theatre to seat 500; (885x168 feet); large room above and stores below.
 Owner—Sam Sebastiana, Sonoma.
 Architect—Reid Bros., 105 Montgomery St., San Francisco.
Reinforcing Steel—Concrete Engineering Co., 1280 Indiana St., San Francisco.
 As previously reported, structural steel awarded to Iron Works, 18th and Campbell Sts., Oakland.

19—MISC. CONSTRUCTION

To Ask Bids Shortly.
BASEBALL PARK Cost, \$75,000
SEATTLE, Washington Rainier Valley.
 Baseball Park (building, 80x88 ft.) wood construction, steel columns, concrete footings, plastered offices, halls, locker and drying rooms, grandstand to seat 15,000.
 Owner—Seattle Baseball Park Assn. (Fred Rivers, Secretary, Butler Hotel, Seattle).
 Plans by Edward Garrick, 3080 Anderson St., Seattle.
 Bids will be taken from a selected list of contractors shortly.

LOS ANGELES, Cal.—Until 12 M., March 14, bids will be received by H. E. Russell, County Purchasing Agent, 524 N. Spring St., for furnishing and erecting fence at Padua Hills Patrol Station north of Claremont on Mt. Baldy Road. Specifications call for Wickwire-Spencer No. 400 heavy construction or equal, and as follows: 332 feet of fence 60 inches high, fabric and framework to be new full weight copper-bearing steel, containing not less than 20% copper; line post, 2.25 in. by 1.95 in., H-beam posts weight 4.03 lbs. per foot, spaced about 10 ft.; gate or corner end posts, 3-in. O. D. pipe, weight 5.79 lbs. per foot; No. 7 reinforced coiled spring wire. Spec. No. 5399.

SAN FRANCISCO—Until March 27, 8 P. M., bids will be received by Board of Fire Commissioners, Room 2, City Hall, for furnishing necessary material labor, tools and other equipment for the rebuilding of the front baffle walls in Boilers No. 1 and No. 2 of Pumping Station No. 2 of the Auxiliary Water Supply System at Fort Mason. Certified check in amount of 10% required with bid made payable to City and County of San Francisco.

Reinforcing Steel Contract Awarded.
TUNNEL Cost, \$4204
SAN FRANCISCO, Jessie Street.
 Concrete tunnel under Jessie St. connecting the Emporium building basement and Hulse-Bradford Building basement.
 Owner—The Emporium, 835 Market St., San Francisco.
 Engineer—C. H. Snyder, 251 Kearny St., San Francisco.
 Contractor — Theo. Cohn, Russ Bldg., San Francisco.
Reinforcing Steel—W. S. Wetenhall, 17th and Wisconsin Sts.

20—MISC. SUPPLIES AND MATERIALS

LOS ANGELES, Cal.—J. H. Baxter & Co., Edison Bldg., awarded contract by A. J. Holm, City Purchasing Agent, March 9, at \$32,000 (estimated total) for furnishing in such quantities and lengths as may be ordered during a period of 12 months, beginning with date of contract, approximately 98,885 lin. ft. of untreated fir poles in exchange for approximately 99,885 lin. ft. of untreated fir piling. Spec. No. 3011. The bids were opened March 1.

SEATTLE, Wash.—Until March 22, 10 A. M., bids will be received by W. A. Gaines, City Purchasing Agent, 511 County-City Bldg., Seattle, to furnish gasoline, Diesel fuel oil and kerosene for all city departments and fuel oil for all city departments other than the steam plant and fireboats. Includes locomotive at Rockport and Firlands. Specifications are obtainable from above office.

ENGINEERING NEWS

21—BRIDGES

LOS ANGELES, Cal.—Until 2 P. M., March 20, bids will be received by County Supervisors for furnishing approximately 196,550 lbs. reinforcing steel for use in connection with the construction of the 2nd St. Bridge over the San Gabriel River. The quantities are segregated as follows: (1) 110,000 lbs. 1½-in. square deformed (2) 52,000 lbs. 1-in., round deformed (3) 17,200 lbs. ¾-in., round deformed (4) 5,500 lbs. ½-in. round deformed; (5) 2,350 lbs. ½-in., square deformed (6) 20,000 lbs. ½-in. round deformed (7) 7,400 lbs. ¾-in. round deformed; (8) 100 lbs. ¼-in., round deformed (9) 19,000 lbs. No. 5 gauge steel wire. All steel to be delivered f.o.b. site of work, cut and bent as shown on drawings. All bids opened Jan. 3 were rejected March 7.

E. C. Eaton, 202 N. Broadway, County Flood Control Engineer. Mame B. Beatty, 501 Hall of Records, Clerk of the Board.

LOS ANGELES, Cal.—Until 2 P. M., March 27, new bids will be received by county supervisors for constructing a reinforced concrete culvert on Citrus Ave. over Little Dalton Wash, in the County of Los Angeles. The culvert will have an inside width of 13 ft., a height of 11 ft. 6 in. with 20-in. foundations, and 27.15 ft. in length. Geo. W. Jones, County Road Commissioner. Mame B. Beatty, 501 Hall of Records, Clerk of the Board.

LAKE COUNTY, Cal.—Thos. Doyle, 1527 17th Ave., San Francisco (Mont. 5029) desires sub-bids on all portions of the work in connection with the construction of the reinforced concrete slab bridge, across Morrison Creek in Lake County for the State of California for which bids will be opened March 16.

March 10, 1933

BIDS REJECTED

LOS ANGELES, Cal.—All bids for furnishing miscellaneous copper work f.o.b. site of work for use in the construction of a concrete bridge across the San Gabriel River at 2nd St. in Long Beach, opened January 3, rejected by County Supervisors March 7 and the engineer authorized to purchase same in the open market.

LAKE COUNTY, Cal.—Until April 4, 2 P. M., bids will be received by C. H. Sweetser, District Engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco, to construct Bartlett Creek Bridge on Section B of Route 8, Upper Lake-Bartlett National Forest Highway, involving: (1) 65 cu. yds. of ETAOI HRDLT (2) 65 cu. yds. unclass. excav. struc. (3) 9 M ft. b.m. untreated timber. (4) 29 cu. yds. concrete. (5) 950 lbs. reinf. steel. (6) 24,000 lbs. struc. steel. (7) 80 sq. yds. bit. wearing surf. (8) remove & dispose of exist. bridge. Specifications obtainable from the above office on deposit of \$10, check certified and payable to Regional Fiscal Agent, U. S. Forest Service.

MODESTO, Stanislaus Co., Cal.—Until March 27, 11 A. M., bids will be received by C. C. Eastin County Clerk, to construct bridge over Beard Brook on the 19th St. Extension. Specifications obtainable from above office. Certified check 10% required

with bid. Geo. D. Macomber, County Surveyor.

IRAHO STATE—Bids on three federal: Surfacing highway No. 91E, east of Boise in the Regina district; bridges near Kellogg on highway 73C; 50-ft. wooden bridge on highway 73C.

New bids will be called and contracts will be let under new law passed by State legislature which in general aid highway projects which were to have been opened March 14 were indefinitely postponed. Projects follow: increases the amount of bond and changes the licensing of contractors.

SANTA BARBARA COUNTY, Cal.—Until April 5, 2 P. M., bids will be received by State Highway Commission, Sacramento, to construct an overhead crossing over the tracks of the Southern Pacific Co. at Elwood consisting of one 68-ft. 6-in. deck plate girder span, four 30-ft. reinforced concrete girder spans and two 20-ft. reinforced concrete girder spans, involving: (1) 2600 cu. yds. struc. excav.; (2) 1010 cu. yds. class A Port. cem. concrete; (3) 140,000 lbs. bar reinf. steel; (4) 115,000 lbs. struc. steel; (5) 1060 lbs. cast steel; (6) 1030 lbs. bronze expansion plates; (7) 500 lin. ft. solid timber railing; (8) 1 lit misc. items of work.

SANDPOINT, Idaho.—All bids rejected by the county commissioners, Sandpoint, to construct concrete piers, steel superstructures and timber deck of the 102-ft. bascule span under Section 3, Sandpoint Bridge on the North and South Highway, Bonner County, Puget Const. Co., Seattle, low at \$26,-628. New bids will be called to be opened in June.

22—DREDGING, HARBOR WORKS, EXCAVATION

SACRAMENTO, Cal.—Until March 28, 3 P. M., under Circular Proposal No. 33-263, Spec. No. 5178, bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, to construct new levee and raise old levee along the northeasterly side of Haas Slough from near its junction with Cache Slough to its junction with Reclamation District No. 2968 canal, and on the easterly side of said canal to near the pumping plant, total length of levee 16,400 ft., involving 440,000 cu. yds. embankment in place in levee. Specifications obtainable from above office.

LOS ANGELES, Cal.—Harbor Commission has adopted a resolution

whereby the Reconstruction Finance Corporation will be asked for \$130,000 with which to finance the construction of the outer harbor naval landing and other harbor improvements.

30—RESERVOIRS & DAMS

SAN DIEGO, Cal.—H. N. Savage, city hydraulic engineer, has been authorized by city council to prepare plans for repairs to Lake Hodges Dam to strengthen the dam as ordered by the state engineer. The work will probably cost in the neighborhood of \$75,000.

MODESTO, Stanislaus Co., Cal.—City Engineer Frank J. Rossi authorized to proceed with work on foundation for dam in the Tuolumne river to form an artificial lake four miles long; \$3500 appropriated for foundation.

OAKLAND, Cal.—Until March 24, 8 P. M., bids will be received by John H. Kimball, Secretary, East Bay Municipal Utility District, 512 16th St., Oakland, to furnish: (1) 8,800 lin. ft. 8-in. cast iron pipe; (2) 16,075 lin. ft. 6-in. do; (3) 28,225 lin. ft. 4-in. do; (4) 2,200 lin. ft. 2-in. do. Pipe is for the Fairview County Water District. Spec. LS-101 obtainable from above office.

31—PIPE LINES & WELLS

DOMINQUEZ, Los Angeles Co., Cal.—Shell Oil Co. plans to repair boiler house, furnaces, lines and boiler re-setting damaged in recent earthquake. Estimated amount of damage \$500,000.

32—SEWERS & SEWAGE DISPOSAL PLANTS

LOS ANGELES, Cal.—American Concrete & Steel Pipe Co., 4636 Firestone Blvd., Southgate, awarded contract by board of public works March 8 for furnishing reinforced concrete pipe, centrifugal concrete pipe, laying equipment, and skilled pipe laying foreman in connection with the improvement of Western Ave. bet. 59th Place and 68th St. and other streets and rights of way in the Western Ave. and 66th St. Imp. Dist.

SAN FRANCISCO—Department of Public Works, S. J. Hester, Secretary, plans to construct sewer in 37th Ave. between Moraga and Noriega Sts., involving:

- (1) 593 ft. 8-in. V.C.P. sewer;
- (2) 26 8x6-in. Y branches;
- (3) 2 brick manholes.

SAN LEANDRO, Alameda Co., Cal.—All bids rejected by A. E. Pelton, City Manager, who will buy materials in the open market, to furnish: (1) 10,000 ft. 12-in. vit. sewer pipe; (2) 12,000 ft. 14-in. do.

Identical bids submitted by California Pottery Co., Gladding McBean Co. and N. Clark & Son, at \$31.50 for 12-in. and \$38.50 for 14-in.

MODESTO, Stanislaus Co., Calif.—All plans for installing storm sewers this year in Capital Heights Addition, estimated to cost \$22,360, have been abandoned by city council. Frank J. Rossi, city engineer.

CAPITAL CITY TITLE COMPANY

J. C. PALEN,
Manager

914 Seventh Street
Sacramento :: California

33—WATER WORKS

BIDS OPENED

SAN FRANCISCO—West Coast Construction Co., 100 Potrero Ave., San Francisco, at \$29,700 (lump sum bid) submitted low bid March 15 to Department of Public Works to construct water system about 3-mi. in length from San Andreas to the site of the Sneath Ranch jail in San Mateo County. Complete bids follow:

- (A) West Coast Constr. Co., \$29,700.
- (B) F. W. Snook, \$30,892.
- (C) E. J. Treacy, \$31,248.12.
- (D) P. L. Burr, \$31,642.
- (E) Scott Co., \$32,427.
- (F) Alta Elec. Co., \$32,440.
- (G) Eaton & Smith, \$33,400.
- (H) Geo. Frankel (Anderson & Rowe), \$33,425.
- (I) J. O'Shea, \$33,500.
- (J) Herman Lawson Co., \$34,000.
- (K) MacDonald & Kahn, \$34,810.
- (L) Fay Improvement Co., \$36,268.
- (M) C. L. Harney, \$37,500.
- (N) W. J. Tobin, \$37,839.90.

OLNEY SPRINGS, Colo.—Until April 1, bids will be received by Twin Lake Reservoir and Canal Co., Olney Springs, to construct a diversion tunnel under Independence Pass for diversion of 30,000 acre feet water from Roaring Fork River, involving a tunnel 3.8 mi. 9 ft. dia., partly lined, 4 mi. canals, estimates cost \$1,125,000. Project will be financed by Reconstruction Finance Corp. funds.

DENVER, Colorado—Denver-Golden Metropolitan Water Mutual Assn. will apply to Reconstruction Finance Corp. for a loan of \$2,225,000 to construct Williams Fort Tras-Mountain Division Project, to bring 30,000 to 40,000 acre feet of water per year from the Colorado River Basin to the Eastern Slope. Project involves three mile tunnel through Continental Divide at Jones Pass, 8 ft. wide, 7½ ft. high, concrete lined throughout, estimated cost, \$606,000. Also a 2-mi. tunnel from South Fork to Middle Fork, 7 ft. high, 7 ft. wide, unlined, estimated cost \$217,000. Thirteen and two-tenths miles collection canals estimated cost \$225,000. Construct 6-mi. new roads, estimated cost \$42,000. R. I. Meeker, Irrigation Engineer; E. H. Thwaites Consulting Engineer.

SAN FRANCISCO—Until March 24, 3 P. M., under Bid No. 979 bids will be received by T. A. Brooks, City Purchasing Agent, 270 City Hall to furnish stove oil, fuel oil and burning equipment for Hetch Hetchy Project. Specifications obtainable from above office.

WHITTIER, Los Angeles Co., Cal.—Until 7:30 P. M., April 10, bids will be received by City Council for drilling, casing, developing, and testing one 24-in. water well, in accordance with specifications which may be obtained from M. R. Bowen, Water Superintendent, 205 N. Greenleaf Ave., Whittier. Bidders shall name a lump sum price for a well 250 ft. deep and a price per foot for each additional foot of depth. Certified check or surety company bond, 10%. Debbie E. Allen, City Clerk.

MANTECA, San Joaquin Co., Cal.—Pacific States Cast Iron Pipe Co., Rialto Bldg., San Francisco, at \$786.30 awarded contract by city council to furnish 1200 ft. 6-in. pipe, tees and plugs. Complete bids follow:
Pacific States C. I. Pipe Co., pipe, \$.62½ ft., tees \$11, plugs \$1.10.

American C. I. Pipe Co. S. F. and U. S. Pipe & Foundry Co., submitted identical bids at \$.57½ per ft. for pipe, tees, \$10 each, and plugs \$.70 each.

HEMET, Riverside Co., Cal.—McDonnell-Smith Engineering Corp., Western Pacific Bldg., Los Angeles, consulting engineer, has completed a preliminary estimate of materials and construction required for the proposed new water system, for which an election to vote a \$121,000 bond issue is to be held April 4 (previously noted). The proposed system involves:
Drilling of two 16-in. wells complete. Furnishing and installing two well turbine pumps of 450 G. P. M. each Water supply line involving 15,600 ft. 10-in. electrically welded steel pipe.

- One 150,000-gal. steel storage tank on elevated steel tower.
- Distribution system involving:
- 11,510 ft. 2-in. cast iron water pipe;
- 35,720 ft. 4-in. cast iron water pipe;
- 23,900 ft. 6-in. cast iron water pipe;
- 5,960 ft. 8-in. cast iron water pipe;
- 4,100 ft. 10-in. cast iron water pipe;
- 12 2-in. gate valves;
- 32 4-in. gate valves;
- 28 6-in. gate valves;
- 6 8-in. gate valves;
- 3 10-in. gate valves;
- 16 steamer hydrants;
- 52 2½-in. nozzle hydrants.

LOS ANGELES, Cal.—Contracts for furnishing bell and spigot Class 250 cast iron water pipe under Spec. No. 3002, awarded by A. J. Holm, City Purchasing Agent, March 7, as follows:

National Cast Iron Pipe Co., item 1) 30,000 ft. 8-in., delivered on or about April 15, 1933, f.o.b. cars or trucks Hewitt St. yard, Water and Power Department, at \$26,700 (est. total).

U. S. Pipe & Foundry Co., items 2, 3, and 4, at \$71,520 (est. total). These items are: 30,000 ft. 8-in., June 15, and 30,000 ft. 8-in. Aug. 15, delivered f.o.b. cars or trucks Dept. of Water & Power Hewitt St. Yard; 20,000 ft. 8-in., Sept. 15, f.o.b. cars or trucks, Dept. of Water & Power, Slauson & Compton Ave. yard, Los Angeles.

American Cast Iron Pipe Co.—Items (4) and (5) at \$35,560 (est. cost). These items are: 20,000 ft. 8-in., May 15, and 20,000 ft. 8-in. July 15, f.o.b. cars or trucks, Dept. of Water and Power, Slauson and Compton Avenue yard.

The bids were opened Feb. 21.

SAN MATEO, Cal.—Byron-Jackson Pump Co., 111 Sutter St., San Francisco, at \$1432.60 awarded contract by city council to furnish one deep well turbine pump, capacity 350 to 400 G.P.M.

LOS ANGELES, Cal.—Saul A. Joseph, Purchasing Agent of the Metropolitan Water District, has announced that commencing March 13, notices inviting bids for miscellaneous materials, equipment and supplies will be posted in the corridor on the 5th floor of the Metropolitan Water District Building, 306 W. 3rd St., where they may be inspected by prospective bidders. Copies will be issued to bona fide bidders. Bid forms will be handled by George H. Millard, 5th Floor.

LOS ANGELES, Cal.—Western Pipe & Steel Co. of California, awarded the contract by A. J. Holm, City Purchasing Agent, March 9, at \$32,433 (estimated total) for furnishing welded steel water pipe under Spec. No. 3018. The bids were opened March 6.

HUNTINGTON BEACH, Los Angeles Co., Cal.—City council has under consideration a proposal to establish a

municipal water system. Dr. Roy White is circulating the petitions. The city will either purchase the system of the American States Water Service Corp. or install a new system.

OAKLAND, Cal.—Grinnel Company of the Pacific, Fifth and Brannan Sts. San Francisco, at \$2670 submitted low bid to East Bay Municipal Utility District to furnish 30 tons of joint compound for cast iron pipe. Complete bids follow:
Grinnel Co. "Basolite".....\$2670
Atlas Mineral Prod. Co., "Mineral Lead" 3360
Hydraulic Development Co. "Hydrolite" 4080
Waterworks Supply Co. "Lead-ite" 6300
Bids held under advisement.

PHOENIX, Ariz.—W. C. Lefebvre, City Engineer, has been authorized by the city commission to prepare a plan for the extension of the municipal water system. A field survey is to be made, including the district in which the Tovrea Packing Co.'s plant is located.

BELLINGHAM, Wash.—Ralph Turner at \$10,938 awarded contract by city council to furnish 15,675 feet wood water pipe. Morse Hardware Company second low at \$13,722; U. S. Pipe Foundry Co. third low at \$14,862.

SAN DIEGO, Cal.—Vernon Foundry, Inc., 1734 Iowa, Hollydale, submitted low bid to the City Purchasing Agent, A. R. Sauer, Jr., San Diego, March 8, at \$1342 for two 36-in. and two 42-in. cast iron saucer valves and cast steel covers with brass by-pass and bronze seat and miscellaneous items. The bids were:

- Vernon Foundry, Inc., \$1342; alternate, \$1222.
 - Southern Machinery Co., \$1596.60.
 - Relibale Iron Foundry, \$1642.80.
 - Enterprise Foundry Corp., \$1655.
 - Long Beach Iron Works, \$1691.02.
 - Consolidated Steel Corp., Ltd., \$1916.
 - Standard Iron Works, \$1919.50.
 - Sidney E. Mayer Mach. Co., \$2056.
 - Machinery Pipe & Supply Co., \$2290.
- Bids held under advisement.

MENLO PARK, Santa Clara Co., Cal.—Bids will be asked shortly by N. Hovey, Purchasing Agent, Bear Gulch Water Co., 1235 State Highway, Menlo Park, to furnish cast iron water pipe for contemplated improvements of water mains. Project involves:

- 7000 ft. 6-in. cast iron pipe;
 - 2000 ft. 10-in. do;
 - valves and fittings.
- Estimated cost, \$12,200.

35—TUNNELS

SOUTH PASADENA, Los Angeles Co., Cal.—A resolution asking the Board of Supervisors of Los Angeles County to appropriate \$43,852 for storm drain construction in South Pasadena was adopted by the South Pasadena City Council at a meeting March 8. Plans were prepared by Frank Clough, South Pasadena City Engineer. The project will include the extension of a 51-in. drain from Berkshire St. and Kendall Ave. to Hill Lane; shallow covered drain with gratings and asphalt concrete street resurfacing.

The city council has also adopted a resolution asking for \$23,000 for the improvement of the storm drain in San Pasqual Arroyo on the eastern boundary of the city.

29—STREETS AND HIGHWAYS

ALHAMBRA, Los Angeles Co., Cal.—Otto N. Rugen, city engineer, has completed plans and specifications for improving Alhambra Ave. bet. Huntington Drive and Atlantic Blvd. The county board of supervisors has appropriated \$15,000 for the purchase of materials and equipment (probably the rental of a few trucks). The proposed improvement will be 1.25 miles in length, with a 20 ft. paved roadway, exclusive of shoulders. Labor will be employed through R. F. C. funds. The quantities are:

- (1) 161,070 sq. ft. 6-in. asph. concrete pavement;
- (2) 59,633 sq. ft. 2-in. asph. concrete (on shoulders);
- (3) 2975 sq. ft. 3½-in. cement walk;
- (4) 2625 sq. ft. 8-in. gutter;
- (5) 400 ft. curb.

The city will probably lease and operate an existing asphalt plant in the immediate vicinity.

Work will probably be started at the same time on the paving on Garfield Ave. bet. Hellman Ave. and Ramona Blvd., one block, involving 6-in. asph. conc., 20 ft. wide, with 2-in. asphaltic concrete shoulders.

LOS ANGELES, Calif.—Until 10 A. M., March 22, bids will be received by board of public works for improving Woodlawn Ave. bet. 37th St. and Vernon Ave., under cash contract, involving:

- (1) grading (2720 cu. yds. excav.);
- (2) 883 sq. ft. 7-in. conc. pavement;
- (3) 482 sq. ft. 8-in. conc. pave. (local depressions);
- (4) 135,303 sq. ft. 7-in. Warrenite-bitul. pave. (5-in. conc. base and 2-in. W-B surf.);
- (5) 501 sq. ft. Warrenite-bitul. wearing surface of variable thickness (average thickness 1-in.);
- (6) 2011 sq. ft. rock and oil rdwy.;
- (7) 147 sq. ft. Class C resurf.;
- (8) 584 ft. unplas. heavy curb;
- (9) 241 sq. ft. 3-in. concrete walk;
- (10) 279 sq. ft. conc. walk (driveways)
- (11) 34 sq. ft. 8-in. conc. gutter;
- (12) 6788 sq. ft. 7-in. comb. gutter;
- (13) storm drain;
- (14) sanitary sewer;
- (15) 157 ft. 6-in. vit. clay pipe house conn. sewers;
- (16) 9 manholes to be reset.

ARIZONA STATE.—Until 10 A. M., March 18, bids will be received by the State Highway Commission, Phoenix, for highway construction on the Mesa-Casa Grande Ruins Highway, E-97-A (A. F. E. No. 8750) (A. F. E. No. 8751). The work, which begins at the end of the oiled surfacing about 1½ miles northwest of Santan and extends northwesterly approximately 10¼ miles to the concrete pavement south of the town of Chandler, consists of placing one C. M. P. culvert, one C. M. P. siphon and subgrade stabilizer and the oil processing of the roadway by either the road or plant mix method using asphaltic rd. oil, and is to be completed on or before June 15, 1933. The attention of the contractor is especially directed to the date of completion, and to the extra construction special provisions covering the right of highway commission to terminate contract. The principal items are:

ROAD MIX

- 14 cu. yds. Class A concrete;
- 5,000 cu. yds. subgrade stabilizer;
- 8,800 c. y. ml. subgrade stab., haul;
- 240 M. gals. water;
- 13,700 cu. yds. mineral aggregate;
- 83,800 cu. yd. ml. mineral aggregate, haul;
- 265,000 gals. asph. road oil;

10.2 miles mix, lay and finish;
800 cu. yds. screenings;
4,000 cu. yds. shoulder material;
11,600 cu. yd. ml. shoulder material, haul;

ALTERNATE PLANT MIX

18,900 tons plant mix;
115,400 ton ml. plant mix, haul;
207,000 gals. asphaltic road oil;
10.2 miles spread, compact and finish;
and other incidental items.

A proposal guarantee in cash or certified check of not less than 5% of the gross amount of the bid is required. T. S. O'Connell, State Highway Engineer. 29

MOUNTAIN VIEW, Santa Clara Co. Cal.—Hearing continued by Judge Syer, superior court, until March 16, on injunction on hearing on Resolution to extend Moffett Blvd. from the NE city limits to the Bayshore Highway. Ray Hays, City Clerk. C. C. Kennedy, Call Bldg., San Francisco, city engineer.

SAN MARINO, Los Angeles Co., Cal.—Wm. Chalmers, 35 S Raymond Ave., Pasadena, city engineer, has completed an estimate of the approximate quantities for the improvement of Oakleigh Drive, bet. Alhambra Road and West Drive, and a portion of Alhambra Road at its intersection with Oakleigh Drive, under the 1911 act. Hearing under the ordinance of intention has been continued until Mar. 15. The quantities are:

- (1) 3500 cu. yds. grading (approximate figure) lump sum bid;
- (2) 1976 lin. ft. curb;
- (3) 3992 sq. ft. gutter;
- (4) 35,930 sq. ft. light oil (1 gallon per sq. yd.) macadam pav. (1¼x1½ in. thick);
- (5) drainage struc., including:
 - 1 reinf. concrete box curb, 80 ft. long by 6 ft. x 8 ft. inside, involving approx. 94.5 cu. yds. Class A conc. and 8300 lbs. reinf. steel;
 - 2 catchbasins;
 - 21 lin. ft. 18-in. corr. metal pipe.

TUOLUMNE, Calaveras, Amador and Stanislaus Co., Cal.—Dee Strong, P. O. Box 143 Rio Vista at \$1692.80 submitted lone bid to District Engineer, State Highway Commission, Sacramento, to apply 920 bbls Diesel oil to roadside vegetation over 161 roadside miles. Unit bid was \$1.84.

SAN FRANCISCO—M. Bertolino, 32 Shotwell St., San Francisco, at \$6788 awarded contract by Dept. of Public Works to improve Bernal Ave. slopes, Randall to Diamond Sts, by planting.

HUMBOLDT COUNTY, Cal.—Until March 21, 2 P. M., bids will be received by Department of Public Works, Division of Highways, Office of the District Engineer, 546 West Wash Ave., Eureka for furnishing and stockpiling screenings in Humboldt County near Mad River Bridge about one and four-tenths miles west of Essex, road I-Hum-20-A.

COMPTON, Los Angeles Co., Cal.—City of Compton has received \$4500 from county gasoline tax funds for the improvement of a portion of Rosecrans Ave. and Compton Ave. The latter will be improved with rock and oil pavement between Barron St. and the west city limits, and between Long Beach Blvd. and the east city limits. The work on Rosecrans Ave. will involve the elimination of dangerous dips. James H. Park, city manager of Compton, will have charge of the work.

STANISLAUS, SAN JOAQUIN, Calaveras, Sacramento and Amador Co., Cal.—Dee Strong, Box 143, Rio

Vista, at \$1364.22 awarded contract by State Highway Commission to apply 780 bbls. Diesel oil to roadside vegetation over 110.7 roadside miles.

CLARK COUNTY, Nev.—Bids to have been opened March 15 by S. C. Durkee, State Highway Engineer, Heroes Memorial Bldg., Carson City, to furnish, apply and mix asphaltic fuel oil with the roadway surface over 11.51 ml. between Lower Virgin River Bridge and Mesquite, postponed.

SEATTLE, Wash.—Following contracts awarded by King County Commissioners for highway construction as follows, bids opened March 6:

Nick Florito at \$19,451 for one mile paving near Maple Valley-Black Diamond.

Florito Bros. at \$23,236 for one mile paving Pidgeon road between Renton and Three Tree Point.

SAN MATEO, San Mateo Co., Cal.—Oscar L. Cavanaugh, 432 Occidental San Mateo, submitted plans to city council for construction of road into new tract at Hillsborough Blvd. and North San Raymond Road.

MONTEREY, Monterey Co., Calif.—Sydney Ruthven, Seaside, at \$3,002 awarded contract by Quartermaster, Presidio of Monterey, to construct 2-300 ft. of asphaltic pavement 18 ft. the Post.

wide in front of officers' quarters at

LOS ANGELES, Calif.—Hearing on the improvement of Barrington Ave. from Barrington Place to Montana Ave., under 1911 Act, has been set by the city council for April 4. The work which is 3599 ft. in center line length, involves:

- (1) grading (14,030 cu. yds. cut, 2311 cu. yds. fill);
- (2) 15,473 sq. ft. 6-in. conc. paving;
- (3) 165,996 sq. ft. 6-in. asph. concrete wearing surf. (4-in. asph. conc. base, 2-in. asph. concrete wearing surface);
- (4) 535 sq. ft. 4-in. asph. concrete wearing surface;
- (5) 5685 ft. unplas. light curb;
- (6) 5176 sq. ft. 6-in. gutter;
- (7) sanitary sewer (est. at \$5570);
- (8) 2029 ft. house sewers;
- (9) 24 vert. ft. chimney pipe;
- (10) water system.
- (11) 92 water services;
- (12) 1418 ft. redwood header board;
- (13) lighting conduit.

Incidentals: 1400 cu. yds. special flooding;

Remove: 65 ft. curb, 250 sq. ft. gutter and refuse dump.

Sewer includes 3171 ft. 8-in. cement pipe besides items noted above. Average depth, 14.3 ft.

Engineer's estimate, \$44,941.08.

LOS ANGELES, Cal.—A. E. Pearson 2225 Glencoe Ave., Venice, awarded contract by board of public works, March 10, at \$3758.55 for improving 53rd St. bet. Long Beach Ave. and Fortuna St. under cash contract.

BOULDER CANYON, Nev.—Pacific Coast Steel Corp., 621 S Hope St., Los Angeles, has been awarded a contract by the U. S. Bureau of Reclamation, Denver, to furnish 759,658 lbs. deformed reinforcing steel for the Boulder Canyon Project. The bids follow: Colorado Fuel & Iron Co., f.o.b. Minnequa, Colo., (1) \$1.11 cwt. (2) \$1.05 cwt.; Sheffield Steel Corp., f.o.b. Kansas City (1) \$1.30 (2) \$1.20; Youngstown Sheet & Tube Co., f.o.b. Chicago (1) \$1.30 (2) \$1.20; Pacific Coast Steel Corp., f.o.b. Los Angeles, (1) \$1.31 (2) \$1.31.

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

7-MI. GRADING AND SURFACING—INYO COUNTY

INYO COUNTY, Cal.—Basich Bros., 20,550 Normandle Ave., Torrance, at \$54,193.20 submitted low bid March 8 to State Highway Commission, Sacramento, to grade seven miles between Bishop and Round Valley Road, of which 3.9 miles are to be surfaced with selected material and a bituminous treatment applied, involving:

- (1) 325 move trees and stumps;
- (2) 45,000 cu. yds. rdwy. excav., unclass.;
- (3) 652,000 sta. yds. overhaul;
- (4) 24,500 cu. yds. imported borrow;
- (5) 6400 cu. yds. ditch excav.;
- (6) 2200 cu. yds. struc. excav.;
- (7) 11,000 cu. yds. sel. surf. material
- (8) 1000 cu. yds. binder for subgrade
- (9) 3.88 mi. mix bituminous binder and surface material;
- (10) 83 cu. yds. class A Portland cement concrete (struc.);
- (11) 5000 lbs. bar reinf. steel (struc.);
- (12) 494 lin. ft. 12-in. corr. metal pipe
- (13) 698 lin. ft. 18-in. do;
- (14) 414 lin. ft. 24-in. do;
- (15) 228 lin. ft. 30-in. do;
- (16) 782 lin. ft. corr. metal pipe,

clean and relay;

- (17) 2860 M. gal. water (embankment)
- (18) 610 bbls. light fuel oil;
- (19) 480 tons cut-back asph. road oil;
- (20) 5 ml. new property fence;
- (21) 10 fence gates;
- (22) 9 ml. exist. fence to be removed and reset;
- (23) 12 culvert headwalls to be removed and reset;
- (24) 4000 ft. b. m. redwood timber select all-heart struc. grade;
- (25) 370 sta. finish roadway;
- (26) 60 monuments in place.

Complete bids follow:

- (A) Basich Bros., Torrance, \$54,193.20.
- (B) Weymouth Crowell Co. and E. P. Watson, Jr., Pasadena, \$63,052.30.
- (C) Hemstreet and Bell, Marysville, \$63,288.70.
- (D) Southwest Paving Co., Los Angeles, \$65,070.70.
- (E) C. O. Sparks, Los Angeles, \$68,671.90.
- (F) F. W. Nighbert, Bakersfield, \$74,196.50.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)
(1).....	\$ 5.00	\$ 5.00	\$ 10.00	\$ 5.00	\$ 3.50	\$ 9.00
(2).....	.23	.28	.28	.30	.36	.25
(3).....	.005	.005	.005	.005	.01	.0125
(4).....	.40	.375	.32	.33	.35	.35
(5).....	.15	.25	.40	.50	.30	.70
(6).....	.60	.80	1.00	1.00	1.00	1.00
(7).....	.30	.71	.55	.45	.40	.50
(8).....	.60	.58	.80	.50	.45	.60
(9).....	450.00	450.00	550.00	480.00	500.00	500.00
(10).....	25.00	21.00	22.50	26.00	25.00	25.00
(11).....	.05	.05	.06	.06	.06	.06
(12).....	.20	.25	.20	.30	.40	.35
(13).....	.25	.25	.25	.35	.40	.40
(14).....	.30	.40	.30	.45	.50	.60
(15).....	.40	.60	.40	.50	.70	1.00
(16).....	.50	.50	.50	1.25	1.50	1.00
(17).....	1.00	.39	1.25	1.50	1.25	1.50
(18).....	2.25	2.80	2.25	2.60	2.50	2.50
(19).....	17.50	21.20	17.50	19.30	18.00	17.50
(20).....	350.00	400.00	350.00	390.00	400.00	400.00
(21).....	14.00	20.00	15.00	12.50	30.00	15.00
(22).....	125.00	250.00	240.00	250.00	250.00	250.00
(23).....	10.00	10.00	10.00	12.50	25.00	18.00
(24).....	80.00	75.00	90.00	75.00	75.00	100.00
(25).....	5.00	5.00	4.00	4.50	5.00	4.00
(26).....	1.50	3.00	3.00	3.00	3.00	3.00

DWIGHT WAY STORM SEWER — BERKELEY

BERKELEY, Alameda Co., Cal.—Martin Murphy, 1321 Milvia St., Berkeley, at \$2169.50 awarded contract by city council to construct storm sewer on Dwight Way from College Ave. to Prospect St. and on Prospect St. from Dwight Way northerly together with catchbasins on Hillside Ave. southeast of Prospect St., involving:

- (1) 650 ft. 24-in. vit. pipe;
- (2) 650 ft. 24-in. concrete pipe (alt.);
- (3) 70 ft. 10-in. vit. pipe;
- (4) 70 ft. 10-in. concrete pipe (alt.);

- (5) 2 manholes;
- (6) curb inlet;
- (7) 7 catchbasins.

Complete bids follow:

- (A) Martin Murphy, Berkeley, \$2169.50
- (B) Lee J. Immel, Berkeley, \$2393.50.
- (C) Geo. C. DeGolyer, Oakland, \$2475
- (D) Chas. M. Davis and G. Ferrabee, \$2636.
- (E) Robt. B. McNair, Oakland, \$2878
- (F) W. G. Tobin, Oakland, \$2932.40.
- (G) McGulre & Hester, Oakland, \$2951
- (H) W. H. Larsen, Berkeley, \$3353.

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
(A).....	2.43	—	\$1.00	\$—	\$40.00	\$10.00	\$60.00
(B).....	2.85	3.03	1.65	1.65	46.00	46.00	34.50
(C).....	2.86	2.70	1.00	1.00	45.00	35.00	70.00
(D).....	3.15	3.12	2.00	2.00	50.00	16.00	48.00
(E).....	3.42	—	1.50	—	45.00	20.00	60.00
(F).....	2.61	—	1.37	—	60.00	20.00	140.00
(G).....	3.49	3.75	1.25	1.35	45.00	25.00	65.00
(H).....	4.30	4.50	2.40	2.40	70.00	20.00	30.00

LOS ANGELES, Cal.—Contracts for furnishing tractors and bulldozers under Spec. No. 8212 were awarded by the Metropolitan Water District Mar. 9, as follows:

Shepherd Tractor & Equip. Co.—One slightly used Model 35 Caterpillar at \$2850, less 2% 10 days.

Smith Booth Usher Co.—One new Cletrac at \$3349.

The bids were:

Shepherd Tractor & Equip. Co., \$3,535 each; total \$7070. Alternate: one new and one slightly used genuine model 35 Caterpillar at \$6285 for two units.

Smith Booth Usher Co., \$3349 each; total \$6698. Alternate: Cletrac tractor with trailbuilder, \$3459 each; total \$6,918. Alternate No. 2; used Cletrac 35 tractor with trailbuilder, \$2111. Terms net.

Crook Co., \$3400 each; total, \$6800 net.

B. Hayman Co., Inc., \$2997 each; total \$5994; terms net.

BEVERLY HILLS, Los Angeles Co., Cal.—Bids for renovating water department equipment opened by city council Feb. 28 follow:

Wintroath Pumps, Ltd.—Pulling and resetting pump (1) \$190.40 (2) \$350 (3) \$288 (4) \$368; new bearing in old column, each (1) \$3.25 (3) \$2.60 (4) \$2.60 new pump shaft, per ft. (1) 90c (2) 85c (3) 75c (4) 75c; replacing air lines per ft. (1) 16c (2) 16c (3) 16c (4) 16c.

Byron Jackson Co.—Pulling and resetting pump, (3) \$471 (4) \$612; new bearing in old column, each (3) \$4.05 (4) \$4.05; new spiders in old, each, (3) \$15.75 (4) \$15.75; new bowl added, ea., (3) \$29.70 (4) \$29.70; new pump shaft, per ft., (3) \$7; (4) \$7; new runner, ea., (3) \$17.55 (4) \$17.55; new pump bearings, each (3) \$5.50 (4) \$5.50; trimming old runners, each, (3) \$1.25 (4) \$1.25; replacing air lines, per ft., (3) 10c; (4) 10c.

Pomona Pump Co.—Pulling and resetting pump, \$33.75 for 10 ft. of column complete; new bearing in old column, \$2.75 each for rubber sleeve bearing, \$4.20 each for spiral sleeve to attach to shaft; new spiders in old, \$10.30 each for bearing retainer; new bowl added, \$35 for each; new pump shaft, \$18.20 for first stage, \$3.90 for each additional; new runner, \$18.85 each; new pump bearings, \$2.25 for suction bowl bearing, \$2.25 for discharge bowl bearing, \$1.15 each for intermediate stage; trimming old runners, \$1.00 each; replacing air lines, 30c per ft.

Pacific Pump Works, Ltd.—Pulling and resetting pump, (1) \$142.50 (3) \$227 (4) \$341; pulling and resetting pump (1) \$262 (3) \$200 (4) \$210; new bearing in old column, each (1) \$5.42 (3) \$3.45 (4) \$3.45; new spiders, each, (1) \$8.60 (3) \$12 (4) \$12; new bowl added, each (1) 55c (3) \$2.13 (4) \$380; new runner, each (1) \$27.50; new pump bearings, each (1) \$23; trimming old runners, each, \$6; replacing air lines with ¼-in. (1) \$6.65 (3) \$6.65 (4) \$6.35.

Layne & Bowler Corp.—Total price (1) \$272 (3) \$212 (4) \$523.

Peerless Pump Co.—Pulling and resetting pump, per ft., (1) 60c (3) 60 (4) 60c; new bearings in old column ea. (1) \$4.50 (3) \$3.25 (4) \$3.25; new spiders in old, each (1) \$14 (3) \$17 (4) \$17; replacing air lines, per ft., (1) 10c (3) 10c (4) 10c.

Bids taken under advlsement.

IMP. SAN PEDRO ST.—LOS ANGELES CITY

LOS ANGELES, Cal.—Griffith Co., 502 L. A. Railway Bldg., Los Angeles, submitted low bid to board of public works, March 8, at \$43,619.92, for the grading, paving and otherwise improving San Pedro St. bet. Vernon Ave. and Slauson Ave., cash contract.

- The items are: (1) grading (4630 cu. yds. excav.); (2) 217,118 sq. ft. 6-in. comp. concrete pavement; (3) 3365 sq. ft. 6-in. concrete pave. (Class E concrete); (4) 881 sq. ft. 8-in. conc. pavement (local depressions); (5) 577 sq. ft. 8-in. asph. conc. pave. (2-in. asph. conc. wearing surf. on 6-in. concrete base); (6) 490 sq. ft. asph. conc. wearing surf. of variable thickness (average thickness 2-in.); (7) 12,729 sq. ft. rock and oil rdwy.; (8) 154 ft. curb armor; (9) 1935 ft. unplas. light curb;

- (10) 3838 sq. ft. 3-in. conc. sidewalk; (11) 496 sq. ft. 4-in. concrete sidewalk (driveways); (12) 253 sq. ft. 6-in. do; (13) 23 sq. ft. 6-in. concrete gutter; (14) 64 sq. ft. 8-in. concrete gutter; (15) storm drain and appurtenances, complete, not inc. local depressions; (16) sanitary sewer, not inc. house connections; (17) 160 ft. 6-in. vit. house sewers; (18) ornamental lighting installation, complete; (19) 21 manholes to be reset. The total bids were: (A) Griffith Co., \$43,619.92. (B) J. L. McClain, \$45,275.06. (C) Southern Calif. Roads Co., \$45,844.90. (D) George H. Oswald, \$47,575.64. (E) L. A. Paving Co., \$51,357.80. (F) Engineer's estimate, \$45,064.72. The unit bids were:

Table with 5 columns (A-E) and 19 rows of unit bid prices for various construction items.

SANTA MONICA, Los Angeles Co., Cal.—Bids on March 10 for furnishing 6000 lin. ft. 6-in. Class B sand cast iron water pipe, delivered at the city yards, Ninth and Colorado Sts., opened by city council March 9, follow:

- Crane Co., 59c ft., f.o.b. trenchside. American Cast Iron Pipe Co., 65c ft.; alternates of 60c and 52 1/2 c ft.; all prices f.o.b. city yards. U. S. Pipe & Foundry Co., 66.8c ft. for 12-ft. and 16-ft. lengths, Class B sand cast pipe; alternate at 57.2c ft. for 250 bell Debar in 18-ft. lengths; alternate of 51.2c ft. for 150 DeLavaud. National Cast Iron Pipe Co., 67c ft. for 16-ft. B. & S. Class B. Itamco Pipe Corp., 59c ft. for Class B 6-in. pipe. Utilities Supply Co., 71.6c ft. for Class B, 6-in. pipe f.o.b. city yards; alternate of 71.6c ft. for 6-in. sand spun in 16-ft. lengths; alternate of 58.8c ft. for Class 150 pipe.

AWARD

RED BLUFF, Tehama Co., Calif.—Lyon & Garrett Co., Red Bluff, at 72c ft. awarded contract by city council to furnish 6000 ft. 12-in. water pipe and couplings. Pipe furnished by the Montague Pipe & Steel Co., San Francisco. Complete list of bidders follow: Pacific Pipe Co., San Francisco. California Corrugated Culvert Co., West Berkeley. Sacramento Pipe Works, Sacto. Western Pipe & Steel Co. San Francisco. Crane Co., Sacramento. U. S. Pipe & Foundry Co., San Francisco. Utilities Supply Co., Los Angeles. Ipamco Pipe Co., San Francisco.

3.2-MI. GRADE AND BITUMINOUS SURFACE—LAKE COUNTY

LAKE COUNTY, Cal.—Hanrahan Co., Hobart Bldg., San Francisco, at \$59,959.20 submitted low bid March 8 to State Highway Commission, Sacramento, to grade and surface with crushed rock base and bituminous treated crushed gravel or stone surfacing 3.2 mi. between Manilla Ranch and Bartlett Springs Road, involving:

- (1) 15 acres clear and grub right-of-way; (2) 47,500 cu. yds. rdwy. excav., unclass.; (3) 270,200 sta. yds. overhaul; (4) 1100 cu. yds. struc. excav.; (5) 12,400 tons cru. run base; (6) 6100 tons sru. gravel or stone bit. treated surf.; (7) 325 tons cut-back asphalt; (8) 230 bbls. light fuel oil; (9) 762 lin. ft. 12-in. corr. metal pipe (10) 992 lin. ft. 18-in. do; (11) 248 lin. ft. 24-in. do;

- (12) 60 lin. ft. 30-in. do; (13) 132 lin. ft. 36-in. do; (14) 350 lin. ft. 8-in. perf. metal pipe; (15) 36 lin. ft. corr. metal pipe, clean and relay; (16) 76 cu. yds. rubble masonry; (17) 1300 M. gals water; (18) 0.2 mi. new property fence; (19) 0.3 mi. special property fence; (20) 0.1 mi. existing fence to be removed and rese.; (21) 11 gates; (22) 500 lin. ft. lam. timber guardrail; (23) 168 sta. finish roadway; (24) 79 monuments complete in place. State will furnish corrugated metal pipe and perforated metal pipe.

Complete bids follow: (A) Hanrahan Co., S. F. \$59,959.20. (E) A. J. Raisch, S. F., \$60,723.20. (C) Granfield Farrar & Carlin, San Francisco, \$61,246.

- (D) Hein Bros. Basalt Rock Co., Petaluma, \$62,855.90. (E) E. B. Bishop, Sacramento, \$63,340.04. (F) Hemstreet & Bell, Marysville, \$63,561.20. (G) Fredrickson & Watson and Jones & King, Oakland, \$64,877.70. (H) A. Teichert & Son, Sacramento, \$64,292.65. (I) Artukovich Bros., Hynes, \$78,186.80. (J) Willard, Biasotti and Lovatti, Stockton, \$79,210.90. (K) von der Hellen & Pierson, Castaic \$79,831. (L) Heafy-Moore Co. and J. A. Casson, Oakland and Hayward, \$83,510.90. (M) D. McDonald, Sacramento, \$89,505.70.

Unit bids follow:

Table with 13 columns (A-M) and 24 rows of unit bid prices for various construction items.

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IN THIS ISSUE



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WAGE LAW REPEAL

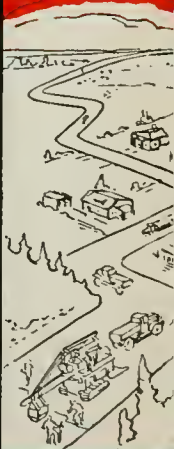
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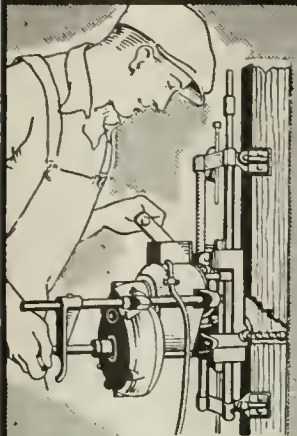
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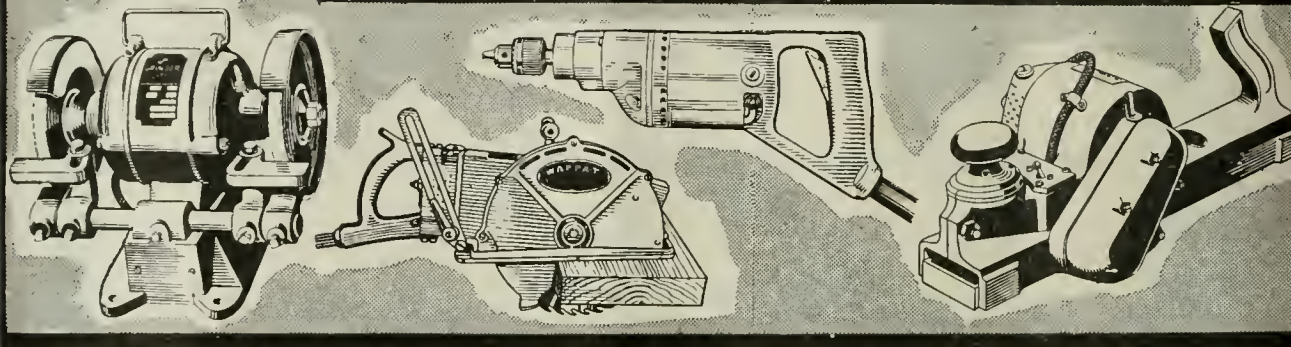
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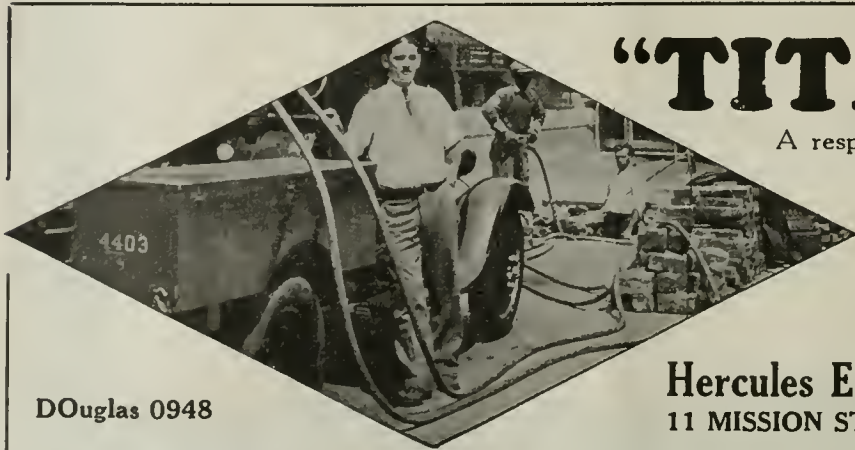
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Official Publication of the Associated General Contractors of America
for the Eleven Pacific Coast States

SAM B. EUBANKS, *Editor*

Vol. 16.

SAN FRANCISCO, CALIF., MARCH 25, 1933

No. 10

S. F. EXCHANGE DIRECTORS FOR 1933 ELECTED

**Entire Board Re-elected;
Patterson Named to Fill
Vacancy**

Directors of the San Francisco Builders' Exchange were re-elected yesterday at the annual meeting. H. N. Patterson, representing the ornamental iron manufacturers, was elected to the vacancy caused by the death of Alex. Mennie. The other ten members of the board were elected to succeed themselves.

The members of the board for the 1933 term are:

Joseph B. Keenan, Marble Dealers.

A. H. Wilhelm, General Contractors.

J. D. McGilvray, Cut Stone Contractors.

Charles W. Carle, Reinforcing Steel Dealers.

Emil Hogberg, Masons and Builders.

W. H. George, Building Material Dealers.

R. J. H. Forbes, Concrete Contractors.

E. M. H u n d l e y, Unorganized Crafts.

H. N. Patterson, Ornamental Iron
James H. Pinkerton, Plumbing
and Heating.

E. H. Peterson, Tile Dealers.

The directors will elect a president and other officers at their first meeting.

Reports of officers for 1932 were presented to the membership yesterday. W. H. George is president of the Exchange; R. J. H. Forbes is secretary.

BRIDGE DISTRICT INSPECTOR NAMED

Appointment of three inspectors in the Golden Gate Bridge District inspection bureau was announced yesterday by General Manager Jas. Reed.

The appointees are R. A. Daddisman, 1490 Francisco street, as chief concrete inspector at a salary of \$225; G. F. Douglas, 1719 Second street, Napa, engineering inspector at \$200 a month; H. H. Bruck, 495 Fulton street, San Francisco, assistant inspector at \$150.

THE WEEK'S NEWS Highlights

RECONSTRUCTION IS REGULATED—Southern California cities have adopted emergency ordinances prohibiting rebuilding except on earthquake - proof specifications. Long Beach has enacted an emergency measure restricting all reconstruction work for a period of 180 days to resident contractors and resident craftsmen, except where special permit is obtained from the City Council. (See pg. 4.)

ELECT DIRECTORS—The entire board of directors of the San Francisco Builders' Exchange was re-elected at the annual meeting held March 20.

EXCHANGE ASKS LAW REPEAL—State Builders' Exchange, meeting in semi-annual convention at Los Angeles, urged repeal of the state prevailing wage law; retention of state contractors' license law. (See page 6.)

BIDS POSTPONED—Financial holidays brought numerous bid postponements on Federal works, among them the San Diego Post Office, reset for April 3, and Phoenix Post Office, reset for April 6.

OPENINGS NEXT WEEK—Three important bid openings are scheduled in San Francisco Tuesday and Wednesday. Bids on general contract for San Francisco jail (\$490,000 appropriation) are to be opened Wednesday, also San Francisco anchorage of the bay bridge (estimated \$1,750,000). Yerba Buena crossing of bay bridge bids (estimated \$2,500,000) will be received Tuesday, March 28.

TUNNEL PLANS FOR \$3,750,000 LINK DESCRIBED

**District Engineer Tells Supervisors
Construction Project
Nearly Ready**

Construction plans for the Broadway tunnel to link Contra Costa and Alameda counties have reached the final stage, supervisors of the two counties were informed at a joint meeting this week. Plans will be forwarded to the State Department of Public Works at an early date.

The meeting was held at the Orinda Country Club, and in addition to the supervisors, was attended by Wallace B. Boggs, engineer for Joint Highway District No. 13, embracing the tunnel area; Ralph Hoyt, assistant district attorney, and A. B. Tinning, attorney for the district.

Plans submitted by Boggs contemplate a double bore, each 3168 feet long, the estimated cost being \$3,752,035.

The tunnel and approaches would cover 2.8 miles. Boggs estimated that the project would give work to from 450 to 500 men for eighteen months.

Materials needed for construction, he stated, would include 82,000 cubic yards of concrete; 123,000 barrels of cement; 160,000 tons of rock and sand; 4,870,000 pounds of reinforced steel, and 1,344,000 lbs. of structural steel. Boggs declared that 1,100,000 cubic yards of earth would be excavated.

All materials for the project, with the exception of ventilating equipment, could be bought in the bay district, Boggs reported. The twin bore would provide a roadway 22 feet wide for both Alameda and Contra Costa-bound traffic.

The board and district officials plan to hold another conference soon, at which plans are expected to be adopted and forwarded to the State Department of Public Works at Sacramento for approval.

Directors of the district, who attended the meeting, are Thomas E. Caldecott, chairman, a member of the Alameda board; Harry Stowe, Contra Costa supervisor and Henry Hinman, Oakland Chamber of Commerce official.

ORDINANCE BARS COMPETITION IN CITY REBUILDING

Long Beach To Protect Home Industry; Wage Scale Fixed

Contractors, architects or craftsmen who were not residents of Long Beach prior to the earthquake are barred from engaging in reconstruction work in that city for a period of six months under an emergency ordinance adopted by the Long Beach city council.

The ordinance is intended to restrict all repair and rebuilding to local firms and labor.

It is declared unlawful for any person, firm or corporation to employ any laborer, mechanic, artisan, contractor, architect or helper who was not a resident of the city of Long Beach on March 9, 1933, upon any work or construction, building, alteration, improvement or repair within the city limits for a period of 180 days after the adoption of the ordinance, unless a permit is obtained from the city council for the employment.

The ordinance declares:

"On March 10, 1933, an earthquake occurred in the city of Long Beach, damaging and destroying many buildings and improvements and causing many residents and citizens of the city of Long Beach to be thrown out of employment, and there are now in the city of Long Beach sufficient unemployed persons to carry on all necessary work of repair, alteration and construction and there is danger that many unemployed persons from other localities will seek to enter the city of Long Beach for the purpose of securing employment in the work of reconstruction and repair and the presence of such persons would be injurious and dangerous to the peace, health, safety and morals of the city."

A wage scale for the building trades to prevail during the period of reconstruction has been approved by the rehabilitation committee. It was recommended by a committee of six representing contractors, architects, real estate men and labor organizations.

Building labor will receive from \$4 to \$8 per day with no extra for overtime...Other common labor will be paid 40 cents an hour.

The wage scale includes the following rates: Carpenters, \$6; Bricklayers, \$8; Plumbers, \$8; Electricians, \$6.30; Hod Carriers, \$5; Lathers, \$6; Painters, \$6; Sheet Metal Workers, \$7; Roofers, \$6; Tile Setters, \$8; Plasterers, \$7; Floor Layers, \$7; Cement Finishers, \$6.

Total orders for steel furniture, reported by 36 manufacturers aggregating \$1,103,626, compared with \$1,165,817 in December, and \$1,582,195 in January a year ago.

Manufacturers of malleable steel castings report shipments for January at 14,077 net tons, compared with 14,366 net tons in December.

POSTPONE PHOENIX POST OFFICE BIDS

SPECIAL TO DAILY PACIFIC BUILDER
WASHINGTON, D. C.—March 17.—Postponement of the date for receiving bids on the Phoenix federal building and post office was ordered today by the treasury department. The bids will be opened April 6 instead of March 21.

The building is to be six stories of steel frame with granite and tufa stone exterior walls. The appropriation is \$675,000.

Plans were prepared by Architects Lescher and Mahoney, Phoenix.

IDAHO ENACTS LICENSE LAW; SET \$100 FEE

State Public Works Bidding Limited To Qualified Contractors

Legislation intended to give preference to local contractors and establishing stringent regulations for bonding of contractors on public works has been adopted by the Idaho state legislature.

Bidding will be confined to contractors licensed in the state and providing that licenses must have been procured at least 30 days prior to the letting of the contract. The license fee will be \$100 for the first year and \$50 a year for renewals. Applications for license must be accompanied by statement of experience and financial standing.

The bond to be required on public works has been increased from 60 per cent to 100 per cent of the contract price.

Provision is made that in case a bond shall become inadequate a new bond equal to the value of the contracted work uncompleted shall be substituted. The period for bringing suit is shortened from six months to 90 days. No suit can be brought six months after completion or abandonment.

A measure for diversion of two-thirds of the gasoline tax was defeated in the lower house where it was introduced.

Bond financing of construction and repair of municipal sewer and water systems is authorized in the state by two other bills approved by the legislature. Bond issues for this purpose would require approval of two-thirds of the taxpayers in the city.

SCHOOL SURVEY ORDERED

Building Inspector Stanley Koch has been instructed by City Manager Hollis Thompson to make a survey of all Berkeley school buildings to determine whether any of them should be strengthened against earthquake shocks. Koch visited Southern California recently to study building damage.

WELFARE BOARD HOMES EXEMPT FROM LIEN ACT

Attorney Discusses Recent Alameda Decision Refusing Foreclosure

Attorney Harry C. Westover comments on the recent decision of the Alameda county superior court holding that homes financed by the State Veterans' Welfare Board are not subject to provisions of the mechanics' lien law, his review of the decision appearing in a recent issue of the Long Beach Builders' Exchange Bulletin.

Following is his comment:

"In this community, as in every other community of the State, during the past several years a large number of homes have been constructed by the California Veterans Board for veterans. Materialmen, contractors and laborers are called upon to furnish materials and labor for such buildings. Materials and labor have been furnished to the contractor with the idea if for any reason the contractor was unable to pay the bill, the house would stand good for the shortage under the provision of the Mechanics' Lien Law.

"Such structures are financed by the Veterans' Welfare Board of the State of California. Title is usually taken in the name of the Board and then the Board enters into a contract with the veteran relative to the property.

"A general rule of law is to the effect that no lien can be affixed against property owned by the State or any of its subdivisions. The only rights provided by the Mechanics' Lien Law on property owned by a political subdivision is the right to file a stop notice. If there is sufficient money on hand to pay all bills, or if there is a bond the stop notice adequately protects those who furnished materials or labor. But if the money has already been paid to the contractor, or expended or pledged, and there is no bond, a stop of notice does not help materialmen and contractors, who have made the building possible, to collect their accounts.

"Some time ago the Tilden Lumber and Mill Company furnished materials to be used in the construction of a Veterans' Home in Alameda county. When the contractor failed to pay the bill, a lien was filed on the property. When the matter was presented, the Court followed the general rule of law to the effect that liens could not be filed on public property. The Court upheld the contention that the title to the property was held by the Veterans' Welfare Board for the people of the State of California, and that a lien could not be had upon state property.

"The Court in rendering the decision as stated above only reiterated the rule of law which has been in effect in this state for many years. The Court, however, did apply the rule to buildings being erected by the Veterans' Welfare Board and held that such buildings

were being erected by the state and not by the veteran.

"The decision is important to the building industry of the state inasmuch as it precludes those who furnished labor and materials from looking to such buildings for security for the payment of their accounts. Materialmen and contractors must look to the contractor or his bondsmen for money due them for labor and materials used and consumed in the buildings erected by the Veterans' Welfare Board of the State of California."

NEW HEATING BULLETIN

"Heating the Farm Home" is the title of a new bulletin issued by the Bureau of Agricultural Engineering, Department of Agriculture. The publication discusses types of heating plants suitable to different localities and exposures and comparative operating costs.

Local Electrical Contractors in Agreement on Policy Designed to Eliminate 'Bid-Peddling'

Adoption of a policy to be followed in submitting bids on electrical contracts is announced by the Electrical Contractors' Association of Northern California in a letter to architects, engineers and general contractors. The association's action is aimed at elimination of "bid-peddling." Members have subscribed to the following statement:

"In all cases where electrical work exceeds \$100 on a building project of any kind, members of this association will submit bids and enter into contracts only with the owner or his immediate representative, which bids will be presented only at a specified time, and which bids shall not be prior to the reception of bids for other parts of the work, if any.

"By owner's immediate representative" the members of this organization recognize only one of that owner's immediate employees, an architect or a consulting engineer. Another contractor, either general or sub-contractor, will not be recognized as the owner's representative until the owner has definitely contracted with such a contractor for a major part of the work. In such a case, members will submit bids covering the electrical work to such an actual contracted representative provided he has not previously received a bid covering the electrical work, only if the latter designates a definite time and place for public opening of bids and agrees that the work in question will be awarded to the lowest solicited bidder. Unsolicited bids are to be discarded by the recipient previous to the bid opening.

"We recognize that much of the fault in connection with bid-peddling lies with hungry subcontractors who beg for an opportunity to undercut an already submitted and accepted low bid. To this problem, an internal one within the membership of the association, we will devote our efforts. But to the general contractor we feel no man in business should be asked to ex-

ALASKA SCHOOL BIDS INVITED

California contractors are invited to bid on construction of a three-story concrete school building to be erected at Fairbanks, Alaska. Estimated cost of the building is \$135,000.

Three sets of plans have been received at the San Francisco Builders' Exchange and may be obtained by contractors upon deposit of \$25. Bids are to be received on the general contract and a separate contract for mechanical equipment. Proposals will be opened April 26.

The architects are Tourtelotte and Hummel, Postal Bldg., Portland.

LEGISLATURE IS WARNED FEDERAL AID THREATENED

Proposal to Eliminate Flood Control Funds Jeopardizes Many Projects

Withdrawal of state support for the Sacramento river flood control project to which California is committed in a contract with the federal government will jeopardize other federal construction appropriations in the state, according to a warning telegraphed the legislature by the California delegation in congress.

The message was received after the assembly ways and means committee indicated that it would eliminate an item of \$1,052,000 from the budget bill covering appropriations for flood control work in the next biennium.

Major A. M. Barton, state reclamation engineer, asserted that such a cut would be a repudiation of the agreement with the federal government for the completion of the \$51,000,000 project, which was to be financed by equal contributions from the state, federal government and land owners.

The federal government has put up \$13,000,000 and the state \$11,400,000 to date.

"Project construction must proceed steadily or work already done at great cost will be impaired," Barton asserted.

"Congress already has appropriated all funds to meet its share.

"Breaking faith now would wipe out the results of 10 years of work. Failure of the state to honor the agreement cannot but have its effect on federal aid now gained or being sought for California in the future to the possible extent of \$300,000,000."

He included in his total such loan proposals from the Reconstruction Finance Corporation as the \$62,000,000 San Francisco bay bridge; the \$42,000,000 loan for the Los Angeles metropolitan water system; the \$22,000,000 sought for Los Angeles

city power lines, and \$2,250,000 San Diego water system. In addition, money is being sought for the statewide water system and the All-American canal.

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CONTRACTORS AID CITY OFFICIALS IN QUAKE AREA

A. G. C. Organizes Volunteer Groups to Rush Building Inspection

A crew of expert building appraisers was organized by F. J. Connolly, manager of the Southern California Chapter, Associated General Contractors, and placed at the service of public officials within a few hours after the earthquake last Friday night. The volunteers are still at work examining damaged buildings and preparing reports for municipal building departments.

All members of the committee gave their services without compensation.

Before noon on Saturday a preliminary report had been prepared for the mayor and city council of Compton covering the two principal business blocks on Main street and before evening a survey had been made of all business structures in the city.

Early Sunday a detailed report on every building in Artesia was delivered to the county supervisors who immediately mobilized the equipment of the forestry department and county fire department to start cleaning up debris littering the streets and to raze dangerous walls.

Every commercial building in Bellflower had been examined by Monday morning and an individual report prepared for each.

On Monday morning City Engineer A. H. Adams of Long Beach asked for a committee of contractors to appraise damage there. The A.G.C. sent twenty experts at once and the following day 58 more men were assigned to this work.

Contractors are renting steam shovels, trucks and other necessary equipment at actual operating cost in addition to donating their services.

The members of the A.G.C. also have pledged their aid to the state registrar of contractors in preventing profiteering in the reconstruction of buildings and in protecting owners from fraud by incompetent contractors.

GATE BRIDGE STEEL DUE HERE MARCH 27

The first shipment of reinforcing steel for the Golden Gate bridge is due to arrive here March 27, it was announced yesterday when the "Edward Luckenbach" will dock at San Francisco with a cargo of 107 tons of steel from the Pottstown plant of the Bethlehem Steel Corporation.

The steel is consigned to the Pacific Bridge Company to be used in the Marin pier. It will be lightered from the ship at Lime Point.

Pacific Bridge Company officials reported yesterday that the last crib section of the cofferdam had been put in place, completing this portion of the preliminary work.

BUILDERS' ALUMINUM BOOKLET IS PREPARED

Aluminum Company of America has just published a 274-page volume entitled "Aluminum in Architecture." The company states that it is the first complete study of the uses of aluminum in building.

The following is quoted from the foreword:

"This handbook on aluminum for architectural purposes has been compiled with a sincere desire to place before the building industry an authoritative treatise on the subject, which will prove of assistance and value in design and fabrication.

"While fair results may be obtained from most materials under almost any circumstances, it is essential in order to secure the optimum of service to have an accurate knowledge of the characteristics of the materials and to know how to employ them.

"Aluminum Company of America maintains a technical staff whose services are available to architects, builders and specialty manufacturers to assist them in the proper use of aluminum. In order to insure further the protection and satisfactory use of the metal, a corps of trained inspectors is constantly in the field to check the various architectural installations."

ARCHITECT ELECTED

Birge M. Clark, Palo Alto architect, has been elected president of the Palo Alto chamber of commerce. The chamber was reorganized recently.

COFFMAN WINS APPEAL FROM STATE BOARD

Appellate Court Finds Charges Behind Suspension Order Unproven

William E. Coffman, Sacramento architect, has been exonerated by the Third District Court of Appeal of charges on which the State Board of Architectural Examiners suspended his license for thirty days.

The decision, given by Presiding Justice John F. Preston, annulled the suspension and ordered his certificated reinstated. Judge Preston held that the charges against Coffman were unproved and that the examiners did not have authority to deprive him of his license on the basis of the complaint.

Action of the board was announced February 3 when it was reported the examiners had personally investigated the complaint of Miss Nelle U. Branch, librarian of Davis, that substitutions had been made in the construction of her residence in College Park, thereby cheapening the building and rendering it unsafe.

The court found that the complainant knew of and consented to the changes ordered in her home during construction and also took judicial notice of a notice of completion filed by the owner eighteen months prior to preferring charges against the architect.

Robert H. Schwab, Sacramento attorney, represented Coffman.

State Exchange Endorses License Law; Demands Repeal of Prevailing Wage Act

Following is a summary of resolutions adopted by the California State Builders' Exchange at the semi-annual convention in Los Angeles:

ENDORSING LICENSE LAW: Expressing appreciation to Colonel Huntington and his aides for the efficient manner in which they have conducted the affairs of the state contractors' bureau to the benefit of the ethics of the construction business and in behalf of the public interest.

CONDEMNING FAULTY CONSTRUCTION: Urging public bodies to amend building ordinances and codes by the adoption of adequate minimum structural requirements to withstand earthquakes; that public officials in letting contracts for earthquake rehabilitation work and all future public construction require higher standards of bidders, both technical and financial, so that the low dollar bid on public work shall be indicative of a dollar's worth of substantial, safe structure.

TAX ADJUSTMENT: During the succeeding months of economic reconstruction member Exchanges

are advised to give their attention to the reduction of public expenditures, to adjustment of taxation and the elimination of tax exemptions.

OPPOSING 30-HOUR WEEK: Holding the 30-hour week as impractical and detrimental to the interests of building in attempting to re-establish normal business conditions.

PREVAILING WAGE LAW: Condemning the practices which have grown out of the prevailing wage law, contending that the law in nowise has accomplished its purpose, and demanding repeal.

PENDING LEGISLATION: Opposing Assembly Bill 1813 proposing to eliminate the Department of Professional and Vocational Standards; opposing Assembly Bill 2156 providing that an individual may do electrical or plumbing work on his own property; endorsing Assembly Bill 1326 repealing the prevailing wage law; Assembly Bill 780 and Senate Bill 266, amending the contractors' license law and Assembly Bill 711 providing for a declaration of intention to build.

\$52,000,000 Advanced on Home Mortgages In 1932 by Building and Loan Associations

More than one-half of the new homes built in 1932 were financed by the building and loan association monthly installment mortgage, it is reported by the United States Building and Loan league. The first check-ups on total loaning last year show that the associations advanced \$52,000,000 for the construction of 19,370 one-family homes.

Statistical organization figures show that only 35,600 single-family houses were built in the past year and thus the building and loan business provided for 55 per cent of them.

Ward B. Whitlock, Springfield, Ill., president of the league, says that the associations devoted 10 per cent of their total lending activity to mortgages on newly built homes. The remainder was for refinancing of home mortgages held by other institutions, some for remodeling loans, and others for purchase of existing homes. Total mortgage loans estimated for 1932 show the associations pouring \$521,000,000 into the home mortgage field, in spite of decreased income from savings shareholders and the need of many other shareholders to use their building and loan savings in the emergencies of the critical year.

NEW SOURCE FOR 1933

"It is important that the loaning business done in 1932 was almost entirely out of the regular receipts of building and loan associations from members, either older shareholders continuing payments, borrowers reducing the principal of their mortgage indebtedness, or new shareholders opening accounts with the associations," said Mr. Whitlock. "Not until the groundwork for the operations of the new federal home loan bank system was laid did the helpful possibility of increasing loaning funds by obtaining advances from a long-time credit-source become a reality. Because this source is now definitely established we may look for an increase of lending in 1933 over the previous year, especially in view of the growing demand for home mortgage loans noted in 25 states.

"The homes for which building and loan associations provided the major construction financing in 1932 were financed with mortgages averaging smaller amounts than those of previous years. This means one of two things, or perhaps it shows the influence of both—the downward trend of construction costs and the greater emphasis on the lower-cost home in view of the indisputably greater market for \$2000 to \$5000 homes than for those of higher price range.

AVERAGE LOAN LOWER

"The average mortgage loan for a newly built home in 1932 was \$2,685. This compares with \$3500 and \$3600 for the periods of 1928, 1929 and 1930. Taking the average building and loan association mortgage

as 60 per cent of the total value of the home, we find the average home built with association financing last year costing around \$4,500. This is a step in the right direction, and business and finance may rest assured that the one-family homes built in 1932 at an average cost of \$4500 are not only better suited to the market than any homes have been for years, but they are also better built than the average home of four years ago. Loaning agencies are paying marked attention to building methods in the present crisis, and as a result the homes which they finance today will be outstanding in the residential realty structure of the years to come.

ARCHITECTS BOARD AWARDS CERTIFICATES

Provisional certificates to practice architecture in the state of California have been granted as follows by the State Board of Architectural Examiners following recent examinations:

Edwin Bradley Mead, 2618 Etna street, Berkeley; Edward John Maher, 3033 Wheeler street, Berkeley; Edward W. Kress, 453 S 12th street San Jose; James Donald Wicken-den, 1408 Spring Way, Berkeley; Winfield Hadsell Hyde, 2458 Vallejo street, San Francisco; Charles Hugh Gibbs, 3128½ Theresa, Long Beach; Miss Irene Margaret McPaul, Route 1, Box 887½, San Gabriel; Walter Charles Wurdeman, 1108 W. P. Story Bldg., Los Angeles.

The next written examinations will be conducted by the board June 12 to 15, inclusive.

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PERMITS AND CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
148	Hancock	Owner	1500
149	Olson	Owner	4500
150	Wise	Wilhelm	1850
151	Emporium	Owner	1000
152	P. G. & E. Co.	Owner	2000
153	Dahlstrom	Owner	3500
154	Weber	Nylund	4000
157	Pardini	Owner	6700
155	McCreery	Wagner	3000
156	Matthews	Erickson	3000
158	Graffigna	Parodi	3200
159	Ar	Owner	2500
160	Whitney	Owner	19750
161	Mager	Owner	3500
162	De Martini	Owner	3250
163	Teulier	Saunier	3600
164	Nelson	Owner	3850

DWELLING

(148) E RALSTON 225 S Sargent; 1-story and basement frame dwelling.
Owner—Mrs. A. R. Hancock, 1486 23rd Avenue.
Architect—Not Given. \$1500

DWELLING

(149) E DOLORES 160 N 25th; two-story and basement frame dwelling.
Owner—C. L. Olson, 451 Guerrero St. Plans by G. Raeside, 2517 15th Ave. \$4500

REPAIRS

(150) 2453 JACKSON ST.; repair fire damage to flats.
Owner—J. Wise, 2459 Jackson St. Architect—Not Given.
Contractor—A. Wilhelm, 666 Mission. \$1850

ALTERATIONS

(151) S JESSIE ST. bet. 4th and 5th Sts.; alter lunch counter.
Owner—The Emporium, 835 Market. Architect—Not Given. \$1000

ALTERATIONS

(152) S BUSH ST. bet. Larkin and Polk; alter electric substation.
Owner—P. G. & E. Co., 245 Market. Architect—Not Given. \$2000

DWELLING

(153) W 14th AVE. 275 S Rivera; 1-story and basement frame dwelling.
Owner—Rooh & Dahlstrom, 2219 14th Avenue. Architect—Not Given. \$3500

DWELLING

(154) N IDORA AVE. 120 W Laguna Honda Blvd.; one-story and basement frame dwelling.
Owner—J. Weber, 50 Laguna St. Plans by W. Van Herick, 50 Laguna. Contractor—O. Nylund, 425 Bayshore Blvd. \$4000

ALTERATIONS

(157) NW FILBERT & WEBSTER Sts. Alter dwelling for apartments.
Owner—G. Pardini, 2102 Filbert St., San Francisco. Plans by A. Frascina. \$6700

ALTERATIONS

(155) NO. 548 FIFTH ST. Alter warehouse and office.
Owner—McCreery Estate Co., Alexander Bldg., San Francisco. Architect—Not Given.
Contractor—C. Wagner, 181 South Park, San Francisco. \$3000

DWELLING

(156) E THIRTY-THIRD AVE 175 S Judah St. One-story and basement frame dwelling.
Owner—P. Matthews, % Contractor. Architect—Not Given.
Contractor—H. Erickson, 972 Chenery St., San Francisco. \$3000

DWELLINGS

(158) W KEITH ST. 50 N Shafter. Two 1-story and basement frame dwellings.

Owner—P. Graffigna. Architect—Not Given.
Contractor—G. Parodi, 2864 San Bruno Ave., San Francisco. \$1600 ea

DWELLING

(159) N NEWCOMB 175 E Phelps. One-story and basement frame dwelling.
Owner—V. Ar, 1762 Newcomb St., San Francisco. Architect—Not Given. \$2500

DWELLINGS

(160) W THIRTY-FOURTH AVE 109 S Kirkham St. Five one-story and basement frame dwelling.
Owner—Whitney Investment Co., 36th Ave. and Kirkham St., S. F. Architect—Not Given. \$3950 each

DWELLING

(161) E NINETEENTH AVE 164 S Ulloa St. One-story and basement frame dwelling.
Owner—Mager Bros. & Son, 1359 4th Ave., San Francisco. Architect—Not Given. \$3500

APARTMENTS

(162) NE GREENWICH AND TELEGRAPH. One-story and basement frame (3) apartments.
Owner—M. L. De Martini, 436 Greenwich St., San Francisco. Architect—Not Given. \$3250

DWELLING

(163) S SHAFER 25 W Keith St. One-story and basement frame dwelling.
Owner—Mrs. V. Teulier, 1733 Oakdale Ave., San Francisco. Plans by Contractor.
Contractor—A. Saunier, 769B Brunswick St., San Francisco. \$3600

DWELLING

(164) N WAWONA 100 E 34th Ave. One-story and basement frame dwelling.
Owner—A. Nelson, 242 Ocean Ave., San Francisco. Architect—Not Given. \$3850

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
79	Standard Oil	Owner	2200
80	Standard Oil	Owner	2300
81	Thomas	Windsor	5000
82	Delu	James	2400
83	City of Berkeley	Bernard	1126
84	Dolan	Owner	3000
85	Hughes	Hughes	1000

SERVICE STATION

(79) NW COR. SHATTUCK AVENUE and Vine St., BERKELEY; service station.
Owner—Standard Oil Co., Financial Center Bldg., Oakland. Architect—Not Given. \$2200

SERVICE BLDG.

(80) NW COR. SHATTUCK AVENUE and Vine St., BERKELEY; one-story brick service building.

Owner—Standard Oil Co., Financial Center Bldg., Oakland. Architect—Not Given. \$2300

STATION

(84) NO. 6501 SHATTUCK AVE., OAKLAND. One-story brick and tile service station and one-story brick super-service station.
Owner—W. F. Dolan, 1324 Spruce St., Berkeley. Architect—Not Given. \$3000

WAREHOUSE

(85) SW ASHBY AVE. & SEVENTH ST., BERKELEY. One-story one-room frame cement warehouse.
Owner—Chas. S. Hughes Co., 474 Chetwood St., Oakland. Architect—Not Given.
Contractor—Chas. S. Hughes Co., 474 Chetwood St., Oakland. \$1000

RESIDENCE

(81) MILLER AVE., Lots 30 and 31 Blk 26, North Cragmont Tract, BERKELEY. Two-story 7-room residence and garage.
Owner—James C. Thomas, 948 Hilldale Ave., Berkeley. Architect—E. L. Snyder, 2102 Addison St., Berkeley.
Contractor—Geo. Windsor, 928 Klings-ton Ave., Piedmont. \$5000

DWELLING

(82) NO. 936 FORTY-SIXTH ST., OAKLAND. One-story 4-room dwelling.
Owner—Primo Delu, 8314 E-14th St., Oakland. Architect—Not Given.
Contractor—J. C. James, 8314 E-14th St., Oakland. \$2400

ADDITIONS

(83) FOOT OF UNIVERSITY AVE., BERKELEY. Additions (canopy for warehouse at Municipal wharf)
Owner—City of Berkeley. Architect—Not Given.
Contractor—W. V. Bernard, 3045 Humboldt Ave., Oakland. \$1126

SAN FRANCISCO UNDER \$1000

ADD to dwelling, \$150; 1354 Galvez; owner, L. Malasoma, Premises.

REPAIR fire damage to dwelling, \$932; 140 Idora; owner, R. B. Cleghorn, % Contractor; contractor, I. W. Coburn, 2048 Market St.

ALTER garage, \$50; 2511-13 Sacramento St.; owner, J. Crowley, 2513 Sacramento.

SIGN, electric, \$200; 201 Jones St.; owner Coca Cola Co., % 201 Jones St.; contractor, QRS Neon Corp., 690 Potrero Ave.

ERECT frame triangulation station, \$210; First and Harrison Sts.; owner, State of California; contractor, F. Legg, 524 Haight St.

ALTER dwelling, \$490; 756 24th Ave.; owner, G. B. Acton, 756 24th Ave.; contractor, P. Andersen 2471 26th Ave.

SIGN, electric, \$200; 397 Ellis St.; owner, Coca Cola Co., % 397 Ellis St.; contractor, QRS Neon Corp., 690 Potrero Ave.

DWELLING, \$700; N Tioga 175 E Rutland St.; owner, J. G. Nicholas, 1739 Newcomb St.

ALTER store, \$75; 49 Taylor Street; owner, A. Wilson, Financial Center Bldg.

SIGN, electric, \$200; 1301 Market St.; owner, Coca Cola Co., % 1301 Market St.; contractor QRS. Neon Corp., 690 Potrero Ave.

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
28	P. T. & T. Co.	McDonald	6996
29	Emporium	Cahill	2618
30	Emporium	Empire	5287
31	Emporium	Parker	52930
32	Theodos	Murer	2025
33	Peterson	Johanson	7000
34	Lennon	Peterson	2620

ADDITION

(28) SW BUSH and Larkin Streets; two stories and basement of an ultimate 5-story and basement addition to existing building, known as Graystone office.

Owner—Pacific Telephone & Telegraph Company, 140 New Montgomery.

Building Engineer—E. V. Cobby; R. I. Blake, equipment and building engineer; G. H. Senger, chief engineer.

Contractor—MacDonald & Kahn, Ltd., Financial Center Bldg.

Filed Mar. 17, '33. Dated Mar. 13, '33.

1st of each month and at completion.....75%

40 days after completion.....25%

TOTAL COST, \$6996.00

Bond, \$6996. Sureties, Massachusetts Bonding & Ins. Co. Limit, 14 days. Plans and Spec. filed.

BRIDGE

(29) JESSIE ST. bet. The Emporium 3rd floor and the Hulse-Bradford Bldg. 4th floor; construct steel & concrete bridge.

Owner—The Emporium, 835 Market. Plans by Owner.

Contractor—Cahill Bros., 206 Sansome Street.

Filed Mar. 17, '33. Dated Mar. 15, '33.

1st and 15th of each month, 75% of value of work during preceding two weeks.

On completion, balance to make 75% of contract price.

Usual 35 days, 25%.

TOTAL COST, \$2618

Bond, \$2618. Sureties, U. S. Guarantee Co. Limit, April 30, 1933. Plans and Spec. filed.

ALTERATIONS & ADDITIONS

(30) JESSIE ST. bet. 4th and 5th; alterations and additions to Red Cross warehouse and additions to 3rd floor of Hulse-Bradford Bldg.

Owner—The Emporium, 835 Market. Architect—Not Given.

Contractor—Empire Const. Co., Ltd., Shell Bldg.

Filed Mar. 18, '33. Dated Mar. 17, '33.

1st and 15th of each month, 75% of work of preceding two weeks.

Balance of 75% of contract price on completion.

Usual 35 days, 25%.

TOTAL COST, \$5287

Bond, \$5287. Sureties, U. S. Guarantee Co. Limit, April 15, 1933. Plans and Spec. filed.

BUILDING

(31) JESSIE ST. bet. 4th and 5th; construction of 1-story and basement steel and concrete Class A building and a 2-story steel and wood bridge and certain alterations to adjoining existing bldgs.

Owner—The Emporium, 835 Market. Plans by Owner.

Contractor—K. E. Parker Co., 135 So. Park.

Filed Mar. 18, '33. Dated Mar. 17, '33.

Fifth of each month.....75%

Usual 35 days.....25%

TOTAL COST, \$52,930

Bond, \$52,930. Sureties, U. S. Guarantee Co. Forfeit, \$200 per day. Limit, May 25, 1933. Plans and Specifications filed.

ALTERATIONS & ADDITIONS

(32) NW THOMAS AVENUE 275 SW Lane SW 25 x NW 100 being the SW 25 ft. of lot 12 blk 367 South San Francisco Hd. & R. R. Assn.; all work for alterations and additions to dwelling.

Owner—John Theodos, premises. Architect—G. A. Berger, 309 Valencia

Contractor—L. Murer, 1815 Mason St. Filed Mar. 18, '33. Dated, Mar. 16, '33.

Frame up, roof on.....\$600

Completion.....825

Usual 35 days.....600

TOTAL COST, \$2025

Bond, \$1000. Sureties, Frank Neely and A. S. Glacomini. Forfeit \$5 per day. Limit, 75 days. Plans and Spec. filed.

DWELLING

(33) E RETIRO WAY 150 N Beach; two-story and basement frame dwelling.

Owner—Gust L. Peterson, 12 Montezuma.

Architect—Not Given. Contractor—Einar E. Johanson, 414 Mission Street.

Filed Mar. 18, '33. Dated, Mar. 1, '33.

Payment in full on completion.

TOTAL COST, \$7000

Limit, 90 days.

ALTERATIONS & ADDITIONS

(34) 2340 WASHINGTON ST.; alterations and additions to residence, etc.

Owner—Katherine M. Lennon, care architect.

Architect—J. E. Krafft & Sons, Phelan Building.

Contractor—Einar C. Petersen, 1290 Hayes Street.

Filed, Mar. 18, '33. Dated, Mar. 15, '33.

Frame of garage up and work on residence completed.....\$982.50

Completion.....982.50

Usual 35 days.....655.00

TOTAL COST, \$2620.00

Bond, \$1310. Sureties, N. A. Petersen and B. Martin. Forfeit, \$5 per day. Limit, April 25, 1933. Plans and Spec. filed.

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
10	Mills	Schuler	3200
11	Vogel	Holyoake	2500
12	Clty of Berkeley	Bernard	1226

BLEACHERS, ETC.

(10) MILLS COLLEGE near Seminary Ave. and Mountain Blvd. All work for bleachers and shelter.

Owner—Mills College, Premises. Architect—W. H. Ratcliff, Chamber of Commerce Bldg., Berkeley.

Contractor—Schuler & McDonald, Inc., 1723 Webster St., Oakland.

Filed March 21, '33. Dated March —

On completion.....75%

Usual 35 days.....25%

TOTAL Cost, \$3200

Bond, \$3200. Surety, National Surety Co. Limit, April 15, 1933. Forfeit, \$10 per day. Plans and specifications none.

DWELLING

(11) TELEGRAPH ROAD AND A St., Eden Township (near Hayward). All work for dwelling, garage and poultry house.

Owner—Frederick and Elizabeth J. Vogel, 3046 Wheeler St., Hayward.

Architect—A. Holyoake, 2839 East Ave., Hayward.

Contractor—Arthur Holyoake, Hayward.

Filed Mar. 21, '33. Dated Mar. 15, '33.

Roof on.....\$625

Rough plaster completed.....625

When completed.....625

Usual 35 days.....625

TOTAL COST, \$2500

Bond, none. Limit, 75 working days

after March 16. Forfeit, none. Plans and specifications filed.

CANOPY

(12) FOOT OF UNIVERSITY AVE., Berkeley. All work for wooden canopy attached to existing warehouse.

Owner—City of Berkeley. Architect—Not Given.

Contractor—W. Vernon Bernard, 3045 Humboldt Ave., Oakland.

Filed Mar. 22, '33. Dated Mar. 20, '33.

Completed and accepted.....75%

Usual 35 days.....25%

TOTAL COST, \$1126

Bond, \$563. Sureties, American Employees Ins. Co. Limit, start within 5 days; complete in 25 working days. Forfeit, none. Plans and specifications filed.

SONOMA COUNTY

DWELLING

LOTS 61 AND 62, East Monte Rio Addition. All work for one-story and basement frame dwelling and garage.

Owner—M. T. and Mary F. Hughes, 1346 Pine St., San Francisco.

Architect—Chas. J. Rousseau, 1990 California St., San Francisco.

Contractor—Harvey H. Chinnock and Sam Swindler, Sebastopol.

Filed Mar. 18, '33. Dated Mar. 17, '33.

Inclosed and ready to roof...\$582.75

Roof and interior finish on and windows glazed and hung...582.75

Completed and accepted.....582.75

Usual 35 days.....582.75

TOTAL COST, \$2331.00

Bond, none. Limit, 50 working days from March 20, 1933. Forfeit, none. Plans and specifications filed.

ALAMEDA COUNTY UNDER \$1000

ALTER service station, \$500; 1723 Webster St., Alameda; owner, Standard Oil Co., Premises; contractor, Lindgren & Swinerton, Financial Center Bldg., Oakland.

ADDITION, \$150; 2924 Benvenue Ave., Berkeley; owner, Mrs. Marcheson, 2924 Benvenue Ave., Berkeley; contractor, H. C. Kiddi.

ADDITION, \$250; 1505 34th Ave., Oakland; owner and contractor, St. Joseph's Monastery, 1505 34th Ave. Oakland.

ALTERATIONS, \$275; SW Cor. 26th and Broadway, Oakland; owner, J. and A. Abrahamson, 1744 Broadway, Oakland; contractor, W. C. Cone, 1744 Broadway, Oakland.

ADDITION, \$100; 4022 Patterson Ave., Oakland; owner and contractor, L. A. Spence, 4022 Patterson Ave.

GARAGE, one-story, \$100; 1918 62nd Ave., Oakland; owner, B. B. Hook 3700 Balfour St.

GARAGE, \$110; 1133 Channing Way, Berkeley; owner, F. T. Cocker, Prem.; contractor, A. Lindgren, 2334 Curtis St.

REPAIR roof sign, \$300; 3028 Liese Ave., Oakland; owner, Allendale Theatre, Premises; contractor, Brumfield Elec. Sign Co., 965 Folsom St., San Francisco.

ALTER heating plant, \$350; NW 14th and Harrison Sts., Oakland; owner, William Frisbie Lewis Co., 306 14th St.; contractor, Linford Heating Co., 1101 7th Ave.

ALTERATIONS, \$146; 1306 Harmon St., Berkeley; owner, Mr. Cocchi; contractor, A. A. Haskell, 255 Piedmont Way, Oakland.

ALTERATIONS and additon to rear porch, \$350; 101 Tunnel Rd., Berkeley; owner, A. F. Skulfe, 101 Tunnel Road, Berkeley; contractor, W. H. Swonk, 101 Suter St., Berkeley.

BUILDING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

- | | |
|---------------------------------|---|
| 1.—Apartments | 11.—Ice and Cold Storage Plants |
| 2.—Bonds | 12.—Power Plants |
| 3.—Churches | 13.—Public Buildings, Fire Houses and Jails |
| 4.—Factories and Warehouses | 14.—Residences |
| 5.—Flats | 15.—Schools |
| 6.—Garages and Service Stations | 16.—Banks, Stores and Offices |
| 7.—Government Work and Supplies | 17.—Theatres |
| 8.—Club Buildings | 18.—Wharves & Docks |
| 9.—Hospitals | 19.—Misc. Const. |
| 10.—Hotels | 20.—Misc. Supplies & Materials |

1—APARTMENTS

LOS ANGELES, Cal.—Contracts for furnishing lead covered cable under Spec. No. 2999, were awarded by A. J. Holm, City Purchasing Agent, March 9, as follows:

Items (1) to (5) to General Cable Corp. at \$28,640 (est. total).

Item (3) to General Electric Corp., at \$14,928 (est. total).

Item (2) and item (8) to John A. Roebing's Sons Co., at \$3797 (estimated total).

Items (4) and (6) to Anaconda Wire & Cable Co., at \$5031 (est. total).

Items (7) (9) and (10) to Habirshaw Cable and Wire Corp., at \$3848 (est. total).

The items are:

- | | |
|--|-----|
| (1) 10,000 ft. 500,000 C.M., 5000-volt, 3-conductor, lead-covered paper insulated cable; | |
| (2) 6000 ft. No. 6 A.W.G. | do; |
| (3) 10,400 ft. 500,000 C.M., | do; |
| (4) 5000 ft. 2/0 A.W.G. | do; |
| (5) 10,000 ft. 500,000 C.M., | do; |
| (6) 2000 ft. 1,000,000 C. M., 60-volt, 1-conductor, lead-covered, paper insulated cable; | |
| (7) 10,500 ft. 4/0 A.W.G. | do; |
| (8) 10,000 ft. 1/0 A.W.G. | do; |
| (9) 10,000 ft. No. 4 A.W.G. | do; |
| (10) 12,000 ft. No. 6 A.W.G. | do. |

Plans Being Completed.

APARTMENTS Cost, \$30,000

SAN FRANCISCO. Nob Hill District.

Three-story and basement and sub-basement frame and stucco apartments (Class C basement and sub-basement) tar and gravel roof, oil burner, steel sash, canvas walls, tiled baths, kitchens and showers, glass shower doors, refrigeration, etc.) Modernistic style

Owner—Withheld.

Architect—Irvine & Ehbets (R. R.

Irvine, architect), 2048 Market St.

Bids will be taken from a selected

list of contractors in about one week.

Bids In—Held Under Advlsement.

APARTMENTS, ETC. Cost, \$3000

HAYWARD, Alameda Co., Cal. Castro

Valley Blvd.

Two-story frame and stucco apart-

ments ad stores (1 apart. and 1

store).

Owner—H. W. Clear, Castro Valley

Road, Hayward.

Plans by Owner.

Contracts Awarded.

REMODEL APTS. Cost, \$12,000

SAN FRANCISCO. NE Bush and

Powell Streets.

Remodel five-story and basement con-

crete apartment building (new

plumbing, wiring and heating, tile

work, painting, hardwood floors, linoleum, ranges, etc.)

Owner—Samuel Gerson.

Architect—S. Heiman, 655 Market St., San Francisco.

Plumbing, Wiring and Heating—Frank J. Klimm, 456 Ellis St., S. F.

Title—Art Tile & Mantel Co., 221 Oak St., San Francisco.

Carpentry and Painting—Being done by day's work.

Bids now being taken on hardwood flooring, linoleum and ranges.

Contract Awarded.

APARTMENTS Cost, \$20,000

SAN FRANCISCO. N West Portal W

Fourteenth Avenue.

Three-story and basement frame and

stucco apartments (12 2- and 3-

room apts.); tile and composition

roof, fireplaces, steam heating system,

hardwood floors, tile baths,

electric refrigeration, etc.

Owner—Mrs. F. Nelson.

Architect—H. C. Baumann, 251 Kear-

ny St., San Francisco.

Contractor—San Francisco Constr. Co.,

3159 Fillmore St., San Francisco.

General contract does not include

plumbing, heating or painting. Bids

on these portions of the work are in

and will be awarded shortly.

To Be Done By Day's Work.

ALTERATIONS Cost, \$7000

SAN FRANCISCO. NW Filbert and

Webster Streets.

Alterations to residence for apart-

ments.

Owner—G. Pardini, 2102 Filbert St.,

San Francisco.

Plans by A. Frascina, % Owner.

2—BONDS

LOS ANGELES, Cal.—Board of Education has requested county supervisors to advertise the immediate sale of \$680,000 worth of school bonds to take care of emergency arising from earthquake damage. The sale will include the following: \$141,000 worth of Los Angeles city school district (elementary) bonds; \$155,000 worth of Los Angeles city high school bonds, turities,

and \$384,000 worth of Los Angeles city high school bonds, with varying ma-

3—CHURCHES

Contract Awarded.

CHURCH Cont. Price, \$3,833

PLACERVILLE, Eldorado Co., Calif.

One-story frame and brick veneer

church (to seat 100) shake roof,

hardwood floors, etc.

Owner—Christian Science Church.

Architect—George Sellon, California

State Life Bldg., Sacramento.

Contractor—J. P. Morton, 3 Cottage

Ave., Placerville.

Preliminary Plans Completed.

REBUILD Cost, \$—

SAN FRANCISCO. 2475 California St.

Rebuild structure recently destroyed

by fire for frame gymnasium.

Owner—St. Paul's Episcopal Church

(Rev. Leslie C. Kelly, pastor).

Architect—Arnold Constable, 530 Mar-

ket Street.

Plans Being Revised.

ADDITION Cost, \$3000

SAN FRANCISCO. No. 750 25th Ave.

Frame addition to Jewish Synagogue

(raise roof, add social rooms, etc.)

Owner—Chebra Thilim.

Architect—J. Lloyd Conrich, 815 25th

Ave., San Francisco.

Bids will be taken from a selected list of contractors within a few days.

LONG BEACH, Los Angeles Co., Cal.—Catholic institutions in Long Beach damaged by the earthquake on March 10 are reported as follows:

St. Anthony's church, rectory and school buildings damaged to the extent of about \$300,000; all buildings will have to be rebuilt.

St. Mary's Hospital; badly damaged.

St. Matthew's parish school badly

damaged; probably have to be rebuilt;

St. Matthew's church also damaged.

Holy Innocents church and rectory

damaged.

Our Lady of Guadalupe church and

rectory damaged.

Mt. Carmel church and rectory

damaged.

St. Athanasius church and rectory

damaged.

4—FACTORIES & WAREHOUSES

SAN DIEGO, Cal.—The Aztec Brewing Company of San Diego, Herbert L. Jaffe, E. P. Baker and I. Wiks, directors, all of San Diego, will start work shortly on remodeling and equipping the old Savage Tire company plant on

Main St., San Diego, for brewing pur-

poses. The tire plant was purchased

by the Aztec company several months

ago. At the outset the brewery will

have a capacity of 100,000 barrels a

year, to be increased until the plant

has an annual output of 300,000 bar-

rels. Richard Grieser, Chicago archi-

tect and engineer, is preparing plans

for the plant.

Construction To Start Shortly.

BREWERY Cost, \$—

SEATTLE, Wash. Site not selected.

Brewery plant.

Owner—Northwest Brewing Company

(Peter Marinoff, president, Vance

Bldg., Seattle.)

Architect—Not Given.

Contractor—R. M. Grant, Tacoma.

Contract Awarded.

WAREHOUSE, ETC. Cost, \$52,930

SAN FRANCISCO. Jessie Street bet.

4th and 5th Sts.

One-story and basement Class A steel

frame and concrete warehouse (100

by 160) concrete floors, etc., and

two story steel and wood bridge and

certain alterations to adjoining

existing buildings.

Owner—The Emporium, 835 Market.

Plans by Eng. Dept. of Owner.

Contractor—K. E. Parker Co., 135 So.

Park.

Contract Awarded.

REPAIRS Cost, \$—

LONG BEACH, Los Angeles Co., Cal.

Sixth and Pine Streets.

Reconstruct 4-story steel frame and

brick newspaper building.

Owner—Long Beach Press-Telegram.

Architect—Not Given.

Contractor—R. E. Campbell, Central

Bldg., Los Angeles.

A steel water tank fell through sev-

eral floors of the building, causing

considerable damage.

Contract Awarded.

ALTERATIONS Cost, \$4000

SAN FRANCISCO. No. 548 Fifth St.

Alterations to warehouse and offices.

Owner—McCreery Estate Co., Alex-

ander Bldg., San Francisco.

Architect—Not Given.

Contractor—George Wagner, 181 South

Park, San Francisco.

Bids Wanted—To Close Apr. 6, 2 P. M.
SHED EXTENSION Cost, \$—
SAN FRANCISCO, Pier No. 35.
 84-ft. shed extension to Pier No. 35 (wood construction, passenger gallery along side of existing shed; offices, etc.)
 Owner—State of California (Harbor Commission).
 Engineer—Frank G. White, Ferry Building.

Contract Awarded.
ADDITION Cost, \$1500
SACRAMENTO, Sacramento Co., Cal.
 2030 Q Street.
 Addition to building.
 Owner—Home Milk Co., 1700 21st St., Sacramento.
 Architect—Not Given.
 Contractor—Holdener Const. Co., 2608 R St., Sacramento.

VERNON, Los Angeles Co., Calif.—
 Pennsylvania Iron & Steel Co., 2308 Santa Fe Ave., awarded contract for fabrication and erection of all structural steel for brewing plant to be built at Santa Fe Ave. and 52nd St., Vernon, for the Vernon Brewing Co. Work is being done under the supervision of F. A. Link, 917 1/2 Dos Robles Place, Alhambra.

Preparing Plans.
PLANING MILL Cost, \$—
EMIGRANT GAP, Placer Co., Calif.
 Planing mill (mill frame construction, galvanized iron cover).
 Owner—Tahoe Sugar Pine Lbr. Co., Monadnock Bldg., San Francisco.
 Engineer—W. H. Beane, Klamath Falls, Oregon.
 Construction will be done by owner's own forces.

Plans Completed.
BREWERY Cost, \$90,000
CLE ELUM, Washington.
 Brewery (concrete construction, storage cellars with hollow tile walls, insulation, etc.)
 Owner—Cle Elum Brewing Co. (Jos. Schober, Mayor of Cle Elum, in charge).
 Engineer—Brewery Engineering Corp. E. J. Dailey, 816 Second Ave., Seattle, Wash.)

Plans Being Prepared.
BREWERY Cost, \$250,000
SACRAMENTO, Sacramento Co., Cal.
 Sixteenth St. (7 acre site).
 Modern brewery (brick construction) Spanish and Mission style of architecture (capacity of 300 barrels per day).
 Owner—William Dreher, 509 N. 10th St., Sacramento.
 Architect—Selected, Withheld.
 Bids will be asked at a later date. Financing arrangements are now being completed.

LOS ANGELES, Cal. — Architect Raymond R. Shaw, 1610 Cosmo St., is preparing preliminary plans for a brewery to be erected in Los Angeles for the Don Carlos Brewing Co. The concern filed articles of incorporation with the secretary of state last December, carrying a \$1,500,000 capital authorization.

Grading Contract Awarded.
WAREHOUSE, ETC. Cost, \$52,930
SAN FRANCISCO, Jessie Street bet. Fourth and Fifth Sts.
 One-story and basement Class A steel frame and concrete warehouse (100 by 160 ft.) concrete floors, etc., and two-story steel and wood bridge and certain alterations to adjoining existing building.
 Owner—The Emporium, 835 Market St., San Francisco.
 Plans by Engineering Dept. of Owner.
 Contractor—K. E. Parker Co., 135 South Park, San Francisco.

Grading—Sibley Grading & Teaming Co., 165 Landers St., San Francisco. Other awards will be made in about one week.

Site Selected.
PLANT Cost, \$45,000
VISALIA, Tulare Co., Cal. Ben Madrox Way (10 acre tract).
 Walnut processing plant.
 Owner—Sequoia Walnut Growers' Association (Fletcher Ayres, president, Visalia).
 Architect—Not Selected.

OAKLAND, Alameda Co., Cal.—
 Central California Roads Company, 2779 Poplar St., Oakland, at \$7600 submitted low bid to City of Oakland Port Commission, for repairs to floors of the second unit of Terminal Building "B." Following bids received
 Central California Roads Co., Oakland, \$7,600
 E. T. Lesure, Oakland, 7,660
 J. H. Fitzmaurice, Oakland, 8,556
 Nat Lena, Oakland, 8,834
 Schnoor Bros., Oakland, 8,955
 Lee J. Immel, Berkeley, 9,071
 R. W. Littlefield, Oakland, 10,430
 C. Dudley DeVelbiss, S. F., 11,226
 Bids held under advisement.

Contract Awarded.
REPAIRS Cost, \$200,000
LOS ANGELES, Los Angeles Co., Cal.
 6701 S. Central Avenue.
 Repair factory buildings (work involves brick and concrete work, repair walls, beams, fire walls and corners, etc.)
 Owner—Goodyear Tire & Rubber Co., Premises.
 Plans by Engineering Dept. of Owner.
 Contractor—Myers Brothers, 3407 San Bernardo Road, Los Angeles.

Plans Being Prepared.
MFG. PLANT Cost, \$800,000
ELMHURST, Alameda Co., Cal. Jones Avenue.
 Manufacturing plant (2-story reinforced concrete structure).
 Owner—Standard Brands, Inc., 595 Madison Avenue, New York City, New York.
 Engineer—G. J. Patitz, 595 Madison Ave., New York City.
 It is expected bids will be asked shortly. Previously reported as being figured, which was in error.

Plans Being Completed.
PLANT Cost, \$50,000
SAN FRANCISCO, Washington St.
 Two-story reinforced concrete printing plant.
 Owner—Edward Barry Co., 32 Clay St., San Francisco.
 Architect—H. A. Minton, 525 Market Street.
 Engineer—L. H. Nishkian, 525 Market Street.
 Bids will be asked in about one week.

6—GARAGES & SERVICE STATIONS

Plans Being Figured.
SERVICE STATION Cost, \$15,000
BERKELEY, Alameda Co., Cal. Vine and Shattuck Ave.
 Masonry super service station.
 Owner—Standard Oil Co., 225 Bush St., San Francisco.
 Plans by Eng. Dept. of Owner.

Planned.
SERVICE STATION Cost, \$—
NAPA, Napa Co., Calif. Brown and Pearl Streets.
 Modern service station.
 Owner—Asil Callan, 1111 Pearl St., Napa.
 Architect—Not given.

Contract Awarded.
ALTERATIONS Cost, \$—
MARYSVILLE, Yuba Co., Calif. S.W. Fifth and E Streets
 Alterations and additions to gasoline service station.
 Owner—Standard Oil Co., 225 Bush St., San Francisco.
 Plans by Engineering Department of Owner.
 Contractor—W. C. Burroughs, Marysville.

Contract Awarded.
GARAGE Cont. Price, \$2620
SAN FRANCISCO, Adjacent to No. 2340 Washington Street.
 One-story frame garage with roof garden.
 Owner—K. M. Lennon, % Architect.
 Architect—J. E. Krafft & Sons, Pheasant Bldg., San Francisco.
 Contractor—Einar C. Petersen, 1290 Hayes St., San Francisco.

7—GOVERNMENT WORK AND SUPPLIES

MARE ISLAND, Cal.—All bids have been rejected by Bureau of Yards and Docks, Navy Department, for the erection of a complete antenna system at the U. S. Naval High Power Radio Station at Mare Island. On bid opening lowest bid was submitted by Severin Electric Company, San Francisco, at \$12,889. New bids may be asked at a later date under a different schedule number.

WASHINGTON, D. C.—Phoenix Day Co., 729 Mission St., San Francisco, at \$2900 submitted low bid to Treasury Department, for furnishing and installing lighting fixtures in the U. S. Post Office and Court House in San Francisco. Following are three low bids:
 Phoenix Day Co., S. F., \$2900
 Severin Elec. Co., S. F., 3111
 Ed. F. Guth, St. Louis, Mo., 3135
 Complete list of bids will be published shortly.

WASHINGTON, D. C.—Moe Bridges Company, 236 Broadway, Milwaukee, at \$480 submitted low bid to Treasury Department, for furnishing and installing interior fixtures at the U. S. Post Office, in Oregon City, Oregon. Complete list of bids will be published shortly.

WASHINGTON, D. C.—As previously reported, Otis Elevator Co., 1 Beach St., San Francisco, at \$24,236 submitted low bid to Treasury Department for installing complete elevator plant in the U. S. Post Office at Phoenix, Arizona. Second low bid was submitted by Houghton Elevator & Machine Co. at \$25,890.

VISALIA, Tulare Co., Cal.—Murch Bros. Const. Co., St. Louis, awarded the plumbing and heating contract to Lohman Bros., 232 S Spring St., Los Angeles, in connection with the construction of the one-story and basement post office building in Visalia.
 The building will be a one-story and basement structure, 125x80-ft. in area, with concrete foundations, brick and terra cotta tile walls and partitions, structural steel, metal skylights, vaults, brick and terra cotta exterior, wrought iron railings, granite base course, concrete floors with terrazzo, wood block and cork carpet surfaces, brick and marble wainscoting, damp-proofing, hollow metal work metal trim, composition roofing, asphalt block paving, bronze or copper screens, lawn sprinkler system, 1-pipe low pressure steam heating system, etc. W. D. Coates, Jr., architect, 626 Rowell Bldg., Fresno.

SEATTLE, Wash.—Western Venetian Blind Co., 2700 Long Beach Blvd., Los Angeles, submitted low bid to the Treasury Department at \$4,421, for Venetian blinds for 610 window openings, 191 transoms and 12 circle heads at Seattle; Proposal 5766.

CARPINTERIA, Santa Barbara Co., Cal.—Federal Equipment Co. awarded contract by Post Office Department at \$995 for furnishing screenline equipment and furniture for the Carpinteria post office.

HONOLULU, T. H.—L. K. Igarashi, Honolulu, awarded a contract by the Lighthouse Service, at \$19,431 for constructing tower foundation and frame dwelling at Honolulu; Proposal 34.

SUNNYVALE, Santa Clara Co., Cal.—Until April 4, 11 A. M., bids will be received by Public Works Officer, 12th Naval District, 100 Harrison St., San Francisco, for additional telephone facilities at the Naval Air Station, Sunnyvale. Specification No. 7258. Work includes provision and installation of a 50 pair telephone cable in existing duct system and additional conduit work within the hangar. Plans and specifications available from above office upon deposit of \$5.

VISALIA, Tulare Co., Cal.—Murch Bros. Construction Co., Railway Exchange Bldg., St. Louis, awarded the excavation contract to Orval Jeffries of Porterville in connection with the construction of the U. S. Post Office to be erected in Visalia.

REDLANDS, San Bernardino Co., Cal.—North Moller Co., Jackson, Michigan, awarded the excavating, filling grading, etc., to Redlands Gravel Company, 2 Orange St., Redlands, in connection with the construction of the Post Office building to be erected in San Bernardino. Cost, \$104,980. G. Stanley Wilson, 2646 W. 9th Street, Riverside, architect.

Plans To Be Prepared.
POST OFFICE Cost, \$70,000
REDWOOD CITY, San Mateo Co., Cal.
Adjoining Civic Center.
Post Office.
Owner—United States Government.
Architect—Not Selected.

Bids Being Taken.
POST OFFICE Cont. Price, \$169,000
LONGVIEW, Washington.
Class A post office.
Owner—United States Government.
Architect—Bebb & Gould, Hoge Bldg., Seattle.
Contractor—A. M. Lundbergh, Railway Exchange Bldg., St. Louis.
Roberts, Skeel & Holman, 1301 Alaska Commercial Bldg., Seattle, attorneys for the Maryland Casualty Co., bonding company for A. M. Lundbergh general contractor, are receiving the bids for the completion of the Longview post office. Building is about 40 per cent completed.

PORTLAND, Oregon.—Liesch and Tofte, Marshfield, Oregon, at \$164,500.50 awarded contract by U. S. Engineer Office to construct a wharf, marine, dolphins, trestle, land trackage, two axial dikes, revetment and two piles and stone dikes at Sand Island, in Columbia River, about ten miles below Astoria.

MARCH FIELD, Riverside Co., Cal.—California Steel Products Co., San Francisco, awarded contract by Contracting Officer, Quartermaster Corps, March Field, at \$697, for furnishing and erecting a swaged, sectional copper-bearing tubular steel flagpole; Circular 40.

WASHINGTON, D. C.—Johnson Metal Products Co., 2539 Pennsylvania Ave. N. W., Washington, D. C., at \$4750 submitted low bid to Treasury Department, for furnishing and installing insect screens in the U. S. Marine Hospital, San Francisco. Complete list of bids will be published shortly.

PORT ORFORD, Oregon — Yuhasz & Olsen, 4174 Connecticut Street, Gary, Indiana, receiving sub-bids in connection with the construction of a large dwelling to house officers' quarters, etc., laundry storm clothes room, storage rooms, toilets, showers, etc., two-story and basement frame boat house (60x36 ft.) 283 foot launchway concrete piers and trackage for life boats; frame garage (46x24 feet) two-story cottage (34x27 feet) reinforced concrete reservoir, (14x12 feet); pump house, (10x12 ft.) water supply system, standard look-out tower, etc., at Port Orford, Oregon.

The contractors will be located in Port Orford in about three weeks.

WASHINGTON, D. C.—Otis Elevator Co., 1 Beach St., San Francisco at \$24236 submitted low bid to Treasury Department for installing complete elevator plant in the U. S. Post Office at Phoenix Arizona. Complete list of bids will be published shortly.

SUNNYVALE, Santa Clara Co., Cal.—Dinwiddle Construction Company, Crocker Bldg., San Francisco, awarded the following sub-contracts in connection with the construction of a balloon hangar at the U. S. Naval Air Station, Sunnyvale. Work includes concrete steel and iron work, steel doors and windows, built-up roof, metal studding and lathing, carpentry, joinery, plumbing and electrical systems. Specification No. 7024.

Structural Steel—Moore Dry Dock Co., Balfour Bldg., San Francisco.

Door Operating Machinery—Baldwin & Butler, 620 Cragmont Ave., Berkeley.

Reinforcing Steel — W. S. Wetenhall, 17th and Wisconsin Sts., S. F.

Roofing—Fred Hayden, 369 Stockton Ave., San Jose.

Preparing Plans.
EXTENSION Cost, \$—
SAN FRANCISCO. Presidio.
Extend San Francisco National Cemetery (approximately 5 acres); work involves clearing site, grading, asphaltic concrete roads, water system, drainage system, boundary walls, new entrance gate, etc.

Owner—United States Government.
Plans by Constructing Quartermaster, Fort Mason, San Francisco.

Bids will be asked shortly for the clearing of the site which involves removing of eucalyptus trees and heavy timber which will go to the bidder.

SUNNYVALE, Santa Clara Co., Cal.—Minton Co., Mt. View, awarded contract for 60 garage doors for garages at the U. S. Naval Air Station, Sunnyvale.

Sub-Contract Awarded.
ADDITION Cost, \$625,530
SAN FRANCISCO. Seventh and Mission Streets.

Four-story Class A reinforced concrete addition to Post Office (granite exterior).

Owner—United States Government.
Architect—Geo. W. Kelham, 315 Montgomery St., San Francisco.

Contractor—Lindgren & Swinerton, Inc., 225 Bush St., San Francisco.

Glazed Terra Cotta Tile — Krafttile Co., 525 Market St., San Francisco. Other awards previously reported.

SAN FRANCISCO—M. B. McGowan, 74 New Montgomery St., at \$1945 submitted low bid to Constructing Quartermaster, Fort Mason, for the construction of a three hundred lineal foot timber and creosoted pile bulkhead extension along the bay shore at Crissy Field. Following bids received:

(1) each additional lineal foot of timber bulkhead in place.	
M. B. McGowan	\$1945
(1) \$9.80	
O'Neil & Legge	1950
(1) \$6.25.	
Duncanson & Harrelson	2196
(1) \$7.32	
Healy Tibbitts Constr. Co.	2306
(1) \$8.00.	
Butte Constr. Co.	2390
(1) \$79.00.	
A. W. Kitchen	2451
(1) \$8.17	
Clinton Stephenson Const. Co.	2487
(1) \$10.00	
Ben C. Gerwick	2516
(1) \$7.50.	
Pioneer Constr. Co.	2972
(1) \$10.00.	

Bids held under advisement.

WASHINGTON, D. C.—Until April 6 (date postponed from March 21) bids will be received by Treasury Department, Washington, D. C., for the construction of the U. S. post office bldg. in Phoenix, Arizona.

Building will be a 3-story structure, the original plan to take alternative proposals for a 6-story structure and for a 3-story structure having been abandoned. Will cover area of 195x163 ft.; steel frame construction, concrete and brick walls, tufa stone or terra cotta exterior, granite base course, clay tile roofing, hollow tile, vaults, asphalt block paving, waterproofing, miscellaneous and ornamental iron, bronze and hollow metal work, bronze windows, metal counters and cupboards, fire hose and first aid cabinets, mail chute, insulation, promenade tile, stucco, marble and slate work, tile, terrazzo, wood block linoleum, cork carpet, cork composition and rubber tile floors, acoustical treatment, acoustical plaster, cold storage doors, metal and glass partitions, metal covered doors, screens, lawn sprinkler system, ventilating and air-conditioning system, vacuum heating system, etc. The general contract includes all work except elevators. Lescher & Mahoney, architects, Title and Trust Bldg., Phoenix.

PEARL HARBOR, T. H.—Until May 10, 11 A. M., bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., for additions and alterations to the existing foam fire protection system and pump houses at the Naval Fuel Depot, Pearl Harbor, T. H. Specification No. 7068. Plans and specifications available from above office and from Commandant, 12th Naval District, 100 Harrison St., San Francisco, or from Commandant, 14th Naval District, Pearl Harbor, upon deposit of \$10.00.

WASHINGTON, D. C.—As previously reported, Walter G. Warren & Co., Chicago, at \$574 submitted low bid to Treasury Department for furnishing and installing interior lighting fixtures in the U. S. post office at Napa, Cal.

Following bids received:
Walter G. Warren Co., Chicago.....\$574
Moe Bridges & Co., Milwaukee..... 535
H. A. Framburg & Co., Chicago..... 655
Roberts Mfg. Co., S. F..... 885
Bids held under advisement.

WASHINGTON, D. C.—R. G. Whinery, 398 Lane Drive, Los Angeles, at \$10,217 submitted low bid to Bureau of Yards & Docks, Navy Department, for furnishing of telephone cables at the Naval Ammunition Depot, Oahu, T. H. Work involves the installation of five pair guaranteed cable underground for a total length of 7 miles. Specification No. 7023. Following bids received:

R. G. Whinery, Los Angeles.....\$10,217
 W. P. Thurston Co., Richmond, Virginia 16,200
 Hawaiian Electric Co., Honolulu, T. H. 16,690
 Newberry Elec. Co., S. F. 29,800
 Bids held under advisement.

Preparing Working Drawings.
 POST OFFICE Cost, \$120,000
 WHITTIER, Los Angeles Co., Calif. Washington Ave. and Bailey St. One-story and basement steel and masonry post office.
 Owner—United States Government.
 Architect—R. L. Warren, Emporium Bldg., Whittier.

WASHINGTON, D. C.—As previously reported, Walter G. Warren Co., 363 E Ohio St., Chicago, at \$487 submitted low bid to Treasury Department for furnishing and installing interior lighting fixtures at the U. S. post office in Vallejo. Following bids received:
 Walter G. Warren Co., Chicago.....\$487
 Moe-Bridges & Co., Milwaukee..... 575
 H. A. Framburg & Co., Chicago..... 590
 Roberts Mfg. Co., S. F. 900
 Bids held under advisement.

WASHINGTON, D. C.—As previously reported Cincinnati Fly Screen Co., Cincinnati, at \$3,900 submitted low bid to Bureau of Yards and Docks, Navy Department, for providing door, window and transom screens at the Naval Air Station, Sunnyvale, Spec. No. 7073. Following bids received:
 Cincinnati Fly Screen Co., Cincinnati, Ohio\$3,900
 Watson Mfg. Co., Jamestown, New York 3,998
 Automatic Tension Screen Co., Inc., 6235 South St., L. A. 4,150
 Ceco Weatherstrip and Screen Prod., 1926 S 52nd St., Chicago 4,170
 Hipolite Co., Los Angeles..... 4,175
 Kane Mfg. Co., Kane, Pa. 4,511
 Forderer Cornice Works, S. F. 4,565
 Johnson Metal Products Co., Washington, D. C. 4,700

PUGET SOUND, Oregon.—General Electric Co. was awarded the contract by the U. S. Bureau of Yards & Docks, March 15, at \$12,950 for a motor generator set for Puget Sound Navy Yard.

ALAMEDA, Alameda Co., Calif.—Until April 4, 2 P. M., bids will be received by C. H. Sweetser, district engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco, for erection of units 27, 28 and 29, fire hose houses on the United States 15-acre tract, Government Island, Alameda. Plans and specifications available from above office upon deposit of \$10.00.

SUNNYVALE, Santa Clara Co., Cal.—Until April 4, 11 A. M., bids will be received by Public Works Officer, 12th Naval District, 100 Harrison St., San Francisco, for additional docking facilities in airship hangar at the Naval Air Station, Sunnyvale. Specification No. 7264. Work includes milling lumber, fabrication of metal straps and the assembly, erection and fitting of the same on the structural steel frame of the airship hangar to afford points of suspension for cables. Plans and specifications available from the above office upon deposit of \$5.

COMPTON, Los Angeles Co., Cal.—Compton chamber of commerce has asked the government to make an immediate appropriation to purchase a site and erect a post office building in Compton. An allocation of \$125,000 for such a building was made by the Treasury Department in 1931. The building occupied by the Compton postoffice was destroyed by the earthquake on March 10.

Sub-Contract Awarded.
 QUARTERS Cont. Price, \$87,597
 SAN RAFAEL, Marin Co., Cal. (Hamilton Field.)

Eight double sets of non-commissioned officers' quarters (two-story and basement, hollow tile and stucco structure, tile roof, etc.)
 Owner—United States Government.
 Plans by Constructing Quartermaster, Hamilton Field (Marin Meadows), Bombing Base, San Rafael.
 Contractor—Frank J. Reilly, 6350 Fulton St., San Francisco.
 Grading—Johnson & Nelson, San Rafael.
 Lumber—Hess Lumber Co., San Rafael.
 Painting—Lee Dixon, 18 Eureka St., San Francisco.
 Plumbing—J. A. Fazio, 402 Castro St., Oakland.

WASHINGTON, D. C. — All bids were rejected by Veterans Administration, for constructing and finishing patio, garden walks, pool, etc., at the Veterans' Administration Building, Albuquerque New Mexico. Lowest bid was submitted by Robert E. McKee, El Paso, Texas, at \$9300.

WASHINGTON, D. C. — As previously reported, W. F. McCrea Co., 731 E. 8th St., Oakland, at \$469.74 submitted low bid to the Division of Supply, Treasury Department, for venetian blinds for 64 window openings and 10 circle heads for the Berkeley Post Office. Proposal No. 6051. Following bids received:
 W. F. McCrea, Oakland.....\$469.74
 D. N. & E. Walter Co., S. F. 532.75
 Bostwick-Goodell Co., Norwalk, Ohio 505.64
 Burlington Venetian Blind Co., Burlington, Vt. 593.00
 J. G. Wilson Corp., Norfolk, Va. 595.00
 Venetian Blind Service Co., Inglewood, Calif. 632.85
 E. L. Dehn Co., San Francisco.... 649.50
 Western Venetian Blind Co., Washington, D. C. 665.25
 Yardley Screen & Weather Strip Co., Columbus, Ohio..... 695.00
 Watson Mfg. Co., Jamestown, New York 779.00
 Acme Screen Co., Fort Worth, Texas 817.55
 Higgins Mfg. Co., Newport, Ky. 930.70

WASHINGTON, D. C.—Chamberlin Metal Weather Strip Company, 1254 La Crosse Street, Detroit, Michigan, at \$263, awarded contract by Treasury Department, Washington, D. C., for furnishing and installing insect screens in the U. S. Post Office at Nephi, Utah.

PEARL HARBOR, T. H. — Blake Palm Elevator Co., Washington, D. C. at \$8,500 awarded contract by Bureau of Yards and Docks, Navy Department, Washington, D. C., for freight elevators to be installed at the navy yard, Pearl Harbor.

LOS ANGELES, Cal. — Consolidated Steel Corp., Los Angeles, at \$23,000 awarded contract by State Department of Public Works, Sacramento, to furnish and install one gearless elevator in the State Office Bldg., Los Angeles.

Painting Contract Awarded.
 OFFICERS' QUARTERS
 Contract Price, \$114,574
 SAN RAFAEL, Marin Co., Cal. Hamilton Field.
 Twelve sets of officers' quarters (two story and basement hollow tile, and stucco structures; tile roof, cast stone, steel casement windows, gas fired hot water heating system, linoleum, plumbing, electrical work, etc.)
 Owner—United States Government.
 Plans by Constructing Quartermaster.
 Contractor—Meyer Bros., 727 Portola Drive, San Francisco.
 Painting—D. Zelinsky, 165 Grove St., San Francisco.

Plumbing and Heating Contracts Awarded.
 POST OFFICE Cost, \$125,000
 PORTERVILLE, Tulare Co., Cal. Class A Post Office.
 Owner—United States Government.
 Architect—H. R. Lake Pacific Southwest Bldg., Fresno.
 Contractor—Murch Bros. Constr. Co., Railway Exchange Bldg., St. Louis.
 Plumbing and Heating—Lohman Bros., 232 S. Spring St., Los Angeles.
 Other awards previously reported.

8—CLUB BUILDINGS

Preparing Plans.
 MEMORIAL HALL Cost, \$16,000
 RED BLUFF, Tehama Co., Calif.
 Remodel school for Veterans' Memorial (brick construction, 60x80-ft.) stucco exterior, maple flooring, ho stucco exterior, maple flooring, hot air heating system, composition roof.)
 Owner—County of Tehama.
 Architect—Dragon & Schmidts, Mercantile Bank Bldg., Berkeley.
 Bids will be asked in about 3 weeks.

Planned.
 CLUB Cost, \$—
 CHICO, Butte Co., Calif.
 New club building.
 Owner—Chico Art Club.
 Architect—Not Given.
 Building committee is comprised of S. K. Troxel, R. S. Watkins, Archie Bennett, George P. Morse and G. R. Snow.

Commissioned To Prepare Plans.
 LODGE BLDG. Cost, \$40,000
 FRESNO, Fresno Co., Cal. Tuolumne St. and Van Ness Avenue.
 Rebuild lodge hall (two-story structure with lodge hall to seat 800, 2 secondary lodge rooms, banquet hall to seat 300, new clubrooms, etc.)
 Owner—Woodmen of the World.
 Architect — Ernest J. Kump, Rowell Bldg., Fresno.
 Bids will be asked in about three weeks. Building committee is headed by G. H. Ball, T. W. Patterson Bldg., Fresno.

Sub-Contracts Awarded.
 ALTERATIONS Cost, \$2500
 OAKLAND, Alameda Co., Calif. 1441 Franklin Street.
 Alterations to club.
 Owner—University Club, Jackson and Lake Sts., Oakland.
 Plans by Jack Minchin, 954 12th St., Oakland.
 Contractor—Geo. Swanstrom, 1615 78th Ave., Oakland.
 Plumbing—Scott Co., 113 10th Street, Oakland.
 Electric—Scott - Buttner Electric Co., 19 Grand Ave., Oakland.
 Plastering—Chas. Burnet, 865 32nd St., Oakland.
 Painting, glass, hardwood flooring, and tile contracts will be awarded shortly.

Planned.
LODGE Cost, \$—
CROCKETT, Contra Costa Co., Cal.
 New lodge building.
 Owner—I. D. E. S. Lodge (Manuel R. Serpa), Crockett, member of the board.
 Architect—Not Selected.
 More definite information will be given in about two weeks.

Fixture Contract Awarded.
COMMUNITY CENTER
 Contract Price, \$150,512
SAN FRANCISCO, California St. and Presidio Avenue.
 Two-story and basement reinforced concrete community center.
 Owner—Jewish Community Center, S. M. Ehrman, chairman, 68 Post St.
 Architect—Hyman & Appleton, 68 Post St., and Arthur Brown, Jr., 251 Kearny St.
 Contractor—Barrett & Hill, 918 Harrison Street.
 Fixtures—Incandescent Supply Company, 726 Mission St.

PRESCOTT, Ariz.—Prescott Elks Lodge will remodel lodge building in Prescott. The exterior and interior of the building will be improved and an automatic elevator installed.

9—HOSPITALS

LOS ANGELES, Cal.—Until 2 P. M. April 17, bids will be received by Los Angeles Co. Supervisors for stretchers and stretcher carts to be installed in the Los Angeles General Hospital, 1-100 Mission Rd. Bids will be taken as follows: (A) furnishing and installing 24 units comprising a stretcher and type A stretcher cart (surgical type) and 76 units comprising of a stretcher and stretcher cart type "B" (ward type); (1) price for each additional unit type "A" and (2) price for each additional unit type "B." Wm. Davidson, 1006 Hall of Records, county mechanical engineer.

Dumb Waiter Contract Awarded.
MEDICAL BLDG. Cont. Price, \$302,360
SAN FRANCISCO, Second and Parnassus Avenues.
 Seven-story and basement welded steel frame and concrete medical building (340 feet overall) steel beams, composition roof.
 Owner—Regents of the University of California.
 Architect—Wm. C. Hays, Crocker 1st National Bank Bldg.
 Mechanical Engineer—Frank Walsh, care architect.
 Structural Engineer—W. L. Huber, 1 Montgomery Street.
 Contractor—Lindgren and Swinerton, Inc., 225 Bush Street.
Dumb Waiter—Price Bldg. Specialties Co., 683 Howard Street.
 Other awards previously reported.

YOUNTVILLE, Napa Co., Cal.—A. Schweitzer, 1021 Main St., Napa, at \$166 each awarded contract by State Purchasing Department for furnishing and installing eight Westinghouse Electric refrigerators Model A.L-73 in the new Veterans' Hospital at Yountville.

11—ICE AND COLD STORAGE PLANTS

Bids Wanted—To Close Apr. 6, 2 P. M.
EXTENSION Cost, \$—
SAN FRANCISCO, Third and Berry Streets.
 Extension to State refrigeration terminal (Unit 3) extend insulation and refrigeration machinery in concrete building (approx. 27,000 sq. ft. of floor space).
 Owner—State of California (Harbor Commission).

Engineer—Frank G. White, Ferry Building.

Planned.
ADDITION Cost, \$15,000
FRESNO, Fresno Co., Cal. No. 808 R Street.
 Addition to plant (add cold storage plant and warehouse).
 Owner—Ideal Bottling Works, Prem. (John K. Baxter in charge).
 Architect—Not Given.

13—PUBLIC BUILDINGS FIRE HOUSES & JAILS

STOCKTON, San Joaquin Co., Cal.—County supervisors are making plans for cleaning, sandblasting and repainting county courthouse in Stockton without strain on county finances. Further information will be announced later.

SAN FRANCISCO—Until March 28, 2 P. M., bids will be received by the Trustees of the San Francisco War Memorial for furnishing and installing kitchen equipment in the Veterans Building, Civic Center, San Francisco. Plans and specifications available from Veterans' Bldg., upon deposit of \$10.

Taking Preliminary Estimates
REMODELING Cost, \$3000
REDWOOD CITY, San Mateo Co., Cal. Remodel old county jail for juvenile home.
 Owner—County of San Mateo.
 Architect—Not Given.

Planned.
FIREHOUSE Cost, \$—
CENTERVILLE, Alameda Co., Cal. New fire house.
 Owner—City of Centerville.
 Architect—Not Given.
 Further information will be given shortly.

Plans Being Figured—Bids Close April 18, 2 P. M.
ARMORY Cost, \$50,000
SAN JOSE, Santa Clara Co., Cal. N Second Street.
 One and two-story reinforced concrete armory (60x134 ft.) reinforced concrete walls, roof and floors, steel trusses, structural steel, part composition and slate tile roof, etc.; drill hall with seating capacity of 1500.
 Owner—State of California.
 Architect—George B. McDougall, State Architect, Public Works Building, Sacramento.

SANTA BARBARA, Cal.—C. L. Preisker, chairman of the Santa Barbara county board of supervisors, proposed to the board this week the erection of a \$120,000 addition to the county courthouse as a relief project. The construction of smaller county buildings in Santa Maria, Lompoc and Santa Ynez valley were also proposed.

14—RESIDENCES

LOS ANGELES, Cal.—Pacific System Homes, Inc., 5800 S. Boyle Ave., Los Angeles, submitted low bid to Metropolitan Water District at \$7954 (total bid under schedule No. 1, for construction of three sets of operators' stations along the District's transmission line. One of the stations will be erected at Lakeview, one at Cahazon and one at Fan Hill. Each station will consist of a three-room operator's cottage, a two-room assistant operator's cottage and a two-car garage. They will be wood frame structures with composition roofing.

Plans Being Figured—Bids Close March 30th.
RESIDENCE Cost, \$—
REDWOOD CITY, San Mateo Co.
 Two-story and basement frame and stucco residence (8 rooms and 4 baths); tile roof, gas hot air heating system, oak flooring, 2-car garage, tile baths and kitchen, etc.
 Owner—Withheld.
 Architect—Chester Trelchel 679 Hadson Road, Oakland.
 Bids are being taken from a selected list of contractors.

Low Bidders.
RESIDENCE Cost, \$—
SAN RAFAEL, Marin Co., Cal.
 One-story wood frame residence (shingle exterior, 8 rooms and 4 baths).
 Owner—Mr. McCarthy.
 Architect—Wm. J. Garren, 233 Post St., San Francisco.
 Low Bidder—Moore & Roberts, 693 Mission St., San Francisco.

Contract Awarded.
RESIDENCE Cost, \$—
OAKLAND, Alameda Co., Cal. No. 6221 Telegraph Ave.
 One-story and basement frame and stucco residence (5 rooms) Spanish type, wood furnace, tile and composition roof, hardwood floors, etc.
 Owner—B. T. Showers 623 62nd St., Oakland.
 Architect—Not Given.
 Contractor—David Kesti, 2217 Brown- ing St., Berkeley.

Plans Being Completed.
RESIDENCE Cost, \$8500
OAKLAND, Alameda Co., Cal. Oak- more Highlands.
 Two-story and basement frame and stucco residence (7 rooms and 3 baths) shake roof, gas heating, steel sash, colored tile baths, electric refrigeration, etc.
 Owner—Withheld.
 Architect—E. L. Snyder, 2102 Addison St., Berkeley.
 Bids will be asked in about 1 week.

Plans Being Figured—Bids Close March 30, 2 P. M.
RESIDENCE Cost, \$6000
SAN FRANCISCO, Edgehill Road.
 One and one-half-story and basement frame and stucco residence (six rooms) asbestos shingle roof, gas heating system, hardwood floors.
 Owner—R. A. Davis.
 Architect—Hardman & Russ, Berkeley Bank Bldg., Berkeley.

Preparing Working Drawings.
RESIDENCE Cost, \$7500
OAKLAND, Alameda Co., Cal. Rock- ridge District.
 One-story frame and brick veneer residence (7 rooms, 2 baths) hot air heating system, hardwood floors, tile roof, etc.
 Owner—Withheld.
 Architect—E. L. Snyder, 2102 Addison St., Berkeley.
 Bids will be asked in about 1 week.

Contract Awarded.
RESIDENCE Cost, \$4972
WOODLAND, Yolo Co., Cal.
 Two-story frame and stucco residence
 Owner—Maurice Gilgulerre.
 Architect—Not Given.
 Contractor—C. C. Hall, Woodland.

Contract Awarded.
RESIDENCE Cost, \$—
PALO ALTO, Santa Clara Co., Calif.
 Two-story frame and stucco residence (tile roof, gas hot air heating system, hardwood floors, steel sash, etc.)
 Owner—Mr. Ornsby.
 Architect—Birge M. Clark, 310 Uni- versity Ave., Palo Alto.
 Contractor—R. C. Knight, Mt. View.

Plans Complete.
RESIDENCE Cost, \$4000
PALO ALTO, Santa Clara Co., Calif.
253 Addison Avenue.
One-story frame and stucco residence.
Owner—Joe Fevioli and D. Bettini,
Rose Menlo Park, Palo Alto.
Plans by Owner.

Preparing Plans.
RESIDENCE Cost, \$8000
LOS ALTOS, Santa Clara Co., Cal.
Two-story and basement frame and
stucco residence (8 rooms and 2
baths) tile roof, oil burner and hot
air heating system, hardwood
floors, etc.
Owner—Withheld.
Architect—Charles McKenzie, Twoby
Bldg., San Jose.

Contract Awarded.
RESIDENCE Cost, \$6000
BERKELEY, Alameda Co., Cal. Miller
Ave., Cragmont Tract.
Two-story and basement frame and
stucco residence (7 rooms).
Owner—James Thomas, 918 Hilldale
Ave., Berkeley.
Architect—E. L. Snyder, 2102 Addison
St., Berkeley.
Contractor—Geo. Windsor, 928 Kings-
ton Ave., Piedmont.

Contract Awarded.
RESIDENCE, ETC. Cost, \$2500
HAYWARD, Alameda Co., Cal. Tele-
graph Road and A St.
One-story frame residence, garage
and poultry house.
Owner—Frederick & Elizabeth J. Vogel
3046 Wheeler St., Hayward.
Plans by A. Holyoake.
Contractor—A. Holyoake, 2839 East
Ave., Hayward.

To Be Done By Day's Work.
RESIDENCES Cost, \$5000 each
SAN FRANCISCO. W 34th Ave 100
S Kirkham Street.
Five one-story and basement frame
and stucco residences.
Owner and Builder—Whitney Invest-
ment Co., 36th Ave. and Kirkham
St., San Francisco.
Private Plans.

Lumber Contract Awarded.
RESIDENCE Cost, \$6200
SAN MATEO, San Mateo Co., Cal.
Baywood Park.
Two-story and basement frame and
stucco residence (10 rooms and 3
baths); tile roof, hot air heating
system, oak floors, electric refrig-
eration, etc.
Owner—T. J. Duffy.
Architect—C. Hugh Kirk, Los Angeles.
Contractor—Henry Voelker, 805 Win-
chester Drive, Burlingame.
Lumber—Loop Lumber Co., Central
Basin, San Francisco.
Sub-bids are being taken on other
portions of the work.

Contract Awarded.
RESIDENCE Cost, \$6500
PALO ALTO, Santa Clara Co., Cal.
No. 420 Sequoia Street.
One-story and basement frame and
stucco residence.
Owner—J. G. McGrath, 240 Castilleja
Ave., Palo Alto.
Architect—Not Given.
Contractor—Aro & Okerman, 1160 Ful-
ton St., Palo Alto.

Contract Awarded.
RESIDENCE Cost, \$2331
MONTE RIO, Sonoma Co., Cal.
One-story attic and basement wood
frame cottage and garage.
Owner—M. T. and M. F. Hughes, 1346
Pine St., San Francisco.
Architect—Chas. J. Rousseau, 1990 Cal-
ifornia St., San Francisco.
Contractor—Harvey H. Chinnock and
Sam Swindler, Sebastopol.

Contract Awarded.
RESIDENCE Cost, \$5000
SAN FRANCISCO. N Idora Ave. W
Laguna Honda Blvd.
One-story and basement frame and
stucco residence.
Owner—J. Weber, 50 Laguna Street.
Plans by W. Van Herick, 50 Laguna.
Contractor—O. Nylund, 425 Bayshore
Blvd.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$5000
WOODSIDE, San Mateo Co., Cal.
Alterations and additions to residence
(work involves painting, plumbing,
heating, ventilating, etc.)
Owner—J. L. Deahl.
Architect—Bliss & Fairweather, Bal-
boa Bldg., San Francisco.
Contractor—H. S. Melnberger, 343
Fourth St., San Francisco.
Lumber—Sudden Lumber Co., Evans
and Quint Sts., San Francisco.
Mill Work—Acme Planing Mill, 1855
San Bruno Ave., San Francisco.
Hardwood Floors—Standard Heating
Co., 834 Irving St., San Francisco.
Electric—Erskine Electric Co., Fifth
Ave., Redwood City.
Plumbing—K. L. Martin, 1265 State
Highway, Menlo Park.
Plastering—Martire & Alessandri, 231
Paris St., San Francisco.

Sub-Contracts Awarded.
RESIDENCE Cost, \$5000
BERKELEY, Alameda Co., Calif. 841
Euclid Avenue.
One-story and basement frame and
stucco residence (6 rooms).
Owner and Builder—O. E. Carlson Jr.,
659 Santa Barbara Road, Berkeley.
Plans by P. Anderson, 3836 East 14th
St., Oakland.
Plastering—John Sherman, 2119 Oregon
St., Berkeley.
Plumbing—J. A. Fazio, 402 Castro St.,
Oakland.
Roofing—Mastercraft Tile & Roofing
Co., 1 20th St., Richmond.
Painting—Joel Johnson, 3337 High St.,
Oakland.
Brick—P. C. Clausen, 170 Ardmore Rd.
Berkeley.
As previously reported, wiring con-
tract awarded to Jas. Anderson, 2421
23rd Ave., Oakland; excavation to J.
H. Harris, 2208 Roosevelt Ave., Ber-
keley.

Plans Being Revised.
RESIDENCE Cost, \$5000
SAN FRANCISCO. Location Withheld
One-story and basement frame and
stucco residence (5 rooms) Patlo
plant, social hall, shower, hand-
made tile roof, gas furnace, hard-
wood floors, etc.
Owner—Withheld.
Architect—Irvine and Ebbets (R. R.
Irvine, architect) 2048 Market St.
Bids will be asked in about 1 week
from a selected list of contractors.

Contract Awarded.
ADDITION Cost, \$1500
SAN FRANCISCO, Calif. 1552 Thomas
Avenue.
Frame addition to residence.
Owner—J. Theodos, 1552 Thomas Ave.
Architect—G. A. Berger, 309 Valencia
Street.
Contractor—L. Murer, 1815 Mason St.

Low Bidder.
RESIDENCE Cost, \$3500
PALO ALTO, Santa Clara Co., Calif.
One-story frame and stucco residence
(6 rooms) tile roof, steel sash,
hardwood trim, tile bath, patlo
(Spanish type).
Owner—D. Carey.
Architect—Not given.
Low Bidder—Vance M. Brown, 532
Emerson St., Palo Alto.

Contract Awarded.
RESIDENCE Cost, \$3000
PALO ALTO, Santa Clara Co., Calif.

520 Lincoln Avenue.
One-story shingle residence (4 rooms).
Owner—Mrs. J. F. Newsom.
Architect—Chas. K. Summer, Decker-
oak Bldg., Palo Alto.
Contractor—E. J. Schmallng, 863
Melville Ave., Palo Alto.

March 17, 1933
Sub-Contracts Awarded
RESIDENCE Cost, \$5000
FRESNO, Fresno Co., Cal. 1070 Col-
lege Avenue.
One-story and basement frame and
stucco residence.
Owner and Builder—H. S. Koon, 558
Bond St., Fresno.
Architect—Not Given.
Brick—J. L. Smith.
Sheet Metal—American Sheet Metal
Co.
Painting—H. Thomas.
Plumbing—A. R. March.
Cement—D. W. Doss.
Roofing—R. Sherwood.
Plastering—D. J. Dunn.
Wiring—Inland Light Co.
Mill Work—Inland Light Co.
Mill Work—Blngham & Winks.
Lumber—Swastika Lumber Co.
All of Fresno.

Sub-Bids Being Taken.
RESIDENCE Cost, \$5000
SAN FRANCISCO. S Magellan Ave.
146 E Cortez.
Two-story and basement frame and
stucco residence (6 rooms and 2
baths) part tile and composition
roof, gas heating system, interior
tile, hardwood floors and trlm,
canvas walls and ceilings, etc.)
Owner and Builder—Standard Bldg.
Co., 218 Castenada Ave.
Architect—D. E. Jaekle, Call Bldg.

Sub-Bids Wanted.
RESIDENCE Cost, \$5000
BERKELEY, Alameda Co., Calif. 484
Cragmont Avenue.
Two-story frame and stucco residence
(six rooms) tile and composition
roof, gas heat, hardwood floors,
colored tile baths, etc.
Owner and Builder—Confer & Walker,
5130 Keith Ave., Oakland.
Architect—E. L. Snyder, 2102 Addison
St., Berkeley.
Sub-bids are being taken on sheet
metal, plumbing, brick work, electrical
work, heating, flat work, screens, steel
sash, shingle roofing, etc.

15—SCHOOLS

LONG BEACH, Los Angeles Co.,
Cal.—Long Beach Board of Education
has passed a resolution ordering the
construction of 175 one-story frame
classrooms at various schools in Long
Beach. The temporary buildings will
be 24x36 feet and will be constructed
so that they can be bolted together.

SAN FRANCISCO—Until April 5,
bids will be received by S. J. Hester,
Department of Public Works, City
Hall, for planning grounds at the Bal-
boa High School, Onondaga, Cayuga
and Otsego Streets. Estimated cost
\$2000.

Plans Being Prepared.
SCHOOL Cost \$—
LA GRANDE, Oregon.
Alterations & additions to high school.
Owner—La Grande High School Dist.
Architect—Chas. B. Miller, La Grande.
Engineer—Henry F. Blood, 1518 E-
30th St., Portland, Oregon.

BERKELEY, Cal.—Until March 29,
(Date postponed from March 21) quo-
tations will be received by Purchas-
ing Department, Berkeley Board of
Education, for auxilliary fire alarm
boxes and bell ringing panels, enclosed
in metal cabinets.

Bids Opened.
ADDITION Cost, \$50,000
DALY CITY, San Mateo Co., Cal.
 Class C concrete addition to high school (add 6 classrooms); wood joists, tile roof, wood and concrete floors, steam heating system etc.

Owner—Jefferson Union High School District.

Architect—Resing & McGulness, 488 Pine St., San Francisco.

Following bids received:

General Work

Frank J. Reilly, 6350 Fulton St., San Francisco	\$15,731
H. L. Petersen, San Francisco.....	16,461
F. C. Amoroso & Sons, S. F.....	16,970
DeLuca & Son, S. F.....	17,225
Joel Johnson & Son, S. F.....	17,664
H. H. Larsen, San Francisco.....	18,123
Peter Sartorio, San Francisco.....	18,173
Young & Horstmeyer, S. F.....	18,360
San Francisco Constr. Co., S. F.....	18,450
B. A. Howkins, San Francisco.....	18,485
A. Nelson, Inc., San Francisco.....	18,800
Alfred Fisher, San Francisco.....	18,896
F. L. McAfee, San Francisco.....	18,975
J. Harold Johnson, S. F.....	19,598
Leo Epp, San Francisco.....	19,943
Monson Bros., San Francisco.....	19,959
Anderson & Ringrose, S. F.....	20,415
A. H. Vogt, San Francisco.....	21,300
Hammer & Putney, Burlingame	22,249

Heating

O'Mara & Stewart, 318 Clara St., San Francisco.....(a)	\$5977
(b)	5010
Alta Elec. & Mech. Co., S. F.(a)	6387
(b)	5233
P. W. Wood, San Francisco.....(a)	6447
(b)	4637
Jas. H. Pinkerton, S. F.....(a)	6558
(b)	5670
Herman Lawson, S. F.....(a)	6634
(b)	5564
A. H. Harrison, Daly City.....(a)	7146
(b)	6042
Mechanical Con. Co., S. F.....(a)	7169
(b)	5872
F. W. Snook, San Francisco.....(a)	7440
(b)	6290
Dowd & Welch, San Francisco.....(a)	7624
(b)	6360
Scott Co., San Francisco.....(a)	7677
(b)	6367
H. R. Parks	8001
(b)	6691

Electrical

N. C. Nicklassen, 51-A Downey St., San Francisco	\$1285
Reliable Electric Co., S. F.....	1486
Decker Electric Co., S. F.....	1813
Scott-Buttner Co., S. F.....	1845
Central Electric Co., S. F.....	1994

Hardware

J. H. Kruse, Treat Ave. and 23rd St., San Francisco.....	\$317.50
*Palace Hardware Co., San Francisco	
*Lee Hardware Co., San Francisco	

*No certified checks. Bids not given.

SACRAMENTO, Cal. — Crown Fence Co., 144 Townsend St., San Francisco, awarded contract by Sacramento Board of Education for complete erection of approximately 1700 lineal feet of 6-ft. high galvanized chain link fencing, including two 12-ft. double drive gates with necessary end, corner and gate posts and approximately four 4-ft. walk gates, at the new Stanford Junior High School, Sacramento. Bids read as follows:

Fence complete, per lin. ft. with top rail	\$.74
Gates	4.10
End Posts	7.19
Corner Posts	10.33
Gate Posts	7.19
Erection, per lin. ft.....	.305
Extension for galv. top rail.....	.12

BERKELEY, Cal.—Until April 5, 8 P. M., bids will be received by Clara F. Andrews, Secretary of the Board of Education, for furnishing school supplies for the school year 1933-34

for the Berkeley School District and the Berkeley High School District.

WHITTIER, Los Angeles Co., Cal.—Architect R. L. Warren, Exposition Bldg., Whittier, has been retained by Whittier Union High School District to supervise earthquake damage repairs to high school buildings in Whittier. The liberal arts building will be removed and the east wall of the science building will be rebuilt, construction to be handled on a day labor basis. Work has been started.

PLANS ON FILE.
SCHOOL Cost, \$135,000
FAIRBANKS, Alaska.

Three-story reinforced concrete school (75x150 feet) kindergarten rooms, manual training dept., classrooms, gymnasium and auditorium.

Owner—Fairbanks School District.
 Architect—Tourtelotte and Hummel, Postal Bldg., Portland.

The Builders' Exchange, 666 Mission St., San Francisco, have three sets of plans on file and same will be given any responsible contractor upon deposit of \$25, returnable. Bids are being taken for a general contract with separate bids for mechanical equipment and will be opened April 26.

LONG BEACH, Calif.—Long Beach Board of Education, at a meeting held March 15, declared a special emergency and appropriated \$260,000 for the erection of temporary classrooms for elementary and junior high schools. Sum of \$160,000 was appropriated for elementary schools and \$100,000 for junior high schools. Emergency declaration of board, by formal motion, may permit the signing of contracts for erection of emergency classrooms without bids, through approval of the County Counsel and County Superintendent of Schools. Preparation of plans for these buildings will not be necessary.

COMPTON, Los Angeles Co., Cal.—The Compton Grammar School District reports loss sustained in earthquake as follows: Orange St. school, \$40,000; George Washington school, \$10,000; Francis Willard school, \$25,000; Mayo Avenue school, \$10,000; Col. Lindberg school, \$10,000; Mark Kepel school, \$10,000; Clark Ave. school, \$10,000; Holly Avenue school, \$20,000; Betsy Ross and Abraham Lincoln school, \$45,000. Funds for reconstructing will be requested from the Reconstruction Finance Corporation.

COMPTON, Los Angeles Co., Cal.—O. Scott Thompson, superintendent of the Compton High School District, reports that a loss of \$500,000 was sustained by high school and junior college buildings in the earthquake. High school and junior college buildings were 75 to 80 per cent damaged. Loss at junior high schools were as follows: Compton junior high school, \$30,000; Clearwater junior high school, \$25,000; Willowbrook junior high school, \$25,000. Meeting will be held to decide on a reconstruction program. Money will be requested from the Reconstruction Finance Corporation.

SAN FRANCISCO.—Until March 29, 2:30 P. M., bids will be received by S. J. Hester, secretary, Department of Public Works, City Hall, for painting the Fremont School, located on McAllister St. between Broderick and Baker, and painting the McKinley School, located on Castro St. between 14th and Henry. Estimated cost, \$2,000 and \$1,750, respectively.

LOS ANGELES, Calif.—Until 11 A. M., April 4, (opening date postponed from March 21) bids will be received by the Regents of the University of California for a wing addition to the

chemistry building at the University of California at Los Angeles. Separate bids will be taken as follows: (1) general construction; (2) heating and ventilating; (3) plumbing; (4) electrical work. Plans may be obtained from the Comptroller, 48 Library, University of California at Los Angeles, 405 Hilgard Ave., Los Angeles, upon deposit of \$100.

The addition will be a 3-story, basement and sub-basement, L-shaped structure, 143x105 feet in area; steel frame construction, concrete and brick walls, concrete floors and stairs, brick exterior, terra cotta tile roof, ornamental terra cotta, steel windows, metal furring and lathing, dampproofing, marble and tile work, hollow metal doors, slate blackboards, ventilating, high and low pressure steam and return piping, etc. G. W. Kelham, architect, 315 Montgomery Street, San Francisco; H. J. Brunner, structural engineer, Sharon Bldg., San Francisco; Hunter & Hudson, mechanical engineers, 41 Sutter St., San Francisco.

Contract Awarded.
ADDITION Cost, \$2000
SAN JOSE, Santa Clara Co., Calif.
 1342 Naglee Avenue.
 Addition to educational building.
 Owner—Ancient Mystic Order of Roslucians.
 Architect—Not Given.
 Contractor—Paul N. Anderson, 1210 Lincoln Ave., San Jose.

LOS ANGELES COUNTY, Cal.—Los Angeles County Supervisors, at a meeting held on March 16, adopted a resolution offered by Supervisor John Quinn that congressional delegation be requested to use efforts to secure approval of \$10,000,000 loan from Reconstruction Finance Corporation, or other funds, to be used for the immediate reconstruction of school buildings in the stricken area of Los Angeles County, all structures to be of earthquake proof construction.

HUNTINGTON PARK, Los Angeles Co., Cal.—Los Angeles board of education plans to start work immediately on the reconstruction of the Huntington Park High School damaged by the earthquake and fire. Plans will probably be prepared by the architectural division of the board. W. E. Record, manager; A. S. Nibecker, Jr., architect.

16—BANKS, STORES AND OFFICES

COMPTON, Los Angeles Co., Cal.—Crim & Dawson, 208 W. Orange St., Compton, has contract for demolishing part of classroom building and making temporary repairs to balance of buildings, to permit classes to be held, at the Compton Junior High School plant. Work includes removing stone from control tower, reinforcing brick work and other temporary repairs. Marsh, Smith & Powell, architects, Architects' Bldg., Los Angeles.

Sub-Contracts Awarded.
ADDITION Cost, \$6000
EMERYVILLE, Alameda Co. Cal. 1311 63rd Street.
 One-story Class C wood frame top addition to office building.
 Owner—Western Waxed Paper Co., 1311 63rd St., Emeryville.
 Architect—A. J. Froberg, Ray Bldg., Oakland.
 Contractor—H. J. Christensen, Ray Bldg., Oakland.
Structural Steel—Judson Pacific Co., foot of Park Ave., Oakland.
Steel Sash—Soule Steel Co., 1750 Army St., San Francisco.
Plumbing and Heating—F. A. Gottstein, 226 8th St., Oakland.

Contract Awarded.
ADDITIONS Cost, \$20,000
STOCKTON, San Joaquin Co., Cal.
 Wilson Way and Channel Street.
 Additions to present building (brick and stucco administration building 44x90 feet; shed space 14x75 ft.; lodge room, kitchen, dining room to seat 250, etc.)
 Owner—San Joaquin Marketing Assn. (Dr. J. V. Craviotto, President).
 Plans by Elmore Ernst, 9 W. Cleveland St., Stockton.
 Contractor—Carl Nelson, 1421 E. Channel St., Stockton.

Contract Awarded.
BUILDING Cost, \$3045
CARPINTERIA, Santa Barbara Co.
 One-story Post office building.
 Owner—T. N. Fish.
 Architect—E. Keith Lockard, 117 E. De la Guerra, Santa Barbara.
 Contractor—Robert D. Paterson, 1911 San Andres St., Santa Barbara.
 Lessee—United States Government.

Contract Awarded.
ALTERATIONS Cost, \$7500
OAKLAND, Alameda Co., Cal. No. 1450 Broadway.
 Alterations to store.
 Owner—Metropolitan Life Insurance Company.
 Architect—Bliss & Fairweather, Balboa Bldg., San Francisco.
 Lessee—Moore's Store.
 Contractor—H. S. Meinberger, 343 4th St., San Francisco.
 Streamline front (Verde antique marble with black oxidized and bright bronze); plate glass, etc.

Contract Awarded.
REMODEL STORE Cost, \$4000
STOCKTON, San Joaquin Co., Cal. E-Main Street.
 Remodel clothing store (store front, plate glass, plastering, vitrolite, etc.)
 Owner—E. W. Wilhoit.
 Architect—Frank V. Mayo, 108 E. Miner St., Stockton.
 Contractor—J. F. Shepherd, 108 E. Miner St., Stockton.
 Lessee—Bravo & McKeegan, 23 N-Sutter St., Stockton.

Planned.
OFFICES & STORES Cost, \$—
OAKLAND, Alameda Co., Calif. SE Grand and Ellita Avenue.
 Two-story store and offices.
 Owner—R. L. Uelsmann, 178 Grand Ave., Oakland.
 Architect—Not Given.

To Be Done By Day's Work.
ALTERATIONS Cost, \$2000
SAN FRANCISCO. S Jessie St. bet. 4th and 5th Sts.
 Alterations to lunch counter.
 Owner—The Emporium, 835 Market.
 Plans by Engr. Dept. of Owner.

Contract Awarded.
ALTERATIONS Cost, \$15,000
OAKLAND, Alameda Co., Calif. 1521 and 1545 Franklin St.
 Alter interior of brick telephone exchange building.
 Owner—Pacific Telephone & Telegraph Co., 140 New Montgomery St., San Francisco.
 Plans by Engineering Dept. of Owner.
 Contractor—W. G. Thornally, 354 Hobart St., Oakland.
 Sub-bids are in and will be awarded shortly.

Being Done by Day's Work
OFFICES Cost, \$—
WILLITTS, Mendocino Co., Calif. Wood Street.
 One-story wood frame offices (36x18) studded bldg., covered with iron, corrugated iron roof, lined with lum-

ber, cement foundation and floors.
 Owner—H. P. Muir, Willitts.
 Plans by Owner.

Sub-Contracts Awarded.
STORE Cost, \$22,000
OAKLAND, Alameda Co., Cal. Broadway N 19th Street.

One-story and basement and mezzanine reinforced concrete store (30 by 100 feet).

Owner—Twentieth & Broadway Realty Co., 1175 Market St., San Francisco.

Architect—Albert Evers, 525 Market St., San Francisco.

Contractor—Lindgren & Swinerton, Inc., 225 Bush St., San Francisco.

Lessee—Kushins Shoe Company.

Structural Steel—Judson Pacific Co., 609 Mission St., San Francisco.

Terra Cotta—Art Tile Co., Richmond.

Reinforcing Steel—W. S. Wetenhall, 17th and Wisconsin Sts., S. F.

Glass—W. P. Fuller & Co., 301 Mission St., San Francisco.

Excavation and Grading—J. Catucci, 1212 18th Ave., Oakland.

Electric—Scott-Buttner Elec. Co., 19 Grand Ave., Oakland.

Marble—Vermont Marble Co., 525 Market St., San Francisco.

Tile—Rigney Tile Co., 3012 Harrison St., Oakland.

Metal Partitions—Mills Company.

Mill Work—Lannom Bros. Mfg. Co., 5th and Magnolia Sts., Oakland.

As previously reported, common brick awarded to Remillard Brick Co., 960 7th St., San Francisco.

17—THEATRES

Plans Prepared.
THEATRE Cost, \$30,000
CARLSBAD, New Mexico.
 Modern theatre (to seat 1000).

Owner—Griffith Amusement Co. and Fred Morley (Mgr. Yucca Theatre, Roswell, New Mexico.)

Architect—M. L. Parker, Roswell, New Mexico.

18—WHARVES & DOCKS

SAN FRANCISCO.—Healy - Tibbitts Const. Co. 64 Pine St., at \$4990 awarded contract by Board of Park Commissioners for constructing two fire-proof piers and fire walls at yacht harbor on the Marina.

Plans Being Completed.
REPAIRS Cost, \$—
SAN FRANCISCO. Fort Winfield Scott
 Repairs to torpedo dock (new creosoted piles and timber bracing, etc.)

Owner—United States Government.
 Plans by Constructing Quartermaster, Fort Mason, San Francisco.

Bids will be asked in about one week

SAN FRANCISCO.—McClintle Marshall Company, 2050 Bryant St., at \$1639, 10 day delivery, awarded contract by State Harbor Board Purchasing Department for structural steel fabrication, etc. Second low bid was submitted by the Western Iron Works, at \$1749.

19—MISC. CONSTRUCTION

SOUTHERN CALIFORNIA.—Paramount Securities Co., owner, Spring Arcade Bldg., Los Angeles, Frank Johnson, superintendent of maintenance, 908½ Lucille Ave., Los Angeles, is making a survey of the earthquake damage to various buildings owned by the company in Long Beach, Bell and Los Angeles County. The list includes the Hotel Gifford, two-story, brick store and hotel building at the northwest corner of Gifford and Gage Ave., Bell. The second story of this building has been condemned by the build-

ing inspector. Hotel Johnson, two-story brick store and hotel building on Gage Ave., Bell. A two-story brick building on Joseph St., Long Beach, and a two-story frame and magnesite apartment building at 821 Olive Ave., Long Beach. A one-story and part two-story store, apartment and theatre building located at the corner of Compton Ave. and Firestone Blvd., Los Angeles. Plans for reconstruction have not been completed.

Planned.
RACE TRACK Cost, \$—
PORTLAND, Oregon. Hayden Island. Race track (500 acre site).

Owner—Hayden Island Amusement Co. (Harvey Wells, president).

Architect—Not Given.

Construction will start as soon as a permit to operate has been obtained.

Contract Awarded.
ADDITION Cost, \$—
SANTA BARBARA, Santa Barbara Co., Calif.

Addition to the Santa Barbara Museum of Natural History.

Owner—Santa Barbara Museum of Natural History.

Architect—Carleton M. Winslow, 1410 Chapala St., Santa Barbara.

Contractor—W. J. Campbell, Santa Barbara.

Planned.
BUILDING Cost, \$—
MARYSVILLE, Yuba Co., Calif. SE 7th and D Streets.

Mortician's Home.

Owner—Lipp & Sullivan, Marysville.

Architect—Not Given.

To Be Done by Day's Work
BUILDING Cost, \$675
EL CERRITO, Contra Costa Co., Cal. Manila Ave. and Kearney St.

One-story frame corporation bldg. (60x34) to house city vehicle and equipment.

Owner—City of El Cerrito.

Engineer—H. D. Chapman.

Work will be done by day's labor under the supervision of A. A. Arnesen, Building Inspector.

LOS ANGELES, Calif.—Until 9 A. M., March 31, bids will be received by Saul A. Joseph, Purchasing Agent, Metropolitan Water District, Room 504, 306 W Third St., Los Angeles, for furnishing six complete pump house and derrick assemblies, f.o.b. cars or trucks. They are to be of wood frame structures with galvanized corrugated iron roofing and siding, etc.

Plans Being Prepared.
BOAT HOUSE Cost, \$6000
OAKLAND, Alameda Co., Cal. Municipal Airport.

One-story frame boat house (14x40) to house U. S. Naval Reserve speed boat.

Owner—City of Oakland Port Commission.

Plans by Eng. Dept. of Owner.

SACRAMENTO, Calif.—Sacramento county supervisors will ask bids to raze the old unoccupied buildings on the Sacramento Hospital grounds.

20—MISC. SUPPLIES AND MATERIALS

SAN DIEGO, Calif.—Patten - Blinn Lumber Co., San Diego, submitted the low bid to A. R. Sauer, Jr., City Purchasing Agent, San Diego, March 17 at \$1827.84 or 59½ c. for furnishing f.o.b. Municipal Pier No. 1 or upon bulkhead at foot of B St., San Diego, 3072 ft. creosoted treated piles.

ENGINEERING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

- | | |
|-------------------------------------|-------------------------------------|
| 21.—Bridges | 30.—Reservoirs and Dams |
| 22.—Dredging, Harbor Works, Excava. | 31.—Pipe Lines and Wells |
| 23.—Irrigation Proj. | 32.—Sewers & Sewage Disposal Plants |
| 24.—St. Light. Systems | 33.—Water Works |
| 25.—Machinery and Equipment | 34.—Parks & Playgrounds |
| 26.—Railroads | 35.—Tunnels |
| 27.—Fire Alarm Sys. | |
| 28.—Fire Equipment | |
| 29.—Streets & Highways | |

21—BRIDGES

STOCKTON, San Joaquin Co., Cal.—E. H. Riley, Stockton, will continue construction of the Garwood Ferry bridge, having obtained additional finances in order to complete the structure.

PEND OREILLE COUNTY, Wash. Until March 29, 10 A. M., bids will be received by W. H. Lynch, District Engineer, U. S. Bureau of Public Roads, 316 New Post Office Bldg., Portland, to construct one bridge over Slate Creek together with approach connections to existing road on Pend Oreille Highway, N. F. R. Pro. E-22-10 in Kaniksu National Forest, involving:

- (1) 0.4 acres clear and grub
- (2) 10,600 cu. yds. unclass. excav.
- (3) 300 cu. yds. unclass. excav., struc.
- (5) 64000 sta. yds. overhaul
- (6) 1100 tons surfacing (placing only)
- (7) 10 dangerous trees and snags
- (8) 120 cu. yds. class A concrete
- (9) 115 cu. yds. class B concrete
- (10) 213 cu. yds. class D concrete
- (11) 48,000 lbs. reinf. steel
- (1) 246,000 lbs. struc. steel
- (13) Remove old bridge and maintain traffic.

PATTERSON, Stanislaus Co., Cal.—Irrigation District discusses plan for bridge, retaining dam and lock on the San Joaquin River at the foot of Las Palmas Ave. War Department has already approved a high level bridge. J. P. Sillerman, manager of the Irrigation District.

LOS ANGELES, Cal.—The condemnation necessary for the proposed Gaffey St. grade separation at Wilmington has been completed. As these structures are essential, grading of the approaches will probably be done by R.F.C. labor while awaiting an allocation by the city council. The cost of the project is estimated at \$225,000. One will be built to carry Gaffey St. over Summerland Ave., a reinforced concrete girder bridge costing \$125,000, and the other carrying Gaffey St. under Elberon Ave., a reinforced concrete arch bridge costing \$80,000. R. W. Stewart, engineer of bridge and structures.

LOS ANGELES, Cal.—Plans for a reinforced concrete girder type bridge to be built on San Fernando Road at Tunnel Station completed by bridge department; R. W. Stewart, engineer of bridge and structures. The proposed bridge will be 300 ft. in length, with a 40-ft. roadway and one 5-ft. walk. The work will consist of building two wedge-shaped structures to

widen the present structure and to realign the roadway. The cost is estimated at \$35,000. Construction is now awaiting an allocation by the city council.

LOS ANGELES, Cal.—H. H. Walker Inc., 1323 Venice Blvd., Los Angeles, at \$77,560 (lump sum bid on item 1) submitted low bid March 18 to Metropolitan Water District to construct transmission lines in the Mecca Pass to Colorado River Section, Construction Power Transmission Line.

24—ST. LIGHT. SYSTEMS

LOS ANGELES, Calif.—Proceedings for an ornamental lighting system in the Park Oak Drive and Live Oak Dr. District abandoned by city council on March 16.

25—MACHINERY AND EQUIPMENT

DALY CITY, San Mateo Co., Cal.—Until March 27, 8 P. M., bids will be received by B. C. Ross, city clerk, to furnish one panel truck, 141-in. wheelbase, 7-in. frame; further specifications obtainable from above office. Certified check 10% required with bid.

LOS ANGELES, Cal.—Contracts for furnishing air compressors, air receivers and motor generator sets for use in connection with the construction of the Coachella Tunnels were awarded by the Metropolitan Water District Board of Directors March 17 as follows:

AIR COMPRESSORS

Herberts Machinery Co., Ltd., 2929 Santa Fe Ave., Vernon—Schedule No. 1, twelve air compressors at \$65,820.

AIR RECEIVERS

Western Pipe and Steel Co., 5717 Santa Fe Ave., Los Angeles—12 air receivers, Schedule No. 12, at \$1884.

MOTOR GENERATOR SETS

Electrical Products Corp., 1128 Venice Blvd., Los Angeles—Six motor generator sets, Schedule No. 4 at \$6,666.

The board of directors also took action on other schedules under same specifications as follows:

Schedule 2, storage battery locomotives; Schedule No. 3, same, using steel batteries; Schedule No. 9, wood body dump cars; and Schedule No. 10, steel body dump cars. Three low bids on each schedule ordered held under advisement.

Schedule No. 11, flat cars, all bids rejected.

SAN FRANCISCO.—Until March 31, 3 P. M., under Bid No. 985, bids will be received by T. A. Brooks, City Purchasing Agent, to furnish automo-

biles for Police Department. Specifications obtainable from above office.

LOS ANGELES, Cal.—Until 2 P. M., April 5, bids will be received by the Metropolitan Water District, 306 West Third St., Los Angeles, for furnishing machinery and equipment for use in connection with the construction of the Coachella Tunnels. This proposal covers equipment designed for use if the half capacity tunnel (12 ft. 4 in. diameter) is used in lieu of the 16-ft. tunnel. Bids on the larger equipment were opened Feb. 28 under Specifications No. 17. The new specifications (No. 22) will provide for equipment as follows:

Battery locomotives.

Electric shovels.

Tunnel mucking machines.

Flat cars.

Steel dump cars (3-yd. capacity).

Specifications may be obtained at room 1004, 306 West Third St., March 18, upon payment of \$2.

LOS ANGELES, Cal.—Bids held for further consideration by the engineering department of the Metropolitan Water District for furnishing construction equipment under Spec. No. 17, opened Feb. 28, are as follows:

(Three low on each schedule).

Schedule No. 2 storage battery locomotives, using Exide iron clad batteries: General Electric Co., Westinghouse Electric & Mfg. Co., and the Whitcomb Locomotive Co.

Schedule No. 3, alternative to Sched. No. 2, using Edison batteries: General Electric Co., Westinghouse Electric & Mfg. Co. and Whitcomb Locomotive Company.

Schedule No. 9, wood body dump cars: Concrete Machinery & Supply Co., Madsen Iron Works and Smith-Booth-Usher Co.

Schedule No. 10, steel body dump cars: Concrete Machinery & Supply Co., Emsco Derrick & Equipment Co. and Madsen Iron Works.

LOS ANGELES, Cal.—The city engineer has been authorized by city council to prepare plans for the improvement of Woodlawn Ave. between 51st and 52nd Sts., and 51st St. bet. Main St. and Avalon Blvd., in the 51st St. and Woodlawn Ave. Improvement District. The proposed pavement will be 6-in. cement concrete. The city allocation is \$23,997.60.

30—RESERVOIRS & DAMS

ALBUQUERQUE, N. M.—Construction of the El Vado Dam on the Chama River will probably be started by the Middle Rio Grande Conservation District early this summer. Plans are being prepared by C. H. Howell, chief engineer of the district, Albuquerque. The estimated cost is \$1,600,000.

31—PIPE LINES & WELLS

LOS ANGELES, Calif.—W. H. Bucher, M. D., superintendent of Olive View Sanitarium, has requested the supervisors to transfer \$20,000 from the maintenance and operation account to structural and non-structural improvement fund for the purpose of drilling and equipping a water well. The recommendation was approved by the Superintendent of Charities and was referred by the board to Supervisor Jessup.

CAPITAL CITY TITLE COMPANY

J. C. PALEN,
Manager

914 Seventh Street
Sacramento :: California

LOS ANGELES, Calif.—Until 10 A. M., April 4, bids will be received by the Metropolitan Water District, 306 W 3rd St., Los Angeles, for the construction of pipe lines and Gunited reservoirs for Sections 1 and 2 of the construction water system for the Colorado River Aqueduct.

The work to be contracted for consists of excavating a trench, hauling and stringing pipe, welding joints, testing and lowering lines of pipe, backfilling the trench, connecting valves and fittings, and performing appurtenant work for the construction of 60 miles of 5-in. 6-in. and 8-in. pipe line, together with the construction of three 300,000-gal. Gunited reservoirs. All materials with the exception of the pipe, valves, and fittings are to be furnished by the contractor. Each proposal must be accompanied by a certified or cashier's check for the following amounts: Schedule 1, \$1500; Schedule 2, \$2000; Schedule 3, \$1000. Plans may be purchased from the office of the engineer, room 1004, 306 W 3rd St., Los Angeles. This sum is not returnable. F. E. Weymouth is the general manager and chief engineer of the district.

32—SEWERS & SEWAGE DISPOSAL PLANTS

LOS ANGELES, Calif.—County supervisors have appropriated \$159,700 from the general fund for the construction of storm drains in Alhambra Ave. and Mission Road from Marenco to San Pablo St.

LOS ANGELES, Calif.—Plans for sewers to be constructed in Baird Ave. and other streets in the Baird Ave. and Gault St. Sewer District, are being completed by L. O. Turner, District Engineer, Van Nuys office of the city engineering department. The proceedings are under the 1911 Act and the 1931 Assessment Limitation Act. The area affected by this improvement embraces 175 acres and the sewers will have an average depth of 12.2 ft. The items are:
 7,555 ft. 6-in. stand. strength cement pipe;
 13,969 ft. 8-in. do;
 5,780 ft. 8-in. extra strength cement pipe;
 1,787 ft. 10-in. stand. strength cement pipe;
 2,820 ft. 12-in. do;
 779 ft. 8-in. vitrified clay pipe;
 320 ft. 12-in. do;
 74 manholes;
 18 standard flushing manholes;
 4 special flushing manholes;
 96 manhole frame and cover sets;
 44 ft. type X for 12-in.;
 20 ft. do for 8-in.;
 13,949 ft. type Z for 8-in.;
 1,787 ft. do for 10-in.;
 2,780 ft. do for 12-in.
 Average depth 12.2 ft.

LOS ANGELES, Calif.—Artukovich Bros., 912 S Atlantic Blvd., Hynes, awarded contract by the board of public works March 15 at \$34,958, to construct Wilmington intercepting sewer in Fries Ave. between Water St. and a point 734 ft. southerly therefrom, and in a portion of Water St. and another right of way, under cash contract.

LOS ANGELES, Calif.—City council has under consideration construction of storm water drainage in the Huntington Drive and Berkshire Ave. area and will probably ask the board of supervisors to allocate the sum of \$56,243 for the purchase of materials, service and equipment hire.

LOS ANGELES, Calif.—Pacific Clay Products Co. awarded contract by A. J. Holm, City Purchasing Agent, Mar-

16 at \$15,877.32 (estimated total) for furnishing and delivering along Venice Blvd. and Lincoln Blvd. Sewer District, vitrified clay pipe and wye branches, under Spec. No. 3024.

LOS ANGELES, Cal.—Plans for the construction of sewers in the Belle Porte Ave. and 253rd St. Sewer District have been completed by city engineer. The report under the Assessment Limitation Act of 1931 is being prepared. The estimated cost is \$130,000.

LOS ANGELES, Calif.—County supervisors have appropriated \$40,000 from the general fund for the acquisition of materials and supervision of work for the installation of storm drains in Eagle Rock Blvd. between Yosemite Drive and Colorado Blvd., and in Colorado Blvd. between Maywood and El Rio Ave.

33—WATER WORKS

LOS ANGELES, Cal.—Wm. Davidson, county mechanical engineer, 10th floor, Hall of Records, has completed his preliminary estimate of the cost of constructing a water system in the vicinity of Florence under County Water Works District No. 20. Hearing on the formation of this district was ordered by the board of supervisors March 16 and will be held within the next 30 days. The cost is estimated at \$390,000 and covers several contracts as follows:

Drilling of three wells.
 Installation of necessary pumps.
 Erection of two 250,000-gal. steel tanks and towers on concrete foundations.
 Piping, involving 30 to 35 miles of cast iron pipe ranging from 14- to 3-in. diameter (principally 10- to 3-in.)
 Ditching, laying of pipe, backfill and resurfacing.
 Valves and fittings.

OAKLAND, Cal.—Grinnell Co. of the Pacific, Fifth and Brannan Sts., San Francisco, at \$2670 awarded contract by East Bay Municipal Utility District to furnish 30 tons of joint compound for cast iron pipe.

SAN DIEGO, Cal.—Water and sewer improvement planned by the city in the event that federal funds are obtained, total \$999,260, are noted in a report submitted to city council by A. V. Goeddel, city manager. Water main construction, estimated to cost \$251,960, would include the following lines:

30-in. line on Upas from 5th and 20th Sts., \$100,000.
 16-in. line on Rosecrans from Taylor and San Diego Aves. to Lytton, and thence to the military reservation, \$68,212.
 12-in. line on 21st from L to Beardsley along Julian Ave. from Beardsley to Marcey and on Marcey to 28th St., \$23,585.
 10-in. line on 35th from El Cajon to Monroe and on Hawley from Monroe to Mountain View, \$17,807.
 30-in. line under 30th St. bridge, \$10,275.
 8-in. line on Poplar from Fairmount to Maple, \$11,344.
 8-in. line on Woden from Main to Acacia, on Epsilon from Acacia to 42nd, and on 42nd from Epsilon to Division, \$7500.
 8-in. line on 35th from Newton to Acacia and on Regal from Acacia to Main, \$3000.
 8-in. from Acacia to Main, \$3000.
 8-in. line on Dwight from Euclid to Wabash, \$1623.

LOS ANGELES, Calif.—County Supervisors have authorized the ex-

penditure of \$30,000 for immediate construction from R. F. C. funds of a portion of the 8th St. viaduct, north of the City of San Fernando. E. C. Eaton, County Flood Control Engr.

WINTERSBURG, Orange Co., Cal.—The Standard Oil Co. is clearing the site of a 35,000-gal. oil storage tank at its Wintersburg tank farm, damaged by the earthquake, preparatory to rebuilding the tank. The estimated cost is \$75,000.

LOS ANGELES, Calif.—Hearing on the proposed formation of County Water Works District No. 20 (vicinity of Florence) set by county supervisors for April 17. Wm. Davidson, county mechanical engineer, 10th floor, Hall of Records, has completed his preliminary estimate of the cost of constructing the water system, \$390,000.

35—TUNNELS

LOS ANGELES, Calif.—Contract for the construction of the San Jacinto Tunnel for the Metropolitan Water District Colorado River aqueduct has been signed by the contractors, Wenzel & Henoch Const. Co., Milwaukee, Wis., and the company's surety bonds were approved by the board of directors March 17. The contract was referred to the chief engineer and secretary of the district for signing.

29—STREETS AND HIGHWAYS

SEATTLE, Wash.—As previously reported, until April 12, 10 A. M., bids will be received by board of public works, G. W. Roberge, secretary, to improve Railroad Ave. from Madison to Bay Sts., including construction of a concrete sea wall, involving:
 245,000 cu. yds. embankment;
 3,561 tons steel sheet piling;
 585,000 lin. ft. timber piling;
 3,290 M. ft. b.m. lumber;
 1,754 tons reinf. steel;
 15,090 cu. yds. concrete;
 47,475 sq. yds. 9-in. conc. paving;
 9,740 lin. ft. water mains;
 6,200 lin. ft. pipe sewer.

Estimated cost, \$1,200,000. Certified check 5% required with bid. Specifications obtainable from above on deposit of \$25.

SAN FRANCISCO.—Until March 29, 2:30 P. M., bids will be received by Department of Public Works, S. J. Hester, secretary, to widen Turk St. from St. Joseph's to Masonic Ave., involving:

- (1) 14,500 cu. yds. excavation;
- (2) 1,045 ft. 8-in. V.C.P. sewer;
- (3) 690 ft. 10-in. do;
- (4) 39 8x6 Y branches;
- (5) 25 10x6 do;
- (6) 8 brick manholes;
- (7) 6 brick catchbasins;
- (8) 5 do, reset;
- (9) 85 ft. 10-in. VCP culvert;
- (10) 384 ft. 6-in. VCP side sewer;
- (11) 2,900 ft. granite curb, reset;
- (12) 200 ft. armored concrete curb;
- (13) 43,640 sq. ft. asph. conc. pave.;
- (14) 6,500 sq. ft. 6-in. Class E conc. pavement;
- (15) 9,800 sq. ft. asph. conc. conform pavement;
- (16) 3,680 sq. ft. asph. conc. wearing surface;
- (17) 50 tons asph. concrete;
- (18) 21,500 sq. ft. 1-course concrete sidewalk.

Specifications obtainable from the office of John J. Casey, city engineer, 3rd floor, City Hall.

SACRAMENTO COUNTY, Cal.—D. McDonald, 204 23rd St., Sacramento, at \$90,675 awarded contract by State Highway Commission to grade and pave with asphalt about 4.5 mi. between Mills and Nimbus.

TUOLUMNE, Calaveras, Amador, and Stanislaus Co., Cal.—Dee Strong, Box 272, Sacramento, at \$1698.80 awarded contract (lons bid submitted) by State Highway Commission to apply 920 bbls. Diesel oil to roadside vegetation over 161 roadside miles.

COCONINO COUNTY, Ariz.—Until April 13, 10 A. M., bids will be received by C. H. Sweetser, District Engineer, U. S. Bureau of Public Roads, 802 Title and Trust Bldg., Phoenix, Ariz., to place subgrade reinforcement on 3.556 mi. Grand Canyon Route 10, Grand Canyon National Park, involving:

- (1) 5650 cu. yds. subgrade relnf.;
- (2) 8750 cu. yds. ml. haul subgrade relnf.

Specifications obtainable from above office on deposit of \$10.

SAN JOSE, Santa Clara Co., Cal.—City council has approved specifications for Julian St. Bridge over Coyote Creek, involving:

- (1) 1548 cu. yds. excav.;
- (2) 823 cu. yds. concrete;
- (3) 75.17 tons steel;
- (4) 177 concrete piles 20-ft. long;
- (5) 314 lin. ft. concrete handrall;
- (6) 100 lin. ft. galv. pipe handrall;
- (7) 6360 sq. ft. 2-in. asph. conc. surf.;
- (8) 560 cu yds. excav. in widening channel;
- (9) 36 lin. ft. 27-in. Portland cement concrete pipe.

NOTE: Steel and concrete estimate exclusive of piles and handrall. Handrall consists of 23.26 cu. yds. concrete and 1.44 tons steel. Piles consist of 152.75 c. yds. concrete and 15.2 tons steel.

NOTE: Bridge approach:
1672 sq. ft. 5-in. asph. conc. pavement
231 sq. ft. 2-in. asph. conc. surfacing;
25 lin. ft. 8x10x14-in. Portland cement concrete curb;

31 sq. ft. 15x6-in. Portland cement concrete gutter.

W. L. Popp, City Engineer.

OREGON STATE.—Following contracts awarded March 15 by the State Highway Commission for highway construction as follows:

Douglas County—S. H. Newell and Co., Board of Trade Bldg., Portland, at \$30,250 for 1.5 miles roadbed construction on Rice Hill Section, Pacific Highway. Barnham Bros. second low at \$32,982.

Lynn County—Lindstrom & Feigenson, Railway Exchange Bldg., Portland, at \$14,355 to grade and pave approaches to the Santiam River bridge, Pacific Highway at Jefferson. Washburn & Hall, second low at \$14,438.

Malheur County—Schmeer & Williams, Portland, at \$9,850 for Ironside Brogan Station, John Day Highway, furnish 7000 cu. yds. crushed rock in stockpiles.

Union County—Edwin Gerber, Oregon City, at \$7530 for Hot Lake-North Powder Section, Old Oregon Trall, to furnish 6000 cu. yds. crushed rock in stockpiles.

ARIZONA STATE—Phoenix-Tempe Stone Co., P. O. Box 1645, Phoenix, submitted low bid to State Highway Commission, Phoenix, March 18, at \$45,199.99, for highway construction on the Mesa-Casa Grande Ruins Highway, E-97-A (A. F. E. No. 8760) (A. F. E. E. No. 8751). The work, which begins at the end of the oiled surfacing about 1½ miles northwest of Santan and extends northwesterly approximately 10¼ miles to the concrete

pavement south of the town of Chandler, consists of placing one C. M. P. culvert, one C. M. P. siphon and subgrade stabilizer, and the oil processing of the roadway by either the road or plant mix method using asphaltic road oil.

PASADENA, Los Angeles Co., Cal.—City has asked the board of supervisors to re-allocate certain funds previously allocated to certain specific jobs, so that the total sum may be used for miscellaneous road, bridge, and culvert construction. The total is \$17,520.22.

LOS ANGELES, Cal.—The proceedings for the improvement of Lankershim Blvd. between Burbank Blvd. and Chandler Blvd. were abandoned by city council March 15.

ARIZONA STATE.—Hodgman and MacVicar, 714 Plymouth Road, Pasadena, submitted low bid to the State Highway Commission, Phoenix, Mar. 17, at \$135,577.46 for highway construction under E-95-D and (A.F.E. No. 8915) and F.L.H.P. E-4-A (A.F.E. No. 8951). The work on E-95-D and F.L.H. E-4-A, begins at the northwest end of the Grand Canyon bridge near Lee's Ferry and extends southwest approximately nine miles and consists of the grading and draining and placing of subgrade stabilizer.

ARIZONA STATE.—L. E. Dixon Co. 609 South Grand Ave., Los Angeles, submitted low bid to State Highway Commission, Phoenix, March 17, at \$65,812.71 for highway construction on the Holbrook-Winslow Highway, E-40, Schedule 1 (A.F.E. No. 6656).

The work on E-40, Schedule 1, which begins at the west city limits of Holbrook and extends westerly about 10.2 miles, consists of constructing two culverts, placing subgrade stabilizer and oil processing by the plant mix method, using cutback asphaltic cement.

LOS ANGELES, Cal.—G. W. Jones, County Road Commissioner, has completed plans for the paving of Mission Road, from Hidalgo St. in the City of Alhambra, to Santa Anita Ave. in the City of San Gabriel, 1666 ft. or 0.32 mile, under Cash Contract No. 451, involving:

- (1) 34,132 sq. ft. 2-in. asph. concrete wearing surface;
- (2) 34,132 sq. ft. 4-in. asph. concrete base.

Bids will be called within the next ten days.

ARIZONA STATE.—Arizona Sand & Rock Co., Phoenix, submitted low bid to State Highway Commission, Phoenix, March 17, at \$78,615.01, for highway construction on the Prescott-Phoenix Highway, E-72-A (A.F.E. No. 8952). The work, which begins at the western boundary of the Prescott National Forest near Wilhoit and extends southwestwardly approximately 8 miles, consists of grading, draining, placing of subgrade stabilizer and oil processing by the plant mix method.

HUMBOLDT COUNTY, Cal.—Smith Bros. Co., 1636 B St., Eureka, at \$3262.80 (\$3.04 per cu. yd.) submitted low bid to District Engineer, State Highway Commission, Eureka, to furnish and stockpile screenings in Humboldt County near Mad River Bridge about 1.4 ml. west of Essex. early issue.

GLENDALE Los Angeles Co., Cal.—City will ask the county supervisors for \$15,000 of R. F. C. funds for widening of Victory Blvd.

LAKE COUNTY, Calif.—Hanrahan Co., Hobart Bldg., San Francisco, at \$59,959.20 awarded contract by State Highway Commission to grade and surface with crushed rock base and bituminous treated crushed gravel or stone surfacing 3.2 ml. between Manilla Ranch and Bartlett Springs road.

LOS ANGELES, Cal.—The improvement of Wilshire Blvd. from Figueroa St. to Park View St. has been approved by city council public works committee and has been referred to the city engineer for ordinances incidental to the necessary condemnation. Bids for this project were opened Aug. 31, 1932, at which time the low bid was submitted by Griffith Co. at \$282,679.89. All work is to be paid for in cash. The delay in awarding the contract has been occasioned by the city council's desire to study the alternative plans for improving the lake portion of the improvement.

LOS ANGELES, Cal.—John Topich, 988 Everett St., submitted low bid to board of public works March 15 at \$3-821.08 for the improvement of 76th St. between 8th Ave. and 10th Ave., and portions of 77th St., 75th St., 8th Ave., 10th Ave. and the alley west of 8th Ave., under the 1911 Act.

LOS ANGELES, Orange, San Diego and Imperial Counties, Calif.—Square Oil Co., 916 Adobe St., Los Angeles, submitted low bid to State Highway Commission State Bldg., Los Angeles, at \$2752.20 for applying Diesel oil to roadside vegetation over 79.4 roadside miles, involving 1390 bbls. Diesel Oil. Square Oil Co., \$1.98 bbl.; total \$2,-752.20.

Consumers Oil Co., \$2.14 bbl.; total \$2974.60.

Gilmore Oil Co., Ltd., \$2.63 barrel; \$3655.70.

Bonkosky & Oelke, Anahelm, \$2.94 bbl.; total \$4086.60.

The opening of these bids was postponed from March 6 on account of the recent bank holiday.

SAN MARINO, Los Angeles Co., Cal.—Until 8 P. M., April 12, bids will be received by city council to improve Oakleigh Drive, between Alhambra Road and West Drive, and a portion of Alhambra Road at its intersection with Oakleigh Drive, under the 1911 Act. Bids will be taken on items as follows:

- (1) 2000 cu. yds. grading (lump sum bid);
- (2) 1976 lin. ft. curb;
- (3) 3992 sq. ft. gutter;
- (4) 35,930 sq. ft. light oil (1 gallon per sq. yd) macadam paving (¼-½-in. thick);
- (6) drainage structures including:

1 reinforced concrete box curb, 80 ft. long by 6 ft. x 8 ft. inside, involving approx. 94.5 cu. yds. class "A" concrete and 8300 lbs. reinf. steel,
2 catchbasins;
21 lin. ft. 18-in. corr. metal pipe.

Plans may be obtained from the city engineer, Wm. Chalmers, 35 So. Raymond Ave., Pasadena. H. W. Joyce, City clerk.

BEVERLY HILLS, Los Angeles Co., Cal.—Until 8 P. M., April 11, bids will be received by city council for cleaning weeds from lots in the city of Beverly Hills. B. J. Firmlinger, city clerk.

LOS ANGELES, Cal.—Griffith Co., 502 L. A. Railway Bldg., Los Angeles, awarded contract by Board of Public Works, March 17, at \$43,619.92, for grading, paving and otherwise improving San Pedro St., between Vernon Ave. and Slauson Ave. Cash contract.

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

4.5 MILES GRADE AND PAVE—SACRAMENTO COUNTY

SACRAMENTO COUNTY Cal. — D. McDonald, 204 23rd St., Sacramento, at \$90,675 submitted low bid March 15 to State Highway Commission, Sacramento, to grade and pave with asphalt about 4.5 mi. between Mills and Nimbus, involving:

- (1) 95 sta. clear and grub right of way;
- (2) 16,000 cu. yds. rdwy. excavation, unclass.;
- (3) 5,600 sta. yds. overhaul;
- (4) 64,000 cu. yds. imp. borrow;
- (5) 1000 cu. yds. struc. excav.;
- (6) 7250 cu. yds. salvage macadam (borders and surfacing);
- (7) 52,100 sq. yds. subgrade for pave.
- (8) 22,500 tons asph. concrete;
- (9) 190 cu. yds. Class A Portland cement concrete (struc.);
- (10) 15,100 lbs. bar reinf. steel (struc.)
- (11) 548 lin. ft. 12-in. corr. metal pipe
- (12) 558 lin. ft. 18-in. do;
- (13) 24 lin. ft. 24-in. do;
- (14) 1.6 miles new property fence;
- (15) 30 drive gates complete in place;
- (16) 3 walk gates complete in place;
- (17) 50 cu. yds. light rip-rap;

- (18) 130 cu. yds. Portland cem. conc. remove from existing struc.;
 - (19) 1350 M. gals. water;
 - (20) 140 bbls. light fuel oil;
 - (21) 25 tons asph. road oil;
 - (22) 300 tons screenings;
 - (23) 150 lin. ft. special timber header;
 - (24) 235 sta. finish roadway;
 - (25) 26 monuments complete in place. State will furnish corrugated metal pipe.
- Complete bids follow:
- (A) D. McDonald, Sacramento, \$90,675.
 - (B) Heafey-Moore, Oakland and J. A. Casson, Hayward, \$95320.50.
 - (C) Peninsula Paving Co., San Francisco, \$99,555.50.
 - (D) Basich Bros. Torrance, \$102,141.30.
 - (E) Fredrickson & Watson and Jones & King, Oakland, \$105,474.96.
 - (F) Hanrahan Co., San Francisco, \$107,270.70.
 - (G) A. Teichert & Son, Sacramento, \$112,848.65.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
(1).....	\$ 2.00	\$ 5.00	\$ 4.00	\$ 4.00	\$ 6.00	\$ 2.00	\$ 2.25
(2).....	.189	.18	.17	.26	.20	.25	.27
(3).....	.01	.01	.02	.005	.01	.01	.01
(4).....	.33	.24	.25	.28	.29	.30	.30
(5).....	.50	.75	.80	.60	.60	.70	.75
(6).....	.30	.40	.43	.42	.55	.50	.70
(7).....	.09	.07	.07	.07	.07	.07	.075
(8).....	2.20	2.69	2.75	2.76	2.91	3.00	3.10
(9).....	12.65	13.00	16.00	13.00	16.50	13.00	14.50
(10).....	.05	.04	.03	.04	.63	.03	.035
(11).....	.25	.20	.20	.20	.12	.20	.25
(12).....	.30	.20	.30	.25	.18	.20	.30
(13).....	.40	.20	.50	.30	.24	.25	.50
(14).....	450.00	350.00	1100.00	700.00	600.00	500.00	700.00
(15).....	22.00	15.00	9.00	14.00	12.00	20.00	12.50
(16).....	12.00	10.00	6.50	10.00	10.00	15.00	10.00
(17).....	2.00	12.00	3.00	2.00	2.75	3.00	2.50
(18).....	2.50	2.50	2.50	2.50	3.00	3.00	4.00
(19).....	1.00	.75	1.50	2.00	1.00	.70	1.00
(20).....	2.00	2.00	1.50	1.60	2.30	1.50	2.50
(21).....	12.00	18.00	14.00	14.00	15.00	14.00	18.00
(22).....	3.00	1.50	2.00	1.35	2.20	1.50	2.00
(23).....	.25	.20	.30	.20	.20	.15	.30
(24).....	6.00	5.00	4.00	5.00	4.00	5.00	4.00
(25).....	2.50	2.50	2.50	2.00	2.50	2.50	2.75

3.3-MI. GRADE AND PAVE—SAN MATEO COUNTY

SAN MATEO COUNTY, Cal.—Basich Bros., 20,550 Normandie Ave., Torrance, and Los Angeles, at \$166,161.70 submitted low bid March 22 to State Highway Commission, Sacramento, to grade and pave with Portland cement concrete 3.3 mi. between San Francisco and South San Francisco, involving:

- (1) 3000 cu. yds. rdwy. excav., unclass.;
- (2) 43,000 cu. yds. borrow;
- (3) 12 cu. yds. struc. excav.;
- (4) 19,350 cu. yds. class A Portland cem. conc. (pave);
- (5) 537,000 lbs. bar reinf. steel (pave)
- (6) 1230 tons asph. conc.;
- (7) 21,200 tons cru. run base,
- (8) 360 tons screenings;
- (9) 660 bbls. heavy fuel oil;
- (10) 40 lin. ft. 8-in. corr. metal pipe;
- (11) 4 raise drop inlets and headwalls to grade;
- (12) 10 raise manholes to grade;
- (13) 600 sq. yds. cobble gutter;
- (14) 2560 lin. ft. remove and reset timber guardrail;

- (15) 4200 lin. ft. lam. timber guard-rail;
 - (16) 704 lin. ft. flexible metal guard-rail;
 - (17) 14 6-ft. metal headers (cribbing)
 - (18) 13 8-ft. metal headers (cribbing)
 - (19) 52 8-ft. metal stretchers (cribbing);
 - (20) 28 metal header caps (cribbing);
 - (21) 8160 lin. ft. traffic stripe;
 - (22) 163 sta. finish roadway;
 - (23) 47 monuments complete in place. State will furnish corrugated metal pipe, spillway assemblies and rail plates, spring supports and fastenings for metal guard rail.
- Complete bids follow:
- (A) Basich Brothers, Torrance, \$166,161.70.
 - (B) Hanrahan Co., S. F., \$169,710.20.
 - (C) Fredrickson & Watson, Oakland, \$172,685.
 - (D) N. M. Ball, Porterville, \$176,432.
 - (E) Peninsula Paving Co., San Francisco, \$184,738.10.
 - (F) Eaton & Smith, S. F., \$203,153.50
 - (G) Fay Imp. Co., S. F. \$221,674.96.
- Unit bids follow:

SHASTA COUNTY, Calif.—As previously reported, Tiffany-McReynolds-Tiffany Co., 535 N 7th St., San Jose, at \$9163 submitted low bid to the District Engineer, State Highway Commission, Redding, to surface 1.1 miles with crusher run base and bituminous treated crushed gravel or stone surfacing between Jenny Creek and Redding, involving:

- (1) 1700 cu. yds. crushed run base;
 - (2) 116 tons cu. yds. crushed gravel or stone (bit. treated surface);
 - (3) 6 bbls. heavy fuel oil;
 - (4) 116 tons cut-back asphalt;
 - (5) 60 sta. mix bit. binder and surfacing;
 - (6) 135 M. gals. water;
 - (7) 60 sta. finish roadway;
- Complete bids follow:
- (A) Tiffany-McReynolds-Tiffany, \$9,163.00.
 - (B) Highway Builders, Ltd., San Anselmo, \$9,326.84.
 - (C) J. P. Brennan, Redding, \$11,915.50.
 - (D) E. B. Bishop, Sacramento, \$12,428.50.
 - (E) Hemstreet and Bell, Marysville, \$12,515.50.
 - (F) Peninsula Paving Co., San Francisco, \$13,493.96.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)
(1)....	\$1.50	\$1.80	\$2.00	\$2.50	\$2.40	\$2.67
(2)....	1.70	1.80	1.95	2.65	2.60	2.17
(3)....	2.50	2.64	14.50	2.50	3.50	3.55
(4)....	18.50	17.80	18.50	18.50	22.00	24.86
(5)....	14.00	8.00	14.50	12.50	12.00	26.70
(6)....	1.20	1.00	2.50	1.50	1.50	1.74
(7)....	6.00	5.00	10.00	6.00	4.00	4.00

LIVERMORE, Alameda Co., Cal.—West Coast Construction Co., 100 Potrero Ave., San Francisco, at \$7376 Superintendent of Construction, Veterans Administration Hospital, Palo Alto, to construct a pipe line, etc., on the water system at the Veterans Administration Hospital, Livermore. Work includes the construction of one 8-in. class 150 cast iron pipe line, provision of automatic control for existing pump, corrugated iron housing around pump, etc. West Coast Con. Co. also submitted an alternate bid, adding \$434.

Complete bids follow:

- West Coast Con. Co., S. F. \$ 7,376
 - Geo. DeGolyer, Oakland 7,700
 - Scott Co., S. F. 8,087
 - Oakland Sewer Constr. Co. 8,094
 - City Constr. Co., Oakland 8,100
 - Geo. B. Miller, Beverly Hills 8,300
 - Plazza & Green, San Jose 8,463
 - W. J. Tobin, Oakland..... 8,651
 - W. E. Lyons, Oakland..... 8,724
 - P. L. Burr, S. F..... 8,742
 - E. J. Treacy, S. F..... 8,834
 - R. B. McNair, Oakland..... 8,900
 - Martin Murphy, Berkeley..... 8,990
 - J. O'Shea, S. F..... 9,000
 - Johnson & Reeves, Glendale.... 9,028
 - H. E. Connor, Redwood City.. 9,069
 - F. W. Snook, S. F. 9,079
 - Dixon & Delhi 9,110
 - Fay Improvement Co., S. F..... 9,200
 - H. C. Miller, Santa Clara..... 9,303
 - O. G. Ritchie, San Jose 9,345
 - James Currie, Burlingame..... 9,364
 - Eaton & Smith, S. F. 9,389
 - J. A. Fazio, Oakland..... 9,396
 - G. M. Gest, S. F. & Oakland... 9,400
 - Stroud Bros. & Seabrooke.... 10,092
 - Berkeley 10,275
 - Anderson & Rowe, S. F..... 10,275
 - Butte Elec. Equip., S. F..... 11,762
 - Carl T. Doell, Oakland..... 12,447
- Bids held under advisement.

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
(1)	.20	.20	.30	.40	.30	.40	.27
(2)	.16	.20	.28	.27	.23	.50	.325
(3)	.60	.75	1.00	1.00	1.00	1.00	1.00
(4)	5.71	5.95	5.95	6.25	6.17	6.07	7.28
(5)	.0242	.03	.025	.03	.03	.03	.0273
(6)	4.00	3.50	4.00	4.00	3.00	4.00	3.50
(7)	1.08	.80	1.00	.65	1.25	1.50	1.73
(8)	1.60	1.25	2.00	1.60	1.55	2.00	1.74
(9)	1.41	1.50	1.75	1.50	1.50	1.50	2.00
(10)	.25	.25	.25	.40	.30	.50	1.00
(11)	10.00	7.00	15.00	10.00	10.00	10.00	15.00
(12)	10.00	7.00	15.00	10.00	12.00	5.00	15.00
(13)	.30	1.00	.65	.80	1.14	1.00	1.89
(14)	.40	.40	.40	.40	.50	.50	.42
(15)	.65	.60	.70	.70	.65	.90	.70
(16)	.50	.20	.50	.30	.45	.50	.39
(17)	5.00	5.00	6.00	5.00	4.60	6.00	5.50
(18)	6.00	6.00	6.75	6.00	5.50	7.00	6.77
(19)	5.50	5.00	6.00	5.00	4.75	7.00	5.60
(20)	.25	.15	.50	.20	.20	.50	.25
(21)	.05	.12	.10	.06	.03	.10	.15
(22)	3.00	4.00	4.00	3.00	5.00	5.00	4.00
(23)	2.00	2.50	2.50	2.00	2.50	3.00	3.00

- (6) 2,500 M. gals. water;
- (7) 900 bbl. light fuel oil (prime coat)
- (8) 1,200 tons cut-back asphalt;
- (9) 40 cubic yards rubble masonry (walls);
- (10) 78 lin. ft. do (parapet);
- (11) 10,000 lin. ft. laminated timber guard rail;
- (12) 1034 timber guide posts;
- (13) 294 culvert markers;
- (14) 607 sta. finish roadway.

See call for bids under official proposal section in this issue.

PRELIMINARY ESTIMATE

OAKLAND, Cal.—Preliminary estimate of cost, quantities, etc., on Broadway Tunnel presented to Alameda and Contra Costa County Supervisors by Wallace B. Boggs, Joint Highway District Engineer.

Plans call for a double bore, each 3168 ft. long, total cost \$3,752,035; tunnel and approaches to be 2.08 mile long; project to involve approximately: 82,000 cu. yds. concrete; 123,000 bbls. cement; 160,000 tons rock and sand; 4,870,000 lbs. reinf. steel; 1,344,000 lbs. structural steel; 1,100,000 cu. yds. earth excav. Of the cost, the state is to pay \$300,000; Contra Costa County 10% and Alameda County 90%.

SAN FRANCISCO.—Link Belt Co., 400 Paul Ave., San Francisco, at \$2,196 submitted low bid to City Purchasing Agent under Bid No. 976, to furnish fifteen 2-compartment cars for concrete materials for Hetch Hetchy Project. Complete bids follow:
 Link Belt Company.....\$2,196
 Berkeley Steel Const. Co..... 2,400
 Montague Pipe & Steel Co..... 2,445
 California Steel Products Co..... 2,458
 Western Pipe & Steel Co..... 2,655
 Mutual Engineering Co..... 2,759
 Ocean Shore Iron Works..... 2,765
 Bay City Iron Works..... 2,998
 Fair Manufacturing Co..... 3,660
 Bethlehem Shipbuilding Corp..... 3,743
 Bids held under advisement.

BIDS WANTED

PLACER COUNTY, Cal.—Until Apr. 12, 2 P. M., bids will be received by State Highway Commission, to surface with bituminous treated crushed gravel or stone 11.5 miles between Gold Run and Airport, involving:
 (1) 100 cu. yds. struc. excavation;
 (2) 9000 cu. yds. selected material;
 (3) 33,000 tons crushed run base;
 (4) 23,000 tons crushed gravel or stone (bit. treated surf.);
 (5) 11,000 tons untreated crushed gravel or stone surf. (shoulders)

REMOVE AND CONSTRUCT BRIDGE—LAKE COUNTY

LAKE COUNTY, Calif.—Thomas J. Doyle, 1527 17th Ave., San Francisco, at \$7757 submitted low bid March 16 to District Engineer, State Highway Commission, Sacramento, to remove an existing timber bridge and construct a reinforced concrete slab bridge across Morrison Creek, 23 mi. east of Mendocino County line, consisting of two 30-ft. spans on a concrete pier and concrete abutments, involving:
 (1) 600 cu. yds. struc. excav.;
 (2) 170 cu. yds. rdwy. excav., unclass.

- (3) 192 cu. yds. Class A Portland cement concrete (footing blocks);
 - (4) 280 do (structures);
 - (5) 6 cu. yds. Class E Port. cement concrete;
 - (6) 36,000 lbs. bar reinf. steel;
 - (7) 6.5 cu. yds. sand fill;
 - (8) 1 existing bridge, remove;
 - (9) 1 existing pipe line, move.
- Complete bids follow:
 (A) T. J. Doyle, San Francisco, \$7,757.
 (B) Whited & Whited, Santa Rosa, \$7,900.50.
 (C) Sam Sciarrino, San Jose, \$8,500.

- (D) M. B. McGowan, San Francisco, \$8,878.
 - (E) E. T. Lesure, Oakland, \$9,169.20.
 - (F) Smith Bros., Eureka, \$9,551.31.
 - (G) A. F. Anderson, Chico, \$10,304.
 - (H) H. Sneed, Berkeley, \$10,481.25.
 - (I) F. J. Maurer, Eureka, \$10,900.
 - (J) W. E. Lyon, Oakland, \$11,744.40.
 - (K) F. J. Main, Fairfax, \$13,591.
 - (L) Albert H. Vogt, San Francisco, \$13,860.00.
- Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)
(1)	\$ 2.50	\$ 1.00	\$.92	\$ 3.00	\$ 1.35	\$ 1.00	\$.75	\$.55	\$ 1.50	\$ 2.00	\$ 1.00	\$ 2.00
(2)	.60	.30	.60	.60	1.10	.60	.75	.65	.70	.85	.75	.50
(3)	8.00	2.50	9.50	8.00	9.60	10.00	14.30	12.75	14.00	11.30	22.00	16.00
(4)	10.50	17.00	16.00	12.50	16.00	17.50	17.88	16.70	18.00	21.55	20.00	25.00
(5)	50.00	40.00	40.00	55.00	65.00	33.00	40.00	50.00	50.00	63.80	50.00	40.00
(6)	.03	.0375	.0327	.032	.0375	.035	.04	.039	.04	.037	.07	.05
(7)	4.00	3.00	1.00	4.00	4.00	3.74	5.00	3.50	2.00	3.00	3.00	2.00
(8)	200.00	300.00	40.00	300.00	60.00	181.99	112.00	730.00	225.00	272.00	100.00	200.00
(9)	73.00	100.00	24.30	132.00	50.00	66.00	150.00	225.00	175.00	190.00	100.00	250.00

SNEATH RANCH JAIL WATER SYSTEM—SAN FRANCISCO

SAN FRANCISCO — West Coast Construction Co., 100 Potrero Ave., San Francisco, at \$29,700 (lump sum bid) submitted low bid March 15 to Department of Public Works to construct water system about 3-mi. in length from San Andreas to the site of the Sneath Ranch jail in San Mateo County. Complete bids follow:
 (A) West Coast Constr. Co., \$29,700.
 (B) F. W. Snook, \$20,892.
 (C) E. J. Treacy, \$31,248.12.
 (D) P. L. Burr, \$31,642.

- (E) Scott Co., \$32,427.
 - (F) Alta Elec. Co., \$32,440.
 - (G) Eaton & Smith, \$33,400.
 - (H) Geo. Frankel (Anderson & Rowe), \$33,425.
 - (I) J. O'Shea, \$33,500.
 - (J) Herman Lawson Co., \$34,000.
 - (K) MacDonald & Kahn, \$34,810.
 - (L) Fay Improvement Co., \$36,268.
 - (M) C. L. Harney, \$37,500.
 - (N) W. J. Tobin, \$37,839.90.
- Bids were taken on alternates as follows:

- (1) deduct for 6-in. pipe instead of 10-inch;
- (2) add for wrought iron plates instead of steel water storage tank;
- (3) deduct for tank to be steel with all joints welded.
- (4) add or deduct for universal cast iron pipe instead of bell and spigot;
- (5) add for water tank of Ormcov Ingot iron, joints welded.

Alternate bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)
(1)	\$7000	\$7850	\$8127.42	\$8425	\$7665	\$7600	\$.....	\$7747	\$7900	\$7100	\$6000	\$8450	\$5000	\$5700
(2)	1216	1336	1216.00	1337	1325	1350	1250	1250	1216	1357	1216	1335	1300	1220
(3)	216	215	215.00	200	232	115	200	200	215	175	215	200	100	220
(4)	add	500	2500.00	535	2500	1975	2300
(5)	ded.	1306	1200
(5)	500	510	466.00	500	508	495	500	500	520	366	500	500	470

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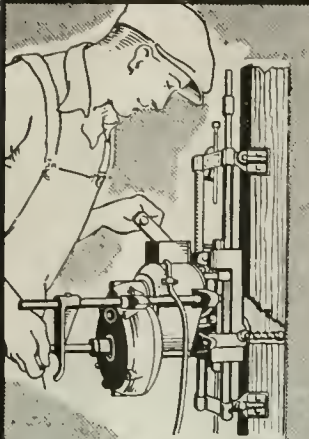
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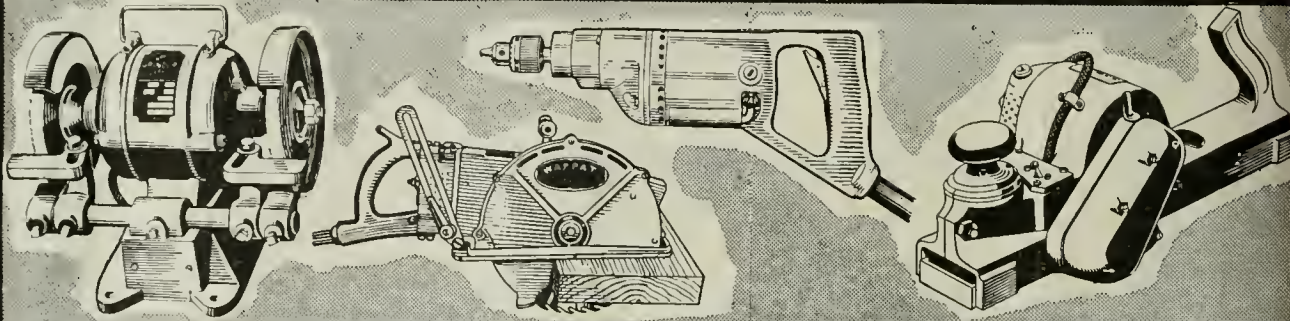
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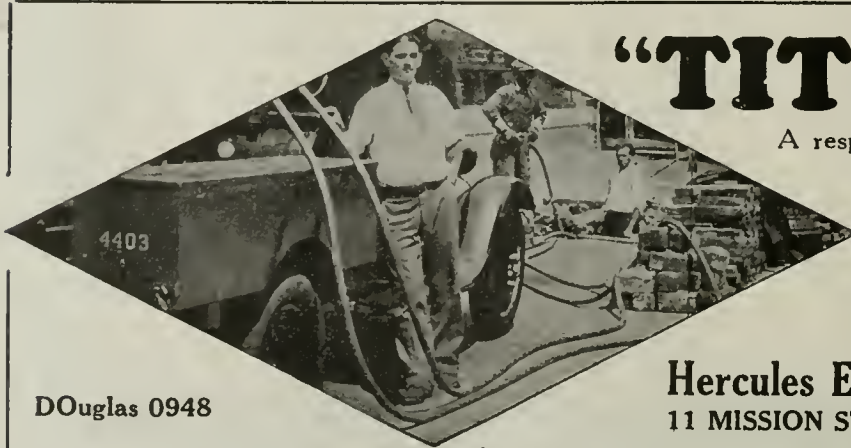
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for the Eleven Pacific Coast States

SAM B. EUBANKS, Editor

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No. 11

HOMANN ASSERTS NEED OF STATE LICENSE PROVED

Says Building Failures in Earthquake Demonstrates Regulation Essential

SACRAMENTO, March 29. — Declaring that the recent earthquake disaster in Southern California "clearly demonstrates the need of strict regulation of contractors," Ralph Homann, Los Angeles, president of the California State Builders' Exchange, today issued a strong appeal for defeat of impending legislation to abolish the state contractors' registration bureau.

Homann also pointed out that the illegal substitution of materials of a cheaper, inferior quality than those called for in plans for public and private construction "was responsible for considerable damage."

"In order that the building public may receive adequate protection of life and property," Homann said, "it is imperative that strict supervision and regulation of contractors be maintained by the state.

"The fact that many buildings collapsed during the earthquake, due to inferior workmanship and illegal substitution of cheaper and inferior materials, clearly demonstrates this need.

"It is, indeed, significant that a majority of the schools and other buildings which collapsed during the quake were erected prior to enactment of the state contractors' act by the 1929 legislature, while other similar buildings erected since withstood the strain of the quake.

"Consequently, The California State Builders' Exchange is unalterably opposed to any movement which will break down the present state system of regulation of contractors, which has resulted in untold benefit to the public and the building industry."

He said, "Repeal of the contractors' law would also be false economy, inasmuch as its operation is financed by fees paid by contractors."

THE WEEK'S NEWS Highlights

BRIDGE BIDS—Clinton Construction Company, San Francisco, submitted the low bid on construction of the Yerba Buena Island tunnel and cable anchorages for the bay bridge at \$1,821,292. Healy-Tibbitts Construction Company, San Francisco, on the following day was low bidder, at \$1,036,500, for construction of the San Francisco cable anchorage. These openings brought the total bridge work authorized to date to \$36,841,315, and initiated all of the major contracts for the structure, including east and west bay foundations and suspension spans, tunnel crossing and anchorages. On the basis of present figures, Chief Engineer Charles H. Purcell estimates a saving over original estimates of \$8,000,000, bringing the probable total cost of the actual construction of the entire crossing to \$55,000,000.

STATE LICENSING — Contractors' associations are preparing to defend the California State Registration Act at committee hearings next week, when the Legislature will consider proposals for repeal of the licensing act and elimination of the office of registrar.

LUMBER ORDERS GAIN — New business booked at the nation's lumber mills for the week ended March 18, was 31 per cent above the previous high week of the year to date, and 14 per cent above the corresponding week of 1932. West Coast pine mills contributed substantially to this increase, showing new business nearly 40 per cent above that for the same week a year ago.

WAGE SCALE SET—Reductions ranging up to 25 per cent in the prevailing wage scale for Santa Clara County were voted by the Board of Supervisors in fixing the rate to be paid on public works during 1933. Five road improvement contracts and a contract for construction of the Julian street bridge in San Jose were advertised immediately after the wage scale was fixed.

SUPERIOR COURT RULES ON WAGE SCALE ORDINANCE

Specific Rate Declaration Is Unnecessary In Bid Call

Legality of a municipal bid call that did not specify the prevailing wage scale was upheld by a decision of Superior Judge E. P. Shortall in San Francisco county made public yesterday.

The court denied a petition filed by Edmund Brown, a taxpayer, to enjoin the Public Utility Commission from entering into a contract with Meyer Rosenberg for hauling Hetch Hetchy sand and gravel.

The petitioner contended that the bid call was illegal by reason of failure to include the county wage scale as fixed by the board of supervisors. The bid call specified only that the wages paid must not be lower than the highest prevailing scale in private employment. This general provision was held to be sufficient by Judge Shortall.

"It is not necessary to include a specific wage scale," Judge Shortall's opinion said. "The contract is legal inasmuch as it follows the charter provision and stipulates that the wages paid shall be the same as the highest prevailing wages in private employment."

A contract awarded to American Concrete Pipe Company for 7000 feet of pipe line is affected by the decision, also.

The opinion is considered an important interpretation of the prevailing wage law which is being tested in another action now pending in the supreme court that seeks to restrain the board of public works from proceeding with a contract for the county hospital psychopathic ward under the wage scale specified.

The board of public works is continuing its bid opening date from time to time on this project, awaiting the court's decision. The opening now tentatively set for April 5 will be set ahead again probably at the next meeting of the board, according to William H. Worden, director of public works.

NATIONAL CENSUS REPORTS 144,396 U. S. CONTRACTORS

Summary Fixes \$4,794,772,-
665 As Building Total
in 1929

The Bureau of the Census announces that the United States Summary of the Construction Industry has been issued. The statistics presented are based on data gathered in 1930 as a part of the Fifteenth Decennial Census.

Pertinent figures on the construction industry; how the construction dollar is spent, the percentage for wages and materials, the amount of overhead, the items making up this overhead, the proportionate market for each of the basic construction materials, the type of construction firms, the amount of work executed by the out-of-state contractors, the distribution of the market, are items on which the summary presents adequate data.

Reports were received from 144,396 firms in the contracting business as operative builders, general contractors, or subcontractors. Of this number 30,597 firms which had a business of \$25,000 or more during 1929, reported a total business of \$6,250,266,665, of which \$4,217,366,643 of business was done by 14,766 general contractors of all classes; \$153,523,886 by 750 operative builders; and \$1,879,376,136 by 15,081 subcontractors.

As much of the volume of business reported by subcontractors was also reported by general contractors as subcontract work let, the volume of actual construction executed by all these larger reporting firms amounted to \$4,794,772,665 for the year. The business of the contracting establishments which did a business of less than \$25,000 in 1929 is estimated at over \$1,000,000,000.

The larger-sized group of contractors furnished 828,772 man-years of work while the smaller contractors augmented this number by about 179,000 man-years of work or, together, a total of approximately 1,008,000 man-years. These figures do not include salaried employees or proprietors or firm members.

Copies of this report entitled, "Construction Industry — Summary for the United States," are obtainable from the Superintendent of Documents, Government Printing Office, Washington, D. C., at the price of 20 cents. Remittance may be made by postal money order (not stamps), express money order, check made payable to the Superintendent of Documents, or by currency sent at the sender's risk.

JAIL BID OPENING RESET FOR APRIL 12

Bids on the new San Francisco county jail general contract will be received until April 12, it was announced Saturday by Director of Public Works William H. Worden. The date was advanced two weeks after having been set originally for March 29 at the request of contractors who desired more time to figure the plans.

Worden said also that the contract for mechanical work probably will be advertised shortly for bids on April 19.

The estimated cost of the jail building is \$490,000.

LAW TO COMPEL RESIDENT LABOR

Ordinance Being Drafted To Bar Outsiders From Public Construction

City Attorney J. J. O'Toole is preparing the preliminary draft of an ordinance to compel contractors on city construction projects to employ San Francisco residents only.

The ordinance was proposed by the Public Welfare Committee of the Board of Supervisors, and sponsored by the Junior Chamber of Commerce.

It is proposed that Board of Public Works inspectors be assigned to see that contractors carry out the ruling if the ordinance is passed. O'Toole pointed out that such inspectors could not be used to investigate workmen on projects of the Public Utilities Commission, without inter-departmental adjustment.

\$311,000 HETCH HETCHY APPROPRIATION OKEHD

The finance committee of the board of supervisors yesterday recommended the appropriation of \$311,000 in Hetch Hetchy bond money to cover remaining contracts on the Hetch Hetchy project.

E. G. Cahill, director of public utilities, explained to the committee that the appropriation was necessary since sums now on hand were specifically budgeted for "tunnel work," and could not be used for the remaining units, which include the pipe line from Irvington portal to the Bay crossing, the Alameda creek syphon, and the drainage canal at Moccasin power house.

SCHOOL CHIEF TO ASK STATE PLAN BUREAU

Kersey Will Recommend Legislation To Regulate All Building

Introduction in the state legislature of a bill to require state approval for all school building plans is proposed by Vierling Kersey, state superintendent of public instruction.

Kersey made this announcement after an inspection of school buildings wrecked in the Southern California earthquake. He said he would ask the legislature to empower the state department of education to approve or reject plans for any school building.

He estimated that seventy school buildings were destroyed by the quake and will have to be replaced at a cost of \$12,000,000; 120 others sustained major damage which will cost \$5,000,000 to repair; while 300 others slightly damaged and can be repaired for \$100,000.

Kersey predicted that a state school building code would be adopted to guarantee buildings of adequate protection in case of earthquake.

"At present," he said, "the state division of school house planning is only an advisory board. Instead of abolishing it, as was proposed by one legislator, we should strengthen it.

"I believe school districts should be required by law to conform to the recommendations of this division.

"It need cost no more to build an adequate, attractive, safe school building, of simple rather than ornate design than it has cost to build any of the structures which have been destroyed."

State Director of Finance Roland Vandegrift who accompanied Kersey on his trip said he would include the following provisions in school building restrictions: First, no hollow tile bearing walls; second, on unsupported brick bearing walls; third, no brick veneering; fourth, no supported brick parapet walls; fifth, no stilt foundations for frame buildings; sixth, no decorations on the buildings which might fall in case of an earthquake.

NEW BOARD CHAIRMAN

J. F. Cambiano, San Mateo, has been elected chairman of the San Mateo county planning commission, succeeding Roy Bishop, Woodside, who resigned a short time ago. Alvin S. Hatch of Half Moon Bay, was named vice-chairman and Jas. J. James has been reappointed secretary.

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EXPLAIN CITY ACT BARRING NON-RESIDENTS

**Long Beach Exchange Comm.
Will Certify Permits for
Outside Firms**

Explanation of the adoption of an emergency ordinance by the Long Beach city council in effect restricting earthquake reconstruction work to resident contractors is contained in a bulletin issued by Long Beach Builders' Exchange.

Reputable firms will be permitted to engage in rebuilding, provided a license is obtained from the city council, the bulletin declares. A certification committee composed of representatives from seven civic organizations will be formed to pass on applications from non-resident contractors, the Exchange announces. The committee members will be from the Builders' Exchange, Chamber of Commerce, Architects' Club, Realty Board, Better Business Bureau, American Society of Engineers and Long Beach Credit Association.

Following is the Exchange statement on the certification ordinance:

By reason of the disaster that has befallen Long Beach, the loss suffered by our local firms and crafts in the construction industry and the unemployment condition existing previous to the time of this disaster, the City Council passed an Emergency Ordinance covering non-resident contractors, labor, mechanics, architects, and artisans not residents of Long Beach on March 9, 1933.

We feel that we voice the sentiment of our City Council and the people of this city when we say that we deeply appreciate the wonderful spirit exemplified by all who have rushed to our relief in the time of need. In the passing of such an ordinance we only ask and hope that the outside world will consider our action in the same light as they would had it happened in their own community. In the loss our own people have suffered, we believe they should be given the first consideration in helping them

to recover their loss as far as is possible for them to do so and we feel that we have an obligation in protecting our people from racketeering, profiteering, and an irresponsible element in the construction industry who have sought to take advantage of this condition and reap a harvest from an unfortunate people.

Long Beach has been flooded with this element and already many of our citizens will suffer a further loss by reason of their haste to get back into their homes and re-establish their business. It is for these reasons only that we have sought to stem the tide and keep this element from our city. We want to deal fairly with the non-resident legitimate element in the construction industry and give them every consideration possible and this Emergency Ordinance provides that, upon a proper showing, they may apply for a permit to the City Council and we feel confident that our program for protection will not work any undue hardships upon any concern who can establish a proper standing of responsibility. There is little doubt but that considerable outside help will soon be needed and called upon and until we reach this point, we trust we have your cooperation and support in the measure we have adopted for self-protection.

A Certification Committee has been named by the City Council to pass upon all non-resident applications for a permit as provided by the Emergency Ordinance. Application forms may be secured at the Builders' Exchange, 947 Pine Ave., Long Beach, headquarters for this committee and will receive attention with all possible speed, and their recommendation certified at once to the City Council. It is hoped that this committee will be organized to function commencing Thursday, March 23. Application forms will be mailed upon request.

HANDBOOK AVAILABLE

Copies of the handbook "Modern Connectors for Timber Construction" may be obtained at 30 cents a copy by addressing J. Kaplan, Washington Loan and Trust Bldg., Washington, D. C. The price includes mailing cost.

59 EXHIBITORS SIGN FOR SPACE IN BURNER SHOW

**Manager Reports 85% Available
Booths Reserved by
Manufacturers**

Approximately 85 per cent of all available space for the Tenth National Oil Burner Show to be held in Chicago, June 12-16, has already been reserved, according to Harry F. Tapp, executive secretary of the American Oil Burner Association, who said that a total of 59 exhibitors had taken 90 spaces up to March 8.

"Considering that our show and convention is still three months away and in view of the immediate interest now in evidence among prospective participants in the show our optimistic expectations of a few months back will be more than surpassed," Mr. Tapp said.

"We believe that when the complete list of companies, who will participate, is announced, that the show will be truly a roll-call of leaders in their line and will reflect the decade of progress through which our industry has passed since the formation of the Association ten years ago," he stated.

In addition to a wide variety of exhibits at the show itself, it is anticipated that the convention sessions will bring our new attendance records. Dealer representation during the convention is expected to approximate 5,000 not only because of the oil burner show but also because of the Century of Progress which opens in Chicago June 1. Plans are now being developed by the A.O.B.A. whereby it will be possible for large groups of eastern dealers to make the round trip from Buffalo to Chicago entirely by water on specially chartered boats at substantially reduced rates.

Within the next 30 days the complete program for the convention together with the list of speakers will be announced to the industry.

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1933 WAGES FOR S. CLARA COUNTY WORK DECIDED

Supervisors Order Reductions From Last Year's Scale

Santa Clara county prevailing wage scales will be from 10 to 25 percent lower in 1933, according to the rates set in the ordinance adopted by the board of supervisors at its meeting last Monday.

Reductions range up to \$2.50 a day in the case of steam shovel operators.

The wage scale for 1933 was set as follows:

Asphaltic plant platform labor.....	\$6.00
Bricklayers.....	9.00
Bricklayers, tenders.....	5.50
Blacksmith.....	6.00
Carpenters.....	8.00
Cement finishers.....	8.00
Concrete mixer operator, small....	6.00
Concrete mixer operator, large....	9.00
Engineers, hoisting, portable quarries, tractor over 50-hp. rating.....	8.00
Engineers, rollers, mixers, asphalt plants, stone derricks.....	8.00
Engineers, bridge and structural.....	8.00
Engineers, pile drivers, derrick barges, cableways.....	9.00
Engineers, firemen and apprentices.....	6.00
Engineers, portable compressor operator.....	6.00
Graderman.....	5.00
Iron workers, reinf. concrete.....	8.00
Iron workers, bridge and struc....	9.60
Laborers.....	4.00
Pile drivers, wharf builders.....	9.00
Plasterers.....	8.00
Plasterers, hod carriers.....	5.50
Powderman.....	5.00
Mechanical pavement finisher operator.....	6.00
Shovel operators, up to and including 1/2 yard.....	7.50
Shovel operators, from 1/2 yard up and including 1 yard.....	9.00
Shovel operators, from 1 yard up....	10.00
Shovel operators, underground....	11.00
Shovel operators, cranesmen.....	8.50
Shovel operators, cranesmen underground.....	9.50
Shovel operators, firemen and watchmen.....	7.00
Shovel operators, oilers.....	5.00
Teamsters, 1 and 2 horse team drivers.....	5.00
Truck drivers, under 3 ton.....	5.00
Truck drivers, 3 ton and up to 6 1/2 tons.....	5.60
Truck drivers, over 6 1/2 tons.....	6.00
Tractors, up to and including 50-hp.	6.50
Tractors, under 30-hp.	5.00
Trouble shooter, mechanic.....	6.40

Reductions from the 1932 scale are as follows:

Bricklayers, from \$11 to \$9; bricklayers' helpers, \$6.50 to \$5.50; hoisting, mixing, roller and portable equipment engineers, \$9 to \$8; hridge and structural engineers, \$10 to \$8; firemen and apprentices, \$7 to \$6; portable compressor operator, \$7 to \$6; gradermen.

W. E. HAGUE INJURED IN ACCIDENT HERE

Wm. E. Hague, secretary-manager of Alameda county chapter, Associated General Contractors, suffered a fractured leg when he was knocked down while boarding a street car in San Francisco Monday night. He was taken to Mouni Zion Hospital where the broken bone was set yesterday.

Mr. Hague was getting on a car at Ninth avenue and California street on his way downtown when it started with a jerk that caused him to lose his footing. His right leg was broken by the fall.

Mr. Hague is widely known in Northern California, having been identified with the construction industry for many years. His home is at 4639 California street.

ASK DATA ON CITY SEWER PLANT PLAN

Palo Alto authorities have been invited to submit data on the contemplated municipal sewage disposal plant for consideration of United States public health service.

The national bureau is seeking information on necessary sanitary projects. The city of Palo Alto has plans for a new sewage disposal plant which it is estimated could be constructed at a cost of \$160,000.

STRUCTURAL ENGINEERS ELECT NEW OFFICERS

Blaine Noice was elected president of the Structural Engineers' Association of Southern California at the annual meeting of that organization at Los Angeles. R. V. LaMarre was elected vice-president and J. E. Shield, secretary-treasurer.

The new board of directors consists of Oliver G. Bowen, George J. Carroll, Clarence J. Derrick, Mur. R. R. Martel and Blaine Noice.

BRANCH OPENED

Plymouth Cordage Company with headquarters in North Plymouth, Mass., manufacturers of Manila and Sisal rope, cordage, twines and cables, has established a branch office and warehouse at 56 Sacramento street, San Francisco. Bartlett Bradley is in charge of the office as Pacific Coast representative.

\$6 to \$5; plaster hod carriers, \$6.50 to \$5.50; shovel operators up to 1/2-yard, \$10 to \$7.50; teamsters, \$5.50 to \$5.00; truck drivers, 3 tons to 6 1/2 tons, \$6.50 to \$5.60; tractor operators up to 50-hp., \$7.50 to \$6.50; trouble shooter mechanics, \$7 to \$6.40.

MATERIAL LIEN CLAIM DENIED BY HIGH COURT

Segregation of Contractor's Payments Held Responsibility of Vendor

The principle that materialmen who receive payment from loan associations through contractors who have accounts with them are bound to determine to what particular job the money is to be applied, was affirmed in a decision on file today in the State Supreme Court here, reversing a Modesto judgment upholding materialmen in a lien against a home.

The Modesto Lumber Company and the Turner Hardware and Implement Company had sued the Modesto Building and Loan Association, V. L. Bates, contractor, and Lewis D. Wyld and wife, owners of the home, claiming liens amounting to \$900.

The Wylde had secured a loan of \$3575 from the association, to construct a house. Bates was given checks by the association to cover cost of materials used in the house. Having a personal account with the materialmen, he turned the checks over to them, to be applied to the account. He had several building projects on hand at the time, and failed to inform the materialmen which job the payments covered.

When the work was completed, the two firms filed a lien, alleging that the payments merely covered a part of Bates's balance, leaving the materials in the Wylde home unpaid for.

The owners filed a cross-complaint, with Bates and the loan company as co-defendants. They alleged the association had guaranteed to protect them from all claims of lien.

Judge Fulkerth of Modesto upheld the plaintiffs, but ruled that the claim should be paid by the loan association and not by the owners.

The Wylde and the loan association filed an appeal, which resulted in reversal of the verdict by the Supreme Court.

The court held that in the majority of such cases the payments would be naturally applied to the account of the contractor, but that when the checks come from a building and loan association and the materialmen have knowledge of the circumstances, it is their duty to inquire of the loan association as to what specific project the payments are to cover, and that they are not to rely on the statements of the contractor.

GRADER BLADES TO FIT ANY GRADER

THE SOLANO IRON WORKS

ALLSTON WAY AND THIRD STREET

BERKELEY, CALIF.

BERKELEY C311

Confidence Reflected in Heavy Buying at Mills; Weekly Orders Highest for Year

SEATTLE, Wash. (Special)—The marked increase in lumber orders reported by mills in the Douglas fir region to the West Coast Lumbermen's Association for the week ending March 18 is the result of more active buying in the Middle West, and the Atlantic Coast districts. Orders received by the industry were more in total than in any previous week this year and were equalled by only two weeks in 1932.

The immediate cause of the increased buying of West Coast lumber is undoubtedly the greater confidence which pervades business circles as the result of the effective action of the government in dealing with the banking situation and the widespread belief that this and other vigorous public measures mark a turning point in the depression. Rising commodity values are expected. A gradual resumption of building is believed to be not far away. Lumber dealers are taking advantage of the present very low prices to somewhat augment their stocks.

The buying movement in western lumber evident during the past two weeks is not expected to attain large proportions; and is still, of course, for short of anything approaching a normal demand for the products of West Coast sawmills. Its extent will depend upon the actual resumption of building and industrial use of lumber, which can not yet be predicted. Underlying it, however, is the important fact that the West Coast lumber industry has reached rock-bottom prices, the lowest of the past thirty years, and has cleaned its house of surplus stocks. Mill inventories in the Pacific Northwest were reduced 25 per cent during the past year and have nearly been cut in half in the past three years. The West Coast lumber stocks on January 1 were equivalent to but one-third of the volume of lumber sales during 1932, although such sales were only about one-third of the yearly business of the industry prior to the depression.

Retail yard stocks are exceptionally low in most portions of the United States. There is no surplus of lumber in the country. Even at the very low business ebb of recent months, supply has been well balanced with demand. Any increase in consumption will strengthen the market position of lumber.

The West Coast Lumbermen's Association does not anticipate large construction activities during 1933. It does look forward, however, to the resumption of building in the form of small homes and, sooner or later, to farm improvement with new buildings and repairs.

There is a shortage of homes in the United States today. The next large building movement bids fair to be the extensive construction of small, inexpensive houses, partic-

ularly in suburban and rural districts. Housing and living conditions in many parts of the country point to a demand for small homes that will attain large proportions when home financing becomes available within reasonable cost.

It is this market, together with farm improvements and repairs, that the lumber industry is preparing for. The home owner's dollar will buy almost twice as much lumber at West Coast mills as it did four years ago. It will buy better lumber, of standard uniform grades. It will buy better service from the lumber manufacturer and retail dealer, including the furnishing of well-designed complete homes, with many modern improvements in the use of West Coast lumber, millwork, plywood and Western Red Cedar shingles of the standard grades approved by the United States government. Many new forms of mill fabrication in the furnishing of these materials are now available which give the home

builder a lower cost and greater utility, comfort, and beauty in his home.

The West Coast Association is this week distributing designs for four cottage homes of West Coast woods, which can be built today for from \$1000 to \$1800. These have all been designed by experienced architects and tested by actual construction. It is proposed to make the designs and materials for these inexpensive houses widely available to families desiring homes through the retail lumber dealers in their communities. It is the purpose of the Association to enlist the interest and active support of many architects in designing small and inexpensive but well-built homes of wood as a means of stimulating this type of construction.

PUBLICATION REVISED

Portland Cement Association has issued a revised edition of a booklet describing concrete swimming pools, the original edition having been exhausted by trade demands. Illustrations of several California pools are included in the text.

Pacific Clay Products

General Offices: 650 Chamber of Commerce Bldg.,
1151 SOUTH BROADWAY
Los Angeles, Calif.



In San Francisco

A welcoming room...an enterprising chef... a Union Square location (and that says volumes if you know your San Francisco) ...These are among the Plaza features that will brighten the days of your visit here † †

RATES: \$2 to \$4

RAY MAXWELL, Manager

HOTEL
PLAZA
POST STREET AT STOCKTON
SAN FRANCISCO

PERMITS AND CONTRACTS

SAN FRANCISCO COUNTY

165	Ericsson	Stotzer	2800
166	McDevitt	Barrett	1600
167	Meyerfield	Mullen	1800
168	A. B. & M.	Wold	11000
169	De Micheli	Bettencourt	4000
170	Herzig	Owner	4000
171	Herzig	Owner	4000
172	Rovesco	Owner	3000
174	Naylor	Owner	1000
175	Congregation	Spivock	2500
176	Woolsey	Owner	5000
177	Park	Owner	8000
178	Carlson	Owner	2750
179	Eanks	Lind	3000
180	Raisch	Various	100000
181	Paoli	Lindsay	6300
182	Hansen	Malloch	2000

ALTERATIONS

(165) NO. 1352 GUERRERO. Alter flats for apartments.
Owner—E. F. Ericsson, 1352 Guerrero St., San Francisco.
Plans by L. Rasmussen, 3512 Geary St., San Francisco.
Contractor—F. Stotzer, 363 20th Ave., San Francisco. \$2800

STORE

(166) S SUTTER 249 E Fillmore St. One-story frame store.
Owner—V. McDevitt, Sutter and Steiner Sts., San Francisco.
Plans by Owner.
Contractor—Barrett & Hilp, 918 Harrison St., San Francisco. \$1600

ALTERATIONS

(167) NO. 152 GEARY ST. Alter offices.
Owner—M. Meyerfield Jr., Russ Bldg., San Francisco.

Architect—Not Given.
Contractor—Mullen Mfg. Co., 60 Rausch St., San Francisco. \$1800

PRINTING PLANT

(168) SE HARRISON & CHESLEY. One-story and mezzanine Class C printing plant.
Owner—A. B. & M. Corporation.
Architect—C. O. Clausen, 746 46th Ave., San Francisco.
Engineer—W. Adrian.
Contractor—C. L. Wold Co., 4412-4416 Fulton St., S. F. \$11,000

DWELLING

(169) NE 20th and VERMONT: one-story and basement frame dwelling.

Owner—A. De Micheli, 527 Lombard.
Architect—C. Strothoff, 2274 15th St.
Contractor—J. Bettencourt, 422 San Anselmo Ave., San Bruno. \$4000

DWELLING

(170) E 21st AVE. 210 S Ocean Ave.; one-story and basement frame dwelling.

Owner and Builder—A. J. Herzig, 635 Victoria Avenue.
Architect—Not Given. \$4000

DWELLING

(171) E 21st AVE. 290 S Ocean Ave.; one-story and basement frame dwelling.

Owner and Builder—A. J. Herzig, 635 Victoria Avenue.
Architect—Not Given. \$4000

DWELLING

(172) SW MOSCOW AND ITALY. Two-story and basement frame dwelling.

Owner—A. Rovesco, 811 Athens St., San Francisco.
Architect—Not Given. \$3000

ALTERATIONS

(173) SW FOURTH AND MISSION Alter hotel.

Owner—G. Wright and L. Musso, 4th and Mission Sts., San Francisco.
Plans by Contractor.
Contractor—N. P. Evanov, San Anselmo. \$2000

ALTERATIONS

(174) NO. 34 TURK ST. Alter store for restaurant.

Owner—W. W. Naylor, 34 Turk St., San Francisco.
Architect—Not Given. \$1000

ALTERATIONS

(175) W TWENTY-FIFTH AVE., bet. Cabrillo and Balboa Sts. Alter church.

Owner—Congregation Chevra Thilim, 749 25th Ave., San Francisco.
Plans by Owner.
Contractor—W. Spivock, Hobart Bldg., San Francisco. \$2500

FLATS

(176) N BEAVER 310 W Noe St. Two-story and basement frame (2) flats.

Owner—Mrs. L. E. Woolsey, 769 Dolores St., San Francisco.
Plans by Clarence Baker, 155 Montgomery St., S. F. \$5000

SHELTER

(177) GOLDEN GATE PARK near Alford Lake. One-story frame and brick shelter for card players.

Owner—Park Commission, Mrs. D. Ghirardelli, Donor.
Architect—Bliss & Fairweather, Balboa Bldg., S. F. \$8000

DWELLING

(178) N FAIRMOUNT 142 E Whitney. One-story and basement frame dwelling.

Owner—A. Carlson, 170 Fairmount St., San Francisco.
Plans by C. L. Nelsen, 208 Fairmount St., S. F. \$2750

DWELLING

(179) N TWENTY-FIRST ST. 50 E Hampshire. One-story and basement frame dwelling.

Owner—Mrs. S. Banks, 2624 21st St., San Francisco.
Plans by Contractor.
Contractor—R. Lind, 54 Stanton St., San Francisco. \$3000

APARTMENTS

(180) NW SECOND AND PARNASUS Aves. Five-story and basement Class C (55) apartments.

Owner—Mrs. F. V. Ralsch, % Architect.
Architect—H. C. Baumann, 251 Kearny St., San Francisco.
Engineer—J. M. Smith, 251 Kearny St., San Francisco.
Various Contractors. \$100,000

DWELLINGS

(181) W ALEMANY 275 N Santa Rosa. Two one-story and basement frame dwellings.

Owner—L. De Paoli, 3289 Mission St., San Francisco.
Plans by Contractor.
Contractor—C. Lindsay, 3289 Mission St., S. F. \$3150 each

ALTERATIONS

(182) NO. 347 STOKTON ST. Alter studios.

Owner—G. Hansen, % Architect.
Architect—S. Heiman, 605 Market St., San Francisco.
Contractor—J. S. Malloch, 666 Mission St., San Francisco. \$2000

ALAMEDA COUNTY

86	Marcovich	Norling	4000
87	States	Owner	1500
88	Metropolitan	Meinberger	6245
89	Hansen	Rose	3900
90	Loveland	Pfrang	4275
91	Bonds	Bonds	5000
92	Clark	Owner	1000

DWELLING

(86) NO. 911 PARU ST., ALAMEDA. Dwelling.

Owner—J. P. Marcovich.
Architect—Not Given.
Contractor—Robert F. Norling, 5947 E-16th St., Oakland. \$4000

ALTERATIONS

(87) SE COR. 23rd and BROADWAY, OAKLAND; alterations.

Owner and Builder—State Building & Loan Assn., 416 15th St., Oakland.
Architect—Not Given. \$1500

ALTERATIONS

(88) 1450 BROADWAY, OAKLAND; alterations.

Owner—Metropolitan Life Insurance Co., San Francisco.
Architect—Bliss & Fairweather, 1001 Balboa Bldg., San Francisco.
Contractor—H. S. Meinberger, 343 4th St., San Francisco. \$6245

REPAIRS

(89) NO. 2020 SAN PABLO AVE., BERKELEY. Repair fire damage

Owner—E. F. Hansen, 1977 Hopkins St., Berkeley.
Architect—Not Given.
Contractor—R. H. Rose, 478 25th St., Oakland. \$3900

DWELLING

(90) NO. 3325 FLORIDA ST., OAKLAND. One-story 6-room dwelling

Owner—S. Loveland, 2516 Shattuck Ave., Berkeley.
Architect—Not Given.
Contractor—C. J. Pfrang, 6300 Claremont Ave., Oakland. \$4275

DWELLING

(91) E REGAL ROAD 50 E Spruce St. BERKELEY. Two-story 8-room frame dwelling and garage.

Owner—Milton S. Bonds, 2396 Hilgard St., Berkeley.
Architect—W. W. Dixon, 5th Ave. and E-18th St., Oakland.
Contractor—Milton S. Bonds, 2396 Hilgard St., Berkeley. \$5000

ALTERATIONS

(92) NO. 2136 TWENTY-FOURTH AVE., OAKLAND. Alterations and additions.

Owner—B. W. Clark, 170 Sato St., Hayward.
Architect—Not Given. \$1000

SAN FRANCISCO UNDER \$1000

SIGN, electric, \$80; 1135 Van Ness; owner, National Auto Loan Co., Premises; contractor, American Elec. Sign Co., 1740 Eddy St.

GARAGE under dwelling, \$300; 61 Niagara Ave.; owner, E. A. Franke, Premises.

REPAINT sign, \$20; 2080 Mission St.; owner, Franco Hardware Co., 2080 Mission St.

ALTER flats, \$100; 2849 Washington St.; owner, W. A. Lewis, Prem.

SIGN, electric, \$200; 1476 Haight St.; owner, V. F. McNally, 1476 Haight St.; contractor, Elec. Prods. Corp. 255 Golden Gate Ave.

SIGN, electric, \$200; 808 Kearny St.; owner, Palm Hotel, 808 Kearny St.; contractor, Elec. Prods. Corp., 255 Golden Gate Ave.

REPAIR fire damage to dwelling, \$274 1911 23rd St.; owner, J. and A. Orloff, 632 Commercial St.

ALTER flats for apartments, \$500; 3782 Mission St.; owner, J. F. McGowan, 159 Rousseau.

REPAIR flats, \$200; 156-158 Fairmount St.; owner, F. M. Cooper, 47 10th St.

SIGN, electric, \$200; 674 Market St.; owner, Tascone's, Premises; contractor, Elec. Prods. Corp., 255 Golden Gate Ave.

SIGN, electric, \$200; 740 Sutter St.; owner, N. J. Goldberg, Premises; contractor, Elec. Prod. Corp., 255 Golden Gate Ave.

SIGN, board, \$8; 1088 Golden Gate Ave.; owner, A. J. Lew, 1088 Golden Gate Ave.

ALTER store, \$30; 901 Grant Ave.; owner, Chong Sing, Premises; contractor, F. Yick, 670 Washington.

SIGN, electric, \$250; Grove and Divisadero; owner, Dave Serensky, Premises; contractor, Elec. Prod. Corp., 255 Golden Gate Ave.

NURSERY, one-story frame, \$75; Bayshore Blvd. and Paul Ave.; owner, S. Jackson, 274 Sagamore St.

SIGN, electric, \$250; 107 3rd St.; owner, P. Ryberg, 107 3rd St.; contractor, Elec. Products Corp., 255 Golden Gate Ave.

SIGN, electric, \$250; 1358 Fillmore St.; owner, Kambick Sandwich and Doughnut Shop, Premises; contractor, Elec. Prods. Corp., 255 Golden Gate Ave.

SIGN, electric, \$250; 626 Divisadero; owner, J. & F. Salerno, 626 Divisadero St.; contractor, Elec. Prod. Corp., 255 Golden Gate Ave.

SIGN, electric, \$475; 5960 Mission St.; owner, G. E. Archer, Premises; contractor, Elec. Prods. Corp., 255 Golden Gate Ave.

BILLBOARD, \$7; NW Fillmore and Pine Sts.; owner, Foster & Kleiser 1675 Eddy St.

SIGN, electric, \$250; 818 Market St.; owner, Dr. B. L. Babow, Prem.; contractor, Elec. Prods. Corp., 255 Golden Gate Ave.

STUCCO front of apartments, \$400; 1591 Page St.; owner, A. Steffens, 2026 Mission St.

SIGN, electric, \$400; 34 Third St.; owner, Elec. Prods. Corp., 255 Golden Gate Ave.

ALTER restaurant, \$300; 1063 Market St.; owner, L. Rose and A. Rude, 237 Powell St.; contractor, Royal Show Case Co., 770 McAllister St.

ALTER store, \$200; NE Ocean and Fairfield; owner, D. J. Sullivan; contractor, D. Bienfield, 666 Mission St.

GARAGE under dwelling, \$175; 417 7th Ave.; owner, E. Hauley, 417 7th St.; contractor, P. E. Bilderback, 532 Anza St.

SHOP, one-story frame, \$150; S Fulton St. 82 W 8th Ave.; owner, El Portal Cafe, Premises; contractor, P. Heglin, 1245 24th Ave.

CLOCK, electric, \$600; 201 Sansome; owner, Royal Insurance Co., 201 Sansome St.

GARAGE under dwelling, \$300; 2329 Clay St.; owner, Mrs. J. Hanson, 2576 Pine St.

ALTER flats, \$20; 1621-23-29-31 Golden Gate Ave.; owner, A. W. Morse, 433 Orange St., Turlock.

ALTER service station, \$500; NE Main and Mission Sts.; owner, Standard Oil Co., 225 Bush St.

ALTER soft drink parlor, \$900; 3069 16th St.; owner, M. Krelling, 84 Sycamore St.

SIGN, electric, \$155; 104 Third St.; owner, M. Fields, 104 3rd St.; contractor, Neon Sign Service Co., 1707 Folsom St.

ALAMEDA COUNTY UNDER \$1000

ADDITION, \$150; No. 1509 Edith St., Berkeley; owner, H. P. Palmer, Premises; contractor, C. Mikelson.

ALTERATIONS, \$160; 1915 Virginia St., Berkeley; owner, Oscar Johnson, 1915 Virginia St.; contractor, Oscar Johnson, 1915 Virginia St.

GARAGE, one-story, \$85; 1239 Chestnut St., Oakland; owner, Otto Schaun, 1239 Chestnut St.

ALTERATIONS, \$100; 624 6th St., Oakland; owner, L. I. Conrad, 624 6th St.

STORE room, one-story brick, \$480; 6526 Telegraph Avenue, Oakland; owner, G. E. Baugh, 6526 Telegraph Ave.

ADDITIONS, \$250; 2606 Shasta Road, Berkeley; owner, Florence Minard, 2606 Shasta Road, Berkeley.

OFFICE, one-story, \$250; Second St. and Hearst Ave., Berkeley; owner, Pacific Guano Fertilizer Co. Prem

ADDITION, \$70; 1623 Acton St., Berkeley; owner, J. C. O'Neill, 1623 Acton St.

REPAIR roof, \$180; 1908 Virginia St., Berkeley; owner, Nat S. Williams, 1908 Virginia St.; contractor, Curtis Wright, 2716 Telegraph Ave.

ALTER Store front, \$30; 494 12th St., Oakland; owner, L. Brantovich, 527 23rd St.

SIGN, electric, \$500; 3731 E-14th St., Oakland; owner, Al's Chop Suey; contractor, Radiant Neon Displays, 2561 San Pablo Ave.

ADDITIONS and repairs, \$100; 1445 45th Ave., Oakland; owner, Yoshi Nursery, 1445 45th Ave.

DWELLING, one-story 2-room, \$250; 4400 Mountain Blvd., Oakland; owner, M. L. Buck, 4432 Mountain Blvd.

ALTERATIONS, \$400; SW Fifth and Kirkham Sts., Oakland; owner, Golden West Brewery, Premises; contractor, C. E. Burks, 4129 Randolph Ave.

ADDITION, \$300; 1637 51st Ave., Oakland; owner, Mrs. L. Biron, 1637 51st Ave.

GARAGE, 1-story, \$100; 2237 86th Ave., Oakland; owner and contractor, A. Garcia, 2237 86th Ave., Oakland.

GARAGE, 1-story, \$65; 6117 Hillmont Ave., Oakland; owner and contractor, W. S. Williams, 6117 Hillmont Ave., Oakland.

ALTER and add, \$300; 6289 Sunnymere Ave., Oakland; owner and contractor, W. A. Salberg, 6281 Sunnymere Ave., Oakland.

GARAGE, 1-story concrete, \$100; 5321 Hopkins St., Oakland; owner and contractor, S. Filipich, 1147 Center St., Oakland.

REPAIRS, fire, \$800; 697 32nd Street, Oakland; owner, A. L. Keeler, 697 32nd St., Oakland; contractor, D. Nordstrom, 4150 Emerald Street, Oakland.

ALTERATIONS, \$200; 32 Sotelo, Piedmont; owner, H. G. Meek, 32 Sotelo, Piedmont; contractor, I. H. Reimers, 565 Kenmore Ave., Oakland.

ALTERATIONS \$200; 221 Carmel Ave. Piedmont; owner, Mr. Shuey, 221 Carmel Ave., Piedmont; contractor, A. C. Weitz, 409 Linda Ave., Piedmont.

SIGN, electric, \$100; 301 E 8th St., Oakland; owner, Bee Gee Service; contractor, Elec. Prod. Corp., 950 30th St., Oakland.

SIGN, electric, \$250; S 7th St., 400 W Subway, Oakland; owner, Lincoln Finance Co.; contractor, Electrical Prod. Corp., 950 30th St., Oakland.

SIGN, electric, \$250; 3299 Fruitvale Ave., Oakland; owner, H. Feldman; contractor, Elec. Products Corp., 950 30th St., Oakland.

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
36	Nelson	S F Const Co	21170
35	A. B. & M. Corp	Wold	11194
37	Weber	Nylund	4000

PRINTING PLANT
 (35) SE HARRISON AND NE CHESLEY NE 60xSE 137-6 100 V B 410.
 All work for one-story and mezzanine floor concrete printing plant building.
 Owner—A. B. & M. Corporation.
 Architect — C. O. Clausen, 746 46th Ave., San Francisco.
 Contractor—Christian L. Wold (as C. L. Wold Co.), 4416 Fulton St., San Francisco.
 Filed Mar. 23, '33. Dated Mar. 22, '33.
 Completion or roof rafters..... ¼
 Concrete floors completed..... ¼
 Completed and accepted..... ¼
 Usual 35 days..... ¼
 TOTAL COST, \$11,194
 Bond, \$5597. Surety, Maryland Casualty Co. Limit, forfeit, none. Plans and specifications filed.

APARTMENTS
 (36) COMG. 180 W from inter North West Portal Ave and W 14th Ave N 89 x W 50; all work for three-story and basement frame apartment house.
 Owner—Mary S. Nelson.
 Architect—H. C. Baumann, 251 Kearny Street.
 Contractor—San Francisco Const. Co., Inc., 3159 Fillmore St.
 Filed Mar. 24, '33. Dated, Mar. 21, '33.
 When 3rd floor joists are in place\$5,292.50
 Brown coated 5,292.50
 Bldg. completed 5,292.50
 Usual 35 days 5,292.50
 TOTAL COST, \$21,170
 Bond, \$10,585. Sureties, Coast Surety Corp. Plans and Spec. filed.

DWELLING
 (37) N IDORA AVE. bet. Laguna Honda Blvd. and Garcia Avenue, being Lot 6 Blk 2917, Assessor's map; all work on one-story and basement frame dwelling.
 Owner—Sadie J. and John Weber, 50 Laguna Street.
 Architect—Not Given.
 Contractor—Otto Nylund, 425 Bayshore Blvd.
 Filed Mar. 24, '33. Dated Mar. 22, '33.
 Rough frame up\$1000
 Brown coated 1000
 Completed 1000
 Usual 35 days 1000
 TOTAL COST, \$4000
 Bond, \$4000. Sureties, Great American Indemnity Co. Forfeit, \$1 per day. Limit, 80 days.

ALAMEDA COUNTY

13 Metropolitan Meinberger 6245

REMODELING
 (13) 1450 BROADWAY, Oakland; remodeling store fronts, interior and basement incidental to the completion of store building.
 Owner—Metropolitan Life Ins. Co., 1540 San Pablo Ave., Oakland.
 Architect—Bliss & Fairweather, Balboa Bldg., San Francisco.
 Contractor—H. S. Meinberger, 343 4th St., San Francisco.
 Filed Mar. 24, '33. Dated Mar. 21, '33.
 1st day of April25%
 1st day of May25%
 1st day of June25%
 Usual 35 days25%
 TOTAL COST, \$6245.00
 Limit, June 1, 1933. Plans and Spec. filed.

BUILDING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

- | | |
|---------------------------------|---|
| 1.—Apartments | 11.—Ice and Cold Storage Plants |
| 2.—Ponds | 12.—Fower Plants |
| 3.—Churches | 13.—Public Buildings, Fire Houses and Jails |
| 4.—Factories and Warehouses | 14.—Residences |
| 5.—Flats | 15.—Schools |
| 6.—Garages and Service Stations | 16.—Tanks, Stores and Offices |
| 7.—Government Work and Supplies | 17.—Theatres and Clubs Buildings |
| 8.—Club Buildings | 18.—Wharves & Docks |
| 9.—Hospitals | 19.—Misc. Const. Materials |
| 10.—Hotels | 20.—Misc. Supplies & Materials |

1—APARTMENTS

March 24, 1933

To Be Done By Day's Work.

APARTMENTS Cost, \$5000
SAN FRANCISCO. NE Greenwich and Telegraph.

One - story and basement frame and stucco apartments (3 apts.)
Owner—M. L. De Martini, 436 Greenwich Street.
Architect—Not Given. 1

Sub-Contracts Awarded.

APARTMENTS Cost, \$20,000
SAN FRANCISCO. N West Portal W Fourteenth Avenue.

Three-story and basement frame and stucco apartments (12 2- and 3-room apts.) tile and composition roof, fireplaces, steam heating system, hardwood floors, tile baths, electric refrigeration, etc.

Owner—Mrs. F. Nelson.

Architect—H. C. Baumann, 251 Kearny Street.

Contractor—San Francisco Const. Co., 3159 Fillmore Street.

Reinforcing Steel—Pioneer Const. Co., 2616 San Jose Ave.

Lumber—Sudden Lumber Co., Evans and Quint Streets.

Electric—Aptos Electric Co., 1104 Mission Street.

Structural Steel—Western Iron Works, 141 Beale Street.

Ornamental Iron—F. Kern & Sons, 517 Sixth Street.

Brick Fireplaces—J. W. Farmer, 477 Sanchez Street.

Sheet Metal—A. Reage, 1609 Powell St.

Stairs—E. D. Philbrick Co., 718 Bryant Street.

Cement—Yosemite Portland Cement Co., Alaska Commercial Bldg.

Tile, hardwood floors, steel sash, roofing, mill work, plastering, and glass contracts will be awarded within a few days.

To Take Segregated Bids March 30.

APARTMENTS Cost, \$250,000
SAN FRANCISCO. NW Second and Parnassus Avenue.

Five - story, basement and sub-basement steel frame and reinforced concrete apartments (55 1- to 4-room apts.) composition roof, two elevators, steam heating plant (gas fired boilers) electric refrigeration, hardwood floors, wall beds, colored tile baths and kitchens, etc.

Owner—E. V. Ralsch.

Architect—H. C. Baumann, 251 Kearny Street.

Mechanical Engineer—C. H. Brazzile, care architect.

Structural Engineer—Jas. Smith, 251 Kearny Street.

3—CHURCHES

Completing Plans.

CHURCH Cost, \$—
MONTEREY, Monterey Co., Calif.
One - story frame and stucco church (to seat 200).

Owner—Christian Science Church.

Architect—Swartz & Ryland, Spazier Bldg., Monterey, and Carmel.

Bids will be asked shortly.

Contract Awarded.

REMODEL Cost, \$6000
FRESNO, Fresno Co., Cal. No. 307 Kearny Street.

Remodel and reconstruct rectory (recently destroyed by fire) stucco exterior finish, roofing, etc.

Owner—St. Alphonsus Catholic Church Premises (Rev. J. A. Kalvelage, rector).

Architect—Not Given.

Contractor—A. G. Lampases, 455 Harvard St., Fresno.

Contract Awarded.

ADDITION Cont. Price, \$3258
SAN FRANCISCO. No. 750 Twenty-fifth Avenue.

Frame addition to Jewish Synagogue (raise roof, add social rooms, etc.)

Owner—Chebra Thilm.

Architect—J. Lloyd Conrlich, 815 25th Ave., San Francisco.

Contractor—William Spivock, Hobart Bdg., San Francisco.

4—FACTORIES & WAREHOUSES

Contract Awarded.

ALTERATIONS Cost, \$25,000
SALINAS, Monterey Co., Cal. N. Main Street.

Alterations and additions to brewery (new equipment, etc.)

Owner—Wm. Voss, 213 N. Main St., Salinas.

Architect—To Be Selected.

Contractor—W. E. Greene, 27 Lincoln Ave., Salinas.

Some machinery has been purchased and more will be bought in the near future.

Completing Plans.

ALTERATIONS Cost, \$40,000
SAN JOSE, Santa Clara Co., Cal. The Alameda.

Alterations and additions to brewery and malt house (piping and fittings, equipment, etc.)

Owner—Chas. Colpe et al (Fredericksburg Brewery) Russ Bldg., San Francisco.

Engineer—R. McGlenn, Russ Building, San Francisco.

Work will start shortly.

Preparing Preliminary Plans.

BREWERY Cost, \$500,000
LOS ANGELES, Cal. West Los Angeles (15-acre site).

Brewing plant (four Class A reinforced concrete buildings and two Class C brick buildings).

Owner—Don Carlos Brewing Co.

Architect—Bryant & Shaw, 1610 Cosmo St., Los Angeles.

Contract Awarded.

BREWERY Cost, \$—
VERNON, Los Angeles Co., Cal. Santa Fe Ave. and 52nd St.

Brewery plant (concrete and brick construction, steel doors and windows, etc.)

Owner—Vernon Brewing Company.

Architect—Not Given.

Contractor—F. A. Linck, 917½ Dos Robles Place, Alhambra.

Concrete—Brock & Clark, 240 North Larchmont Blvd., Los Angeles.

Brick Work—M. Arganbright.

Structural Steel—Pennsylvania Iron & Steel Company.

Ventilating Equipment—H. H. Robertson Company.

Steel Doors and Windows—Truscon Steel Co., 1920 E Atlantic Ave.

Prospective Bidders.

EXTENSION Cost, \$—
SAN FRANCISCO. Pier No. 35.
84-ft. shed extension to Pier No. 35 (wood construction, passenger gallery along side of existing shed; offices, etc.)

Owner—State of California (Harbor Commission).

Engineer—Frank G. White, Ferry Building.

Following have procured plans. Bids open April 6.

LeRoy Building Service, 165 Jessie Street.

Val Franz, 666 Mission Street.
David Nordstrom, 4150 Emerald St., Oakland.

Robert McCarthy, 1363 14th Ave.

Rolph Mills & Co., 525 Market St.

Leo Epp, 4745 Geary Street.

T. B. Strand, 1880 Pacific Ave.

F. C. Amoroso & Sons, Keith and Wallace Avenues.

A. Young, 1661 Leavenworth St.

Barrett & Hilp, 918 Harrison St.

M. E. McGowan, 617 Call Bldg.

J. H. Johnson, 639 Brannan St.

Frank J. Reilly, 6350 Fulton St.

E. T. Lesure, 87 Ross Circle, Berkeley.

Young & Horstmeyer, 461 Market St.

Cahill Bros., 206 Sansome St.

Healy-Tibbitts Const. Co., 64 Pine Street.

O. P. Shelley, Call Bldg.

D. A. Pancoast Co., 260 O'Farrell St.

Sub-Contracts Awarded.

REPAIRS Cost, \$20,866.42
SAN FRANCISCO. SW Front & Pine Streets.

Repair fire damage to factory.

Owner—Moses Ellis Real Estate Trust Company.

Architect—Not Given.

Contractor—James B. McSheehy, 137 Clifford Terrace.

Painting—Aristo Painting Company, 473 Bryant Street.

Elevator—Home Elevator Co., 319 Grant Ave.

Electric—Ed. Lynch, 2080 Sutter St.

Plumbing—Acme Plbg. Co., 1740 Sacramento St.

Lumber—Beronio Lhr. Co., Powell and Beach Streets.

Glass—Habenicht & Howlett Glass Co., 529 Clay St.

Sheet Metal—Guilfooy Cornice Works, 1234 Howard St.

To Ask Bids April 7.

WAREHOUSE Cost, \$10,000
FORESTVILLE, Sonoma Co., Cal. Half Acre Tract.

One-story reinforced concrete and corrugated warehouse.

Owner—Miller Fruit Co., Healdsburg.

Plans by Owner.

Contract Awarded.

BREWERY Cost, \$—
SEATTLE, Washington.

Two-story cellar type brewery (50 by 100 ft.) 50,000 barrel capacity.

Owner—Blitz-Weinhard Co. (A. Blitz, President).

Architect—Not Given.

Contractor—Dougan-Hammond Con-

struction Co., Studio Bldg., Seat-
tle, Washington.

OAKLAND, Cal.—Central California
Roads Company, 2779 Poplar St., Oak-
land, at \$7600 awarded contract by
City of Oakland Port Commission to
repair floors of the second unit of
Terminal Building "B."

FILLMORE, Ventura Co., Calif.—
The state has purchased property on
Ventura St. one-half mile west of Fill-
more as a site for a highway main-
tenance station.

TUCSON, Ariz.—Southwestern Brew-
ing Co., 402 Consolidated National
Bank Bldg., Tucson, has completed
incorporation proceedings and pro-
poses starting work soon on the con-
struction of a new brewery on 17th
St., Tucson. The plant will have a
capacity of 450 barrels of beer per day.
Officers of the company are: William
E. Gleason, president; M. Bertino,
vice-president, and Joe P. Keiser, sec-
retary.

Plans To Be Prepared.
ADDITION Cost, \$50,000
SACRAMENTO, Sacramento Co., Cal.
18th and R Streets.
Two-story reinforced concrete addi-
tion to bottling plant.
Owner—Charles Colpe, Russ Bldg. San
Francisco.
Architect—Not Selected.

5—FLATS

To Be Done By Day's Work.
FLATS Cost, \$7500
SAN FRANCISCO. N Beaver St. 310
W Noe.
Two-story and basement frame and
stucco flats (two 5-room flats) tile
and composition roof, gas heat,
hardwood floors, etc.
Owner—L. E. Woolsey, 769 Dolores St.
Plans by Clarence Baker, 155 Mont-
gomery Street.

6—GARAGES & SERVICE STATIONS

Sub-Contracts Awarded.
SERVICE STATION Cost, \$6000
SAN FRANCISCO. SW Pierce and
Lombard Streets.
Two one-story steel service station
buildings.
Owner—Standard Oil Co., 225 Bush St.,
San Francisco.
Plans by Eng. Dept. of Owner (P. H.
Brown, engineer).
Contractor—Lindgren & Swinerton,
Inc., 225 Bush St., San Francisco.
Grading—Sibley Grading & Teaming
Co., 65 Landers St., San Francisco.
Mill Work—Sunset Lumber Co., 400
High St., Oakland.
Composition Roof—Bender Roofing
Co., 18th and Bryant Sts., S. F.
Sheet Metal—Fire Protection Engi-
neering Co., 369 Pine St., S. F.
Plumbing—Scott Co., 243 Minna St.,
San Francisco.
Electric—Atlas Electric & Engineer-
ing Corp., 343 4th St., S. F.
Structural Steel—Schrader Iron Wks.,
1247 Harrison St., S. F.
Glass and Glazing—W. P. Fuller & Co.,
301 Mission St., San Francisco.

Plans Being Completed.
SALES BLDG. Cost, \$10,000
SANTA ROSA, Sonoma Co., Cal. Ex-
change Ave. and Third St.
1½-story brick, concrete and tile auto
sales bldg. (50x220-ft.)
Owner—J. Henry Williams, 10 Main
St., Santa Rosa.
Plans by A. M. Hildebrandt, 406 4th
St., Santa Rosa.

Contract Awarded.
SERVICE STATION Cost, \$3000
SAN MATEO, San Mateo Co., Calif.
Bayshore Blvd. and Third Ave.
Service station.
Owner—Standard Oil Co., 225 Bush St.
San Francisco.
Plans by Engr. Dept. of Owner.
Contractor—Independent Iron Works,
1820 Chase St., Oakland.

Plans Being Figured.
GARAGE Cost, \$4000
MOUNTAIN VIEW, Santa Clara Co.
One-story brick and frame garage (50
x100 ft.) built-up 15-year guar-
anteed roof, concrete floors, etc.
Owner—Fred Campen, General De-
livery, Mountain View.
Architect—Chas. McKenzie, Twohy
Bldg., San Jose.

Construction To Start Shortly.
GARAGE Cost, \$—
TAHOE, Placer Co., Cal. Tahoe
Tavern.
One-story frame and galvanized iron
garage.
Owner—Tahoe Tavern.
Plans by Owner.
Lessee—Matt Greene, Tahoe Tavern,
Tahoe City, Calif.
Contractor—Matt Greene, Tahoe Tav-
ern, Tahoe City.

Planned.
SERVICE STATION Cost, \$—
MODESTO, Stanislaus Co., Cal. No.
1 H Street.
One-story gasoline service station and
repair shop.
Owner—F. E. Wheeler, Modesto.
Architect—Not Given.
Permit has been applied for.

7—GOVERNMENT WORK AND SUPPLIES

WASHINGTON, D. C.—Columbia
Machine Works, 160 Spear Street, San
Francisco, at \$1,035 awarded contract
by Bureau of Yards and Docks for im-
provements to the mobile telescopic
mooring mast at the Naval Air Sta-
tion, Sunnyvale. Spec. No. 7226.
Work includes a steel hatchway in
the roof of the winch house, carbon
dioxide fire extinguishing system for
the mast top and the power house, a
mark for centering the telescopic mast
market for centering telescopic mast,
electric light circuit and fixtures, etc.

WASHINGTON, D. C.—Bids will be
asked shortly by the Bureau of Yards
and Docks, Navy Department, for gate
house at Cahu, T. H. Spec. No. 7055.

WASHINGTON, D. C.—As previous-
ly reported, Johnson Metal Products
Co., 2539 Pennsylvania Ave., N. W.,
Washington, D. C., at \$4,750 submit-
ted low bid to Treasury Department
for furnishing and installing insect
screens in the U. S. Marine Hospital,
San Francisco. Followig is a complete
list of the bids:
Johnson Metal Prod. Co., Wash-
ington, D. C. \$4,750
Watson Mfg. Co., Inc., James-
town, N. Y. 4,975
Ceco Weather-strip and Screen
Products, Chicago 5,150
Orange Screen Co., Maplewood,
New Jersey 5,200
Cincinnati Fly Screen Co., Cin-
cinnati, Ohio 5,991
Severis & Co., San Francisco 7,184

WASHINGTON, D. C.—As previous-
ly reported, Otis Elevator Co., 1 Beach
St., San Francisco, at \$24,236 submit-
ted low bid to Treasury Department,
for installing complete elevator plant
in the U. S. post office at Phoenix,
Ariz. Following is complete list of
bids:

Otis Elevator Co., Washington \$24,236
The Haughton Elevator & Mach-
ine Co., Washington 25,890
Consolidated Steel Corp., Ltd.,
Los Angeles 27,900
Montgomery Elevators Mfg. Co. 27,993
Wm. A. Miller Machine & Elev-
ator Co., St. Louis 31,400
The Warner Elevator Mfg. Co.,
Cincinnati 35,305

SANGLEY POINT, Cavite, P. I.—
Yuvano Engr. Co., Manila, awarded
contract by Bureau of Yards & Docks,
March 22 at \$2715 for erecting a Die-
sel oil tank at the Naval Fuel Depot,
Sangley Point, Cavite. Spec. No. 7188.

Additional Sub-Contracts Awarded.
OFFICERS' QUARTERS
Contract Price, \$114,574
SAN RAFAEL, Marin Co., Cal. Ham-
ilton Field.
Twelve sets of officers' quarters (two
story and basement hollow tile
and stucco structures; tile roof,
cast stone, steel casement win-
dows, gas fired hot water heating
system, linoleum, plumbing, elec-
trical work, etc.
Owner—United States Government.
Plans by Constructing Quartermaster.
Contractor—Meyer Bros., 727 Portola
Drive, San Francisco.
Electric Work—J. Jennings, San Ra-
fael.
Hardwood Floors—Golden Gate Hard-
wood Floor Co., 737 Lisbon Street,
San Francisco.
Other awards previously reported.

SAN JOSE, Santa Clara Co., Cal.—
Following sub-contracts awarded by
W. J. Ochs, American Trust Company
Bldg., San Jose, in connection with
construction of a two-story and base-
ment Class A Post Office building at
First and St. John Streets, San Jose.
Ralph Wyckoff, First National Bank
Bldg., San Jose, Architect. Leland &
Haley, 53 Sutter St., San Francisco,
mechanical engineer. L. H. Nishkian,
525 Market St., San Francisco, struc-
tural engineer.

Excavation—Earl W. Heple, 494 Del-
mas Ave., San Jose.
Reinforcing Steel and Pans—Soule
Steel Co., 1750 Army St., San
Francisco.
Architectural Terra Cotta—N. Clark
& Sons, 116 Natoma St., S. F.
Ornamental Metal and Miscellaneous
Iron, Bronze and Hollow Metal
Work—Interstate Bronze & Mfg.
Co., 420 American Bank Bldg., Los
Angeles.
Steel Windows—Detroit Steel Products
Co., 63rd and Doyle Sts., Emery-
ville.
Sheet Metal—Christensen & Grutsch,
4444 Piedmont Ave., Oakland.
Roofing and Insulation—Bush Roof-
ing Co., 217 St. Claire Bldg., San
Jose.
Lathe and Plaster—P. H. Donnelly, 354
Hobart St., Oakland.
Millwork—Pacific Mfg. Co., Santa
Clara.
Marble—J. E. Back Co., Inc., 1533 San
Bruno Ave., San Francisco.
Terrazzo—California Terrazzo Marble
Co., 2055 San Bruno Ave., S. F.
Lumber—McElroy Cheim Lumber Co.
San Jose.
Rock, Sand and Cement—Central Sup-
ply Co., Bin 9, Watsonville.
Plumbing and Heating—Jones & Hill
Electric Work—Roy Butcher, 1020
Sherwood Ave., San Jose.

BOULDER CITY, Nev.—Until 2 P.
M., April 10, bids will be received by
U. S. Bureau of Reclamation, Custom
House, Denver, for furnishing 8 semi-
steel pier plates f.o.b. cars at shipping
point and/or f.o.b. cars at destination,
Boulder City. Bid No. A-3182-A.

SAN FRANCISCO—Bryce Plumbing & Heating Co., awarded the electrical contract to Radefinger Bros., 544 Natoma St., in connection with the plumbing, heating, etc., for the six-story reinforced concrete hospital at Fort Miley, San Francisco, for the U. S. Government. Building will contain 300 beds. Included in the contract is a three-story reinforced concrete administration building, nurses' home garage, storehouse, laundry, etc. As previously reported, the general contract has been awarded to Herbert M. Baruch Corp., 625 S-Olive St., Los Angeles, at \$395,810. Bryce Plumbing & Heating Company's bid was \$252,170.

OREGON CITY, Oregon—As previously reported, Moe Bridges Company, 236 Broadway Milwaukee, at \$480 submitted low bid to Treasury Department, Washington, D. C., for furnishing and installing interior lighting fixtures in the U. S. Post Office in Oregon City. Following bids received:
 Moe-Bridges Co., Milwaukee.....\$480
 Edwin F. Guth, St. Louis, Mo..... 500
 Walter G. Warren & Co., Chicago, Ill. 509
 Cascade Fixtures Co., Seattle..... 600
 Ivanhoe Division of Miller Co., Meridan, Conn..... 692
 Bids held under advisement.

SACRAMENTO, Cal.—Anderson & Cristofani, Innes & Griffith Sts., San Francisco, at \$428 awarded contract by U. S. Engineer Office, Sacramento, to drydock, paint and repair the U. S. Engineer Department deck barge "L."

MARCH FIELD, Riverside Co., Cal.—George Mittry, 134 N. Ave. 29, Los Angeles, submitted low bid to Constructing Quartermaster at March Field at \$29,975, for construction of medical detachment barracks and hospital contagious wards at March Field. Recommendation was made that the contract be awarded the low bidder. The barracks building will be a two-story structure, 75x44 feet in area. The wards will be housed in an addition, 42x17 feet in area to an existing building. Bids follow:
 George Mittry, (1) work complete, \$29,975, (2) deduct for omission of all door and window insect screens, \$500.
 John T. Bibb (1) \$30,492, (2) \$650.
 Bennett & Taylor, (1) \$31,436, (2) \$450.
 Cresmer Mfg. Co. (1) \$31,700, (2) \$514.
 H. G. Klusman, (1) \$31,700, (2) \$636.
 Campbell Constr. Co., (1) \$32,686, (2) \$692.
 H. M. Baruch Corp., (1) \$32,887, (2) \$600.
 Jones Bros., (1) \$33,950, (2) \$725.
 Lutz Constr. Co., (1) \$34,500, (2) \$799.

MARCH FIELD, Riverside Co., Cal. War Department, Washington, D. C. is preparing plans for a bomb-proof and extensions to oil and gas system at March Field. Estimated cost of the bomb-proof is \$5000 and of the oil and gas system extension \$10,000. Funds have not yet been appropriated for these improvements.

WASHINGTON, D. C.—Until April 19, bids will be received by the Bureau of Yards and Docks, Navy Department, Washington, for modification to engine test stand at the Fleet Air Base, Pearl Harbor, T. H. Spec. No. 7241.

ALAMEDA, Alameda Co., Calif.—Eaton & Smith, 715 Ocean Ave., San Francisco, at \$4,126 awarded contract by U. S. Bureau of Public Roads, to construct parts of Units Nos. 1, 3, 5 and 8, Government Island construction, at Government Island, Alameda.

Preparing Plans.
POST OFFICE Cost, \$790,000
SPCKANE, Washington.
 Post office.
 Owner—United States Government.
 Architect—Rigg and Vantyne, Peyton Bldg., Spokane.
 (896) 1st report March 10, 1933. 7

WASHINGTON, D. C.—Moe-Bridges Co., Milwaukee, Wis., and Edwin F. Guth, St. Louis, Mo. submitted identical bids at \$310 to the Treasury Department for furnishing and installing interior fixtures at the U. S. post office at Toole Utah. Only other bid was submitted by Walter G. Warren & Co., Chicago, at \$339.
 Bids held under advisement.

BOULDER CITY, Nevada.—A. McD. Brooks, Purchasing Agent, U. S. Bureau of Reclamation, Denver, has issued a notice to prospective bidders on pier plates, Bid No. A-3182-A, for which bids are to be opened at Denver, April 10, that the number of plates has been changed from eight to 16. The number on the drawing (No. 45-D-2734), viz. 16, is correct.

BEVERLY HILLS, Los Angeles Co., Cal.—Vermont Marble Co., 727 W 7th St., Los Angeles, awarded contract for marble to be used in the U. S. post office under construction in Beverly Hills. Sarver & Zoss, general contractors, 1015 W 4th St., Los Angeles. Ralph C. Flewelling, architect; Allison & Allison, consulting architects.

WASHINGTON, D. C.—As previously reported, Phoenix-Day Co., 729 Mission St., San Francisco, at \$2,900 submitted low bid to Treasury Department for furnishing and installing the lighting fixtures in the U. S. post office, San Francisco. Following is a complete list of the bids:
 Phoenix-Day Co., S. F.....\$2,900
 Severin Elec. Co., S. F..... 3,111
 E. F. Guth Co., St. Louis..... 3,185
 W. G. Warren & Co., Chicago..... 3,400
 Benson Brass and Chandelier Works, Kansas City, Mo..... 3,864
 Interstate Bronze & Mfg. Co., Los Angeles 3,991
 Industrial Arts Corp., Milwaukee, Wis. 4,600
 The Reading Chandelier Works, Reading, Pa. 4,875
 Sterling Bronze Co., Inc., Long Island City, N. Y..... 5,210
 Boyd Lighting Fixture Co., S. F. 5,388
 Solar Lighting Fixture Co., Inc. Los Angeles 8,989

Prospective Bidders.
EXTENSION Cost, \$—
SAN FRANCISCO.
 Extension of wharf shed for Dock No. 2 (150x92 feet) steel frame, five rolling doors, copper beaming, monitor sash, copper gutters, outside walls of reinforced concrete.
 Owner—United States Government.
 Plans by Constructing Quartermaster, Fort Mason.
 Following have procured plans. Bids opened April 14:
 Duncanson-Harrelson Co., deYoung Building.
 Soule Steel Co., 1750 Army St.
 Val Franz, 666 Mission Street.
 Wm. Spivock, Hobart Bldg.
 Jacks & Irvine, 74 New Montgomery Street.
 E. G. Hart, 666 Mission Street.
 LeRoy Building Service, 165 Jessie.
 F. C. Amoroso & Sons, Wallace and Keith Streets.
 P. M. McCarthy, 1363 14th Ave.
 Ed. Rosemont, 176 Duboce Ave.
 A. Nelson, 242 Ocean Ave.
 Judson Pacific Co., 609 Mission St.
 Pacific Coast Steel Co., 20th and Illinois Streets.

Bids Opened.
MODELING Cost, \$—
RENO, Nevada. No. 21 Mill St. Modeling for U. S. Post Office.
 Owner—United States Government.
 Architect—F. D. DeLongchamps, Gazette Bldg., Reno, Nevada.
 J. A. Kretz, 65 Chesley St., San Francisco\$1,125
 August Dakert & Co., S. F..... 1,214
 Henry Gregoire, S. F..... 1,751
 P. O. Tognelli, S. F..... 1,180
 Wilson Studios, Los Angeles..... 2,000
 Fred Ferrero & Sons, Alameda.... 2,740
 Bids held under advisement.

A. H. Vogt Co., 280 11th St.
 Herrick Iron W'ks, 18th and Campbell Sts., Oakland.
 Dinwiddie Const. Co., Crocker Bldg.
 David Paganini, 519 California St.
 Empire Const. Co., Shell Bldg.
 Meyer Bros., 727 Portola Drive.
 Theo. Johanns, 2020 15th St.
 Barrett & Hilp, 918 Harrison St.
 O. Monson, 475 6th St.
 Moore Dry Dock Co., Balfour Bldg.
 Minneapolis-Moline Power & Implement Co., Chapman Bldg., Los Angeles.
 Leo Epp, 4745 Geary Street.
 M. B. McGowan, 74 New Montgomery Street.
 E. T. Lesure, 87 Ross Circle, Oakland.
 Frank J. Reilly, 666 Mission St.
 R. W. Littlefield, 337 17th St., Oakland.
 C. L. Wold, 4412 Fulton Street.
 T. B. Strand, 1880 Pacific Ave.
 Cahill Bros., 206 Sansome St.
 G. W. Williams Co., 315 Primrose Road, Burlingame.
 A. J. Novelli, 550 Montgomery St.
 J. H. Johnson, 639 Brannan St.
 C. Dudley De Velbiss, 354 Hobart St., Oakland.
 (336) 1st report Dec. 28, 1932; 4th, March 16, 1933. 7

VISALIA, Tulare Co., Cal.—Murch Bros. Const. Co., Railway Exchange Bldg., St. Louis, awarded the brick contract to Fred. Smith & Sons, 984 Thorne Ave., Fresno, in connection with the construction of the U. S. post office in Visalia.

Brick Contract Awarded.
POST OFFICE Cost, \$125,000
PORTERVILLE, Tulare Co., Calif.
 Class A post office.
 Owner—United States Government.
 Architect—H. R. Lake, Pacific Southwest Bldg., Fresno.
 Contractor—Murch Bros. Constr. Co., Railway Exchange Bldg., St. Louis
Brick Work—Fred Smith & Sons, 984 Thorne Ave., Fresno.
 Other awards previously reported.

PANAMA CANAL ZONE—Associated Oil Co. awarded contract by General Purchasing Officer, Panama Canal Zone, to furnish 1,000,000 gals. gasoline, delivery Balboa and Cristobal, Canal Zone.

PLEASANTON, Alameda Co., Cal.—Morgan Lumber & Mfg. Co., Charleston, W. Va., submitted low bid to Post Office Department, at \$913.23 (f. o. b. cars), for furniture and screen-line equipment for the Pleasanton Post Office. Geo. Fensky Co., San Francisco, submitted the lowest delivered price at \$1060. Corbin Cabinet Lock Co. submitted the low bid at \$780 for six sections of lock boxes for Pleasanton.

Preparing Sketches.
POST OFFICE Cost, \$175,000
SALINAS, Monterey Co., Cal.
 United States Post Office.
 Owner—United States Government.
 Architect—O'Brien Bros. and W. D. Peugh, 333 Montgomery St., San Francisco.

Bids Opened.
MODELING Cost, \$—
RENO, Nevada. No. 21 Mill St. Modeling for U. S. Post Office.
 Owner—United States Government.
 Architect—F. D. DeLongchamps, Gazette Bldg., Reno, Nevada.
 J. A. Kretz, 65 Chesley St., San Francisco\$1,125
 August Dakert & Co., S. F..... 1,214
 Henry Gregoire, S. F..... 1,751
 P. O. Tognelli, S. F..... 1,180
 Wilson Studios, Los Angeles..... 2,000
 Fred Ferrero & Sons, Alameda.... 2,740
 Bids held under advisement.

WASHINGTON, D. C. — As previously reported, North Moller Co., Jackson, Michigan, at \$147,789 for brick, and \$161,489 for terra cotta, submitted low bid to Treasury Department, for the construction of a two-story and basement masonry and steel post office building in Ventura, Calif. H. E. Burket, 455 E. Main St., Ventura, architect.

(1) brick; (2) terra cotta; (3) asphalt block driveway:

North Moller Co., Jackson, Mich.	(1) \$147,789
	(2) 161,489
	(3) 1,489
Murch Bros. Constr. Co., St. Louis, Mo.	(1) 159,674
	(2) 158,300
	(3) 2,890

Rosen & Fischel, Inc., Chicago, Illinois

	(1) 167,256
	(2) 181,100
	(3) 4,000
Floyd Shofner, L. A.	(1) 169,700
	(2) 175,000
	(3) 2,550

Herbert M. Baruch Corp., Los Angeles

	(1) 179,100
	(2) 184,000
	(3) 2,100
W. L. Snook, Santa Barbara	(1) 198,463
	(2) 204,263
	(3) 7,522

Johnson-Hansen & McLeod, Ventura

	(1) 199,900
	(2) 202,900
	(3) 7,572
Union Engineering Co., Huntington Park	(1) 200,000
	(2) 206,000
	(3) 7,700

J. F. Kobler, L. A.

	(1) 223,000
	(2) 228,000
	(3) 7,300

Schuler & McDonald, Oakland, late bid.

Bids held under advisement.

PORT ANGELES, Wash. — Bergen Mfg. Co., Canton, Ohio, at \$253.80 awarded contract by Treasury Department, for metal counter, filing cabinets, gates, etc., in connection with the U. S. Court House at Port Angeles, Washington.

SUNNYVALE, Santa Clara Co., Cal. — Until April 4, 11 A. M., (postponed from March 28), bids will be received by Public Works Officer, 12th Naval District, 100 Harrison St., San Francisco, for a photographic laboratory in the basement of the Administration Building at the Naval Air Station, Sunnyvale. Work includes metal studding, metal lath, gypsum plaster, partitions; wood doors; carpentry and joinery; hardware; plumbing; lead-lined wood tanks and sinks, wood tables, shelving; film-winding reel, stand and drum. Specification No. 7121. Plans and specifications available from above office upon deposit of \$10.

WASHINGTON, D. C. — Until April 3, 10 A. M., bids will be received by Quartermaster Department, Quarry Heights, Canal Zone, for the construction of two field officers' quarters at Fort Clayton, Canal Zone. Appropriation \$70,000.

OAHU, T. H. — Bids are being received by the Bureau of Yards and Docks, Washington, D. C., for 2 gate houses, 2 vegetable lockers, 2 garbage houses, 7 hose reel houses, 22 hose shelters, 18 clothes yard inclosures, 3 tennis courts, 2 flagpoles, 1 beacon tower, 2 beacon fixtures, installations, sidewalks, road, 1 cess-pool and 1 dry well at the naval ammunition depot, Oahu (West Loch and Lualualei), T. H. The work includes concrete work, steel, iron and bronze work, chain link gates, wood framing

and trim, screens, asbestos shingle and prepared roofing, metal studding and lathing, plaster work and plumbing and electrical systems; deposit, \$15 required for plans, etc. Spec. 7055. Date of bid opening not yet set.

To Ask Supplemental Bids In About One Week.

POST OFFICE Cost, \$150,000

MARSHFIELD, Oregon. Two-story and basement Class A Post Office (112x65 feet) (red brick exterior).

Owner—United States Government. Architect—Johnson & Wallwork, U. S. Bank Bldg., Portland.

On previous bid opening lowest bid was submitted by McCarthy Bros. Construction Co., Roosevelt Bldg., St. Louis, at \$120,720.

EUREKA, Humboldt Co., Cal.—Wm. J. Newman, Crescent City, at \$770 submitted low bid to Public Works Officer, Mare Island Navy Yard, for painting exteriors and interiors of buildings at the U. S. Naval Direction Finder Station, Point St. George and Crescent City and painting exteriors of buildings at the U. S. Naval Radio Station, Table Bluff, Eureka. Specification No. 7005. Following bids received:

Wm. J. Newman, Crescent City.....	\$ 770
E. D. Rice, Smith River.....	784
R. P. Poali, San Francisco.....	837
A. B. C. Painting Co., S. F.	859
Ed. Anderson, San Francisco.....	1121
Winter Bros., Eureka.....	1200
Hobbs Wall Co., Crescent City....	1544
Harry Wasserman, Los Angeles....	2400

Bids held under advisement.

PETALUMA, Sonoma Co., Cal.—

Until Friday, April 7, bids will be received by the Division of Supply, Treasury Department, Washington, D. C., for 22 Venetian blinds for Petaluma; Proposal 6582.

ALAMEDA, Cal.—Until April 18, 2 P. M., bids will be received by C. H. Sweetser, District Engineer, U. S. Bureau of Public Roads, to construct a part of Unit 9, Chain Link Boundary Fence and Ornamental Entrance Gateway on the U. S. 15-acre tract, Government Island, Alameda. Specifications obtainable from above office on deposit of \$10, returnable, checks certified and payable to Regional Fiscal Agent, U. S. Forest Service.

WASHINGTON, D. C.—Corry Jamestown Mfg. Co., Corry, Pa., at \$476 submitted low bid to Treasury Department for metal shelving, metal counters, etc., in the United States post office at Alameda, Calif. Second low bid was submitted by Art Metal Construction Co., Washington, D. C., at \$596. Complete list of bids will be published shortly.

OAHU, T. H.—Pacific Fence Construction Co., 1012 Highland Ave., Los Angeles, submitted the low bid to the Commandant, Navy Yard, Pearl Harbor, T. H., at \$160,610.75, for fencing the Naval Ammunition Depot at Oahu, T. H.; Specification No. 6938. Other bids were: Jonah Kumalae, 2411 S. King St., Honolulu, \$21,615; John Hansen, \$22,673; A. Nekomoto, \$22,890; Ralph E. Woolley, \$23,600; Moser Akiona, \$24,100; J. L. Cliff, \$25,652; E. E. Black, \$26,765; R. J. Whinery, \$27,311; Henry Follis, \$27,606; Kalihl Contracting Co., \$29,000; E. B. Montgomery, \$29,260; W. P. Thursten Co., \$31,846; Walker & Olund, \$36,394; Hawaiian Constr. Co., \$40,209; Asato Ueki, \$40,414; W. S. Ching, \$44,499.

SAN FRANCISCO.—Until April 10, 3:30 P. M., under Circular No. 928-33-195 Misc., bids will be received by the

Quartermaster Supply Officer, General Depot, Fort Mason, to furnish 3,000 barrels of Portland cement, Federal Spec. SS-C-191, in 94-lb. net paper lined cloth sacks, 4 sacks to the barrel, with an alternate bid on all paper six ply sacks (with one ply waterproof) 4 sacks to the barrel. Specifications obtainable from above.

Preparing Sketches.

POST OFFICE Cost, \$189,000

INGLEWOOD, Los Angeles Co., Cal. SE' Kelso and Hillcrest Blvd.

One-story and mezzanine floor masonry and steel Post Office (136x100 ft.)

Owner—United States Government.

Architect—Myron Hunt and H. C. Chambers, 408 S. Spring St., Los Angeles.

PEARL HARBOR, T. H.—Following are additional contractors, et al who have procured plans for the purpose of submitting bids to the Bureau of Yards and Docks, Navy Department, Washington, D. C., for pier and two quays of reinforced concrete construction, etc., at Pearl Harbor, T. H. Specification No. 7224:

Grinnell Co. of the Pacific, 5th and Brannan Sts., San Francisco.
Clinton Constr. Co., 923 Folsom St., San Francisco.
Soule Steel Co., 1750 Army St., San St., San Francisco.
United Commercial Co., 234 Steuart St., San Francisco.
Healy Tibblits Constr. Co., 64 Pine St., San Francisco.
Pacific Coast Steel Co., 20th and Illinois Sts., San Francisco.

PEARL HARBOR, T. H.—Following are additional contractors, et al who have procured plans for the purpose of submitting bids on May 3 to the Bureau of Yards and Docks, Navy Department, Washington, D. C., for buildings at the Navy Yard, Pearl Harbor, T. H. Specification No. 7074:

Honolulu Iron Works, Honolulu.
Otis Elevator Co., I Beach St., San Francisco.
Fire Protection Products Co., 1101 16th St., San Francisco.
Anchor Post Fence Co., 460 5th St., San Francisco.
Theo. Davies, Matson Bldg., San Francisco.
Grinnell Co. of the Pacific, 5th and Brannan Sts., San Francisco.
Mangrum Holbrook Co., 1235 Mission St., San Francisco.

SUNNYVALE, Santa Clara Co., Cal. — Following have procured plans for the purpose of submitting bids to the Public Works Officer, 12th Naval District, 100 Harrison St., San Francisco, on April 4, for additional telephone facilities at the Naval Air Station, Sunnyvale. Spec. 7258:

Roy M. Butcher, 1020 Sherwood Ave., San Jose.
R. G. Whinery, Los Angeles.
Mattson-Seabrooke Co., 4115 Broadway, Oakland.
Butte Electric Equip. Co., 2014 Folsom St., San Francisco.
H. F. Haverkmap, 1127 Folsom St., San Francisco.
Interphone Electric Co., 5510 Monte Vista, Los Angeles.
O. G. Ritchie, 154 N 11th St., San Jose.
W. B. Baker, 15 Harriet St., San Francisco.

SEATTLE, Wash. — Treasury Department rejected all bids for landscaping in connection with the Federal Building at Seattle. On bid opening lowest bid was submitted by the Floral Supply Company, Seattle, at \$49,097.

SUNNYVALE, Santa Clara Co., Cal.—Following have procured plans for the purpose of submitting bids to the Public Works Officer, 12th Naval District, 100 Harrison St., San Francisco, on April 4, for a photographic laboratory in the basement of the Administration Building at the Naval Air Station, Sunnyvale. Specification No. 7021:

L. C. Dunn, 2812 Buena Vista Ave., Alameda.

A. H. Vogt, 750 6th St., San Francisco.

Charles Nelson.

San Francisco Const. Co., 3159 Fillmore St., San Francisco.

Theo. Johanns, 2020 15th St., San Francisco.

Roy Lind, 54 Stanton St., San Francisco.

E. T. Lesure, 87 Ross Circle, Berkeley.

F. W. Snook, 596 Clay St., San Francisco.

J. M. Peters, 797 35th Avenue, San Francisco.

EUREKA, Humboldt Co., Cal.—R. P. Paoli, 3159 Fillmore St., San Francisco, at \$1190 submitted low bid to Public Works Officer, Mare Island Navy Yard, for painting two radio towers at the U. S. Naval Radio Station, Eureka. Specification No. 7004. Following bids received:

R. P. Paoli, San Francisco.....\$1190

Ed. Anderson, San Francisco..... 1488

Harry Wasserman, Los Angeles.... 1575

City Improvement Co., Berkeley 2500

Bids held under advisement.

KETCHIKAN, Alaska—A. C. Kreidler, Ketchikan, at \$3,966 awarded contract by U. S. Engineer Office, Seattle, to construct a concrete curb wall 853-ft. long on the existing rock fill breakwater at Ketchikan.

PEARL HARBOR, T. H.—Until Apr. 19, bids will be received by the District Public Works Officer, Fourteenth Naval District, Pearl Harbor, T. H., for modification to engine test stand at the Fleet Air Base, Pearl Harbor, T. H. Specification No. 7241. Work involves construction of noise reducing stacks, including concrete work, cement tile, cement plaster, steel windows and doors, floor, drains, etc. Plans available from above office and from Bureau of Yards and Docks, Washington, D. C., upon deposit of \$10.

SEATTLE, Wash. — Treasury Department rejected all bids for fencing, etc., in connection with the Federal Building in Seattle, Washington. On bids opening lowest bid was submitted by Henrikson - Alstrom Construction Co., Seattle, at \$12,550.

MERCED, Merced Co., Cal.—North Moller Co., 120 Cortland St., Jackson, Michigan, awarded the miscellaneous and ornamental iron and bronze work to Smith-Kinney, Inc., Los Angeles. In connection with the construction of the U. S. Post Office in Merced.

REDLANDS, San Bernardino Co., Cal.—North Moller Company, Jackson, Michigan, awarded the following additional sub-contracts in connection with the construction of the post office building being erected in Redlands for the U. S. Government. G. Stanley Wilson, 2646 W. 9th St., Riverside, Architect.

Vault and Closet Doors—Diebold Safe & Lock Co., Canton, Ohio.

Architectural Terra Cotta—Pacific Clay Products Co., Los Angeles.

Miscellaneous and Ornamental Iron—Smith-Kenney, Inc., Los Angeles.

Rolling Shutters—Acme Partitions Co., 3535 Peralta St., Oakland.

Structural Steel—Consolidated Steel Corp., Los Angeles.

SALT LAKE CITY, Utah. — Until April 17, 2:30 P. M., bids will be received by Supervising Superintendent of Construction, Veterans Administration Hospital, Palo Alto, for furnishing and installing lawn sprinkling system at the Veterans Administration Hospital, Palo Alto. Plans and specifications available from Veterans Administration Hospital, Palo Alto.

POINT REYES, Marin Co., Cal.—J. Piasecke, 345 Haight St., San Francisco, at \$755 submitted low bid to Public Works Officer, Mare Island Navy Yard for painting of exteriors of buildings at the U. S. Naval Direction Finder Station, Point Reyes, and painting exteriors and interiors of buildings at the U. S. Naval Radio Station, South San Francisco. Specification No. 7006. Following bids received:

Jos. Piasecke, San Francisco.....\$ 755

A. B. C. Painting Co., S. F..... 839

Grande Company..... 914

Erling Andresen, S. F..... 988

R. P. Paoli, S. F..... 1009

Pacific Painting and Decorating Co., Oakland..... 1243

D. E. Burgess, Stockton..... 1289

Harry Wasserman, Los Angeles.... 1947

Bids held under advisement.

8—CLUB BUILDINGS

Contract Awarded.

CLUB HOUSE Cost, \$3000

MARTINEZ, Contra Costa Co., Cal. Orinda Park Terrace Court.

One-story frame club house.

Owner—Trustees of Stiles Hall, City of Berkeley.

Architect—Williams & Wastell, 374 17th St., Oakland.

Contractor—H. H. Porter, El Cerrito.

Project Abandoned.

CLUBHOUSE Cost, \$2000

SAN MATEO, San Mateo Co., Calif. Foot of Peninsular Avenue.

One-story frame and stucco clubhouse (40x30 ft.) Spanish type, tile roof, metal sash, electric heating, will house administrative offices, rest rooms and small cafe).

Owner—City of San Mateo.

Architect—Thomas M. Edwards, 550 Montgomery St., San Francisco.

On bid opening lowest bid was submitted by Moore & Roberts, 461 Market St., San Francisco, at \$2495.

9—HOSPITALS

SAN FRANCISCO.—Until April 7, 3 P. M., bids will be received by T. A. Brooks, purchaser of supplies, 270 City Hall, for furnishing hospital equipment, etc. Specifications and proposal blanks available from above office.

Specifications Being Written.

HOSPITAL Cost, \$375,000

CAMARILLO, Ventura Co., Cal. Lewis Ranch.

Two-story reinforced concrete ward bldg. (accommodate 900 patients) kitchen and cafeteria (first unit).

Owner—State of California.

Architect—Geo. B. McDougall, State Architect, Public Works Building, Sacramento.

Consulting Architect—Harold Burket, 455 E. Main St., Ventura.

Plans are on the boards for the second unit, which will include a service building and boiler plant, and construction of these structures will follow shortly after the first unit.

TALMADGE, Mendocino Co., Cal.—Elkington Hellwig Co., 621 Minna St.,

San Francisco, at \$455 awarded contract by State Purchasing Department, Sacramento, for dishwashing machine at the State Hospital at Talmadge.

SAN FRANCISCO—Clinton Stephenson Constr. Co., 550 Montgomery St., submitted low bid at \$5288 to the Regents of the University of California for the construction of a Deep Therapy Pavilion at the University Hospital, Third and Parnassus Aves. Following bids received:

(1) Total Bid; (2) First part only to be completed in speced time:

Clinton Stephenson Constr. Co.

.....(1) 5288

A. H. Vogt.....(2) 3533

E. T. Lesure, Berkeley.....(1) 5340

Frank J. Reilly.....(2) 3872

Empire Constr. Co.....(1) 5481

.....(2) 3833

N. H. Sjoberg.....(1) 5770

Lindgren & Swinerton, Inc.....(2) 4040

F. J. Early Jr.....(1) 6043

.....(2) 4070

.....(1) 6080

.....(2) 4136

.....(1) 6733

.....(2) 3939

Bids held under advisement.

10—HOTELS

Plans Being Revised.

ALTERATIONS Cost, \$2000

VALLEJO, Solano Co., Cal. Sonoma and Capitol Streets.

Remodel swimming pool in hotel for supper club (dance floor, gallery, etc.)

Owner—Casa de Vallejo Hotel, Prem.

Architect—F. H. Slocombe, 131 Monte Cresta Ave., Oakland.

Plans will be completed within one week.

Whether bids will be asked or work done by day's labor is not determined.

Contract Awarded.

ALTERATIONS Cost, \$2500

SAN FRANCISCO. SW Fourth and Mission Streets.

Alterations to hotel.

Owner—G. Wright and L. Musso, 4th and Mission Sts., S. F.

Contractor—N. P. Evanov, San Anselmo.

11—ICE AND COLD STORAGE PLANTS

Prospective Bidders.

EXTENSION Cost, \$—

SAN FRANCISCO. Third and Berry Streets.

Extension to State refrigeration terminal (Unit 3) extend insulation and refrigeration machinery in concrete building (approx. 27,000 sq. ft. of floor space).

Owner—State of California (Harbor Commission).

Engineer—Frank G. White, Ferry Building.

Following have procured plans. Bids open April 6.

LeRoy Building Service, 165 Jessie Street.

Oakland Refrigerator and Butchers' Supply Co., 1622 East 12th St., Oakland.

Cork Insulation Co., 462 Bryant St.

Rolph Mills & Co., 525 Market St.

York Ice Machinery Corp., 234 9th Street.

Baker Ice Machine Co., 2459 East 14th St., Oakland.

Pelton Water Wheel Co., 2929 19th Street.

Fred J. Early, Jr., 369 Pine St. California Steel Products Co., Bay and Taylor Sts.

Mendit Cork Corp., 440 Brannan St.
Ries Blow Pipe Mfg. Co., 340 7th St.
W. C. Phillip Co., Inc., 273 9th St.
P. F. McCarthy, Sausalito.
Western Asbestos Magnesia Co., 675
Townsend St.
General Electric Co., Russ Bldg.
W. W. Williamson, 320 Market St.
John A. Hawkins, Battery and Lombard
Streets.
Carbondale Machinery Co., Carbondale,
Pa.
Cahill Bros., 206 Sansome St.
Van Fleet Freear Co., 557 Howard
Street.
Gay Engr. Corp., 2650 Santa Fe Ave.
Los Angeles.
Val Franz, 666 Mission Street.

12—POWER PLANTS

BRAWLEY, Imperial Co., Cal.—City council signs contract to finance construction of \$500,000 Diesel engine plant and transmission system; Municipal Engineering Co., Los Angeles, to start construction in 150 days. The lines of the Southern Sierras Power Co. are to be condemned. Bonds issued by the Municipal Engineering Co. will be redeemable out of the plant's earnings within 20 years.

CRESCENT CITY, Del Norte Co., Cal.—City Council may ask Reconstruction Finance Corporation for \$200,000 loan for municipal water and power system. E. J. Barry, Tacoma, Wash., engineer.

MARTINEZ, Contra Costa Co., Cal.—City council may seek \$50,000 loan from the Reconstruction Finance Corporation to construct municipal gas distribution system.

LOS ANGELES, Cal.—Until 2 P. M., April 11, bids will be received by the Metropolitan Water District, 306 West Third St., Los Angeles, for the construction of substations on the Mecca Pass-Colorado River transmission line of the Colorado River Aqueduct. The substations will be 66 to 33 kv. stations, one located at Hayfield and one at Fanhill; one, located at Parker, will be 33 to 11.5 kv.; and 14 small distribution stations scattered along the line, some portable, of 33 to 2.4 kv. Specifications No. 23, prepared by J. M. Gaylord, Chief Electrical Engineer, will be ready for contractors March 25. Copies may be obtained after that date upon payment of \$5. The district will furnish all major equipment, including transformers, copper conductor, insulators and poles required, previous purchases covering the requirements. The contractor will furnish incidental materials, including some concrete, light structural steel, etc. F. E. Weymouth is the General Manager and Chief Engineer.

March 24, 1933

BIDS WANTED

SEATTLE, Wash.—Until April 26, 10 A. M., bids will be received by Board of Public Works, G. W. Roberge, Secretary, for construction work as follows:

A power house and tall race at the Diablo Power site;

A transmission line between the Diablo Power Plant and the Gorge Power Plant;

Assembling, erecting and adjusting power house apparatus previously purchased for the Diablo Power Plant;

Purchasing and installing additional equipment and apparatus at the Diablo Power Plant.

Specifications obtainable from above office. Certified check 5% payable to City Comptroller required with bid. Bidder must agree to purchase at par and accrued interest, Municipal Light & Power Bonds, for \$2,354,000. Deposit of \$25 required for plans.

FRESNO, Cal.—San Joaquin Light & Power Co. will replace pole-power line on Fresno St., between O and H Sts., with underground conduit 2300 ft. long; estimated cost \$75,000.

PASADENA, Los Angeles Co., Cal.—Until April 1, 11 A. M., bids will be received by Bessie Chamberlain, city clerk, room 218, City Hall, to furnish three transformers 2000-kva. single-phase, 50-cycles, oil insulated, self-cooled, outdoor type, surge-proof, high voltage 15,500 to 2400 delta or 4150 "Y" low voltage equipped for automatic tap changing under load, with conservator equipment, suitable for operation on 60 cycles frequency. Certified check 5% required with bid.

LOS ANGELES, Cal.—E. F. Scattergood, Chief Electrical Engineer and General Manager of the Bureau of Power & Light, has announced that \$524,870 will be expended for improvements and betterments to the electrical distribution system as follows: Two 33,000-volt underground cables from distributing station at 1117 S. Corto St. to distributing station at 604 N. Commonwealth Ave., \$180,000.

Two 33,000-volt underground cables from the distributing station on S. Corto St. to the distributing station at 926 Francisco St., \$36,000.

Additions, betterments and replacement to overhead low voltage system, \$40,000.

Additions, betterments and replacements to underground low voltage system, \$50,000.

Conduit on Highland Ave. from Santa Monica Blvd. to Cahuenga Blvd., \$38,000.

Conduit and cable on 6th St. from Commonwealth Ave. to Normandie Ave., to replace over-wires, \$20,000.

Two primary feeder cables on Hoover St. from distributing station on Commonwealth Ave. to Fountain Ave., to replace overhead lines, \$21,000.

Install and equip street light valuts, to remove noisy transformers, \$12,000.

Preliminary surveys and Colorado River transmission line surveys, \$16,900.

Special research work and studies at Stanford University in connection with the Colorado River power transmission line, \$2800.

Distributing station in the western district of Los Angeles, \$68,000.

Additions and betterments to station electrical equipment, \$15,200.

LOS ANGELES, Cal.—Graybar Elec. Co., Inc., 301 E 8th St., awarded contract by Metropolitan Water District March 24 at \$38,775.50 for furnishing cedar poles, butt-treated, for use in connection with the construction of transmission lines bet. Mecca Pass and the Colorado River, Item (4) of Spec. No. 21.

LOS ANGELES, Cal.—H. H. Walker, Inc., 1323 Venice Blvd., Los Angeles, awarded contract by Metropolitan Water District March 24, at \$77,560 for the construction of transmission lines in the Mecca Pass to Colorado River Section of the Construction Power Transmission Line. The work to be contracted for consists of approximately 38 miles of 66,000-volt transmission line, and 147 miles of 33,000-volt transmission line. The lines are located between Mecca Pass and Parker dam site on the Colorado River.

**13—PUBLIC BUILDINGS
FIRE HOUSES & JAILS**

Bids Wanted—To Close April 3rd, 1:30 P. M.
FIRE HOUSE Cost, \$12,500
SACRAMENTO, Sacramento Co., Cal.

Sacramento Blvd. and Sixth Ave. One-story frame and stucco firehouse (single community building).
Owner—City of Sacramento.
Architect—Starks & Flanders, Forum Bldg., Sacramento.
455 1st report Jan. 17; 4th March 18, 1933. 13

HUNTINGTON PARK, Los Angeles Co., Calif.—The City of Huntington Park proposes the erection of a new city hall, police station and fire hall building on the site of the old city building, located on the SE corner of Gage and Pacific Blvd., Huntington Park. The entire second story of the present building was demolished by the earthquake.

Planned.
FIRE HOUSE Cost, \$—
DAVIS, Yolo Co., Calif. F Street bet. 2nd and 3rd.
New fire house.
Owner—City of Davis (N. D. Thomas, clerk).
Architect—Not Given.

Bid Opening Postponed Until April 12, 2:30 P. M.

JAIL Cost, \$490,000
SNEATH RANCH, San Mateo County. Seven-story men's jail building and two-story women's jail building (Class B reinforced concrete construction, tar and gravel roof, concrete floors, mastic finish in cell block, steel cells, steel sash, steam heat, ventilating system, laundry, kitchen, sewage disposal plant farm group).
Owner—City and County of San Francisco.

Architect—Albert F. Roller, Crocker First National Bank Building, and Dodge Riedy, Pacific Bldg., San Francisco.

Date was previously set for March 29. Mechanical bids will probably be opened on April 19.

SANTA ANA, Orange Co., Cal.—J. W. Markel, Santa Ana, has been retained by Orange county supervisors to superintend re-construction of the aged by earthquake. J. S. Fluor, Santa Ana, was named consultant by the board to work with Mr. Markel. A thorough inspection has revealed that the building is structurally sound, but the walls will have to be anchored, the tower removed and the roof altered. Mr. Markel has established his office in the basement of the courthouse.

SAN FRANCISCO.—Ace Sheet Metal Works, 444 Clementina St., at \$2,337 submitted low bid to San Francisco War Memorial Trustees, for furnishing and installing kitchen equipment for the Veterans' Building. Following bids received:

(1) deduct if Wedgewood ranges are used.	
Ace Sheet Metal Works.....	\$2,337
.....(1)	275
Dohrmann Hotel Supply Co.....	\$2,600
.....(1)	489
J. A. Nelson, Inc.....	\$2,644
.....(1)	124
Elkington-Hellwig Co.....	\$3,078
.....(1)	312
Mangrum Holbrook Co.....	\$3,167
.....(1)	302
Bids held under advisement.	

Segregated Bids Being Taken.
REMODELING Cost, \$3000
REDWOOD CITY, San Mateo Co., Cal. Remodel old county jail for juvenile home.
Owner—County of San Mateo.
Architect—Not Given.
Bids are being received by E. H. Werder, Purchasing Agent.

14—RESIDENCES

Contract Awarded.
RESIDENCE Cost, \$5000
SAN FRANCISCO. S Shafter 25 West
Keith.
One - story and basement frame and
stucco residence.
Owner—Mrs. V. Teulier, 1733 Oakdale
Avenue.
Plans by Mr. Saunier.
Contractor—A. Saunier, 769B Bruns-
wick Street.

Heating Contract Awarded.
ALTERATIONS Cost, \$5000
WOODSIDE, San Mateo Co., Cal.
Alterations and additions to residence
(work involves painting, plumbing,
heating, ventilating, etc.)
Owner—J. L. Deahl.
Architect—Bliss & Fairweather, Bal-
boa Bldg., San Francisco.
Contractor—H. S. Meinberger, 343 4th
St., San Francisco.
Heating—Scott Company, 243 Minna
St., San Francisco.
Other awards reported March 17.

Contract Awarded.
RESIDENCE Cost, \$3000
SACRAMENTO, Sacramento Co., Cal.
No. 2416 28th Street.
One-story frame and stucco residence
(5 rooms).
Owner—D. Foy, 2248 Gerber Way, Sac-
ramento.
Architect—Not Given.
Contractor—L. Milspangl, 4001 U St.,
Sacramento.

March 30, 1933
Sub-Bids Being Taken.
RESIDENCE Cost, \$3500
SAN FRANCISCO. No. 2655 Twenty-
second Avenue.
One-story and basement frame and
stucco residence (5 rooms); tile
and composition roof, gas heating,
tiled baths, etc.
Owner and Builder—Parkside Develop-
ment Co., 2655 22nd Ave., S. F.
Plans by B. K. Dobkowitz, 425 Mon-
terey Blvd., San Francisco.

Plans Being Figured—Bids Close April
3, 4 P. M.
RESIDENCE Cost, \$—
MILL VALLEY, Marin Co., Cal.
One-story and basement residence (6
rooms); stucco and half-timber
exterior, shake roof, some canvas
walls, fire place, natural stone
work, tiled bath, gas warm air
heating system, wall paper, etc.
Owner—F. H. Hildebrand.
Architect—Kent & Hass, 525 Market
St., San Francisco.

Contract Awarded.
RESIDENCE Cost, \$6000
SAN FRANCISCO. NE 20th and Ver-
mont Streets.
One - story and basement frame and
stucco residence (7 rooms) com-
position wood roof, gas heating
system, colored tile bath and
kitchen, canvass walls, etc.
Owner—A. De Michell, 527 Lombard
Street.
Architect—Chas. Strothoff, 2274 15th
Street.
Contractor—J. Bettencourt, 422 San
Anselmo Ave., San Bruno.

Contract Awarded.
RESIDENCE Cost, \$—
SAN RAFAEL, Marin Co., Cal.
One-story wood frame residence
(shingle exterior, eight rooms and
four baths).
Owner—Mr. McCarthy.
Architect—Wm. I. Garren, 233 Post St.
San Francisco.
Contractor—Moore and Roberts, 693
Mission St., San Francisco.

Plans Being Figured—Bids Close April
8, 12 Noon.
RESIDENCE Cost, \$—
HILLSBOROUGH, San Mateo Co., Cal.
Two-story and basement frame and
stucco residence (9 rooms and 3
baths).
Owner—E. O. McCormick.
Architect—W. W. Wurster, 260 Cali-
fornia St., San Francisco.
Bids are being taken from a select-
ed list of contractors.

Contract Awarded.
RESIDENCE Cost, \$6053
MARTINEZ, Contra Costa Co., Cal.
Two-story frame and stucco residence
Owner—Shell Chemical Company.
Architect—Not Given.
Contractor—H. J. Siino & Bros., 710
Black Diamond, Pittsburg.

Plans Being Revised.
RESIDENCE Cost, \$—
SAN FRANCISCO. W San Andreas
Ave. (St. Francis Wood).
Two - story and basement frame and
stucco residence (9 rooms, and 3
baths) tile roof, canvas walls, oak
flooring, electric refrigeration, etc.
Owner—Mr. and Mrs. Thos. C. Boyle.
Architect—H. C. Baumann, 251 Kear-
ny Street.
Bids will be asked in about 1 week.

Contract Awarded
RESIDENCE Cost, \$4000
PALO ALTO, Santa Clara Co., Calif.
No. 253 Addison Avenue.
One-story frame and stucco residence.
Owner—Joe Fevioll and D. Bettini,
Rose St., Menlo Park.
Plans by Owner.
Contractor — Ferioli C. Bettini, 957
University Drive, Menlo Park.

Plans Being Prepared.
RESIDENCE Cost, \$6000
BURLINGAME, San Mateo Co., Cal.
One and one-half-story and basement
frame and stucco residence (five
rooms) tile and composition roof,
gas heat, canvas walls, tile steps,
hardwood floors, cement plaster,
etc.
Owner—G. Loomis, % Architect.
Architect—F. Amandes, 1879 18th Ave.,
San Francisco.
Bids will be asked in about ten days

To Be Done By Day's Work.
RESIDENCE Cost, \$5000
SAN FRANCISCO. E 21st Avenue 210
S Ocean Avenue.
One - story and basement frame and
stucco residence.
Owner and Builder—A. J. Herzig, 635
Victoria Street.
Architect—Not Given.

Contract Awarded.
RESIDENCE Cost, \$8000
SACRAMENTO, Sacramento Co., Cal.
1945 11th Avenue.
Two - story and basement frame and
stucco residence (8 rooms).
Owner—G. Overturf, 1524 36th Street,
Sacramento.
Architect—Not Given.
Contractor—J. Ransdall, 1424 33th St.,
Sacramento.

Plans Being Figured.
RESIDENCE Cost, \$6500
BERKELEY, Alameda Co., Cal. North
Cragmont District.
Two-story frame and stucco residence
(6 rooms) tile roof, hot air heat-
ing system, hardwood floors, tiled
baths, electric refrigeration, etc.
Owner—George Dallas.
Architect—E. L. Snyder, 2102 Addison
St., Berkeley.

Plans Being Figured.
RESIDENCE Cost, \$5000
SAN FRANCISCO. 29th Ave. S Ca-
brillo St.
One - story and basement frame and
stucco residence (5 rooms) Patio

plant, social hall, shower, hand-
made tile roof, gas furnace, hard-
wood floors, etc.
Owner—Jack Krug.
Architect—Irvine and Ebbets (R. R.
Irvine, architect) 2048 Market St.
Bids are being received by owner
from a selected list of contractors.

Plans Being Figured—Bids Close April
7th.
RESIDENCE Cost, \$8,000
LOS ALTOS, Santa Clara Co., Cal.
Two - story and basement frame and
stucco residence (8 rooms and 2
baths) tile roof, oil burner and
hot air heating system, hardwood
floors, tiled baths, etc.
Owner—M. Kirkish, Sunnyvale.
Architect—Charles McKenzie, Twohy
Bldg., San Jose.
Bids are being taken from a select-
ed list of contractors.

15—SCHOOLS

SANTA MONICA, Los Angeles Co.,
Calif.—Architects Marsh, Smith and
Powell, 516 Architects' Bldg., Los An-
geles, have been retained as consult-
ing architects by the Santa Monica
board of education to make a survey
of all school buildings in the district.

SAN FRANCISCO.—Until April 5th,
2:30 P. M., bids will be received by S.
J. Hester, Secretary, Department of
Public Works, City Hall, for painting
the Adams School at Eddy and Polk
Streets. Estimated cost, \$850.

SAN FRANCISCO.—Until April 5th,
2:30 P. M., bids will be received by S.
J. Hester, Secretary, Department of
Public Works, City Hall, for painting
the Marshall School at 15th and Capp
Streets. Estimated cost, \$1,900.

LAS VEGAS, Nev.—Until 10 A. M.,
April 7, bids will be received by the
Las Vegas Union School District of
Clark County, Nev., for all labor and/
or material for the construction of a
fence around the Las Vegas High
School athletic field. Plans and spec-
ifications are on file with the principal
of the school. Certified or cashier's
check for 5% must accompany each
bid. O. K. Adcock, president.

FRESNO, Fresno Co., Calif.—Until
April 27, 5 P. M., bids will be re-
ceived by L. L. Smith, secretary,
Fresno Board of Education, for furn-
ishing supplies and equipment as per
specifications prepared by L. L. Smith,
2125 Fresno St., Fresno. Specifications
available from above office.

Contracts Awarded.
ADDITION Cost, \$—
DALY CITY, San Mateo Co., Calif.
Class C concrete addn. to high school
(add 6 classrooms) wood joists,
tile roof, wood and concrete floors,
steam heating system, etc.
Owner—Jefferson Union High School
District.

Architect—Resing & McGuinness, 488
Pine St., San Francisco.

General Work
Frank J. Reilly, 6350 Fulton St.,
San Francisco\$15,731

Heating
O'Mara & Stewart, 218 Clara St.
San Francisco\$ 5,977

Electric
Central Electric Co., 179 Minna
St., San Francisco\$ 1,194

Hardware
J. H. Kruse, Treat Avenue and
23rd St., San Francisco.....\$317.50

VALLEJO, Solano Co., Cal.—Fred
Turner, 557 Market St., San Fran-
cisco, at \$2287 submitted only bid to
Vallejo Junior High School District
for stage equipment in connection
with the Junior High School.

BERKELEY, Cal.—Elkington Hellwig Co., 621 Minna St., San Francisco, awarded contract by the Associated Student Body of the University of California for dishwashing machine and semi-automatic glass washing machine for the cafeteria at the University of California.

No Bids Received.
SCHOOL Cost, \$100,000
NORTH SACRAMENTO, Sacramento County, Calif.

One and two-story Class C brick high school (17 classrooms) gymnasium two shop rooms, etc.
 Owner—Grant Union High School District.

Architect — Harry Devline, California State Life Bldg., Sacramento.
 No bids were received by the Grant Union High School District March 27. Bonds have not been sold.

SAN FRANCISCO — Square Deal Floor Co., 3223 Broderick St., at \$24 submitted low bid to Department of Public Works for sanding 1230 square feet of floor space in the auditorium of the Patrick Henry School. Following bids received:
 Square Deal Floor Co. \$24
 Regal Floor Co. 33
 Hanley & McCrellis. 40
 Bids under advisement.

SAN FRANCISCO. — Following bids received by the Department of Public Works for cleaning brick and terra cotta and re-painting exterior wood work of the Girl's High School.

(1) steam clean and paint (2) steam clean only (3) paint only.
American Building Maintenance Co., 467 O'Farrell St. (1) \$1,550
 (2) 375
 (3) 1,220
Faggione Studios & California Bldg. Maintenance Co. (1) \$1,738
Edwin Anderson (1) \$2,053
 (2) 549
 (3) 1,510
W. G. Thomsen (1) \$2,182
 (2) 825
 (3) 1,357
Lee Dixon, Ltd. (3) \$1,245
R. P. Paoli (3) \$1,770
Reliable Painting Company (3) \$1,850
 Bids held under advisement.

SAN FRANCISCO. — Rucker Fuller Co., 539 Market St., at \$12,634 submitted low bid to Department of Public Works for blackboards for the Franklin, Cleveland, John Swett, Washington Irving, Glen Park and Garfield schools. Following bids received:
 Rucker Fuller Company \$12,634
 Fred Turner 12,681
 American Seating Company 13,109
 R. Brandlein Company 15,909
 P. F. Reihy and John Grace 16,285
 Munthe Equipment Co. 20,466
 Bids held under advisement.

SAN FRANCISCO—Following bids received by Department of Public Works for painting the Fremont School, located on McAllister St., between Broderick and Baker Sts., and for painting the McKinley School located on Castro St., between 14th and Henry Sts.:

MCKINLEY SCHOOL
American Building Maintenance Co., 467 O'Farrell St. \$ 980
Eclund & Company 1070
Reliable Painting Co. 1150
Lee Dixon 1194
W. G. Thomsen 1231
Jesse Sha 1477
Faggione Studios 1537
J. A. Mohr & Son 1535
R. P. Paoli 1990

FREMONT SCHOOL
Earling Andresen, 99 Divisadero \$ 497
Faggione Studios 647
W. G. Thomsen 808
Reliable Painting Co. 850

Ecklund & Co. 868
Lee Dixon 875
R. P. Paoli 978
J. A. Mohr & Son 1537
Jesse Shea 1537
Edwin Anderson 1655
 Bids held under advisement.

16—BANKS, STORES AND OFFICES

Sub-Contracts Awarded.
ALTERATIONS Cost, \$15,000
OAKLAND, Alameda Co., Cal. No. 1521 and 1545 Franklin St.
 Alter interior of brick telephone exchange building.
 Owner — Pacific Telephone & Telegraph Co., 140 New Montgomery St., San Francisco.
 Plans by Engineering Dept. of Owner.
 Contractor — W. G. Thornally, 354 Hobart St., Oakland.
Mill Work—Sunset Lumber Co., 400 High St., Oakland.
Plastering—William Makln, 2141 Livingston St., Oakland.
Plumbing and Heating—Standard Mechanical Co., 4712 Grove St., Oakland.
 Other awards will be made shortly.

Additional Sub-Contracts Awarded.
MARKET Cost, 10,000
RICHMOND, Contra Costa Co., Cal. SE 23rd St. and Macdonald Ave.
 One-story Class C reinforced concrete market (tar and gravel roof, steel sash, etc.)
 Owner—Henslee Corp. (care Bells-Gilberg, Ltd.) 366 17th St., Oakland.
 Architect—H. A. Minton, 525 Market St., San Francisco.
 Contractor—David Paganini, 519 California St., San Francisco.
Steel Doors—Soule Steel Co., 1750 Army St., San Francisco.
Mill Work—Sunset Lumber Co., 400 High St., Oakland.
Sheet Metal—Richmond Sheet Metal Works, Richmond.
Roofing—Verbiscio Roofing Co., Richmond.
 Other awards previously reported.

Contract To Be Awarded.
OFFICES Cost, \$—
ALAMEDA, Alameda Co., Calif. Regent St. and Central Ave.
 Two-story frame and stucco office building.
 Owner—Dr. J. Ohannesson, Alameda.
 Architect—Not Given.
 Contractor—E. F. Henderson, 6433 Chabot Road, Oakland.

Sub-Contracts Awarded.
ADDITION Cost, \$—
SAN FRANCISCO. Bush and Larkin Streets.
 Foundation and erection of structural steel for two-story and basement addition to telephone building for an ultimate 5-story and basement addition.
 Owner—Pacific Telephone & Telegraph Co., 140 New Montgomery St.
 Plans by Engr. Dept. of Owner (E. V. Cobby, Engineer).
 Contractor—MacDonald & Kahn, Financial Center Bldg., at \$7000.
Readymix Concrete—Readymix Concrete Co., Ltd., Carolina and Mariposa Streets.
Reinforcing Steel—Gunn, Carle & Co., 20 Potrero Avenue.
Erection of Structural Steel—Joe Gerriek, 74 New Montgomery St.

18—WHARVES & DOCKS

SEATTLE, Wash.—Until April 4, 2 P. M., bids will be received by Smith M. Wilson, Secretary, City Port Commission, 406 Bell St., to construct substructure for Connecticut St. Pier, including furnishing and driving piles.

19—MISC. CONSTRUCTION

SACRAMENTO, Cal.—Until April 3, 10 A. M., bids will be received by H. W. Hall, clerk, County Board of Supervisors, for the purchase of certain buildings belonging to County of Sacramento. Specifications are available from office of the county engineer. Bids must be accompanied by certified check of 10% of amount bid.

SEATTLE, Wash.—The Olympic Racing Association has filed informal application for a license to operate a one mile track near Riverton, south of Seattle. C. W. Beaver is chairman of the corporation's board of trustees. It is planned to build a one mile horse track and a five-eighths mile auto speedway.

Preparing Preliminary Plans.
MAUSOLEUM Cost, \$—
ALTADENA, Los Angeles Co., Calif. 2135 N Raymond Avenue.
 Reinforced concrete mausoleum (300 crypts).
 Owner—Western Mausoleum Co., Inc.
 Architect—C. C. Rittenhouse, 543 Wilcox Bldg., Los Angeles.

March 27, 1933
SANTA BARBARA, Calif. — Robert Paterson, 1911 San Andres St., Santa Barbara, submitted low bid to Santa Barbara city clerk at \$1280 for the construction of a comfort station and dressing rooms for the soccer field located near East Cabrillo pavilion, Santa Barbara. Other bids were: J. H. Luptin, \$1298; D. E. Madsen, \$1335; P. C. Taylor, \$1369; W. L. Willits, \$1,398; J. G. Amrhein and Carl Stark, \$1407; J. J. Munnemann, \$1430; Lodovico Germano, \$1549. Bids held under advisement.

Clearing Site.
DOG TRACK Cost, \$150,000
BAYSHORE, San Mateo Co., Cal.
 Dog racing track.
 Owner—Bayshore Kennel Club (Thos. Keene, J. Foppiano, et al), Belmont, Calif.
 Plans by Thomas Keene, Belmont.
 Mgr. of Constr.—Thomas Keene.
 Work will be done on day's work basis, sub-bids to be taken by Mr. Keene.

PORTLAND, Oregon—Until April 4th, bids will be received by the Regional Forester, Portland, Oregon, for the manufacture of 26 small ready cut lookout houses. Plans and specifications available from Room 412, New Post Office Bldg., Portland. Deposit of \$10, required for plans.

Contract Awarded.
SHELTER Cost, \$10,000
SAN FRANCISCO. Golden Gate Park near Lake Alford.
 One-story brick, concrete and bronze shelter (for card players).
 Owner—Park Commission (Mrs. D. Ghirardelli, Donor).
 Architect—Bliss & Fairweather, Balboa Bldg., San Francisco.
Bronze—Michel & Pfeffer Iron Works, Harrison and Tenth Sts., S. F.
Sheet Metal—Forderer Cornice Wks., 269 Potrero Ave., San Francisco.
Brick and Concrete—A. Nelson, 242 Ocean Ave., San Francisco.

Contract Awarded.
ALTERATIONS Cost, \$2000
SAN FRANCISCO. No. 347 Stockton Street.
 Alterations to studios.
 Owner—G. Hansen, % Architect.
 Architect—S. Heiman, 605 Market St., San Francisco.
 Contractor—J. S. Malloch, 666 Mission St., San Francisco.

Being Done By Day's Work.

BOAT HOUSE Cost, \$6000
OAKLAND, Alameda Co., Cal. Municipal Airport.
 One-story frame boat house (14x40 ft.) to house U. S. Naval Reserve speed boat.
 Owner—City of Oakland Port Commission.
 Plans by Eng. Dept. of Owner.

SAN FRANCISCO.—McGee Sales Agency, 25 Fremont Street, at \$580 awarded contract by City Fire Commissioners for furnishing material, labor, tools, etc., for the rebuilding of the front baffle walls in boilers No. 1 and No. 2 of pumping station No. 2 of the Auxiliary Water Supply System at Fort Mason.

SAN FRANCISCO—Rees Blow Pipe Mfg. Co., 340 Seventh St., at \$30 submitted low bid to Department of Public Works for repairs to parts for Municipal Asphalt plant, involving 20 elevator buckets, 50 ft. rubber transmission belt, etc. Following bids received:

Rees Blow Pipe Mfg. Co.....	\$30.80
Montague Pipe & Supply Co.....	30.80
Chain Belt Co.....	33.00
Bodinson Mfg. Co.....	35.00
Link Belt Co.....	40.00
Sims & Gray.....	40.00

Bids held under advisement.

SAN FRANCISCO.—James H. Pinkerton Co., 927 Howard Street, at \$2,240 awarded contract by Public Utilities Commission for changing heating system in the San Francisco Water Department building from district steam supply to a steam generating plant, using gas as fuel. Spec. W. D. No. 31.

LOS ANGELES, Cal.—Until 12 M., April 4, bids will be received by H. E. Russell, Los Angeles County Purchasing Agent, 524 N Spring St., for furnishing (1) five rolls Battleship linoleum, brown, 3/16-in. thick, 72 in. wide, first quality government specifications; (2) 20 sq. yds. same a item (1). Spec. No. 5546. 19

20—MISC. SUPPLIES AND MATERIALS

LOS ANGELES, Cal.—J. H. Baxter & Co. awarded contract by A. J. Holm city purchasing agent, at \$9782.20 for furnishing creosoted timbers for bulkhead at Berths 156 and 160, under Spec. No. 3042.

SAN FRANCISCO—Following bids submitted under Bid No. 982 to City Purchasing Agent to furnish 23,000 ft. of 2 $\frac{3}{4}$ - 1 $\frac{1}{2}$ - and 1-in. fire hose:
 (1) 2000 ft. 1-in. (per ft.);
 (1a) 2000 ft. 1-in. (lump sum);
 (2) 5000 ft. 1 $\frac{1}{2}$ -in. (per ft.);
 (2a) 5000 ft. 1 $\frac{1}{2}$ -in. (lump sum);
 (3) 16,000 ft. 2 $\frac{3}{4}$ -in. (per ft.);
 (3a) 16,000 ft. 2 $\frac{3}{4}$ -in. (lump sum).

Bidders follow:

(A) Universal Rubber Mfg. Co., (1) \$.375.
 (B) Pioneer Rubber Mills, (1) \$.395
 1a) \$.790 (2) \$.395 (2a) \$.1975 (3) \$.625
 (3a) \$10,000.
 (C) America-La France Foamite Corp. of Pacific, (2) \$.405 (2a) \$.2025 (3) \$.59
 (3a) \$.9440.
 (D) American Rubber Mfg., (1) \$.44
 (1a) \$.880 (2) \$.42 (1a) \$.2100 (3) \$.68
 (3a) \$10,880.

Bids held under advisement.

SAN FRANCISCO.—R. A. Hansen, 272 E 1st St., Livermore, at \$10,380 submitted lone bid under Bid No. 979 to City Purchasing Agent to furnish stove oil, fuel oil and burning equipment for Hetch Hetchy project.

SONORA, Tuolumne Co., Cal.—Until May 1, 8 P. M., bids will be received by Harry E. Hoffman, City Clerk, to furnish gasoline and motor oils for one year from date of award of contract.

SAN FRANCISCO—Link Belt Co., 400 Paul Ave., San Francisco, at \$2196 awarded contract by City Purchasing Agent under Bid No. 976, to furnish fifteen 2-compartment cars for concrete materials for Hetch Hetchy Project.

LOS ANGELES, Cal.—Chas. R. McCormick Lumber Co., awarded contract by H. E. Russell, County Purchasing Agent, at \$8350.37, for furnishing creosoted lumber under Specification No. 5649.

OFFICIAL PROPOSALS

(Docking Facilities—Sunnyvale)

SEALED BIDS, indorsed "Bids for additional docking facilities in airship hangar, Specification 7264", will be received at the Public Works Office, 12th Naval District, 100 Harrison Street, San Francisco, Calif., until 11 o'clock A. M. April 4, 1933, and then and there publicly opened for additional docking facilities in airship hangar at the Naval Air Station Sunnyvale, California. The work includes milling lumber, fabrication of metal straps and the assembly, erection and fitting of the same on the structural steel frame of the airship hangar to afford points of suspension for cables. Specification 7264 and accompanying drawing may be obtained on application to the Public Works Officer, 12th Naval District, 100 Harrison Street, San Francisco, Calif. Deposit of a check or postal money order for \$5.00 payable to the Chief of the Bureau of Yards and Docks is required as security for the safe return of the drawing and specification. The Government reserves the right to require, prior to the award of the contract, a statement of facts in detail of the business and technical organization and plant of the bidder available for the contemplated work, including financial resources for such part of the work as is not provided for by the stipulation in article 16 of the Standard Form of Contract (Construction) to be used, and experience of organization of comparable work. The Government reserves the right to reject any bid respecting which the facts as to business and technical organization, financial resources, plant or experience compared with the project bid upon, justify such rejection.

A. L. PARSONS,
 Chief of Bureau.

March 7, 1933.

(Spec. No. 7224—Pearl Harbor—Pier)

Sealed Bids, indorsed "Bids for pier, Specification No. 7224," will be received at the Bureau of Yards and Docks, Navy Department, Washington, D. C., until 11 o'clock A. M., May 3, 1933 and then and there pub-

licly opened for a pier and two quays of reinforced concrete construction supported on concrete cylinders on wood piles and on concrete piles and includes a steel sheet pile bulkhead, timber fender systems, track work, piping systems and electrical conduits at the Navy Yard, Pearl Harbor, T. H.

Specification No. 7224 and accompanying drawings may be obtained on application to the Bureau or to the Commandant, Navy Yard, Pearl Harbor, T. H., or to the Commandant, 12th Naval District, 100 Harrison St., San Francisco. Deposit of a check or postal money order for \$25, payable to the Chief of the Bureau of Yards and Docks, is required as security for the safe return of the drawings and specification.

The Government reserves the right to require, prior to the award of the contract, a statement of facts in detail of the business and technical organization and plant of the bidder available for the contemplated work, including financial resources for such part of the work as is not provided for by the stipulation in article 16 of the Standard Government Form of Contract (Construction) to be used, and experience of organization in construction of comparable work. The Government reserves the right to reject any bid respecting which the facts as to business and technical organization, financial resources, plant, or experience, compared with the project bid upon, justify such rejection.

A. L. PARSONS,
 Chief of Bureau.

February 2, 1933.

Fire Hose Houses—Government Island

United States Department of Agriculture, Bureau of Public Roads, San Francisco, Calif., March 18, 1933.

SEALED BIDS will be received at the office of the Bureau of Public Roads, 807 Sheldon Building, 461 Market Street, San Francisco, Calif., until 2:00 o'clock P. M., on April 4, 1933, for furnishing all labor and materials required in the erection of Units 27, 28 and 29, Fire Hose Houses, on the United States 15 acre tract, Government Island, Alameda, Alameda Co. Calif. Where copies of plans and specifications are requested a deposit of \$10 will be required to insure their return. If these are not returned within 15 days after opening of bids the deposit will be forfeited to the Government. Checks should be certified and made payable to the Regional Fiscal Agent, U. S. Forest Service. Plans, specifications and proposals may be obtained at the office of the Bureau of Public Roads, 807 Sheldon Bldg., 461 Market Street, San Francisco, or the Bureau of Public Roads, Government Island, Alameda.

C. H. SWEETSER,
 District Engineer.

ENGINEERING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

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| 21.—Bridges | 30.—Reservoirs and Dams |
| 22.—Dredging, Harbor Works, Excava. | 31.—Pipes Lines and Wells |
| 23.—Irrigation Proj. | 32.—Sewers & Sewage Disposal Plants |
| 24.—St. Light. Systems | 33.—Water Works |
| 25.—Machinery and Equipment | 34.—Parks & Playgrounds |
| 26.—Railroads | 35.—Tunnels |
| 27.—Fire Alarm Sys. | |
| 28.—Fire Equipment | |
| 29.—Streets & Highways | |

21—BRIDGES

LOS ANGELES, Cal.—The engineering department of the Santa Fe Railway Company, of Chicago, is taking bids for the fabrication of Carnegie beams to be used in the superstructure of the Orange Ave. Grade Separation at Arcadia. Bids on the substructure and other work to be done by the county were opened by the county supervisors March 20. The proposed structure will be an 80-foot through girder span. The Santa Fe will erect the steel when the abutments are built, probably in July.

MONTEREY COUNTY, Cal.—Until April 7, 2 P. M., bids will be received by L. H. Gibson, District Engineer, State Highway Commission, 50 Higuera St., San Luis Obispo, to extend existing reinforced concrete box culvert about 3 miles south of San Lucas. Specifications obtainable from the above. Certified check 10%.

SAN JOSE, Santa Clara Co., Cal.—Until April 17, 5 P. M., to be opened at 8 P. M., bids will be received by John J. Lynch, City Clerk, to construct Julian St. Bridge over Coyote Creek, involving:

- (1) 1548 cu. yds. excav.;
- (2) 823 cu. yds. concrete;
- (3) 75.17 tons steel;
- (4) 177 concrete piles 20-ft. long;
- (5) 314 lin. ft. concrete handrail;
- (6) 100 lin. ft. galv. pipe handrail;
- (7) 6360 sq. ft. 2-in. asph. conc. surf.;
- (8) 560 cu yds. excav. in widening channel;
- (9) 36 lin. ft. 27-in. Portland cement concrete pipe.

NOTE: Steel and concrete estimate exclusive of piles and handrail. Handrail consists of 23.26 cu. yds. concrete and 1.44 tons steel. Piles consist of 152.75 cu. yds. concrete and 15.2 tons steel.

NOTE: Bridge approach:
1672 sq. ft. 5-in. asph. conc. pavement
281 sq. ft. 2-in. asph. conc. surfacing;
25 lin. ft. 8x10x14-in. Portland cement concrete curb;
31 sq. ft. 15x6-in. Portland cement concrete gutter.

Specifications obtainable from W. L. Popp, City Engineer. Certified check 10% required with bids.

LOS ANGELES, Cal.—Atlas Const. Co., 39 Congress St., Pasadena, awarded contract by county supervisors on March 27, at \$19,600, for the construction of a railroad grade separation structure in Arcadia. The project calls for a highway subway under the Santa Fe tracks, connecting Orange Ave. and Colorado St. The total length of the subway will be about 900 ft., with a steel superstructure 80 ft. in length.

The width of the street will be 40 ft. Contract for the steel superstructure will be let by the Santa Fe Railway and the subway portion by the county. The total cost will be paid as follows: \$4000 by the City of Arcadia; \$16,532 by the railroad, and \$62,123 by the county.

22—DREDGING, HARBOR WORKS, EXCAVATION

SACRAMENTO, Cal.—R. P. Easley, Antioch, at \$52,003 submitted low bid to U. S. Engineer Office, Sacramento, to construct new levee and raise old levee along the northeasterly side of Haas Slough from near its junction with Cache Slough to its junction with Reclamation District No. 2968 canal, and on the easterly side of said canal to near the pumping plant, total length of levee 16,400 ft., involving 440,000 cu. yds. embankment in place in levee. Complete unit and total bids follow:

R. P. Easley, Antioch, .1182, \$52,003.
Haas, Doughty & Jones, San Francisco, .1288; \$56,672.

Franks Constr. Co., S. F., .149; \$65,560
Delta Dredging Co., Pittsburg, .159; \$69,960.

Olympian Dredging Co., San Francisco, .1784; \$78,496.

Engineer's estimate, .1064.
Bids held under advisement.

LOS ANGELES, Cal.—C. B. Ursching, General Manager Harbor Department, has recommended that a 5-year construction plan be financed by a \$3,250,000 loan to be obtained from the Reconstruction Finance Corp. The list of projects included in the program follows:

Extension of the belt line railway in the inner harbor area—\$250,000.

Repairing earthquake damage to docks and wharves—\$250,000.

Extending oil dock at berth 180—\$350,000.

Construction of channel facilities at Fifth St. landing—\$75,000.

Extension of rail line to proposed navy personnel landing at 22nd St.—\$145,000.

Construction of fishermen's wharf at Fish harbor—\$127,000.

Building jetty to divert surge at Fish harbor—\$170,000.

Dredging as needed at harbor wharves to provide for deep-draft vessels—\$176,000.

Construction of navy landing in outer harbor at 22nd St.—\$110,000.

Grading and road building items in harbor district—\$108,000.

Fish harbor sewage disposal system—\$25,000.

Widening and paving of existing roadways—\$65,000.

Installing storm drains in west ba-

sin dock area—\$20,000.

Construction of a new passenger terminal on the west basin—\$1,350,000.

LONG BEACH, Cal.—A. H. Adams, Director of Public Service, preparing plans for a seawall to be built along the ocean front at Alamitos Bay in the Naples District. Estimated cost, \$300,000.

Calls for filling of the Naples Canal and the Rivo Alto Canal and paving these waterways. The other plan provides for a bulkhead along the entire front. Plans are under the direct supervision of E. H. Harnett, 502 City Hall, city engineer's office, and call for the following:

11,000 lin. ft. concrete sheet piling;
concrete coping;
pipe railing;
cement concrete sidewalk.

23—IRRIGATION PROJ.

COLVIS, N. M.—Construction of a diversion dam on the Pecos River and the installation of a permanent irrigation system is planned by the Fort Sumner Irrigation District which owns 5000 acres of land. A loan of \$134,000 has been given the district by the Reconstruction Finance Corp.

25—MACHINERY AND EQUIPMENT

SAN FRANCISCO—Following bids received by City Purchasing Agent under Bid No. 983 to furnish two hose wagon truck chasses:

General Fire Truck Co., \$5175 each; \$10,250 sum.

Seagrave Corp., \$6950 each; \$13,622.
Mack International, \$7475 each; \$14,750.

America-La France & Foamite Corp. \$8145 each; \$15,945. Alternate bid, 6-cylinder, \$7145 each; \$13,739.

Bids held under advisement.

LOS ANGELES, Calif.—Shepherd Tractor & Equipment Co. awarded contract by A. J. Holm, city purchasing agent, March 23, at an estimated total of \$15,000 (items 3 and 4), for the rental of used Diesel-operated caterpillar "65" tractors under Spec. No. 3019. Bids on items 1 and 2 were rejected. The bids were opened Mar. 8.

DALY CITY, San Mateo Co., Cal.—Until April 10, 8 P. M., bids will be received by B. C. Ross, City Clerk, to furnish one panel truck, 141-in. wheelbase, 7-in. frame; further specifications obtainable from above office. Certified check 10% required with bid. Bids were to have been opened March 27.

30—RESERVOIRS & DAMS

SOUTHGATE, Los Angeles Co., Cal.—Louis M. Rothkranz Water Superintendent, preparing plans for 500,000 gallon reservoir, 80x80 feet of reinforced concrete; it will be 4 ft. below the surface and 8 ft. above with booster pump, etc.

LOS ANGELES, Cal.—E. C. Eaton, chief engineer, County Flood Control District, 202 N Broadway, is preparing specifications for the furnishing of reinforcing steel for use in connection with the construction of San Gabriel Dam No. 1. The contract, which was awarded to the West Slope Construction Co., calls for the placing of

CAPITAL CITY TITLE COMPANY

J. C. PALEN,
Manager

914 Seventh Street
Sacramento :: California

7,675,000 lbs. reinforcing steel. Other materials and equipment for this dam for which specifications are being prepared are: Portland cement, vent pipes 36,000 lin. ft. metal seals, valves. Bids will be taken through the board of supervisors.

32—SEWERS & SEWAGE DISPOSAL PLANTS

MARTINEZ, Contra Costa Co., Cal.—Until April 17, 11 A. M., bids will be received by S. C. Wells, County Clerk, to construct reinforced concrete culvert under spill on Road D-17, Supervisor's District No. 4, about 2.5 mi. southwest of Antioch, involving:

- (1) 241 cu. yds. concrete;
- (2) 37,498 lbs. reinf. steel.

Specifications obtainable from County Surveyor R. R. Arnold. Certified check 10% required with bid.

LOS ANGELES, Cal.—American Concrete & Steel Pipe Co. awarded contract by H. E. Russell, County Purchasing Agent, for furnishing reinforced centrifugal spun concrete pipe as follows:

- (1) 347 8-ft. lengths, 36-in. (1700D) loading, at \$25.12.
- (2) 4 8-ft. lengths, 36-in., beveled, at \$25.12.
- (3) 49 8-ft. lengths, 24-in., at \$17.20.
- (4) one 8-ft. length, 18-in., at \$11.60. Specification No. 5443.

LOS ANGELES, Cal.—A. K. Warren chief engineer, County Sanitation Districts, 139 N Broadway, is preparing plans for proposed White's Point Outfall Sewer line to be built from the sanitation districts joint sewage treatment plant in the vicinity of Figueroa St. and Lomita Blvd. through the Palos Verdes Hills to a point near White's Point, approx. 38,800 ft. The line lies in a general southwesterly direction from the treatment plant.

SOUTH SAN FRANCISCO, San Mateo Co., Cal.—South City Lumber & Supply Co., at \$545.70 awarded contract by city council to furnish 20-, 370 bd. ft. redwood lumber to extend outfall sewer. Only other bid submitted by Industrial City Lumber Co. at \$569.02.

MONTEREY PARK, Los Angeles Co., Calif.—Application for a loan of \$161,171 for the installation of a municipal disposal system has been made to the Reconstruction Finance Corp. by the City of Monterey Park. The proposed plant, designed ultimately to serve a population of 150,000, was designed by C. H. Ellison, city engineer. The engineer estimates that 2600 connections will be required. The first unit to be built will serve a population of 6000.

LOS ANGELES, Cal.—Hearing on the proposed construction of sewers in Belvedere Gardens, Unit No. 4, under C. 1. No. 757, continued by county supervisors from March 27 to September 25. The work as planned involves 4.73 miles of sewer and is estimated to cost \$66,300.

LOS ANGELES, Cal.—Hearing on the proposed construction of sewers in Belvedere Gardens, Unit No. 5, under County Improvement No. 770, continued by county supervisors from March 27 to September 25.

33—WATER WORKS

LOS ANGELES, Cal.—West Coast Pump & Sales Co. has been awarded contract by D. P. Nicklin, Purchasing Agent, Water & Power Bureau, for

one rotary pump under Spec. No. 6074. 33

LA HABRA, Orange Co., Cal.—Purchase of the water system of the American States Water Co. at a total price of \$100,000, ordered by the city council, following negotiations between the city and the water company over a period of several months. City Attorney Harold McCabe was authorized to prepare the necessary contracts. The city recently voted a \$100,000 bond issue for the purchase of the existing system or the construction of a new one. City Engineer, John Sanks.

SANTA BARBARA, Cal.—City Engineer E. B. Brown has prepared an estimate of \$59,670.00 as the cost of the proposed east side drainage project. The project will involve:

Storm drain in Alameda Padre Serra from Garcia to Sycamore Canyon, diverting water in Sycamore Creek, \$16,100.

A drain on Quarantina St. from Canyon Perdido to Ortega St., \$11,000.

Enlargement of the Ortega Street drain to serve Spring St., \$3,900.

Pumping station, three pumps with total combined capacity of 200 second feet, automatically operated, \$28,000.

LYNWOOD, Los Angeles Co., Cal.—City Council is seeking ways and means to finance the construction of an elevated steel water tank to replace the one destroyed by the recent earthquake. The new tank will be of 100,000-gal. capacity with 115-ft. steel tower. A. J. Bateman, city engineer.

VICTORVILLE, Fresno Co., Calif.—Chas. L. Foulke, consulting engineer, 455 4th St., San Bernardino, has completed preliminary plans for a water system to be built in the Victorville County Water District under a \$50,000 bond issue voted recently. The plans provide for work as follows:

Drilling of two 18-inch wells.
Installation of deep well pumps, capacity 100,000 gallons per day, and sand filters.

Construction of a 150,000-gal. reinforced concrete reservoir or steel water tank.

37,000 lin. ft. of 4- to 6-in. cast iron water pipe.

The district is considering proposals of contractors to accept the bonds in payment for the construction. W. G. Roberts, Victorville, is president of the District.

OAKLAND, Cal.—Fred. W. Snook, 596 Clay St., San Francisco, at \$43,040 submitted low bid to East Bay Municipal Utility District to furnish:

- (1) 8,800 lin. ft. 8-in. cast iron pipe;
- (2) 16,075 lin. ft. 6-in. do;
- (3) 28,225 lin. ft. 4-in. do;
- (4) 2,200 lin. ft. 2-in. do.

Pipe is for the Fairview County Water District.

Complete bids follow:

- | | |
|------------------------------|-------------|
| (A) F. W. Snook, S. F. | \$43,040.00 |
| (B) E. J. Treacy, S. F. | 43,294.00 |
| (C) Jas. Currie, Burlingame. | 43,939.75 |
| (D) A. P. Fisher, S. F. | 44,701.12 |
| (E) G. C. DeGolyer, Oakland | 50,399.75 |
| (F) W. J. Tobin, Oakland | 54,136.90 |
| (G) Oakland Sewer Con. Co. | 54,396.00 |

	(1)	(2)	(3)	(4)
(A)	\$1,1431	\$.8557	\$.64	\$.528
(B)	1.20	.89	.61	.55
(C)	1.23	.88	.63	.54
(D)	1.25	.83 1/2	.674	.585
(E)	1.37	1.00	.75	.50
(F)	1.30	1.03	.87	.72
(G)	1.38	1.08	.84	.81

Bids held under advisement.
SAN FRANCISCO.—Fred W. Snook, 596 Clay St., at \$30,892 awarded contract by Department of Public Works to construct water system about three

miles in length from San Andreas to the site of the Sneath Ranch jail in San Mateo County.

West Coast Const. Co. submitted low bid at \$29,700 which was rejected as it did not comply with specifications.

35—TUNNELS

SEATTLE, Wash.—Puget Sound Machinery Depot at \$23,500 submitted low bid to Board of Public Works to construct steel standpipe near intersection of North 145 St. and Dayton Ave. at Foy, King County.

Newkirk & Munter at \$3472 submitted low bid to Board of Public Works to construct foundation for above standpipe.

35

29—STREETS AND HIGHWAYS

ARIZONA STATE.—Until 2 P. M., April 5, new bids will be received by State Highway Commission, Phoenix, for highway construction on the Holbrook-Winslow Highway, E-40, Schedules 1 and 2 (A. F. E. No. 6656).

The work on E-40, Schedule 1 which begins at the west city limits of Holbrook and extends westerly about 10.2 miles, consists of constructing two culverts, placing subgrade stabilizer and oil processing by the plant mix method, using cutback asphaltic cement.

The work on E-40, Schedule 2, which begins at a point about 10.2 miles west of the town of Holbrook and extends westerly about 11 miles, consists of constructing one C.M.P. culvert and oil processing by either the road or plant mix method, using asphaltic road oil.

Awards, previously having been announced as made to L. E. Dixon Co. of Los Angeles, on Schedule No. 1, and Heafey-Moore Co. and J. A. Casson, Phoenix, have been recalled and all bids rejected.

INGLEWOOD, Los Angeles Co., Cal.—Arthur W. Cory, City Engineer, is preparing specifications for the surfacing of Freeman Ave. bet. Redondo Blvd. and Edith St. with rock and oil.

LOS ANGELES, Cal.—Ordinance of intention for the improvement of Strickland Ave. bet. Burwood Terrace and 220 ft. west, under the 1911 Act, adopted by city council March 23. Hearing has been set for May 1.

BANNING, Riverside Co., Calif.—Walter Hoenecke, Hotel Banning, Banning, general superintendent for Wenzel & Henoch Const. Co., general contractors for the San Jacinto Tunnel, is taking bids for the construction of approx. four miles of 30-foot road adjacent to the Potrero Adit, involving grading and disintegrated granite surfacing. Ben Radtke, Purchasing Agent for the contractors, is also at the Hotel Banning.

TEHAMA COUNTY, Cal.—O'Connor Bros., Red Bluff, awarded sub-contract by Frank C. Cuffe, Box 441, San Rafael, to construct two bridges and two culverts in connection with 3.277 miles of grading the Deer Creek Meadows National Forest Highway, U. S. Bureau of Public Roads Project.

SAN FRANCISCO.—Until April 5, 2:30 P. M., bids will be received by Department of Public Works, S. J. Hester, secretary, to improve north half of Army St., Castro to 75 ft. east, involving:

- (1) 75 ft. armored concrete curb;
- (2) 450 sq. ft. 1-course conc. sidewalk;

(3) 20 ft. 6-in. V.C.P. side sewer;
 (4) 1,500 sq. ft. asph. conc. pave.

Specifications obtainable from J. J. Casey, city engineer, 3rd floor, City Hall. Estimated cost, \$550.

HUMBOLDT COUNTY, Calif.—As previously reported, Smith Bros. Co., 1636 B St., Eureka, at \$3252.80 (\$3.04 per cu. yd.) submitted low bid to the District Engineer, State Highway Commission, Eureka, to furnish and stockpile screenings in Humboldt Co. near Mad River Bridge about 1.4 mi. west of Essex.

Only other bid submitted by Basalt Rock Co., Inc., Napa, at \$3,723.60 (unit bid. \$3.48 per cu. yd.) Bids held under advisement.

LAKE COUNTY, Cal.—T. J. Doyle, 1527 17th Ave., San Francisco, at \$7,757 awarded contract by State Highway Commission to remove an existing timber bridge and construct a reinforced concrete slab bridge across Morrison Creek, 28 miles east of Mendocino County line, consisting of two 30-ft. spans on a concrete pier and concrete abutments.

SAN MATEO COUNTY, Cal.—Basich Bros., 20,550 Normandie Avenue, Torrance, and Los Angeles, at \$166,161.70 awarded contract by State Highway Commission to grade and pave with Portland cement concrete 3.3 miles between San Francisco and South San Francisco.

VENTURA COUNTY, Calif.—Until April 12, 2 P. M., bids will be received by S. V. Courtelyou, District Engineer, State Highway Commission 808 California State Office Bldg., Los Angeles, to treat earth shoulders with fluel oil between Oxnard and Santa Clara River Bridge, about 2.3 miles, involving 1700 barrels heavy fuel oil in place. Specifications obtainable from above office. Certified check 10% required with bid.

SAN FRANCISCO.—Until April 5, 2:30 P. M., bids will be received by Department of Public Works, S. J. Hester, secretary, to improve crossing of Fitzgerald and Jennings; also Jennings, Fitzgerald to Gilman, involving:
 (1) 195 ft. armored concrete curb;
 (2) 660 sq. ft. 1-course conc. sidewalk;
 (3) 4 brick catchbasins;
 (4) 90 ft. 10-in. V.C.P. culverts;
 (5) 32 ft. 12-in. V.C.P. sewer;
 (6) 68 ft. 6-in. V.C.P. side sewer;
 (7) 6,113 sq. ft. asph. conc. pave.

Specifications obtainable from the office of John J. Casey, city engineer, 3rd floor, city hall. Estimated cost, \$2980.

LOS ANGELES, Cal.—Consolidated Rock Products Co., awarded contract by A. J. Holm, city purchasing agent, March 21, at \$16,000 (estimated total), for furnishing Department of Water and Power, Bureau of Power and Light with sand, gravel and rock for six month period. Spec. No. 3003. The bids were opened March 1.

LOS ANGELES Cal.—Until 2 P. M., April 10, bids will be received by County Supervisors for the paving of Mission Road, from Hidalgo St. in the City of Alhambra to Santa Anita Ave. in the City of San Gabriel, 1666 ft. or 0.32 miles, under Cash Contract No. 451, involving:

- (1) 34,132 sq. ft. 2-in. asph. concrete wearing surface;
 - (2) 34,132 sq. ft. 4-in. asph. concr. base
- Plans prepared by Geo. W. Jones, County Road Commissioner. Mame B. Beatty, 501 Hall of Records, Clerk of the Board.

LOS ANGELES, ORANGE, SAN Diego and Imperial Cos., Cal.—Square Oil Co., 16 Adobe St., Los Angeles,

at \$2752.20 awarded contract by State Highway Commission to apply 1390 bbls. Diesel oil to roadside vegetation over 79.4 miles.

Complete bids published March 16.

LOS ANGELES, Cal.—Chutuk, Kordich & Vukojevlch, 4935 West Blvd. submitted low bid to Board of Public Works, March 22, at \$22,833.75 for improving Woodlawn Ave., between 37th St. and Vernor Ave., under Cash Contract.

LOS ANGELES, Cal.—Griffith Co., 502 L. A. Railway Bldg., Los Angeles, awarded contract by Board of Public Works, March 22, at \$2050, for the improvement of the alleys in block south of 6th St., between Mesa St. and Pacific Ave., under the 1911 Act.

MONTEBELLO, Los Angeles Co., Cal.—J. L. Cole, city engineer, is preparing specifications for the furnishing of asphaltic concrete material for the resurfacing of about 300,000 sq. ft. of pavement on E 9th St. bet. 4th St. and the west city limits. The surfacing will vary from 1½- to 2-in. involving approx. 3000 tons of premix material (plant mix) delivered f.o.b. job. The laying will be done by city forces. Bids will be called within a week.

FRESNO COUNTY, Cal.—Until Apr. 19, 2 P. M., bids will be received by State Highway Commission, Sacramento, to grade and pave with asphalt concrete 0.7 mi. between Church Ave. and California Ave. in Fresno, involving:

- (1) 3070 cu. yds. rdwy. excav., unclass.;
- (2) 20,060 sta. yds. overhaul;
- (3) 2430 cu. yds. imported borrow;
- (4) 310 cu. yds. struc. excav.;
- (5) 12,850 sq. yds. subgrade for pave.;
- (6) 5560 tons asphalt concrete;
- (7) 50 cu. yds. class A Portland cement concrete (struc.);
- (8) 1500 lbs. bar reinf. steel (struc.);
- (9) 360 lin. ft. 18-in. corr. metal pipe
- (10) 8 concrete joints complete in place;
- (11) 60 cu. yds. drainage sumps;
- (12) 90 cu. yds. Portland cement concrete to be removed;
- (13) 380 M. gals. water;
- (14) 1035 bbls. fuel oil;
- (15) 38 sta. finish roadway.

State will furnish corrugated metal pipe.

SAN JOSE, Santa Clara Co., Cal.—Until April 10, 11 A. M., bids will be received by Henry A. Pfister, County Clerk, for road surfacing as follows:

Whisman road from the Mountain View-Alviso Road to the Bayshore Highway, involving 155,930 sq. ft. oil macadam;

East Highland and Edgemont Sts., in the eastern foothills, involving 162,600 sq. ft. oil macadam;

Gilroy-Hollister and Fourth and Sixth Sts., near Gilroy—Gilroy-Hollister road involves:

- 35,500 sq. ft. paving;
 - 11,000 sq. ft. rebuild.
- Fourth St. involves 19,925 sq. ft. paving;

Sixth St. involves 29,307 sq. ft. paving; oil macadam;

Race St. and Fruitvale Ave. on the outskirts of San Jose, involving 58,800 sq. ft. oil macadam;

Plummer Ave. from the Foxworthy Road to Curtner Ave., involving 89,700 sq. ft. oil macadam.

Specifications obtainable from Robt. Chandler, County Surveyor, on payment of \$1.

SANTA CRUZ COUNTY, Cal.—Until April 10, 2 P. M., bids will be received by John H. Skeggs, District Engineer, State Highway Commission,

Room 211, State Bldg., San Francisco, to apply 950 barrels of fuel oil to 7 miles of existing roadbed between Slippery Rock Maintenance Station and Waterman Switch, as a dust palliative. Specifications obtainable from above office. Certified check 10% required with bid.

KERN COUNTY, Cal.—Until April 19, 2 P. M., bids will be received by State Highway Commission, Sacramento, to grade and pave with Portland cement concrete 3.7 mi. between Oak Glen and one mi. north of Grapevine Station, involving:

- (1) clear and grub right-of-way;
 - (2) 782,000 cu. yds. rdwy. excav., unclass.;
 - (3) 14,172,000 sta. yds. overhaul;
 - (4) 10,000 cu. yds. imp. borrow;
 - (5) 10,920 cu. yds. struc. excac.;
 - (6) 40,370 sq. yds. subgrade for pave;
 - (7) 6000 tons cru. gravel or stone (bit. treated borders);
 - (8) 235 tons cut-back asphalt;
 - (9) 8600 cu. yds. class A Portland cement concrete (pavement);
 - (10) 750 cu. yds. class A Portland cement concrete (struc.);
 - (11) 238,200 lbs. bar reinf. steel (pavement and struc.);
 - (12) 708 lin. ft. 8-in. corr. metal pipe;
 - (13) 482 lin. ft. 18-in. do;
 - (14) 2552 lin. ft. 24-in. do;
 - (15) 318 lin. ft. 30-in. do;
 - (16) 486 lin. ft. 36-in. do;
 - (17) 310 lin. ft. 42-in. do;
 - (18) 124 lin. ft. 48-in. do;
 - (19) 600 lin. ft. 8-in. pref. metal pipe
 - (20) 2550 cu. yds. concrete remove from existing pave. and struc. and dispose of;
 - (21) 8.4 mi. new property fence;
 - (22) 6 fence gates;
 - (23) 0.5 mi. property fence remove and dispose of;
 - (24) 9300 lin. ft. lam. timber guard rail;
 - (25) 200 timber guide posts;
 - (26) 65 culvert markers;
 - (27) 3380 cu. yds. special riprap;
 - (28) 60 cu. yds. light riprap;
 - (29) 585 cu. yds. rubble masonry (retaining walls);
 - (30) 960 bbls. fuel oil;
 - (31) 47,400 M. gals. water (embankment);
 - (32) 199 sta. finish roadway;
 - (33) 72 monuments complete in place.
- State will furnish corrugated metal pipe, perforated metal pipe and spillway assemblies.

SAN FRANCISCO.—Department of Public Works, S. J. Hester, secretary, plans to improve crossing of Quintara and 32nd Ave., and Quintara, 32nd to 33rd Avenues, involving:

- (1) 4000 cu. yds. excavation;
- (2) 40 ft. 8-in. V.C.P. sewer;
- (3) 310 ft. 21-in. do;
- (4) 8 Y branches;
- (5) 200 ft. V.C.P. side sewer;
- (6) 1 brick manhole;
- (7) 3 brick catchbasins;
- (8) 105 ft. V.C.P. culvert;
- (9) 574 ft. unarmored concrete curb;
- (10) 660 sq. ft. 1-course conc. sidewalk;
- (11) 16,894 sq. ft. asph. conc. pave.

Specifications obtainable from the office of John J. Casey, city engineer, 3rd floor, City Hall. Estimated cost, \$6,912.53.

CONTRA COSTA COUNTY, Calif.—Until April 10, 2 P. M., bids will be received by John H. Skeggs, District Engineer, State Highway Commission, Room 211, State Bldg., San Francisco to apply 2500 barrels of fuel oil to 19.1 miles of existing roadbed in Mount Diablo Park, between Danville and the Summit and between the Forks and Walnut Creek, as a dust palliative. Specifications obtainable from above office. Certified check 10% required with bid.

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

SAN FRANCISCO—OAKLAND BAY BRIDGE (Contract 5) Yerba Buena Island Crossing

Clinton Construction Co., 923 Folsom Street, San Francisco, at \$1,821,292.50 submitted low bid March 28 to State Department of Public Works to construct Contract No. 5, Yerba Buena Crossing, San Francisco-Oakland Bay Bridge, involving:

- (1) 330,000 cu. yds. excav., unclass.
- (2) anchorage tunnels (lump sum);
- (3) 3,000,000 lbs. anchorage steelwork
- (4) 2,750 cu. yds. concrete anchorage foundations;
- (5) 8,350 cu. yds. concrete anchorage above foundations;
- (6) 3,000 cu. yds. concrete viaduct and wall footings;
- (7) 10,000 cu. yds. concrete viaduct and wall above footings;
- (8) 300 cu. yds. concrete railings;
- (9) tunnel const. (lump sum);

- (10) 3,500 cu. yds. concrete foundations, Piers YB-2 to YB-4 and E-1;
- (11) 8,500 cu. yds. conc. above foundations, Piers YB-2 to YB-4 and E-1;
- (12) 250 cu. yds. concrete sidewalks, curbs and gutters;
- (13) 850 cu. yds. crusher run base;
- (14) 650 cu. yds. crushed stone surf.;
- (15) 50 barrels fuel oil;
- (16) 50 tons cut-back asphalt;
- (17) 4,400,000 lbs. reinforcing steel;
- (18) 10,000 lbs. misc. metal work;
- (19) electrical conduits and fittings (lump sum);
- (20) 1,500 cu. yds. concrete pavement, lower deck;
- (21) 51,000 lbs. c. i. drain pipe and fittings;
- (22) 13,000 lbs. castings;

- (23) drain tile 4- to 12-in. lump sum);
- (24) 2,300 barrels Portland cem. roof grouting;
- (25) 23,000 lin. ft. pipe piles in place;
- (26) 200 lin. ft. jet drilling;
- (27) 100 lin. ft. diamond drilling;
- (28) 2,000 barrels extra Portland cement.

Complete bids follow:

- (A) Clinton Const. Co., \$1,821,292.50.
- (B) Connolly-Hanrahan Co. and Geo. Pollock, \$1,871,670.
- (C) Bridge Builders, Inc., \$1,874,000.
- (D) Silas Mason Co., \$1,993,050.
- (E) Youdall Const. Co., C. M. Elliott, and Stroud Bros. and Seabrook, \$1,967,833.
- (F) Lindgren & Swinerton and Associates, \$2,150,850.
- (G) Winston Bros. and L. E. Dixon, \$2,249,958.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
(1).....	\$.685	\$ 1.10	\$.50	\$ 1.00	\$.82	\$ 1.40	\$.835
(2).....	133,000.00	135,080.00	170,000.00	170,000.00	106,000.00	150,000.00	123,350.00
(3).....	.067	.06	.07	.06	.07	.06	.078
(4).....	6.65	12.00	7.50	8.00	7.80	12.00	7.15
(5).....	9.50	10.00	11.00	12.00	10.90	12.00	12.95
(6).....	7.70	15.00	8.00	10.00	10.00	12.00	10.60
(7).....	13.20	13.00	16.00	12.50	16.00	19.00	20.30
(8).....	27.00	40.00	40.00	30.00	40.00	33.00	40.91
(9).....	610,000.00	530,000.00	624,275.00	590,000.00	666,340.00	560,000.00	769,050.00
(10).....	7.75	12.00	8.00	8.00	10.00	10.00	7.35
(11).....	8.65	8.00	10.00	10.00	11.00	11.00	10.07
(12).....	22.60	12.00	12.00	20.00	18.90	9.00	20.00
(13).....	3.50	4.00	3.00	5.00	2.80	2.00	4.52
(14).....	4.30	4.00	3.00	5.00	3.10	2.00	4.60
(15).....	3.50	5.00	3.00	5.00	2.40	2.00	2.52
(16).....	23.00	30.00	20.00	40.00	19.20	22.00	35.00
(17).....	.031	.025	.03	.03	.031	.03	.037
(18).....	.18	.15	.07	.25	.16	.15	.13
(19).....	7,500.00	6,000.00	8,000.00	12,000.00	6,900.00	10,000.00	10,120.00
(20).....	11.20	10.00	10.00	10.00	8.00	9.00	9.24
(21).....	.04	.06	.04	.10	.06	.10	.06
(22).....	.07	.08	.12	.20	.12	.10	.084
(23).....	1,950.00	2,000.00	3,000.00	1,500.00	2,653.00	1,000.00	1,460.00
(24).....	9.25	2.00	6.00	6.00	3.50	3.00	17.00
(25).....	3.50	4.00	4.00	5.00	3.50	5.00	4.60
(26).....	16.00	1.00	5.00	3.00	15.00	15.00	10.00
(27).....	4.60	15.00	15.00	50.00	20.00	18.00	20.00
(28).....	2.10	1.22	2.00	2.00	2.00	2.00	2.07

WIDEN TURK STREET—SAN FRANCISCO—BIDS OPENED

SAN FRANCISCO.—Fay Improvement Co., Phelan Bldg., San Francisco, at \$20,275.95 submitted low bid March 29 to Department of Public Works to widen Turk Street from St. Joseph's to Masonic Ave., involving:

- (1) 14,500 cu. yds. excavation;
- (2) 1,045 ft. 8-in. V.C.P. sewer;
- (3) 690 ft. 10-in. do;
- (4) 39 8x6 Y branches;
- (5) 25 10x6 do;
- (6) 8 brick manholes;
- (7) 6 brick catchbasins;
- (8) 5 do, reset;

- (9) 85 ft. 10-in. VCP culvert;
- (10) 384 ft. 6-in. VCP side sewer;
- (11) 2,900 ft. granite curb, reset;
- (12) 200 ft. armored concrete curb;
- (13) 43,640 sq. ft. asph. conc. pave.;
- (14) 6,500 sq. ft. 6-in. Class E conc. pavement;
- (15) 9,800 sq. ft. asph. conc. conform pavement;
- (16) 3,680 sq. ft. asph. conc. wearing surface;
- (17) 50 tons asph. concrete;
- (18) 21,500 sq. ft. 1-course concrete sidewalk.

Complete bids follow:

- (A) Fay Improvement Co., \$20,275.95.
- (B) Pacific Pavements Co., \$20,539.40.
- (C) E. J. Treacy, \$21,583.00.
- (D) C. L. Harney, \$21,824.50.
- (E) Eaton & Smith, \$21,873.40.
- (F) M. J. Lynch, \$23,361.50.
- (G) Union Paving Co., \$23,479.15.
- (H) A. G. Raisch, \$23,658.10.
- (I) L. Devincenzi & Co., \$24,836.50.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
(1).....	\$.35	\$.35	\$.375	\$.30	\$.35	\$.40	\$.35	\$.35	\$.44
(2).....	.50	.90	.545	1.00	1.00	1.20	1.25	1.50	1.00
(3).....	.70	.90	1.00	1.25	1.00	1.50	1.50	2.00	1.00
(4).....	.80	1.00	.80	.50	1.00	1.00	1.25	.50	2.00
(5).....	1.12	1.00	1.12	.50	1.00	1.00	1.50	.50	2.00
(6).....	60.00	60.00	60.00	70.00	70.00	70.00	75.00	60.00	70.00
(7).....	62.00	60.00	50.00	70.00	70.00	70.00	75.00	70.00	60.00
(8).....	22.00	30.00	25.00	40.00	40.00	40.00	45.00	50.00	40.00
(9).....	.87	1.00	2.00	1.00	1.00	1.00	1.10	1.00	1.50
(10).....	.45	.75	.40	.75	.70	.75	.75	.40	1.00
(11).....	.18	.15	.18	.25	.23	.25	.35	.20	.30
(12).....	.64	.50	.60	1.00	.65	.70	.70	1.00	.90
(13).....	.18	.175	.1975	.19	.18	.19	.19	.19	.20
(14).....	.18	.17	.154	.18	.18	.20	.18	.19	.20
(15).....	.06	.055	.055	.07	.08	.055	.075	.08	.07
(16).....	.06	.055	.07	.08	.08	.055	.075	.08	.10
(17).....	3.60	4.00	4.00	5.00	4.00	4.00	4.40	5.00	5.00
(18).....	.105	.105	.105	.11	.11	.105	.115	.12	.12

**SAN FRANCISCO—OAKLAND BAY BRIDGE (Contract 3)
San Francisco Anchorage**

SAN FRANCISCO — Healy Tibblitts Construction Co., 64 Pine St., San Francisco, at \$1,036,500 submitted low bid March 29 to State Department of Public Works, Room 235, City Hall, San Francisco, to construct Contract No. 3, San Francisco Anchorage, San Francisco-Oakland Bay Bridge, involving:

- (1) 50,000 cu. yds. excav., unclass.;
- (2) 2,700,000 lbs. anchorage steel work;
- (3) 31,000 cu. yds. mass conc. erection block;
- (4) 34,000 cu. yds. concrete anchorage, mass concrete;
- (5) 3,000 cu. yds. concrete anchorage above lower deck;
- (6) 300 cu. yds. concrete viaduct, footings;

- (7) 5,800 cu. yds. concrete viaduct above footings;
- (8) 200 cu. yds. concrete railings;
- (9) 7,900 cu. yds. concrete foundations, Piers A, B and 1;
- (10) 11,500 cu. yds. concrete above foundations, Piers A, B and 1;
- (11) 2,800,000 lbs. reinf. steel;
- (12) 25,000 lbs. misc. metal work;
- (13) electric conduits and fittings, a lump sum;
- (14) 20,000 lbs. cast iron drain pipe & fittings;
- (15) 10,000 lbs. castings;
- (16) 2,000 bbls. extra Port. cement;
- (A) Healy Tibblitts Constr. Co., \$1,036,500.
- (B) Clinton Constr. Co., San Francisco, \$1,048,675.

- (C) Winston Eros. and L. E. Dixon, \$1,136,378.
- (D) MacDonald & Kahn, San Francisco, \$1,139,998.
- (E) George Pollock, Sacramento, \$1,146,730.
- (F) Youdall Constr. Co., C. M. Elliott, Stroug Eros. and Seabrooke, \$1,224,950.
- (G) Mercer Fraser Co. and Geo. R. Cook, Eureka, \$1,281,835.
- (H) Silas Mason Co., New York and San Francisco, \$1,296,650.
- (I) Bridge Builders, Inc., San Francisco, \$1,297,950.
- (J) Walsh Constr. Co., Los Angeles, \$1,376,400.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
(1).....	\$ 2.00	\$ 3.00	\$ 2.61	\$ 3.52	\$ 2.81	\$ 3.05	\$ 6.05	\$ 5.00	\$ 3.00	\$ 3.00
(2).....	.05	.06	.064	.0625	.063	.068	.041	.06	.06	.07
(3).....	8.80	5.70	6.38	6.00	7.83	8.40	7.20	7.00	7.00	6.00
(4).....	6.00	6.50	7.00	6.75	6.00	7.00	7.05	7.50	10.00	11.00
(5).....	6.00	9.60	13.28	12.10	8.00	8.80	13.00	12.50	14.00	16.50
(6).....	15.00	7.20	9.52	6.70	9.00	12.00	8.50	9.00	8.00	11.00
(7).....	9.00	13.00	16.92	15.85	14.00	15.00	19.40	15.00	16.00	23.00
(8).....	30.00	32.00	39.50	25.00	40.00	15.00	30.00	30.00	40.00	30.00
(9).....	5.00	5.75	6.74	6.27	8.00	8.40	7.35	8.00	8.00	6.00
(10).....	11.00	7.30	8.28	9.00	11.20	9.00	9.30	10.00	11.00	11.00
(11).....	.025	.03	.032	.0282	.025	.031	.025	.03	.03	.035
(12).....	.04	.16	.08	.16	.10	.16	.13	.15	.07	.12
(13).....	1000.00	840.00	1100.00	1115.00	600.00	750.00	1200.00	1000.00	1100.00	2300.00
(14).....	.05	.04	.06	.084	.05	.07	.06	.10	.04	.06
(15).....	.05	.09	.09	.082	.24	.14	.10	.15	.12	.08
(16).....	1.75	2.00	1.80	1.90	1.50	1.90	1.50	2.00	2.00	2.00
(17).....	1000.00	2300.00	2200.00	1100.00	2000.00	2800.00	1000.00	5000.00	1200.00	2000.00

2-MI. BIT TREATED GRAVEL SURF. — LASSEN COUNTY

LASSEN COUNTY, Cal.—Peninsula Paving Co., 715 Standard Oil Bldg., San Francisco, at \$18,405.50 submitted low bid March 29 to State Highway Commission, Sacramento, to surface with bituminous treated crushed gravel or stone (road mix method) two miles between Susanville and Johnstonville, involving:

- (1) 2490 cu. yds. crusher run base;
- (2) 2925 cu. yds. crushed gravel or stone (bit. treated surfacing);
- (3) 200 M. gals. water;
- (4) 115 bbls. heavy fuel oil;
- (5) 187 tone cut-back asphalt (bit. treated surface);
- (6) 104 sta. mix cut-back asphalt and crushed gravel or stone;

- (7) 104 sta. finish roadway.
- Complete bids follow:
- (A) Peninsula Paving Co., San Francisco, \$18,405.50.
 - (B) Heim Bros. Basalt Rock Co., Petaluma and Highway Builders, Ltd. San Anselmo \$18,940.25.
 - (C) Hemstreet & Bell, Marysville, \$20,588.00.
 - (D) Nevada Rock & Sand Co., Reno, \$20,870.00.
 - (E) A. Mitchell, Sacramento, \$20,871.
 - (F) E. B. Bishop, Sacramento, \$20,951.75.
 - (G) A. J. Raisch Co., San Francisco, \$26,424.00.

Unit bids follow:

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
(A).....	\$2.65	\$2.34	\$1.30	\$2.30	\$17.50	\$ 8.50	\$5.00
(B).....	2.45	2.45	1.50	2.50	20.00	8.00	5.00
(C).....	2.70	2.70	2.00	3.50	19.00	12.00	3.50
(D).....	2.50	3.00	1.00	3.00	20.00	12.00	5.00
(E).....	2.70	2.85	1.50	3.65	20.00	10.00	3.00
(F).....	2.50	2.75	1.50	3.00	22.00	12.50	6.00
(G).....	3.40	3.80	1.00	3.00	22.00	16.00	5.00

- (9) 104 lin. ft. 8-in. corr. metal pipe;
 - (10) 92 lin. ft. 12-in. do;
 - (11) 50 lin. ft. 18-in. do;
 - (12) 190 barrels light fuel oil;
 - (13) 670 barrels heavy fuel oil;
 - (14) 1200 tons untreated crushed stone or gravel surfacing (detours);
 - (15) 1250 tons bit. treated crushed gravel or stone (borders);
 - (16) 1800 M. gals. water;
 - (17) 360 cu. yds. concrete remove from existing pave. and dispose of;
 - (18) 0.1 mile existing fences remove and dispose of;
 - (19) 24 guide posts complete in place;
 - (20) 1406 lin. ft. lam. timber guard rail;
 - (21) 47 sta. finish roadway;
 - (22) 14 monuments complete in place;
- State will furnish corrugated metal pipe and spillway assemblies.

Complete bids follow:

- (A) N. M. Ball and Willard, Biasotti, & Lovatti, \$35,644.40.
 - (B) Valley Paving & Constr. Co. and John Jurkovich, Fresno, \$36,533.60.
 - (C) Fredrickson & Watson, \$36,909.50
 - (D) C. W. Wood, Stockton, \$37,537.60
- Unit bids follow:

	(A)	(B)	(C)	(D)
(1).....	\$ 4.00	\$ 20.00	\$ 1.00	\$ 5.00
(2).....	.155	.16	.18	.17
(3).....	.033	.005	.005	.005
(4).....	.75	1.00	.50	.50
(5).....	.09	.10	.07	.06
(6).....	7.55	7.50	8.00	7.75
(7).....	20.00	15.00	15.00	20.00
(8).....	.04	.03	.03	.033
(9).....	.25	.20	.15	.25
(10).....	.30	.30	.20	.25
(11).....	.40	.40	.25	.25
(12).....	2.00	2.00	1.75	1.50
(13).....	2.20	2.00	2.00	2.00
(14).....	1.60	2.00	1.30	2.00
(15).....	3.25	3.00	3.00	3.40
(16).....	.60	.30	1.00	.60
(17).....	1.30	2.00	1.00	1.50
(18).....	100.00	100.00	150.00	200.00
(19).....	2.00	2.00	2.50	2.50
(20).....	.80	.70	.75	1.00
(21).....	5.00	5.00	4.00	5.00
(22).....	2.50	3.00	2.50	2.50

MODESTO, Stanislaus Co., Cal.—Niel & Wirtner, 322 Myrtle St., Turlock, at \$1891 awarded contract by county supervisors to construct bridge over Beard Brook on the 19th Street Extension. Complete bids follow:

- Niel & Wirtner, Turlock.....\$1831
- F. Kaus, (prop. 2) Stockton..... 1800
- Wendell Thompson, Modesto..... 1999
- T. C. Tunsen, Modesto..... 2144
- Valley Con. Co., Inc., Modesto..... 2363
- Prop. 2..... 2225
- Harry E. Brown, Modesto..... 2238
- H. Sneed, Berkeley..... 2644
- H. Tennyson, Modesto..... 2692

- Clay St., Stockton, bidding jointly, at \$35,644.40 submitted low bid March 29 to State Highway Commission, Sacramento, to grade and pave with Portland cement concrete about 0.9 mi. Merced River Bridge approaches, involving:
- (1) 47 sta. clear and grub right-of-way;
 - (2) 26,000 cu. yds. rdwy. excavation, unclassified;
 - (3) 440,000 sta. yds. overhaul;
 - (4) 100 cu. yds. struc. excavation;
 - (5) 10,000 sq. yds. subgrade for pave.
 - (6) 2,150 cu. yds. Class A cement concrete pavement;
 - (7) 5 cu. yds. do. struc.;
 - (8) 47,200 lbs. bar reinf. steel pave. and struc.;

MERCED COUNTY, Cal. — N. M. Ball, P. O. Box 215, Porterville, and Willard, Biasotti & Lovatti, 40 W.

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IN THIS ISSUE



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MARCH PERMITS

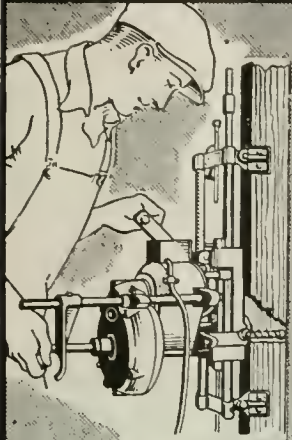
WEEK'S LUMBER ORDERS INCREASE 14%

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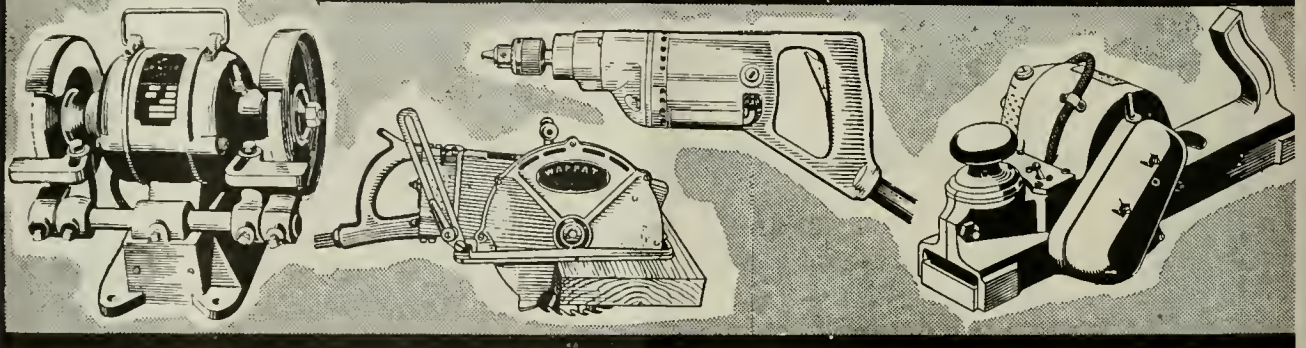
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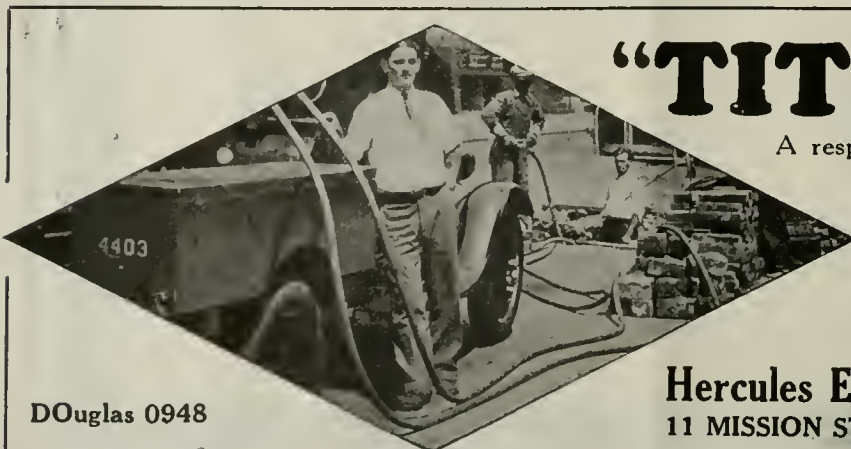
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for the Eleven Pacific Coast States

SAM B. EUBANKS, *Editor*

Vol. 16

SAN FRANCISCO, CALIF., APRIL 8, 1933

No. 12

ARCHITECTS FOR S. F. BAY BRIDGE ARE APPOINTED

Commission Names Three Ad-
visers on Crossing Design
Detail

Appointment of the architects for the San Francisco-Oakland Bay Bridge was announced yesterday by Earl Lee Kelly, State Director of Public Works. The architects appointed are: Arthur Brown, Jr., of San Francisco, John J. Donovan of Oakland, and Timothy L. Pflueger of San Francisco.

These appointments had the approval of Governor James Rolph, Jr., and were made as a result of conferences between the San Francisco Art Commission and Director of Public Works Kelly and Chief Engineer C. H. Purcell.

Brown was the architect on the San Francisco City Hall, and has been a guiding influence in the maintenance of the architectural beauty of the Civic Center. He is also architect on the Department of Labor and Interstate Commerce Buildings now in construction at Washington, D. C., and is acting as consulting architect on the government group building program in Washington, D. C. He was also architect for the Federal Building in San Francisco.

Donovan is President of the Northern California Chapter of the American Institute of Architects, and was supervising architect on the construction of the Oakland City Hall, the Oakland Auditorium, St. Mary's College, Santa Clara College, and approximately 250 schools throughout California.

Pflueger is an architect with many beautiful buildings to his credit, notable among which is the Pacific Telephone and Telegraph Building on New Montgomery St. in San Francisco.

In making the appointments, Kelly said:

"It is our plan that the San Francisco-Oakland Bridge be not only the greatest bridge in the world, but the most beautiful. To this end we consulted with the Architectural Committee of the San Francisco Art Commission and have, as a result, selected architects in whom we can place the utmost confidence. These architects are our assurance that the bridge will be a bridge of beauty as well as utility."

THE WEEK'S NEWS Highlights

CONTRACTORS' LICENSES—A sub-committee of three will report to the Senate committee on governmental efficiency early next week its findings on legislation involving the state licensing of contractors. A hearing on the Ingels repeal measure was conducted by the committee April 5 at Sacramento. Speakers for contractors' organizations vigorously opposed the repeal proposal. Recommendation of the committee probably will be based on the report of the three members, Senators Ingels, Difani and Bush, who are instructed to reconcile the repeal bill with proposed amendments designed by Sen. Chris Jespersion to strengthen the act.

BUILDING PERMITS—Despite the abnormal conditions prevailing in March, San Francisco building permit totals show a substantial gain in private building operations during the month compared with January and February. (See Pg. 8.)

AQUEDUCT TUNNELS—Bids totaling \$3,548,658 for construction of Valverde and Bernasconi tunnels of the Colorado River Aqueduct were opened in Los Angeles by directors of the Metropolitan Water District. (See Page 6 and Unit Price Review.)

FEDERAL OPENINGS—Although the Federal government temporarily has withheld award of contracts on all Federal construction, bids were received during the week on the San Diego and Phoenix post office buildings. Largura Construction Co., Gary, Indiana, low at \$509,000, on San Diego; Great Lakes Construction Co., at \$848,848, on Phoenix.

BOHEMIAN CLUB—Architect Lewis P. Hobart has set April 15 as the closing date for bids on the \$600,000 San Francisco Bohemian Club building. Bids are being received from a selected list of contractors.

REILLY AWARDED SHED EXTENSION JOB AT \$32,831

Twenty Firms Bid on Refrig-
eration Terminal Addition
for Harbor

Frank J. Reilly, San Francisco, submitted the low bid for building an 84-foot shed extension to Pier 35 among fifteen bidders who submitted proposals to the state harbor commission yesterday. Reilly's bid was \$32,831. The second low bid was that of Leo Epp at \$33,877.

The contract will be awarded to Reilly, the commission announced immediately after the opening. A contract for steel rolling doors for the shed went to Kennerson Manufacturing Company at \$5,411.

Bids were received at the same time for construction and equipment of Unit Three of the State Refrigeration Terminal. The contract will approximate \$55,000 it was indicated by bids received. The award will be determined by the specifications selected, three alternatives being offered.

Twenty firms bid on various portions of the work, which include alterations to the buildings, insulation and refrigeration equipment. The bids were referred to Chief Engineer Frank G. White for recommendation.

STATE TO READVERTISE 2 HIGHWAY CONTRACTS

All bids on two highway contracts were rejected yesterday by the State Highway Commission and the contracts will be readvertised, omitting reference to the Federal aid provisions which were incorporated in the first bid call.

It was held by attorneys that the contracts could not be awarded legally under the Federal aid clause because all federal highway work is temporarily delayed. The commission, however, will proceed with the work as planned, utilizing state funds.

The two contracts are for paving approaches to the Merced river bridge on the Golden Gate Highway and for surfacing two miles between Susanville and Johnstonville, Lassen county. Bids were opened March 29.

MATERIAL LIEN RIGHT FORFEITED BY TAKING NOTE

Attorney Discusses Court Ruling Recognizing Collateral as Payment

Lien rights for the furnishing of materials are voided if a note is accepted from the contractor in payment of his account, the California courts have held, Harry C. Westover, attorney, points out in an article written for the Orange County Builders' Exchange Bulletin.

Following is his article reprinted from the bulletin:

The payment of an account for labor and materials, always extinguishes the lien which is filed or which may be filed for the amount due. Payment need not always be in money. It may be made by giving a note or other collateral security. Where one has a claim for labor or materials he should be very careful in accepting from the contractor a note or other security, as he may waive his lien rights.

However, the mere execution and delivery of a note representing the value of materials or labor furnished in the course of the construction of an improvement does not discharge the indebtedness or release the principal of the sureties on the original indebtedness, but if the note is given and received with an agreement that it is to constitute a payment of the original indebtedness the original debt is satisfied by the acceptance of the note.

It is right and proper to take a note from the contractor, but it should be distinctly understood that the note is taken as additional security and not as payment of the original account.

In the recent case of Giant Powder Co. vs. Fidelity & Deposit Co. of Maryland (83 CD 130, decided Jan. 26, 1932) the powder company furnished the contractor powder until it had an account against the contractor and the job of approximately \$75,000. The company in order to protect itself took from the contractor a promissory note for the amount due, which when not paid was reduced to judgment. Subsequently the powder company attempted to impress a lien on the property on which its materials had been used. The owner and the bonding company which has furnished a bond, set up the defense that the account had been paid inasmuch as the powder company had taken a note for its account and then reduced the same to judgment. The trial court held on this

ATKINSON LOW ON OREGON RIVER JOB

PORTLAND, Ore., March 31.—Guy F. Atkinson, San Francisco, submitted the low bid today on repairs for the South Jetty at the mouth of the Columbia river. Atkinson's bid was \$1,686,403.50. The work is being done under supervision of the United States District Engineer.

The contract involves furnishing and placing 1,250,000 tons of stone and 165,000 lineal feet of timber piling.

CONTRACTOR SUES FOR PAVING MONEY

Suit has been instituted in the Marin county superior court by J. C. Dowling, contractor, to compel the city council of Sausalito to issue street improvement bonds covering work done nearly ten years ago.

Dowling was not paid after property owners had won a suit in superior court to declare the assessment illegal. The contractor carried the case to the supreme court where the decision was reversed.

Judge Hillard Comstock of Sonoma county will hear the case on April 18 when Dowling will ask for a writ of mandamus to compel the city to issue bonds for \$115,000 in unpaid assessments.

A.G.C. MEMBERS TOUR BOULDER DAM SITE

Thirty-six members of the Inter-mountain Branch, Associated General Contractors, recently made a four-day trip from Salt Lake City to Boulder City where they were guests of the Six Companies on a tour of the Boulder Dam project.

The expedition was arranged by Mark Tuttle, manager of the branch. It was made in a bus chartered from the Union Pacific railroad. Banners advertising the A. G. C. decorated the bus.

W. A. Bechtel, president of the Six Companies, was at Boulder City to greet the party and arrange for their entertainment.

particular point that the evidence disclosed that the powder company had accepted the note as payment of its account and that it could not impress a lien on the property or hold the bonding company liable for the claim.

WEEK'S LUMBER ORDERS 14% OVER TOTAL YEAR AGO

New Business at National Mills Highest for 1933 To Date

New business booked at the lumber mills during the week ended March 18, 1933, was 31 per cent above the previous highest week of 1933, 38 per cent above that received during the preceding week, and 14 per cent above the corresponding week of 1932, according to telegraphic reports to the National Lumber Manufacturers' Association covering the operations of 695 leading hardwood and softwood mills. This new business amounted to 156,370,000 feet. Production totaled 87,571,000 feet, which was slightly higher than the previous week and 22 per cent below the corresponding week of 1932. Softwood production was 20 per cent below that of last year; hardwood, 45 per cent below.

Most of the gain in orders was in the softwood regions, Southern pine, West Coast and Western pine showing the heaviest orders of the year, as well as Northern hardwoods.

New business at the Southern pine mills was 51 per cent of capacity, compared with 24 per cent the previous week; at the Western pine mills orders were 22 per cent of capacity compared with 14 per cent the week before; at Southern hardwood mills 25 per cent, compared with 20 per cent the week before. Northern mills also showed substantial gains.

Compared with corresponding week of 1932, softwood orders were 17 per cent above; hardwood orders, 15 per cent below. Orders reported by Southern pine and West Coast mills were nearly 40 per cent above those of the corresponding week of 1932; Northern hemlock were 62 per cent above, and Northern hardwoods 79 per cent above. Other regions showed decreases as compared with last year.

Forest products carloadings during the week ended March 11 were 13,262 cars, a decline from the previous week of 1,978 cars and from the corresponding week of 1932 of 5,705 cars.

Lumber orders reported for the week ended March 18, 1933, by 425 softwood mills totaled 142,262,000 feet, or 77 per cent above the production of the same mills. Shipments as reported for the same week were 100,908,000 feet, or 25 per cent above production. Production was 80,456,000 feet.

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NATIONAL MEET ON SELLING IS SET FOR APRIL

Trade Groups Outline Confer- ence Program Scheduled in Chicago

A national home-selling conference will be held in Chicago in April. Leaders of all the varied lines that make up the building industry will attend. Participating in arrangements are representatives of city planning, lumber, cement, brick, real estate, plumbing and heating, finance, furniture and publishing interests.

The purpose is to focus attention of men in these and related lines on what must be done to sell homes now. Coordinated action will be sought.

Two special committees, cooperating with the committee on arrangements, have significant assignments. One is the committee on a long-term program; the other the committee on coordination of publicity.

"A long-term program for home-selling, to be presented for discussion and approval at the conference will recognize the fact," states Bernard L. Johnson, committee chairman, "that the prime reason for building homes is not to sell materials or make jobs, but rather to give people places where they can live normal, healthy, happy lives, and raise children, with safety and economy. This program, recognizing land as the basic raw material of home-building, will advocate improved urban land policies and better control of land use. It will stress the greater stability of homes that are units in well-organized communities, as against those that are simply houses on separate lots."

"Co-ordination of publicity," states Norman J. Rader, committee chairman, "is needed to get before the public systematically and continuously, facts as to cost-cutting, waste-elimination and improvements already accomplished by various units of the building industry."

San Francisco Electrical Bureau Issues New Orders Governing Local Installations

Orders affecting installation of service switches, convenience plugs and changes in knob and tube wiring were issued yesterday by Ralph Wiley, chief of the San Francisco Department of Electricity.

The text of the orders follows:

SERVICE SWITCHES

In buildings served through 2, 3 or 4 meters from a single set of service conductors not exceeding 150 volts to ground, the service conductors may be run to a separate service switch and cut-out for each meter, if grouped at the same service switch location. The service run shall be continuous to the last service switch and cut-out, or to the bus on the switchboard, but

taps may be made to the individual service switches. In installations involving more than 4 meters, the entire current shall be taken thru one main service switch.

ADDITIONAL PLUG RECEPTACLES

A total of not more than three convenience outlet receptacles may be added to the existing 660 watt lighting circuits in dwellings, flats and apartment houses, providing there are no plug circuits installed, and the total wattage, including the plug receptacles, does not exceed 660 watts. Each lamp receptacle shall be computed at 40 watts and each plug receptacle at 100 watts.

KNOB AND TUBE INSTALLATION

In dwellings, flats and apartment houses, where the existing wiring has been installed in knob and tube methods, alterations and minor extensions to said installations may be installed in knob and tube, with the following exceptions:

The feeders to the existing circuits and new wiring installed in the basement shall be enclosed in conduit.

The above mentioned conditions will be approved, only when said alterations and extensions comprises less than 50% of the total

Following are the committees:

Arrangements: John H. Millar, (Chairman), Millar's Housing Letter; W. D. M. Allan, Manager, Cement Products Bureau, Portland Cement Assn.; C. E. Close, Construction Engineer, National Lumber Mfrs. Assn.; David B. Gibson, Vice-President, Industrial Publications, Inc.; Arthur A. Hood, Vice-President, National Homes Finance Corp., and L. Porter Moore, Director, Publicity, Home Construction Division, Sears, Roebuck & Co.

Long-Term Program: Bernard L. Johnson (Chairman), Editor, American Builder & Building Age; Jacob L. Crane Jr., City Planner; Jos. Eves, Western Manager, Better Homes & Gardens; A. P. Haake, Manager-Director, National Assn. of Furniture Mfrs., Inc.; and Herbert U. Nelson, Executive Secretary, National Assn. of Real Estate Boards.

Coordination of Publicity: Norman J. Rader (Chairman) Secretary-Manager, Plumbing & Heating Industries Bureau; George S. Eaton, Secretary-Treasurer, American Face Bick Assn.; Henry A. Guthrie Millar's Housing Letter; Harold O. Hayes, Editor, Concrete Products, and C. K. Kelsey, Publicity Manager, National Assn. of Furniture Mfrs., Inc.

RIPON BRIDGE BIDS TO BE ASKED SOON

Bids on the contract for construction of a bridge across the Stanislaus river near Ripon will be advertised in April, according to word from the State Highway Commission received by the Stanislaus county board of supervisors.

The cost of the bridge is estimated at \$105,300. Delay in construction has been occasioned by the impossibility of working during the period of high water, engineers said.

FOR SALE....

110 Horsepower Diesel Engine
at a Bargain

United Commercial Co., Inc.

234 Stuart Street

San Francisco

SMITH BROS. TRUCK CO.

"TRANSPORTATION SPECIALISTS"

Portable Crane Service—Rigging

1704 E. 16th St.

Los Angeles

WEstmore 3271

Move More Dirt Faster with LE TOURNEAU Equipment

A complete line of grading machinery — designed by a contractor — developed on actual construction jobs—built to stand continuous use under the worst conditions.

ENGINEER'S CONSULTATION FREE

R. G. LE TOURNEAU, INC.

Wilson Way at Roosevelt

Stockton, Calif.

METALLIC PAPER MARKETED AS NEW INSULATION

**Thin Sheet Efficiency Claimed
Equal To Thick
Wall**

An entirely new insulation both in type and principle is being introduced by Reynolds Metals Company. This new product is but 5/1000 of an inch thick, yet will insulate against heat and cold to the same extent as 20 to 40 inches of concrete, it is claimed. The material itself is a thin flexible highly-polished sheet of non-tarnishing metal reinforced with paper.

This product obtains its insulating efficiency from two unique qualities, that of high reflectivity and low emissivity of radiant heat. From 50 to 80 per cent of the heat which escapes through frame or hollow walls is in the form of radiant heat. While ordinary materials and insulations absorb most of this heat and emit or throw it off very readily, the bright metallic surface of this product reflects 95 percent of this heat and emits only 5 percent.

To utilize these principles either one or both metal surfaces must face an air space. This is accomplished by applying the insulation either against the studs, joists, or rafters, under the sheathing or plaster base, so that one metal surface faces the air space formed by the framing members, or by applying it midway between the framing members so each metal surface is left exposed. Extensive tests have shown that with one metal surface exposed, the material will insulate to the same extent as 3/4-inch of the ordinary insulating board, 12 inches of brick, or 20-inches of concrete. When applied midway between the framing members, its insulating value is just doubled and it will retard the flow of heat just as efficiently as 1 1/2-inches of insulating board, 20-inches of brick, and 40-inches of concrete.

Other qualities which characterize this product are water-proofness, and wind-proofness. It is also odorless and vermin-proof. Its lasting qualities as an insulation are assured since the metal will not tarnish or corrode and will retain its bright surface indefinitely.

While foil insulation is new to the building industry, this type of insulation has proved unusually efficient in other fields. The United States Navy is using it as an insulation in cruisers. Its use in refrigerators has been sensational since it has enabled the manufacturer to increase the inside dimensions of the cabinet 25 percent without increasing the size of the cabinet or sacrificing any efficiency.

Foil insulation for building is not only low in first cost but is easy and economical to apply. It sells for approximately 40 percent less than an insulating board of comparable efficiency and is furnished in rolls 17 inches and 32 inches

MIDWESTERN FIRMS BID SAN DIEGO P.O.

WASHINGTON, D. C.—April 3—Three low bids on the construction of the San Diego post office building were submitted by midwestern contractors. Larga Construction Company, Gary, Indiana, at \$509,00 and \$523,000 on the alternate proposal was low bidder. A. W. S. Construction Company, Chicago, at \$510,000 and \$525,000 and Ring Construction Company, Minneapolis, Minn., at \$562,000 and \$584,000 were second and third low respectively.

William Templeton Johnson, San Diego, is the architect for the new building, which will be two stories of steel and masonry construction.

INSPECTORS APPOINTED FOR GATE BRIDGE WORK

Robert P. Winton, Belvedere, has been appointed assistant engineer in the inspection bureau of the Golden Gate Bridge district, it was announced yesterday. Winton formerly was with the Southern Pacific in Mexico on bridge construction and has been engaged in harbor engineering.

Appointment of nine other inspectors for duty in the eastern shopwork inspection bureau also was confirmed by the bridge directors. They are:

F. R. Rusiackas, \$250 a month; Emil Hertel, \$240; Geo. W. Prie, \$175; F. A. Schiertz, \$240; H. W. Dick, \$185; Jos. Levin, \$225; Wm. O'Donnell, \$200; J. A. Kilkenny, \$200; R. S. Kelley, \$170.

Progress payments of \$89,720 to Pacific Bridge Co. and \$14,400 to Barrett & Hilp were approved.

SAN JOSE BRICK TO REOPEN PLANT

San Jose Brick & Tile Company will reopen its plant in about two weeks, J. F. Dair, manager, announced yesterday. Dair said 65 men would be employed at the opening, with additions to the force being made as business warrants.

The plant has been closed for about three years. It is one of the oldest in the district, having been operated for more than 55 years. The stock of 3,000,000 common brick on hand when the plant closed has been reduced to about 700,000, less than enough to fill current orders, Dair said.

Production at peak is 75,000 bricks a day.

wide, each roll containing 250 sq. ft. It weighs approximately 17 lbs. per roll, or 68 lbs. per 1,000 sq. ft. It is being distributed through the retail lumber and building material dealers.

OPEN BIDS ON TWO TUNNELS OF L. A. AQUEDUCT

**Dravo Contracting Company
Low on Seven-Mile
Valverde Bore**

(SPECIAL TO DAILY PACIFIC BUILDER)
LOS ANGELES, April 3—Combination low bids for construction of Valverde and Bernasconi tunnels of the Colorado River Aqueduct, part of the Los Angeles Metropolitan Water District Project, total \$3,548,658 for full-size bore and \$3,215,077 for the half-size alternate. The combination low total on both schedules is that of the bids of Hamilton & Gleason Company, Redlands, on Proposals 1 and 2 and Dravo Contracting Company, Pittsburgh, Pa., on Proposals 3 and 5 and Proposals 4 and 6.

The Hamilton & Gleason bids were \$412,055 and \$354,907 to construct Bernasconi tunnel.

The Dravo Contracting Company bids were \$1,584,614 and \$1,369,974 to construct the west portion of the Valverde tunnel; \$1,701,989 and \$1,491,206 to construct the west portion. The bidder offered a reduction of \$150,000 from the combined total if awarded contracts for both portions of the tunnel.

Bernasconi tunnel will be 1.1 mile in length. Valverde tunnel will be 7.2 miles. The work is divided into two contracts, the east portion being 3.3 miles and the west portion 3.9 miles.

(Other bids and a detailed list of construction items involved appears in the Advance Report section of today's issue.)

CALIFORNIA WHITE PINE USE VALIDATED

Use of the description "California white pine" was held valid in a decision of the United States Circuit Court of Appeals which reverses the ruling of the Federal Trade Commission.

Though in fact a wood of the yellow pine family, the decision says, California white pine has been known for so many years by that name that so describing it is not "deceiving the public" or "injuring competitors" as held by the commission. Twelve Pacific coast lumber concerns joined in carrying an appeal from the trade commission ruling to the federal courts.

SPECIAL ENGINEER TO INSPECT BRIDGE

Alameda city council has under consideration the appointment of an engineer to inspect and report on the safety of the Park street bridge across the estuary.

William R. Calcutt, former city councilman, appeared before the council and urged that a new bridge be constructed by the county. He said \$65,000 remaining in the bond fund for the Webster St. bridge could be applied toward cost of a new Park St. bridge.

Faulty Design, Lack of Supervision Caused Long Beach Building Failures, Says Report

Following is the complete text of the report of Building Inspector John B. Leonard and Prof. Charles Derleth, Jr., submitted to Director of Public Works Wm. H. Worden of San Francisco, and made public Saturday:

In accordance with your directions we have examined structures in Los Angeles, Long Beach and environment, with a view to studying the effects on buildings due to the earthquake of March 10, 1933. We arrived in Los Angeles Friday morning, March 17, and spent five full days in our investigations.

There are few if any new lessons to be learned from the Long Beach earthquake which were not taught by previous temblors. The shock on March 10 was less violent than that at Santa Barbara in 1925 which in turn was less severe than that at San Francisco in 1906. Complete destruction was meted out to certain classes of buildings, improperly designed and executed. Schools were especially prominent in this unfortunate group of buildings which included also commercial buildings, stores, apartment houses, etc. The scenes of destruction were practically identical with what one observed at Santa Barbara and at San Francisco.

In the midst of this destruction, framed buildings, honestly constructed, fared satisfactorily, receiving only minor cracks in walls or interior plaster and partitions.

On the other hand, buildings with unwise combinations of materials, unscientifically designed and dishonestly assembled, fared frightfully, especially where the discordant parts of the buildings were unintelligently tied together by inadequate anchors or connections.

High buildings of many floors must have adequate structural frames designed to withstand lateral forces. These frames must be of proper materials, such as structural steel or reinforced concrete; and all secondary parts, exterior or interior, must be reinforced and be tied together and be anchored to the frames. None of these parts, especially cornices and ornaments, should be top heavy. Fire walls particularly did great damage, due to improper workmanship and lack of anchorage. Pent houses, water tanks and elevator shafts projecting above the main roofs of buildings in many instances were entirely void of proper framing, adequate to withstand horizontal wind or earthquake forces. Many of them were demolished.

There are plenty of monumental tall buildings in the Southland which have successfully withstood the earthquake. These comply with the Los Angeles regulation limiting height to 150 feet. Notable exception is the City Hall at Los Angeles whose tower rises 435 feet. After visiting a glut of demolished buildings all day long one felt depressed. But with a view of the

City Hall there came a feeling of relief and reassurance that buildings can be built practically and economically of great height and proportions to withstand violent shocks provided they are competently designed and built. When great tall structures commanding enormous loads, long spans and high walls as successfully resist an earthquake as did the Los Angeles City Hall, it must be obvious to laymen that smaller commercial buildings, stores, apartment houses churches, schools, hospitals and theaters, surely can be built to protect life and limb.

Herein is the indictment of these classes of buildings which wreaked so much damage for school houses and commercial structures at Long Beach and environment. The earthquake came at 5:55 p.m. Had it visited the region three hours sooner, while people were in stores and children in schools, the loss of life would have been appalling.

One cannot say that any particular individual or interest is wholly responsible for building collapse. For example, in the case of schools the public demands a school of a certain size. The money provided is less than the amount needed for a safe building. Those in authority then are faced with the urge to build more than the money available will buy. This places pressure

upon the architect and engineer to skimp the design; also pressure is brought to find a contractor who will erect the building cheaply.

The disaster at Long Beach is directly attributable to lack of adequate design by omitting consideration of horizontal forces and by failure to properly supervise the construction.

This is a repetition of the lessons of San Francisco and Santa Barbara. The code now in preparation and near completion for San Francisco will safeguard future design and assure us buildings capable of withstanding lateral forces.

In conclusion we commend the City of San Francisco through its properly constituted officials for the steps they already have taken to co-operate with the various agencies of the State to secure adequate building ordinances.

Respectfully submitted,
JOHN B. LEONARD,
Superintendent, Bureau of Building Inspection, San Francisco.
C. DERLETH, Jr.,
Consulting Engineer.

MATERIALS PRICE INDEX DECLINES

The index of wholesale building materials prices stood at 69.6 for the week ending February 11, compared with 70.0 for the preceding week. The price index has shown a steady trend downward for the past five weeks, following the general course of the average wholesale commodity prices.

The index of metal and metal products prices is at 77.9 for the week.



In San Francisco

A welcoming room...an enterprising chef...a Union Square location (and that says volumes if you know your San Francisco) ...These are among the Plaza features that will brighten the days of your visit here † †

RATES: \$2 to \$4

RAY MAXWELL, Manager

HOTEL
PLAZA
POST STREET AT STOCKTON
SAN FRANCISCO

LUMBER ASSN. ISSUES HOME PLAN BOOKLET

Inexpensive House Designs
Prepared for Distribution
of Dealers

The first distribution of a new architectural service, consisting of an eight-page pamphlet giving four floor plans and perspectives of homes which can be built at a cost of from \$800 to \$1800, depending on local price, is being mailed to retail lumber dealers throughout the country by the West Coast Lumbermen's Association.

In the announcement to retail lumber dealers, the Association expressed the belief that a million small homes might be sold in the United States during the year 1933 if the proper kind of small home plans could be gotten to the public. Dealers were urged to secure copies of the booklet, "West Coast Plans for Small Homes," for local distribution and to advertise these modern small houses in their local newspapers, the Association to provide at cost the necessary illustrations.

The booklet contains four perspectives and floor plans as follows

1. A studio home with a vaulted ceiling, by H. E. Crawford and Arnett Woodroffe, associate architects, Walla Walla, Wash. Has living room 16x24 feet; two bedrooms and kitchen; cost at Walla Walla, \$1,250.

2. Early American cottage, 1933 model, by F. M. Smith, Jr., architectural designer, Seattle; 4 rooms and garage; cost at Seattle, \$1,000.

3. New England cottage in the modern style, by H. H. Riley, architect, Seattle; four rooms and garage, cost about \$1,000 at Seattle.

4. A simple Colonial, by H. H. Riley, architect, Seattle; 3 rooms, bath, breakfast nook and garage; cost about \$800 at Seattle. Provision for extra room upstairs.

Plans, specifications and bills of materials, the Association announced, will be furnished at cost to retail lumber dealers. Copies of the booklet may be had by the public at ten cents each to cover printing and mailing costs.

MOORE ELECTED TO INSTITUTE BOARD

Joseph A. Moore of the Moore Drydock Company has been elected to the board of directors of the American Institute of Steel Construction.

Mr. Moore is one of six new board members representing steel companies in various parts of the nation. The other new directors are J. F. Duthie, Wallace Bridge & Structural Steel Co., Seattle; C. Edwin Michael, Virginia Bridge and Iron Co., Roanoke, Va.; G. H. Blakeley, McClintic-Marshall Corp., Bethlehem, Pa.; Ralph J. Stayman, Jones & Laughlin Steel Corp., and L. A. Paddock, American Bridge Co., Pittsburgh.

SCRIP TO FINANCE PORTLAND BUILDING

Remodeling of the Portland city hall at an estimated cost of \$100,000 has been approved by the city council. Municipal scrip is to be used in payment of all material and labor costs. Unemployed architects and engineers will be given an opportunity to prepare plans and to supervise the work. This is one of a group of remodeling and repair jobs on public buildings which have been proposed for the stimulation of building industry activity and their accomplishment by the use of scrip is being advocated.

EXCHANGE OFFICERS RE-ELECTED FOR 1933

W. H. George of the Cowell Lime and Cement Company, was re-elected president of the San Francisco Builders' Exchange at the organization meeting of the board of directors.

Other officers of the Exchange were re-elected for 1933 with the exception of treasurer, a post that had been vacant due to the death of Alex Mennie. E. M. Hundley of the Hundley Hardware Company, was elected treasurer. The other officers are Joseph B. Keenan, first vice-president; Emil Hogberg, second vice-president; Chas. W. Carle, third vice-president; R. J. H. Forbes, secretary.

FRESNO EXCHANGE ELECTS DIRECTORS

Two new directors were elected to the board at the annual meeting of the Fresno Builders' Exchange for 1933.

They are Charles Stewart and B. A. Newman. Other members of the board who were re-elected are J. M. Brown, H. G. Rohr, F. M. Low, A. M. Healey, L. G. Jeffrey, M. W. Hancock, R. E. Jolly, A. M. Loper and T. A. Osborne.

Officers are to be elected at the organization meeting which will be held shortly.

TOOL SERVICE FIRM IS ESTABLISHED HERE

Electric Tool Service has been formed by W. A. McAuley and A. R. Toole to specialize in sales and repairs on all types of portable electric tools. They are established at 220 First street, San Francisco.

Both members of the firm have been engaged in the electric tool business here for several years. The shop is equipped to service all makes of electric saws, concrete hammers, drills and grinders.

A rental service for contractors will be operated also.

The company is the local representative of M. N. Thackaberry, Los Angeles electric tool distributor.

PERMITS SHOW GAIN HERE FOR PRIVATE WORK

March Totals Ahead of January and February in
San Francisco

A gain in private building over both January and February is shown by March building permit totals in San Francisco, issued last night by Building Inspector John B. Leonard.

The total for the month is \$548,231 for 343 permits, virtually all of the month's work being for private owners. Municipal, state and federal work accounted for less than fifty thousand dollars of the total.

Alteration permits, although fewer in number, compare favorably with those of March a year ago in dollar value. Following is a comparison of figures for alterations for the first three months of the year and for the corresponding month a year ago: January, 107,200; February, \$147,785; March, \$154,075; March, 1932, \$190,997.

Following is the comparison of all private work, excepting alterations for the same months: January, \$120,750; February, \$152,035; March, \$345,905; March, 1932, \$646,860.

The classification of permits for months of March in both years follows:

	March, 1933		March, 1932	
	No. P'mts	Est. Cost	No. P'mts	Est. Cost
A	2	\$160,000	.....	\$.....
C	1	11,000	5	137,500
Frames	59	174,905	121	509,360
Alter.	277	154,075	419	190,997
Public	2	35,882	3	50,990
State	1	1,639	3	202,444
U.S. Govt. 1		10,730	2	1,000
Total	343	\$548,231	553	\$1,092,291

FALLING WALL COSTS CONTRACTOR \$10,000

After more than six hours' deliberation, a jury in the court of Superior Judge P. F. Gosbey awarded \$10,000 to Mrs. Margaret Williams in her suit against H. A. Bridges, San Jose contractor, for injuries suffered in a freak accident June 5, 1931.

Mrs. Williams had asked \$51,606. She claimed that she was walking along the sidewalk when a temporary wall erected by Bridges during construction work at 130-34 S First street, San Jose, blew over in the wind and fell on her. She alleged that she sustained concussion of the brain, a fractured skull and internal injuries.

Thirty-eight pieces of motor driven fire apparatus were sold in the first two months of 1933, according to manufacturers' reports to the Department of Commerce. In the same period 22,590 hand-extinguishing units were shipped, comparing with 36,125 units in the first two months of 1932.

PERMITS AND CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
183	B. & G.	Wilhelm	2850
184	Jacobsen	Owner	1200
185	Kambic	Owner	3800
186	McKee	Gott	1850
No.	Owner	Contractor	Amt.
95	Children's	Paige	2000
96	Barrett	Dawe	1500
187	Stapleton	Better	1300
188	Helgesson	California	3000
189	Galli	Owner	12000
190	Matthews	Moore	7500
192	Howes	Branch	20000
191	Verengcl	Rosemont	1900
193	Adair	Adair	3500

ALTERATIONS

(183) 250 MONTGOMERY ST.; alter sandwich shop.
 Owner—B. & G. Sandwich Shops, 258 9th Street.
 Architect—Not Given.
 Contractor—A. Wilhelm, 666 Mission Street. \$2850

SHOP & OFFICE

(184) 3901 22ND; one-story frame of-
 fice and shop.
 Owner—J. Jacobsen, 2443 35th Ave.
 Architect—C. F. Schulz and F. W.
 Dakin, 625 Market St. \$1200

DWELLING

(185) S SILVER AVE. 83 E Dart-
 mouth; one-story and basement
 frame dwelling.
 Owner—J. Kambic, 500 San Bruno.
 Architect—Not Given. \$3800

ALTERATIONS

(186) 65 ARGUELLO BLVD.; alter
 dwelling.
 Owner—D. McKee, 65 Arguello Blvd.
 Architect—H. Abrahams, 526 Sheldon
 Building.
 Contractor—W. L. Gott, 683 3rd Ave.
 \$1850

ALTERATIONS

(95) 3595 66th AVE., OAKLAND; al-
 teration and addition.
 Owner—Children's Home Society of
 California, 3595 66th Ave., Oak-
 land.
 Architect—Not Given.
 Contractor—Harold L. Paige, 5651 Oak
 Grove Ave., Oakland. \$2000

ALTERATIONS

(96) 1601-1603 TELEGRAPH AVE.,
 OAKLAND; alterations.
 Owner—Barrett and Hilp, 1629 Tele-
 graph Ave., Oakland.
 Architect—Not Given.
 Contractor—Leslie C. Dawe, 961 Per-
 alta Ave., Berkeley. \$1500

ALTERATIONS

(187) NO. 49 HARTFORD St. Alter
 dwelling.
 Owner—C. Stapleton, Premises.
 Architect—Not Given.
 Contractor—Better Homes Improve-
 ment Co., 557 Market St. \$1300

DWELLING

(188) S CHENERY 66 E Chilton St.
 One-story and basement frame
 dwelling.
 Owner—R. A. Helgesson, 1283 16th
 Ave., San Francisco.
 Architect—Not Given.
 Contractor—California Concrete Co.,
 1632 Steiner St., S. F. \$3000

DWELLINGS

(189) S LINCOLN WAY 57 W 24th
 Ave. Three one-story and base-
 ment frame dwellings.

Owner—R. F. Galli, 1574 28th Ave.,
 San Francisco.
 Plans by B. K. Dobkowitz, 425 Mon-
 terey Blvd., S. F. \$4000 each

DWELLING

(190) N SAN ANDREAS 218 SE San
 Anselmo. Two-story and base-
 ment frame dwelling.
 Owner—A. and B. Matthews, % Ar-
 chitect.

Architect—Masten & Hurd, 233 Post
 St., San Francisco.
 Contractor—Moore & Madsen, 557
 Market St., San Francisco. \$7500

DWELLINGS

(192) S MARINA BLVD. 150 W Di-
 visadero St. Two two-story and
 basement frame dwellings.
 Owner—M. Howes, 530 Mason St., San
 Francisco.
 Architect—A. H. Lamb, 530 Mason St.,
 San Francisco.
 Contractor—R. H. Branch, 2901 Van
 Ness Ave. \$10,000 each

DWELLING

(191) S JOHN ST. 46 E Mason St.
 One-story frame dwelling.
 Owner—Mrs. Verengcl, 9 Peters St.,
 San Francisco.
 Architect—Not Given.
 Contractor—E. Rosemont, 176 Duboce
 Ave. \$1900

DWELLING

(193) W SEVENTEENTH AVE 200
 N Norlega St. One-story and
 basement frame dwelling.
 Owner—Mrs. E. Adair, 1842 18th Ave.,
 San Francisco.
 Plans by H. L. Medrow, 1817 Oak St.,
 San Francisco.
 Contractor—Edward Adair, 1842 18th
 Ave., San Francisco. \$3500

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
93	Twentieth	Lindgren	22009
94	Dinwiddie	Dinwiddie	1200
97	Tassielle	Peterson	1250
98	Whalen	Williamson	5000
99	Alaska	Owner	1681

STORE

(93) 1915 BROADWAY, OAKLAND;
 one-story concrete store bldg.
 Owner—Twentieth & Broadway Realty
 Co., 1723 Webster St., Oakland.
 Architect—A. J. Evers, 525 Market
 St., San Francisco.
 Contractor—Lindgren and Swinerton,
 Inc., 1723 Webster St., Oakland.
 \$22,000

ALTERATIONS

(94) 2742 WEBSTER ST., BERKE-
 LEY; alterations.
 Owner and Builder—John E. Dinwid-
 die, 2815 Oak Knoll, Berkeley.
 Architect—Not Given. \$1200

ALTERATIONS & ADDITION

(97) 5301 E 14th ST., OAKLAND;
 alterations and additions.
 Owner—Mr. Tassielle, 5301 E 14th St.,
 Oakland.
 Architect—Not Given.
 Contractor—Wallace A. Peterson, 7107
 Weld St., Oakland. \$1250

DWELLING

(98) E BROOKSIDE DRIVE 130 W
 Claremont, BERKELEY. Two-
 story 6-room frame dwelling and
 garage.
 Owner—Whalen & Hufschmidt, 89
 Nova Drive, Piedmont,

Architect—Not Given.

Contractor—E. M. Williamson, 3761
 Allendale Ave., Oakland. \$5000

ADDITION

(99) N END PARU ST., ALAMEDA.
 Additions to frame shed.
 Owner—Alaska Packers Assn., Prem.
 Architect—Not Given. \$1681

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

38	P. T. & T. Co.	Gladding	.....
39	Matthews	Moore	7636

DWELLING

(39) LOT 23 BLK 3105A map Saint
 Francis Wood Exten No 3; all
 work on two-story and basement
 frame and stucco dwelling.
 Owner—Alfred R. and Beatrice S.
 Mathews, Claus Spreckels Bldg.
 Architect—Masten & Hurd, 233 Post
 Street.
 Contractor—Moore and Madsen, 557
 Market Street.
 Filed Mar. 31, '33. Dated Mar., '33.
 As work progresses.....75%
 Usual 35 days.....25%
 TOTAL COST, \$7636
 Plans and Specifications filed.

TERAA COTTA WORK

(38) SW COR. BUSH and Larkin Sts.
 Architectural terra cotta for two
 stories and basement of an ulti-
 mate 5-story and basement addi-
 tion to The P. T. & T. Co.'s
 Graystone Bldg.
 Owner—Pacific Telephone & Telegraph
 Co., 140 New Montgomery St.
 Architect—E. V. Cobby, 140 New
 Montgomery St.
 Contractor—Gladding, McBean & Co.,
 660 Market Street.
 Filed Mar. 30, '33. Dated, Mar. 13, '33.
 When all terra cotta delivered...95%
 Upon completion.....5%
 TOTAL COST not given.
 Plans and Specifications filed.

ALAMEDA COUNTY

100	Pacific	Rich	2650
-----	---------	------	------

STORE

(100) 2215-17 19-21 HOPKINS Street,
 Oakland; raising present building
 five feet, removing inner partitions
 and building a store complete.
 Owner—Pacific States Saving & Loan
 Co., 745 Market St., San Francisco
 Architect—Not Given.
 Contractor—James L. Rich, 556 37th
 St., Oakland.
 Filed April 5, '33. Dated Mar. 4, '33.
 Bldg. plastered.....\$992
 Bldg. completed and notice filed 993
 Usual 35 days.....665
 TOTAL COST, \$2650
 Limit, April 20, 1933.

SAN FRANCISCO UNDER \$1000

SIGN, electric, \$175; 1225 Golden Gate
 Ave.; owner, Greenberg's Restau-
 rant, 1225 Golden Gate; contrac-
 tor, Q R S Neon Corp.; 690 Pot-
 rero Ave.

ADDITION to dwelling, \$900; 2227
 Greenwich St.; owner, A. Pucci-
 nelli, 2227 Greenwich St.

SIGNS (3) electric, \$250, \$250 and \$400
 respectively; 301 Golden Gate
 Ave.; owner, Don Gilmore, 301
 Golden Gate Ave.; contractor,
 Elec. Products Corp., 255 Golden
 Gate Ave.

BUILDING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

- | | |
|---------------------------------|---------------------------------|
| 1.—Apartments | 11.—Ice and Cold Storage Plants |
| 2.—Eonds | 12.—Power Plants |
| 3.—Churches | 13.—Public Buildings. |
| 4.—Factories and Warehouses | 14.—Fire Houses and Jails |
| 5.—Flats | 14.—Residences |
| 6.—Garages and Service Stations | 15.—Schools |
| 7.—Federal Buildings. | 16.—Banks, Stores and Offices |
| 8.—Club Buildings | 17.—Theatres |
| 9.—Hospitals | 18.—Wharves & Docks |
| 10.—Hotels | 19.—Misc. Const. |
| | 23.—Misc. Supplies & Materials |

1—APARTMENTS

March 31, 1933

Segregated Bids Being Taken.
APARTMENTS Cost, \$250,000
SAN FRANCISCO. NW Second and Parnassus Avenues.

Five-story, basement and sub-basement steel frame and reinforced concrete apartments (55 1- to 4-room apts.) composition roof, two elevators, steam heating plant (gas fired boilers) electric refrigeration, hardwood floors, wall beds, colored tile baths and kitchens, etc.

Owner—E. V. Raisch.

Architect—H. C. Baumann, 251 Kearny Street.

Mechanical Engineer—C. H. Brazzile, care architect.

Structural Engineer—Jas. Smith, 251 Kearny Street.

Bids are being received at this time on plastering, heating, ventilating, electric, lathing and plastering, glass and glazing, steel sash, tile, mechanical refrigeration, painting, elevators, etc.

Bids on concrete, rough and finish carpentry and structural steel will be taken in one week.
(9327) 1st report Aug. 18, 1932; 4th. March 29, 1933. 1

MODESTO, Stanislaus Co., Calif.—Fire destroyed the Jennings Apartments at 702 13th St., March 30. Damage estimated at \$6,000.

Plans Completed.

ALTERATIONS Cost, \$40,000
SEATTLE, Washington. No. 5415 N-Albina Avenue.

Alterations and additions to three-story apartments recently partly destroyed by fire.

Owner—W. P. Sinnott, 2805 Northeast 21st Ave., Seattle.

Architect—John Graham, Dexter-Horton Bldg., Seattle.

Contract Awarded.

APARTMENTS, ETC. Cost, \$3000
HAYWARD, Alameda Co., Cal. Castro Valley Blvd.

Two-story frame and stucco apartments and stores (1 apt. and 1 store).

Owner—H. W. Clear, Castro Valley Road, Hayward.

Plans by Owner.

Contractor—Zabellos Bros., 914 Soto St., Hayward.

Plastering Contract Awarded.

REMODEL APTS. Cost, \$12,000
SAN FRANCISCO. NE Bush St. and Powell St.

Remodel five-story and basement concrete apartment building (new

plumbing, wiring and heating, tile work, painting, hardwood floors, linoleum, ranges, etc.)

Owner—Samuel Gerson.

Architect—S. Heiman, 655 Market St., San Francisco.

Plastering—John Eshia, 780 32nd Ave., San Francisco.

As previously reported, flooring awarded to Regal Floor Co., 620 4th St.; linoleum to D. N. & E. Walter, 562 Mission St.; plumbing, wiring and heating to Frank J. Klimm, 456 Ellis St.; tile to Art Tile & Mantel Co., 221 Oak St.

Painting bids are now being taken.

Additional Sub-Contracts Awarded.

APARTMENTS Cost, \$20,000
SAN FRANCISCO. N West Portal W Fourteenth Avenue.

Three-story and basement frame and stucco apartments (12 2- and 3-room apts.) tile and composition roof, fireplaces, steam heating system, hardwood floors, tile baths, electric refrigeration, etc.

Owner—Mrs. F. Nelson.

Architect—H. C. Baumann, 251 Kearny Street.

Contractor—San Francisco Const. Co., 3159 Fillmore Street.

Tile Work—Scott Co., 243 Minna St.
Steel Sash—Soule Steel Co., 1750 Army Street.

Roofing—Knight Roofing Co., 91 Bluxome Street.

Glass—W. P. Fuller & Co., 301 Mission Street.

Painting, millwork, plastering and hardwood flooring contracts will be made shortly.

Sub-Bids Being Taken.

ALTERATIONS Cost, \$40,000
SEATTLE, Washington. No. 5415 N-Albina Avenue.

Alterations and additions to three-story apartments recently partly destroyed by fire.

Owner—W. P. Sinnott, 2805 Northeast 21st Ave., Seattle.

Architect—John Graham, Dexter-Horton Bldg., Seattle.

Bids are being received by the owner on the site.

Sub-Bids Being Taken.

APARTMENTS Cost, \$30,000
SAN FRANCISCO. Nob Hill District

Three-story and basement and sub-basement frame and stucco apartments (Class C basement and sub-basement) tar and gravel roof, oil burner, steel sash, canvas walls, tiled baths, kitchens and showers, glass shower doors, refrigeration, etc.; Modernistic style.

Owner—Withheld.

Architect—Irvine & Ebbets, (R. R. Irvine, architect), 2048 Market St., San Francisco.

Sub-bids are being received by the architect.

3—CHURCHES

Preparing Working Drawings.

REBUILD Cost, \$8500
SAN FRANCISCO. 2475 California St. Rebuild structure recently destroyed by fire for frame gymnasium.

Owner—St. Paul's Episcopal Church (Rev. Leslie C. Kelly, pastor).
Architect—Arnold Constable, 580 Market Street.

Plans will be completed in about 30 days.

(903) 1st report Feb. 16; 3rd, March 17, 1933. 3

Marble Contract Awarded.

CONFESSIONALS Cost, \$5000
SAN FRANCISCO. Mission St. near Third St.

Four marble confessionals for St. Patrick's Church.

Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin.

Architect—Arnold Constable, 580 Market Street.

Marble—Daprato Statuary Co., 765 W Adams St., Chicago.

Bids on marble settings and bronze work will be taken at a later date.

2—BONDS

Sub-Bids Being Taken.

ADDITION Cont. Price, \$3258
SAN FRANCISCO. 750 25th Ave.

Frame addition to Jewish Synagogue (raise roof, add social rooms, etc.)

Owner—Chebra Thilim.

Architect—J. Lloyd Conrich, 815 25th Avenue.

Contractor—William Spivock Hobart Building.

4—FACTORIES & WAREHOUSES

Low Bidder.

LAUNDRY Cost, Approx. \$9000
SAN JOSE, Santa Clara Co., Cal. 14th and E-Santa Clara Streets.

One-story reinforced concrete laundry.

Owner—San Jose Hospital, Premises.

Architect—Binder & Curtis, 35 W-San Carlos St., San Jose.

Low Bidder—Charles A. Thomas, 127 Clayton Ave., San Jose.

SEATTLE, Wash.—Util April 11, 2 P. M., bids will be received by S. M. Wilson, Secretary, Seattle Port Commission, for an automatic sprinkler system to be installed at its Bell St. Terminal. Plans and specifications available from above office.

SOUTHERN CALIFORNIA — Jesus E. Zanbarano, vice-president of Cerveceria Cuauhtemoc, Monterey, Mex., is making a survey of Southern California district preparatory to selecting a site for a large brewery he proposes erecting in this state. Senor Zanbarano operates a brewery in Monterey.

CREAMERY Cost, \$20,000
CEDARVILLE, Modoc Co., Cal. Surprise Valley.

One-story creamery (45x85) cement foundation and walls to height of 3½ ft., 8-ft. frame above (three cold storage rooms, boiler room, storage and can room, ice tank, cooling tank, elevated pasteurizing platform, 2300-gallon pasteurizer's churn, 5-ton compressor, etc.)

Owner—Mountain Valleys Dairy Prod. Inc., H. C. Watson, pres., Alturas.

Plans by Engr. Dept. of Owner.

Contractor—D. G. Reid, Alturas.

Refrigeration Machinery—H. B. Ward, 2015 Yale St., Sacramento.

Contract Awarded.

PLANT Cost, \$4000
FRESNO, Fresno Co., Calif. 1921 Belmont Street.

One-story dry cleaning plant.

Owner—J. H. Barigian, 632 L Street, Fresno.

Architect—Not Given.

Contractor—J. H. Craig, care owner.

TORRANCE, Los Angeles Co., Cal.—General Petroleum Corp., Fred Isaacs, manager of the company's re-

fining department, 2525 E. 37th St., in charge of the project, will start work immediately on the construction of the second unit of a distillation and chemical purification plant at 190th St. and Western Ave. Included in this unit are a cracking plant, gasoline stabilizing unit, pressure distillate re-run plant, additional service for cracking plant, and pressure distillate acid treatment, plant to cost about \$560,000. The Kellogg Company will install the equipment.

Being Done By Day's Work.
ALTERATIONS Cost, \$—
SAN JOSE, Santa Clara Co., Cal. Market Street.
 Alterations to store and warehouse (warehouse doors, display fixtures, etc.)
 Owner—San Jose Hardware Co. (Warren Holmes in charge), 62 W-San Fernando Ave., San Jose.
 Architect—Not Given.

Plans Being Completed.
MECHANICAL WORK, ETC. \$—
SAN FRANCISCO, Mission St., bet. Fourth and Fifth Sts.
 Plumbing, heating, wiring and sprinkler system in connection with warehouse under construction.
 Owner—The Emporium, 835 Market St. Plans by Engineering Dept. of Owner, Contractor—K. E. Parker Co., 135 South Park, San Francisco.
 Bids will be taken by the owner in about one week.

Plans Completed.
REMODEL BREWERY
 Total Cost, \$75,000
FRESNO, Fresno Co., Cal. No. 100 M Street.
 Remodel five-story concrete and brick brewery (steel frame and mill type construction addition with concrete floors).
 Owner—D. H. Swan, W. I. Hollingsworth, et al, Hollingsworth Bldg., Los Angeles.
 Architect—Chas. Butner, Cory Bldg., Fresno and Glikbarg Bldg., Salinas
 Bids are now being received on steel and lumber. Bids on carpentry, plumbing, etc., will be taken April 7.

March 31, 1933

Plans Being Figured.
LAUNDRY Cost, \$—
LOS GATOS, Santa Clara Co., Calif. One-story concrete laundry (26x60-ft.) tar and gravel roof, etc.
 Owner—J. Libante.
 Architect—H. C. Baumann, 251 Kearny St., San Francisco.
 Bids are being taken from a selected list of contractors as follows:
 W. L. Jose, 710 Arguello Blvd., San Francisco.
 Clinton Stephenson Const. Co., 550 Montgomery St., San Francisco.
 San Francisco Const. Co., 3159 Fillmore St., San Francisco.
 (1083) 4

March 31, 1933

Sub-Contracts Awarded.
ALTERATIONS Cost, \$4000
SAN FRANCISCO, 548 Fifth Street. Alterations to warehouse and offices.
 Owner—McCreery Est. Co., Alexander Building.
 Architect—Not Given.
 Contractor—George Wagner, 181 South Park.
Heating and Plumbing—Wm. J. Forster Co., 335 4th St.
Glass—W. P. Fuller & Co., 301 Mission Street.
Mill Work—Pacific Mfg. Co., Monadnock Building.
Electric—Superior Electric Co., 3110 Clay Street.
Sheet Metal—Fire Protection Products Co., 1101 16th Street.
Steel Sash—Soule Steel Co., 1750 Army Street.

Sub-Contracts Awarded.
PLANT Cont. Price, \$10,777
SAN FRANCISCO, Seventh and Harrison Streets.
 One-story reinforced concrete printing plant (60x37 feet) steel sash, plumbing, heating, electric wiring.
 Owner—Daily Racing Form.
 Architect—C. O. Clausen, 746 46th Avenue.
 Contractor—C. L. Wold, 4416 Fulton Street.
Structural Steel—Schrader Iron W'ks, 1247 Harrison St.
Steel Sash—Soule Steel Co., 1750 Army Street.

Sub-Contracts Awarded.
WAREHOUSE, ETC. Cost, \$52,930
SAN FRANCISCO, Jessie Street bet. Fourth and Fifth Streets.
 One-story and basement Class A steel frame and concrete warehouse (100 by 160 ft.) concrete floors, etc., and two-story steel and wood bridge and certain alterations to adjoining existing building.
 Owner—The Emporium, 835 Market. Plans by Engr. Dept. of Owner.
 Contractor—K. E. Parker Co., 135 So. Park.
Structural Steel—Judson Pacific Co., 609 Mission St.
Concrete—Golden Gate Atlas Materials Co., 16th and Harrison Sts.
Reinforcing Steel and Pans—Concrete Engr. Co., 1280 Indiana St.
Steel Windows—Truscon Steel Company, Call Bldg.
Miscellaneous Iron—F. Kern & Sons, 517 Sixth Street.
Roofing—Alta Roofing Co., 976 Indiana.
Glass and Glazing—Habernicht & Howlett, 529 Clay Street.
Fire Doors—Capitol Art Metal Co., 1129 Howard St.
Sheet Metal—Guilfooy Cornice Works, 1234 Howard St.

As previously reported, grading contract awarded to Shiley Grading and Teaming Co., 165 Landers St.

Sub-Contracts Awarded.
WAREHOUSE Cost, \$30,000
SEATTLE, Wash. 4634 East Marginal Way.
 One-story warehouse (245x150 ft.) masonry walls, metal sash, concrete floors, etc.
 Owner—Ladd Estate Company.
 Plans by Austin Co. of Calif., Dexter Horton Bldg., Seattle.
 Lessee—Western Containers, Inc.
 Cement and materials awarded to Klinker Sand & Gravel Co.; brick and masonry work to G. C. Jones; reinforcing steel to Pioneer Sand & Gravel Co.; lumber to Mathes Lumber Co.; plumbing and heating to University Plumbing & Heating Co.; sprinkler system to The Grinnell Co. of the Pacific; electrical work to NePage-McKenny; steel sash to D. E. Fryer & Co.; earth fill to L. J. Jones, Inc.

Sub-Bids Wanted.
FACTORY, ETC. Cost, \$70,000
LOS ANGELES, Cal. Georgia Street bet. Venice Blvd. and 17th St.
 Two-story Class A factory and display room bldg. (343x102x160) reinforced concrete construction, composition roof, plastering, metal lath, wood and glass partitions, hydraulic freight elevator, sprinkler system, concrete floors, brick work, steel sash, waste molds, gas radiators.
 Owner—Bovertown Burial Casket Co. Plans by Mr. Cooper.
 Contractor—John M. Cooper, 321 Riverside-Strong Bldg., Los Angeles.

Planned.
REFINERY Cost, \$25,000
SACRAMENTO, Sacramento Co., Cal. 16th and North B Streets.

Refinery (for petroleum and manufacture of gasoline; tank with 1,000-gallon capacity).
 Owner—A. J. Smith Engr. Corp., Kansas (A. J. Smith, president, care R. T. Coughlin, Bryte Bldg., Sacramento).
 Plans by Engr. Dept. of Owner.
 City planning commission and city council approved plans presented by A. J. Smith. Further deals will be given shortly.

Contract Awarded.
REMODEL BREWERY Cost, \$—
SEATTLE, Wash. 2918 Airport Way. Remodel brewing plant.
 Hemrich's, Inc., premises.
 Engineer—Erwin Weber, care owner.
 Contractor—Sound Const. & Engineering Co., Northern Life Tower, Seattle.

LOS ANGELES AND OAKLAND, Cal.—Maury I. Diggs, 364 14th St., Oakland, is completing plans for two brewing plants, one to be erected in Los Angeles at a cost of \$750,000, and the other in Oakland at a cost of \$600,000. Information as to the name of the owner and the street locations is not available at this time. Each plant will consist of a six-story brewery, a two-story cooperage building and a two-story bottling house, steel frame and reinforced concrete construction, steel sash throughout, automatic sprinkler systems, air conditioning systems, elevators, refrigerating equipment, etc. Mr. Diggs states that contracts will probably be awarded within the next five or six weeks.

To Be Done By Day's Work.
ADDITION Cost, \$1681
ALAMEDA, Alameda Co., Cal. North End of Paru Street.
 Frame addition to shed.
 Owner—Alaska Packers Association, Premises.
 Plans by Eng. Dept. of Owner.

Contract Awarded.
REMODELING Cost, \$150,000
EUREKA, Humboldt Co., Cal. Broadway.
 Remodel brewery (repaint, clean and replace some brick work, recondition machinery, installation of new machinery, steel and wood tanks, new bottle house equipment, new electrical equipment, new wiring, switchboard and motors, etc.)
 Owner—Humboldt Brewery Co. (H. C. Howe, president; G. H. Mullin, et al, 5th Floor, Russ Building, San Francisco).
 Architect—Not Given.
 Contractor—Mercer Fraser Co., Eureka

Plans Being Completed.
PLANING MILL Cost, \$—
EMIGRANT GAP, Placer Co., Calif. Planing mill (mill frame construction, galvanized iron cover).
 Owner—Tahoe Sugar Cane Pine Lumber Co., Monadnock Building, San Francisco.
 Engineer—W. H. Beane, Klamath Falls, Oregon.
 Construction will be started in about thirty days by owner's own forces.

Glass Contract Awarded.
TREATING PLANT Cost, \$9000
AVON, Contra Costa Co., Cal. Steel and hollow tile treating plant.
 Owner—Associated Oil Co., 79 New Montgomery St., San Francisco.
 Plans by Engr. Dept. of Owner.
 Contractor—Dinwiddie Construction Co., Crocker Bldg., San Francisco.
Glass—Tyre Bros. Glass Co., 10th and Harrison Sts., Oakland.

6—GARAGES & SERVICE STATIONS

Plans Being Figured—Bids Close Apr. 15th.

GARAGE Cost, \$4000
MOUNTAIN VIEW, Santa Clara Co.
 One-story brick and frame garage (50 x100 ft.) built-up 15-year guaranteed roof, concrete floors, etc.
 Owner—Fred Campen, General Delivery, Mt. View.
 Architect—Charles McKenzie, Twohy Bldg., San Jose.

Following is a partial list of contractors who have procured plans:
 M. W. Reese, 1210 Minnesota St., San Jose.
 Pat Doyle, Mountain View.
 True Bros., Mountain View.

Sub-Contracts Awarded.

SERVICE STATION Cost, \$6000
SAN MATEO, San Mateo Co., Calif.
 Poplar and El Camino Real.
 Brick and stucco service station.
 Owner—Union Oil Co., Mills Building, San Francisco.

Plans by Engr. Dept. of Owner.
 Contractor—Lindgren and Swinerton, Inc., 225 Bush St., San Francisco.
Concrete—San Mateo Feed & Fuel Co., San Mateo.

Steel Sash—Michel and Pfeffer Iron Works, Harrison and 10th Streets, San Francisco.

Structural Steel—Mortensen Const. Co., 608 Indiana St., San Francisco.
 (930) 1st report March 16, 1933. 6

Preparing Plans.

SERVICE STATION Cost, \$16,000
SACRAMENTO, Sacramento Co., Cal.
 Sixteenth and L Streets.

Service station.

Owner—Shell Oil Co., Shell Bldg., San Francisco.

Plans by Engineering Dept. of Owner.
 Lessee—Frank E. Kraus, 2030 23rd St., Sacramento.

Contracts Awarded.

SERVICE STATION Cost, \$5000
SAN FRANCISCO, SW California and Stelner Streets.

Two one-story Class C service station buildings.

Owner—Shell Oil Co., Shell Bldg.

Plans by Engr. Dept. of Owner.

Plumbing—Scott Co., 243 Minna St.

Electric—Mohrdick Electric Co., 332 Tehama Street.

As previously reported, steel building reported to Independence Iron Works, 1820 Chase St., Oakland; concrete work, etc., to Louis Cohn, premises.

Sub-Contracts Awarded.

SERVICE STATION Cost, \$6000
SAN MATEO, San Mateo Co., Calif.
 Poplar and El Camino Real.
 Brick and stucco service station.
 Owner—Union Oil Co., Mills Building, San Francisco.

Plans by Engr. Dept. of Owner.

Contractor—Lindgren and Swinerton, Inc., 225 Bush St., San Francisco.

Brick Work—Chas. Ohran, 1033 Chula Vista Ave., Burlingame.

Folding Gates—California Ornamental Iron & Fence Co., 835 8th Avenue, Oakland.

Plumbing—W. E. Allan, 210 Myrtle Road, Burlingame.

As previously reported, concrete awarded to San Mateo Feed & Fuel Co., San Mateo; steel sash to Michel & Pfeffer Iron Works, Harrison and 10th Sts., San Francisco; structural steel to Mortensen Const. Co., 608 Indiana St., San Francisco.

Additional Sub-Contracts Awarded.

SERVICE STATION Cost, \$6000
SAN FRANCISCO, SW Pierce and Lombard Streets.

Two one-story steel service station buildings.

Owner—Standard Oil Co., 225 Bush St.
 Plans by Engr. Dept. of Owner (P. H. Brown, engineer).

Contractor—Lindgren and Swinerton, Inc., 225 Bush Street.

Steel and Aluminum Windows—Paterson & Koster, 280 13th Street.

Folding Gates—California Ornamental Iron & Fence Co., 835 8th Ave., Oakland.

Common Brick—Remillard Brick Co., 960 7th Street.

Other awards reported March 24.
 (438) 1st report Jan. 16; 7th, March

Construction Under Way.

SALES BLDG. Cost, \$10,000

SANTA ROSA, Sonoma Co., Cal. Exchange Ave. and Third St.

One and one-half-story brick, concrete and tile auto sales building (50x220 feet).

Owner—J. Henry Williams, 10 Main St., Santa Rosa.

Plans by A. M. Hildebrandt, 406 4th St., Santa Rosa.

Contractor—Bohn Bldg. Co., Sebastopol Ave., Santa Rosa.

Mill Contract Awarded.

SERVICE STATION Cost, \$6000

SAN MATEO, San Mateo Co., Calif.
 Poplar and El Camino Real.

Brick and stucco service station.
 Owner—Union Oil Co., Mills Building, San Francisco.

Plans by Engr. Dept. of Owner.

Contractor—Lindgren and Swinerton, Inc., 225 Bush St., San Francisco.

Mill Work—San Mateo Planing Mill, San Mateo.

Other awards reported April 1.

7—FEDERAL BUILDING

WALLA WALLA, Wash.—Until April 14, 2:30 P. M., bids will be received by Supervising Superintendent of Construction, Veterans' Hospital, Palo Alto, for marble for four showers at the Veterans' Administration, Walla Walla.

SAN DIEGO, Cal.—Until April 18, 11 A. M., bids will be received by Public Works Officer, Eleventh Naval District, San Diego, for painting exterior woodwork at the Eleventh Naval District (Hospital), San Diego. Specification No. 7251. Work involves complete painting of all previously painted exterior wood and metal work (except copper) of 24 existing stuccoed buildings. Paint wooden doors, windows, screens, frames and trim, canopies, iron window grilles, ornamental iron grilles, hand rails, steel doors, windows, frames, canopies and similar exposed exterior work. Bidding data available from above office upon deposit of \$10.

CEDAR CITY, Utah—Until 2 P. M., April 26, bids will be received by the Treasury Department, Office of the Supervising Architect, Washington, D. C., for furnishing and installing interior lighting fixtures in the United States Post Office in Cedar City, Utah. Plans and specifications may be obtained from the supervising architect in Washington.

ALBROOK FIELD, Canal Zone—Following have procured plans for the purpose of submitting bids to the Department Quartermaster, Panama Canal Department, Quarry Heights, Canal Zone, on May 1 for constructing five technical buildings, etc., at Albrook Field, Canal Zone:

H. B. Nelson Construction Co., Atlanta, Georgia.

Eastern Contracting Co., 10 N. Calvert St., Baltimore.

Allied Constr. Co., P. O. Box 1493, Fort Worth, Texas.

Wm. MacDonald Constr. Co., 1311 Syndicate Trust Bldg., St. Louis.

Raymond Concrete Pile Co., 140 Cedar St., New York City.

H. H. Robertson Co., 475 5th Ave., New York City.

J. A. Jones Constr. Co., 411 Commercial Bank Bldg., Charlotte, N. C.

Greben & Martinz, P. O. Box 697, Panama City, R. de P.

Winston Bros. Co., 1470 Northwestern Bank Bldg., Minneapolis, Minn.

McCarthy Bros. Constr. Co., 319 Roosevelt Bldg., St. Louis.

WASHINGTON, D. C.—Largura Construction Co., Gary, Indiana, at \$509,000 for item 1 and \$523,000 for item 2 submitted low bid to Treasury Department, for the construction of the two-story steel and masonry post office building to be erected in San Diego for the United States Government. William Templeton Johnson, San Diego Trust & Savings Bank Bldg., San Diego, Architect. Following are three low bids:

Largura Constr. Co., Gary, Indiana(1) \$509,000
 (2) 523,000

A. W. S. Constr. Co., Chicago Illinois(1) 510,000
 (2) 525,000

Ring Constr. Co., Minneapolis, Minn(1) 562,000
 (2) (2) 584,000

Complete list of bids will be published shortly.

Additional Sub-Contracts Awarded.

OFFICERS' QUARTERS
 Contract Price, \$114,574
SAN RAFAEL, Marin Co., Cal. Hamilton Field.

Twelve sets of officers' quarters (two story and basement hollow tile and stucco structures; tile roof, cast stone, steel casement windows, gas fired hot water heating system, linoleum, plumbing, electrical work, etc.

Owner—United States Government.

Plans by Constructing Quartermaster.

Contractor—Meyer Bros., 727 Portola Drive, San Francisco.

Linoleum—D. N. & E. Walter Co., 562 Mission St., San Francisco.

Shades and Curtain Rods—The Shade Shop, San Mateo.

Other awards previously reported.

SUNNYVALE, Santa Clara Co., Cal.

—Barnes Bros. Iron Works, Oakland, at \$280 submitted low bid to Public Works Officer, 12th Naval District, San Francisco, for additional docking facilities in airship hangar at the Naval Air Station, Sunnyvale. Specification No. 7264. Work includes milling lumber, fabrication of metal straps and the assembly, erection and fitting of the same on the structural steel frame of the airship hangar to afford points of suspension for cables.

Following bids received:

Barnes Bros. Iron Wks. Oakland. \$280

Dinwiddie Constr. Co., S. F. 629

Baldwin & Butler, Berkeley. 680

Bids held under advisement.

SUNNYVALE, Santa Clara Co., Cal.

—Roy Lind, 54 Stanton St., San Francisco, at \$3219 submitted low bid to Public Works Officer, 12th Naval District, San Francisco, for a photographic laboratory in the basement of the Administration Building at the Naval Air Station, Sunnyvale. Work includes metal studding, metal lath, gypsum plaster, partitions; wood doors; carpentry and joinery; hardware; plumbing; lead-lined wood tanks and sinks, wood tables, shelving; film-winding reel, stand and drum. Specification No. 7121. Following bids received:

Roy Lind, San Francisco.....\$3219
 Theo. Johans, San Francisco..... 3245
 E. T. Lesure, Oakland..... 3294
 Clinton Stephenson Constr. Co.,
 San Francisco..... 3834
 Bids held under advisement.

SUNNYVALE, Santa Clara Co., Cal.
 —Until April 14, 11 A. M., bids will be received by Public Works Officer, 12th Naval District, 100 Harrison St., San Francisco, for office and tool room enclosures in airship hangar at the Naval Air Station, Sunnyvale. Specification No. 7238.

WASHINGTON, D. C.—Golden Gate Iron Works, 1541 Howard St., San Francisco, at \$4500 submitted only bid to Bureau of Yards and Docks, Navy Department, for alterations to trolley beams in the hangar at the Naval Air Station, Sunnyvale, Calif. Specification No. 7243. Bid held under advisement.

WASHINGTON, D. C. — Worsham Bros., Knoxville, Tenn., at \$359,867 for cells and \$334,867 for concrete work submitted low bid to Treasury Department for the construction of cell blocks for the Southwestern Reformatory at El Reno, Oklahoma. Complete list of bids will be published shortly.

SUNNYVALE, Santa Clara Co., Cal.
 —Until April 14, 11 A. M., bids will be received by Public Works Officer, 12th Naval District, 100 Harrison St., San Francisco, for small stores facilities for barracks and enclosures for storehouse at the Naval Air Station, Sunnyvale. Specification No. 7225.

WASHINGTON, D. C.—H. A. Framburg & Co., 3320 Carroll Ave., Chicago, Ill., at \$1670 submitted low bid to Treasury Department for furnishing and installing interior lighting fixtures in the United States Post Office at Reno, Nevada. Following are three low bids:
 H. A. Framburg & Co., Chicago..\$1670
 Moe-Bridges Co., Milwaukee..... 1710
 Walter G. Warren Co., Chicago.... 1970
 Complete list of bids will be published shortly.

Completing Plans.
HEADQUARTERS BLDG. Cost \$40,000
SAN RAFAEL, Marin Co., Cal. Hamilton Field.

Concrete and hollow tile headquarters building (177 feet long, two-story center) tile roof, Spanish Mission style.

Owner—United States Government.
 Plans by Constructing Quartermaster, Hamilton Field.
 Bids will be asked in about 2 weeks.

SAN PEDRO, Los Angeles Co., Cal.
 —Los Angeles Harbor Commission has approved the leasing of a 4-acre site in San Pedro to the U. S. Coast Guard. Capt. M. S. Hay, commander of the San Pedro section. The site, which adjoins Allen Field, will be used by the Coast Guard for an aviation base. An appropriation of approx. \$37,000 has been made for the base, which will include a hangar to house three planes, shops and other improvements.

SAN JOSE, Santa Clara Co., Calif.—Interstate Bronze Co., Culver City, has been awarded a contract to furnish ornamental iron and bronze and hollow metal work for the U. S. post office under construction in San Jose. W. J. Ochs, general contractor, San Jose.

CHEHALIS, Wash.—Murch Bros. Const. Co., Railway Exchange Bldg., St. Louis, Mo., awarded the brick contract to the Chehalis Brick & Tile Co., Chehalis, in connection with the

construction of the U. S. post office in Chehalis, now under construction.

SAN DIEGO, Cal.—The Federal Projects Committee, San Diego Chamber of Commerce, has recommended that the government establish the following bases in the San Diego area: Naval dry provisions warehouse in San Diego, \$250,000; Naval air base at Camp Kearney, \$250,000; and a cavalry and artillery base near San Diego, \$2,000,000. The recommendation also includes the construction of an official residence for the Commandant, 11th Naval District, to cost \$12,000.

LOS ANGELES, Cal.—R. E. Phillips 816 W 5th St., is preparing plans for the heating and ventilating systems, air conditioning system, plumbing and elevators to be installed in the new Federal building to be erected at Temple and Spring Sts. The elevator plant will include ten electric passenger elevators, two service elevators, one freight elevator, one postal lift, one electro-hydraulic sidewalk elevator and one dumbwaiter. The building will be heated by a 2-pipe vacuum return steam heating system. C. A. Sanborn & Co., 357 S Hill St., are preparing plans for the electrical work for the building. J. C. Austin and F. M. Ashley, Chamber of Commerce Bldg., and John Parkinson and D. B. Parkinson, Title Insurance Bldg., are the architects for the structure.

SUNNYVALE, Santa Clara Co., Cal.—Dinwiddie Const. Co., Crocker Bldg., San Francisco, awarded the following sub-contracts in connection with the construction of a balloon hangar at the U. S. Naval Air Station, Sunnyvale. Work includes concrete, steel and iron work, steel doors and windows, built-up roof, metal studding and lathing, carpentry, joinery, plumbing and electrical systems. Spec. No. 7024.

Conveyor—Mailler Searles, Inc., 189 2nd St., San Francisco.
Air Conditioning—Carrier Engr. Corp., 58 Main St., San Francisco.
Painting—Aristo Painting Co., 473 Bryant St., San Francisco.
 Other awards previously reported.

FORT LEWIS, Wash.—C. T. Brady, 6242 36th Ave. N. E., Seattle, at \$4,100 submitted low bid to Constructing Quartermaster, Fort Lewis, for complete construction of one mess and kitchen building to correspond with buildings under construction of the concurrent training camp.

Additional Sub-Contracts Awarded.
HOSPITAL BUILDINGS

Contract Price, \$898,810
SAN FRANCISCO, Fort Miley.
 Six - story reinforced concrete hospital (300 beds) 3-story concrete administration bldg., nurses' home, garage, storehouse, laundry, etc. (prepared roof).

Owner—United States Government.
 Plans by U. S. Veterans' Administration, Veterans' Hospital, Palo Alto
 Contractor—Herbert M. Baruch Corp., 625 S Olive St., Los Angeles.

Metal Forms—Steelform Contracting Co., 131 Perry St.

Terra Cotta—Kraftile Co., Niles.
Glass and Glazing—W. P. Fuller & Co., 301 Mission St.

Floor and Wall Tile—Art Tile & Mantel Co., 221 Oak St.

Lumber—J. H. McCallum Lumber Co., 748 Bryant St.

Cement—Santa Cruz Portland Cement Co., Crocker Building.

Admixture—Johns - Manville Co., 159 New Montgomery St.

Hardware—Lockwood Hardware Mfg. Co., Fitchburg, Pa.

Linoleum—D. N. and E. Walter, 562 Mission Street.

Rubber and Asphalt Tile—D. N. & E. Walter, 562 Mission St.

Hollow Tile and Brick—W. S. Diekey Clay Mfg. Co., 116 New Montgomery Street.

Fabric Mesh & Spirals—Concrete Engineering Co., 1280 Indiana St.

Stone Aggregates—Golden West Quarry Co., 400 Wallbridge St.

Handling Steel—King & Co., 625 Second Street.

Roofing & Waterproofing—J. W. Bender Roofing & Paving Co., 18th and Bryant Streets.

Marble, Slate and Soap Stone—J. E. Back Co., Inc., 1533 San Bruno Avenue.

As previously reported, machine excavation awarded to R. A. Farish, 14 Pinehurst Way; concrete piles to the Western Foundation Co., Chicago; placing reinforcing steel to H. Krueper, 1608 Micheltorena, Los Angeles; steel sash to Soule Steel Co., 1750 Army St.; insect screens to Concrete Engr. Co., 1280 Indiana St.; reinforcing steel to Gulf State Steel Co., Birmingham, Ala.; wrecking to California Wrecking Co., 666 Mission St.

WASHINGTON, D. C.—As previously reported, Corry Jamestown Mfg. Co., Corry, Pa., at \$476 submitted low bid to the Treasury Department for metal shelving, metal counters, etc., in the United States post office in Alameda, Calif. Following bids received:

Corry-Jamestown Mfg. Co., Corry, Pa.\$476.50
 Art Metal Const. Co., Southern Bldg., Washington, D. C..... 596.00
 The General Fireproofing Co., Mills Bldg., Washington..... 598.00
 The Globe Wernicke Co., 802 R. I. Ave., Washington, D. C... 676.60
 Jamestown Metal Equip. Co., Jamestown, N. Y..... 729.70
 The Berger Mfg. Co., Canton, C. 732.00

8—CLUB BUILDINGS

Plans Being Figured—Bids Close April 15.

CLUB Cost, \$600,000
SAN FRANCISCO, NE Taylor and Post Streets.

Four-story Class A brick and terra cotta club (gymnasium, dormitory, dining room, kitchen, elevators, etc.)

Owner — Bohemian Club (Timothy Healy, Secretary).

Architect—Lewis P. Hobart, Crocker Bldg., San Francisco.

Structural Engineer—W. P. Day, Financial Center Bldg., S. F.

Mechanical Engineer—Atkins & Parker, Hobart Bldg., San Francisco.

Following contractors will submit bids:

Lindgren & Swinerton, Inc., 225 Bush Cahill Bros., 206 Sansome St.
 Clinton Constr. Co., 903 Folsom St.
 Dinwiddie Constr. Co., Crocker Bldg.
 Bids will be opened in the architect's office.

Plans Being Completed.

MEMORIAL HALL Cost, \$16,000
RED BLUFF, Tehama Co., Cal.

Remodel school for Veterans' Memorial (brick construction, 60x80 feet); stucco exterior, maple flooring, hot air heating system, composition roof.

Owner—County of Tehama.

Architect—Dragon & Schmidts, Mercantile Bank Bldg., Berkeley.

Bids will be asked within one week.

9—HOSPITALS

March 31, 1933

Planned.
ADDITION Cost, \$—

JUNEAU, Alaska.

Three-story fireproof addition to hospital (\$5x40) X-ray laboratory,

surgery rooms, ultra-violet ray laboratory, etc.)

Owner—Sisters of St. Ann.
Architect—Not Given.
(1074) 9

Contract Awarded.

ALTERATIONS Cost, \$2500
OAKLAND, Alameda Co., Calif. 3595
66th Avenue.

Alterations and additions to building.
Owner—Children's Home Society of
California, 3595 66th Ave., Oak-
land.

Architect—Not Given.

Contractor—Harold L. Paige, 5651 Oak
Grove Ave., Oakland.

Bid Opening Postponed Until June 14,
2:30 P. M.

PSYCHOPATHIC BLDG. Cost, \$—
SAN FRANCISCO. Potrero Ave. and
Twenty-second Street.

Five-story Class A steel frame and re-
inforced concrete psychopathic in-
stitute building, (tar and gravel
roof, steam heating system to con-
nect to main plant, etc.)

Owner—City and County of San Fran-
cisco.

Architect—Alfred I. Coffey and Martin
J. Rist, associated, Phelan Bldg.

Structural Engineer—H. J. Brunner,
Sharon Bldg.

Mechanical Engineer—Hunter & Hud-
son, 41 Sutter St.

TURNER, Oregon — Plans are mat-
terializing for the erection of a \$100,-
000 home for the needy, near the tab-
ernacle grounds at Turner, Oregon.
Building will be financed by a bequest
in the will of the late Cornelia Ann
Davis. The Christian church has been
named as trustee.

WOODLAND, Yolo Co., Cal.—Yolo
County Supervisors will take im-
mediate steps toward installing a
fire protection system in the County
Hospital at Woodland. It has been
recommended that if no funds are
available money should be taken from
the unbudgeted reserve.

12—POWER PLANTS

LOS ANGELES, Cal.—Until 2 P. M.,
April 13, bids will be received by the
Metropolitan Water District, 306 W
Third St., Los Angeles, for the con-
struction of sub-stations on the Mecca
Pass-Colorado River transmission line
of the Colorado River Aqueduct. Two
substations will be 66 to 33 kv. sta-
tions, one located at Hayfield and one
at Granite; one, located at Parker,
will be 33 to 11.5 kv.; and 14 small
distribution stations scattered along
the line, some portable, of 33 to 2.4
kv. Specifications No. 23, prepared
by J. M. Gaylord, Chief Electrical
Engineer, may be obtained at room
1004, 306 W 3rd St., upon payment of
\$5. The district will furnish all ma-
jor equipment, including transformers,
copper conductor, insulators and poles
required, previous purchases covering
the requirements. The contractor will
furnish incidental materials, includ-
ing some concrete, light structural
steel, etc. F. E. Weymouth is the
General Manager and Chief Engineer.

**MONTEBELLO, Los Angeles Co.,
Calif.**—James Noon, 291 E Vineland
Ave., Baldwin Park, submitted only
bid to city council March 27 at \$1650
for constructing a building to house
the motors, etc., for the proposed mu-
nicipal light plant to be built at
Greenwood Ave. and the U. P. tracks,
Montebello. The building will be 32x
43-ft., of brick construction, composi-
tion roofing, cement floors, etc.

VERNON, Los Angeles Co., Calif.—
Anton Johnson Co., 921 Monterey Rd.,

South Pasadena, awarded contract by
city council March 27 at \$7289 for con-
structing a reinforced concrete cir-
culating water basin for the Diesel
generating and distributing station of
the municipal power plant, Spec. No.
65. The proposed structure, which
will be erected in the Power House
Yard, NE corner Seville Ave. and
50th St., will be of rectangular shape,
80.5x43 ft., and about 14 ft. deep, with
cover. H. S. McCurdy, city engineer,
prepared the plans.

PASADENA, Los Angeles Co., Cal.
—Until 11 A. M., April 21 (readver-
tisement), bids will be received by
Bessie Chamberlain, City Clerk, Room
218, City Hall, for furnishing trans-
formers in accordance with specifica-
tions which may be obtained from the
office of the Superintendent of the Mu-
nicipal Light and Power Department,
Benj. F. Delanty. Certificate of de-
posit, certified check or draft, or
cashier's check for 5% must accom-
pany each bid.

**PASO ROBLES, San Luis Obispo
Co., Ca.**—Fairbanks Morse Co., Spear
and Harrison Sts., San Francisco, at
\$12,689 submitted low bid to city coun-
cil to furnish and install power equip-
ment consisting of Diesel engine,
water pumps and electric motor. Com-
plete bids follow:

Fairbanks Morse Co., S. F.	(1) \$12,689
	(2) 11,401
You dall Constr. Co., S. F.	(1) 13,225
	(2) 13,725
Superior, Los Angeles	(1) 13,536
	(2) 12,000
Utilities Co., S. F.	(1) 13,900
	(2) 13,500
Union Machine Co., S. F.	(1) 14,500
Worthington, L. A.	(1) 16,798
	(2) 17,798

Bids held under advisement until
April 7.

VERNON, Los Angeles Co., Calif.—
Ohio Brass Co., 417 S Hill St., Los
Angeles, awarded contract by the city
council to furnish insulators and ac-
cessories under Spec. No. 67.

Bids Rejected.

GENERATOR, SET, Etc. Cost, \$—
SAN FRANCISCO. Letterman Gen-
eral Hospital.

Steam turbine generator (100-kw.) and
new turbine end for 200-kw. gener-
ator (work consists of air re-
duction gear and generator, pip-
ing, new switchboard panel with
instruments, gate valves, etc.)

Owner—United States Government.
Plans by Construction Quartermaster,
Fort Mason.

Specifications will be modified and
new bids asked in about one week.
Bids will be asked for furnishing
equipment only, installation to be done
by owner's own forces. On previous
bid opening lowest bid was submitted
by De Laval Steam Turbine Co., 61
Beale St., at \$10,790.

**MONTEBELLO, Los Angeles Co.,
Cal.**—All bids for constructing a city
light plant, opened by city council on
March 27, rejected April 3. Hearing
on the injunction suit brought by tax-
payers will be held in Department 8
of the Superior Court April 5.

13—PUBLIC BUILDINGS FIRE HOUSES & JAILS

LOS ANGELES, Cal.—Wm. David-
son, Los Angeles county mechanical
engineer, Hall of Records, has been
ordered by the county supervisors to
prepare plans for the removal of the
roof and one or two floors of the old
county courthouse at Temple St. and
Broadway. Mr. Davidson estimates
removing the roof and one story will

cost \$30,853, and removing the roof
and two stories, \$59,093. Estimates in-
clude re-roofing after the floors have
been removed. Upon completion of
the plans, alternate bids will be tak-
en on both plans.

To Ask Bids Next Week.

ALTERATIONS Cost, \$25,000
SAN FRANCISCO. Municipal Audi-
torium.

Remodel 3rd and 4th floors of the Mu-
nicipal Auditorium (house offices
of the Board of Education).

Owner—City and County of San Fran-
cisco.

Plans by Bureau of Architecture
(Charles Sawyer, architect) City
Hall.

Bids Opened.

FIRE HOUSE Cost, \$—
SACRAMENTO, Sacramento Co., Cal.
Sacramento Blvd. and Sixth Ave.

One-story frame and stucco firehouse
(single community building).

Owner—City of Sacramento.
Architect—Starks & Flanders, Forum
Bldg., Sacramento.

Low Bidder—H. W. Robertson, 3004
F St., Sacramento.

Following bids received:

H. W. Robertson, Sacramento	\$3200
W. C. Keating, Sacramento	8350
Chas. F. Unger, Sacramento	8584
Azevedo & Sarmiento, Sacramento	8800
Henry Finnigan, Sacramento	8963
George W. Kopp, Sacramento	8949
L. F. Gould, Sacramento	8943
Fred Betz, Sacramento	9245
C. J. Hopkinson, Sacramento	9484
F. A. Holcener, Sacramento	9623
Wm. Murcell, Sacramento	9664

Plans Being Prepared.

LIBRARY Cost, \$75,000
EVERETT, Washington. SW Hoyt
and Everett Avenues.

Two-story library (concrete or mill
faced with brick).

Owner—City of Seattle (Mrs. D. B.
McIlravy, president of Library Trus-
tees).

Architect—Bebb & Gould, Hoge Bldg.,
Seattle, Wash.

Preparing Plans.

ALTERATIONS Cost, \$100,000
PORTLAND, Oregon.

Reconstruction of interior of city hall.
Owner—City of Portland.

Architect—Doyle & Associates Pacific
Bldg., Portland.

City council passed an emergency
ordinance authorizing this work. City-
County scrip to be used as the me-
dium of payment.

Planned.

CITY HALL Cost, \$—
ALVISO, Santa Clara Co., Calif.

New city hall.
Owner—City of Alviso.

Architect—Not Selected.

14—RESIDENCES

Contract Awarded.

ADDITION Cost, \$1422
WOODSIDE, San Mateo Co., Cal.
Woodside Heights.

Alterations and additions to frame
residence.

Owner—Hazel King Bakewell.
Architect — Bakewell & Weihe, 251
Kearny St., San Francisco.

Contractor—Frank A. Marshall, Al-
mondal Ave., Atherton.

To Be Done By Day's Work.

RESIDENCE Cost, \$6000
SACRAMENTO, Sacramento Co., Cal.
No. 971 Forty-second Street.

Owner and Builder—W. C. Keating &
H. Sollenberger, Forum Building,
Sacramento.

Plans by Owner.

April 6, 1933

Contract Awarded.
RESIDENCE Cost, \$4000
SAN JOSE, Santa Clara Co., Cal. No. 386 Polhemus Street.
One-story and basement frame and stucco residence (6 rooms).
Owner—Dan Schafanal.
Architect—Not Given.
Contractor—Joseph Santi, 545 Marenda Ave., San Jose.

Contract Awarded.
RESIDENCE Cost, \$3500
PALO ALTO, Santa Clara Co., Cal.
One-story frame and stucco residence (6 rooms) tile roof, steel sash, hardwood trim, tile bath, patio Spanish type.
Owner—D. Carcy.
Plans by I. M. Jones, Palo Alto.
Contractor—Vance M. Brown, 532 Emerson St., Palo Alto.

Sub-Contracts Awarded.
RESIDENCE Cost, \$5000
BERKELEY, Alameda Co., Calif. 484 Cragmont Avenue.
Two-story frame and stucco residence (six rooms) tile and composition roof, gas heat, hardwood floors, colored tile baths, etc.
Owner and Builder—Confer & Walker, 5130 Keith Ave., Oakland.
Architect—E. L. Snyder, 2102 Addison St., Berkeley.
Concrete—A. A. Johnson.
Plumbing—J. R. Pierce, 7109 E 14th St., Oakland.
Lumber—Tilden Lumber Co., 400 High St., Oakland.
Heating—J. C. Owens, 950 30th St., Oakland.
Sheet Metal and Steel Sash—Michel & Pfeffer Iron Works, Harrison and 10th Sts., San Francisco.
Roofing—W. L. Ridout, 641 Central Ave., Alameda.
Shakes—Marshall Shingle Co., 3729 Telegraph Ave., Oakland.
Brick Work—Morgan Brothers.
Sub-bids are wanted on electrical work, painting, hardwood flooring and glazing.

Contract Awarded.
RESIDENCES Cost each \$10,000
SAN FRANCISCO, S Marina Blvd. W Divisadero St.
Two two-story and basement frame and stucco residences (7 rooms each).
Owner—M. Howes, 530 Mason Street.
Architect—A. H. Lamb, 530 Mason St.
Contractor—R. H. Branch, 2901 Van Ness Avenue.
Sub-bids will be taken within a few days.

Sub-Bids Wanted.
RESIDENCE Cost, \$5000
BERKELEY, Alameda Co., Cal. No. 815 Regal Road.
One-story and basement frame and stucco residence (6 rooms) Spanish type, tile roof, gas furnace, hardwood floors, etc.
Owner and Builder—Milton S. Bond, 2396 Hilgard Ave., Berkeley.
Plans by Owner.
Lumber—Hogan Lumber Co., 2nd and Alice Sts., Oakland.
Carpentry—Porter & Co., Premises.
Excavation—J. Henry Harris, 2203 Roosevelt Ave., Berkeley.

Contract Awarded.
RESIDENCE Cost, \$6000
BERKELEY, Alameda County, Calif. Brookside Drive W Claremont.
Two-story frame and stucco residence (6 rooms).
Owner—Whalen & Hufschmidt, 89 Nova Drive, Piedmont.
Plans by Owner.
Contractor—E. M. Williamson, 3761 Allendale Ave., Oakland.

Sub-Contracts Awarded.
RESIDENCE Cost, \$—
ALAMEDA, Alameda Co., Cal. No. 1007 Lincoln Avenue.
One-story and basement frame and stucco residence (5 rooms).
Owner—N. Armour.
Architect—Not Given.
Contractor—P. Royal Haulman, 1245 Broadway, Oakland.
Sheet Metal—Frank Christoph, 3441 Salisbury St., Oakland.
Plumbing—A. R. Cranston, 2124 San Jose Ave., Alameda.
Brick—Morgan Bros., 2205 84th Ave., Oakland.
Composition Roofing—Calissa Bros., Alameda.
Painting—Roy Clovis & Son, 526-B Central Ave., Alameda.
Tile Roofing—W. L. Saxby, 4533 Fleming Ave., Oakland.

Contract Awarded.
ALTERATIONS Cost, \$1500
SAN FRANCISCO, No. 49 Hartford Street.
Alterations to frame residence.
Owner—C. Stapleton, 49 Hartford St., San Francisco.
Architect—Not Given.
Contractor—Better Homes Improvement Co., 557 Market St., San Francisco.

Low Bidder.
RESIDENCE Cost, \$6000
BERKELEY, Alameda Co., Cal. Grizzly Peak Blvd.
One-story and basement frame and stucco residence (6 rooms) shingle roof, gas heating system, plastered exterior, colored tile baths, hardwood floors, etc.)
Owner—Edwin Delus.
Architect—William Rich, Orinda.
Low Bidder—L. C. Dawe, 500 Merrlewood St., Oakland.

Contract Awarded.
RESIDENCE Cost, \$6000
MODESTO, Stanislaus Co., Cal. College Avenue.
Two-story frame and stucco residence (7 rooms and 3 baths).
Owner—Dr. and Mrs. Horace L. Hoch, 1320 11th St., Modesto.
Architect—Not Given.
Contractor—Harry Brown, Laurel, Modesto.

To Ask Bids In One Week.
RESIDENCE Cost, \$—
SAN FRANCISCO, W San Andreas Ave. (St. Francis Wood).
Two-story and basement frame and stucco residence (9 rooms and 3 baths) tile roof, canvas walls, oak flooring, electric refrigeration, etc.
Owner—Mr. and Mrs. Thos. C. Boyle.
Architect—H. C. Baumann, 251 Kearny St., San Francisco.
(598) 1st report Feb. 3; 3rd March

Sub-Bids Wanted.
RESIDENCE Cost, \$6000
SAN FRANCISCO, NE 20th and Vermont Streets.
One-story and basement frame and stucco residence (7 rooms) composition wood roof, gas heating system, colored tile bath and kitchen, canvass walls, etc.
Owner—A. De Micheli, 527 Lombard Street.
Architect—Charles Strothoff, 2274 15th Street.
Contractor—J. Bettencourt, 422 San Anselmo Ave., San Bruno.
Concrete—Bayshore Concrete Co., 164 Talbert Street.
Lumber—Hobbs Wall Lumber Co., 2350 Jerrold Avenue.
Mill Work—Acme Planning Mill, 1855 San Bruno Ave.
Sub-bids are being taken on sheet metal, brick work, electric wiring, plastering, plumbing and tile work.
(1032) 1st report March 25, 1933. 14

March 31, 1933

Plans Being Figured.
RESIDENCE Cost, \$10,000
BERKELEY, Alameda Co., Cal. Oakmore Highlands.
Two-story and basement frame and stucco residence (10 rooms and 3 baths) shakes roof, gas hot air heating system, colored tile baths.
Owner—Dr. H. McKay Pler, 2206 Hopkins St., Oakland.
Architect—E. L. Snyder, 2102 Shattuck Ave., Berkeley.
(1085) 14

March 31, 1933

Plans Being Prepared.
RESIDENCE Cost, \$5000
OAKLAND, Alameda Co., Cal. Mountain Highlands.
Two-story frame and stucco residence (6 rooms) tile roof, hot air heating system, hardwood floors, tiled baths, etc.
Owner—Withheld.
Architect—W. E. Schirmer, Financial Center Bldg., Oakland.
(1084) 14

March 31, 1933

Planned.
RESIDENCE Cost, \$80,000
NORTH BEND, Ore. Tenmile Lake.
Large summer home.
Owner—R. G. Currier, Los Angeles and Hollywood.
Architect—Withheld.
(1077- 14

April 3, 1933

Foundation Contract Awarded.
RESIDENCE Cost, \$6200
SAN MATEO, San Mateo Co., Calif. Baywood Park.
Two-story and basement frame and stucco residence (10 rooms and 3 baths) tile roof, hot air heating system, oak floors, electric refrigeration, etc.
Owner—T. J. Duffy.
Architect—C. Hugh Kirk, Los Angeles
Contractor—Henry Voelker, 805 Winchester Drive, Burlingame.
Foundations—G. Bragato, 363 N Eldorado, San Mateo.
As previously reported, lumber contract awarded to Loop Lbr. Co., Central Basin, San Francisco.
Sub-bids are being taken on other portions of the work.

Low Bidder.
RESIDENCE Cost, \$6000
SAN FRANCISCO, Edgehill Road.
One and one-half-story and basement frame and stucco residence (six rooms) asbestos shingle roof, gas heating system, hardwood floors.
Owner—R. A. Davis.
Architect—Hardman & Russ, Berkeley Bank Bldg., Berkeley.
Low Bidder—Moore and Roberts, 693 Mission Street.

Sub-Bids Being Taken.
RESIDENCE Cost, \$—
SAN FRANCISCO, Ninth Avenue.
One-story and basement frame and stucco residence (6 rooms) Spanish type (social room, tile and composition roof, gas heating system, tiled bath, canvas walls, hardwood floors, etc.)
Owner & Builder—C. O. Blincoe, 2663 15th Avenue.
Architect—Sydney Colton, 544 Market Street.

Sub-Contracts Awarded.
RESIDENCE Cost, \$6000
BERKELEY, Alameda Co., Cal. Miller Ave., Cragmont Tract.
Two-story and basement frame and stucco residence (7 rooms).
Owner—James Thomas, 948 Hilldale Ave., Berkeley.
Architect—E. L. Snyder, 2102 Addison St., Berkeley.
Contractor—Geo. Windsor, 928 Kings-ton Ave., Piedmont.

Concrete—Triberti and Massaro, 959 38th St., Oakland.
Millwork—Atkinson Mill & Mfg. Co., 2985 Chapman St., Oakland.
Lumber—Sunset Lbr. Co., 400 High St., Oakland.
Plumbing—J. R. Pierce Plumbing Co., 7109 E 14th St., Oakland.
Brick—Paul Bretkopf, 2145 East 23rd St., Oakland.
Painting—Brombren Bros., 1927 Russell St., Berkeley.

Sub-Contracts Awarded.

RESIDENCE C ost. \$—
OAKLAND, Alameda Co., Cal. Morcome Ave. and Simmons St.

Two-story and basement frame and stucco residence (7 rooms).

Owner and Builder—Ernest W. Urch, 1924 50th Ave., Oakland.

Plans by Owner.

Decorating and Painting—R. E. O'Brien, 2151 Buena Vista Ave., Alameda.

Tile—Superior Tile & Products Co., 3743 Broadway, Oakland.

Brick—Gardner E. Marshall, 4539 Virginia Ave., Oakland.

Millwork—Sunset Lbr. Co., 400 High St., Oakland.

Plastering—Harry L. Mortenson, 4060 E 18th St., Oakland.

Heating, Furnace—M. C. Henry, 1183 53rd St., Oakland.

Kitchen Cabinet—Peerless Built-in Fixture Co., 2608 San Pablo Ave., Berkeley.

15—SCHOOLS

March 31, 1933
COMMISSIONED TO PREPARE PLANS

SANTA MONICA, Los Angeles Co., Calif.—Architects Marsh, Smith and Powell, 516 Architects' Bldg., Los Angeles, entered into a contract with the Santa Monica board of education for all architectural work in connection with all repairs and alterations to the Santa Monica schools. 15

March 31, 1933

Sub-Bids Being Taken.
ADDITION Cont. Price, \$15,731
DALY CITY, San Mateo Co., Calif.
 Class C concrete addn. to high school (add six classrooms) wood joists, tile roof, wood and concrete floors, steam heating system, etc.

Owner—Jefferson Union High School District.

Architect—Resing & McGuinness, 488 Pine St., San Francisco.

Contractor—Frank J. Reilly, 6350 Fulton St., San Francisco.

As previously reported, heating contract awarded to O'Mara & Stewart, 218 Clara St., San Francisco, at \$5,977; electric to Central Electric Co., 179 Minna St., San Francisco, at \$1,194; hardware to J. H. Kruse, Treat Ave. and 23rd St., San Francisco, at \$317.50.

(521) 1st report Jan. 27; 11th, Mar. 27, 1933. 16

Planned.

SPRINKLER SYSTEM Cost, \$—
CROCKETT, Contra Costa Co., Calif.
 Installation of a complete sprinkling system in high school bldg.

Owner—John Swett Union High School District.

Plans by Louis Colombo (high school pupil).

LONG BEACH, Cal.—H. B. Nicholson and J. B. Gill Corp., 443 E First St., Long Beach, awarded contract by Long Beach board of education at a total of \$150,677.20 for the construction of 111 bungalows on various Long Beach school sites. They will be frame structures with composition roofing. The bids are: H. B. Nicholson and J. B. Gill Corp., (1) \$821.20 each for 19 single bungalows, (2) \$1468.20 each

for 92 double bungalows; Lynch-Cannon Engr. Co. (1) \$800 (2) \$1500; I. O. Frantz (1) \$848.50; A. B. Stark (1) \$882 (2) \$1725; Security Finance and Bldg. Co. (1) \$882 (2) \$1725; Union Engineering Co., Ltd. (1) \$900 (2) \$1,710; H. Mayson (1) \$909 (2) \$1735; P. F. Pierce (1) \$916 (2) \$1773; Andy Sordal (1) \$909.45 (2) \$1698; C. Haverlandt (1) \$920 (2) \$1798; R. E. Campbell (1) \$973 (2) \$1862; L. W. Porter (1) \$982 (2) \$1890. Chas. W. Pettifer Co. agreed to furnish an organization to construct the bungalows at \$130 per bungalow, cost of the single buildings not to exceed \$880 and the doubles not to exceed \$1680.

SAN FRANCISCO—W. G. Thompson, 336 Church St., at \$271 for the Adams School and \$762 for the Marshall School, submitted low bid to Department of Public Works for painting at the Adams School, Eddy and Polk Sts. and painting at the Marshall School at 15th and Capp Sts. Following bids received:

(1) Adams School;	(2) Marshall School;
W. G. Thompson.....	(1) \$ 271
	(2) 762
Reliable Painting Co.....	(1) 290
	(2) 840
Jesse Shay	(1) 327
	(2) 790
Lee Dixon	(1) 348
	(2) 778
Tozer Company, Inc.....	(1) 395
	(2) 850
Faggione Studios	(1) 444
	(2) 893
American Bldg. Maintenance.....	(1) 450
	(2) 1225
Sam Milon	(1) 460
	(2) 880
V. Eklund & Co.....	(1) 468
	(2) 1177
Dept. of Building Repair.....	(1) 650
	(2) 1150

Bids held under advisement.

SACRAMENTO, Cal.—Clifford Prudhomme, 2620 5th Ave., at \$2700 awarded contract for electric lighting fixtures for the Kit Carson School. The Hobrecht Lighting Fixture Co., 1912 I St., Sacramento, at \$1250 awarded contract for special lighting fixtures for the California School.

BERKELEY, Cal.—Berkeley Board of Education rejected all bids received for auxiliary fire alarm boxes and bell ringing panels enclosed in metal cabinets for the school. New bids will be asked at a later date.

SAN FRANCISCO—West Coast Nursery, 526 Powell St., at \$1083 submitted low bid to Department of Public Works, for planting grounds at the Balboa High School, Onondaga, Cayuga and Otsego Sts. Only other bid was submitted by M. J. Lynch at \$1850. Bids held under advisement.

SAN FRANCISCO.—Square Deal Floor Company, 3223 Broderick St., at \$24 awarded contract by Department of Public Works for sanding 1230 sq. ft. of floor space in the auditorium of the Patrick Henry School.

SAN FRANCISCO—American Building Maintenance Co., 467 O'Farrell St., at \$1550 awarded contract by Department of Public Works for cleaning brick and terra cotta and repainting exterior wood work of the Girls' High School.

SAN FRANCISCO—Rucker Fuller Co., 539 Market St., at \$12,634 awarded contract by Department of Public Works for blackboards for the Franklin, John Swett, Washington, Cleveland, Glen Park and Garfield Schools.

SAN JOSE, Santa Clara Co., Cal.—Until April 11, 5 P. M., bids will be received by Walter L. Bachrodt, secretary, San Jose Board of Education, for school supplies for the school year 1933-34. Specifications on file in the office of the city superintendent of schools.

HOLLISTER, San Benito Co., Cal.—Ladd Hardware Co., Hollister, submitted low bid for athletic supplies and the American Seating Co., San Francisco, submitted low bid for general and janitorial supplies to the County Superintendent of Schools for the school year 1933-34. Milton Bradley Co., 552 Mission St., San Francisco, awarded contract for art and primary supplies.

SACRAMENTO, Cal.—Until April 17, 5 P. M., bids will be received by Chas. C. Hughes, secretary of the Sacramento Board of Education, District School Administration Bldg., 21st and L Sts., Sacramento, for furnishing and delivering 14,000 board feet of Japanese oak and Philippine mahogany wood suitable for the making of furniture, said wood to be F. A. S. grade and of quality and dimensions in conformity with specification and general conditions shown upon proposal blanks which are obtainable from above office.

LOS ANGELES, Cal.—The Comptroller, University of California at Los Angeles, reports that the opening of bids for the construction of an addition to the chemistry building at the university has been indefinitely postponed. Bids were to have been opened at 11 A. M., April 4.

16—BANKS, STORES AND OFFICES

Contract Awarded.
STORE Cost, \$5000
SANTA CLARA, Santa Clara Co., Cal. Fairway Park.
 One-story frame store.
 Owner—Garland B. Hall, San Jose.
 Architect—Not Given.
 Contractor—Gibson Wheeler Co., Inc., Beans Bldg., San Jose.

SEATTLE, Wash.—White Taverns, Ltd. (N. J. Kirk, vice-president. will spend approximately \$75,000 in Seattle for installation work for restaurants throughout the city. A lease has been concluded through the offices of Henry Broderick, Inc., for the building on the northeast corner of 12th Ave. N.E. and E 45th St. Other sites will be selected shortly.

Contract Awarded.
ALTERATIONS Cost, \$3000
SAN FRANCISCO. 250 Montgomery Street.
 Alterations to sandwich shop.
 Owner—B. & G. Sandwich Shops, 258 Ninth Street.
 Architect—Not Given.
 Contractor—A. Wilhelm, 666 Mission Street.

LOS ANGELES, Cal.—R. M. Singer Co., 3923 W 6th St., desires bids for tuck-pointing approx. 18,000 sq. ft. of enameled face brick on a 13-story office building at 7th and Spring Sts., Los Angeles.

Sub-Bids Wanted.
OFFICES Cost, \$10,000
ALAMEDA, Alameda Co., Calif. Regent St. and Central Ave.
 Two-story frame and stucco office building (40x70-ft.)
 Owner—Dr. J. Ohannesson, Alameda.
 Architect—Not Given.
 Contractor—E. F. Henderson, 6433 Chabot Road, Oakland.
 Sub-bids are wanted on all portions of the work.

Contract Awarded.
ALTERATIONS Cost, \$2000
OAKLAND, Alameda Co., Cal. 1601-03
 Telegraph Avenue.
 Alterations to building.
 Owner—Barrett and Hillp, 1629 Tele-
 graph Ave., Oakland.
 Plans by Owner.
 Contractor—Leslie C. Dawe, 361 Per-
 alta Ave., Berkeley.

Contract Awarded.
ALTERATIONS Cost, \$1500
PETALUMA, Sonoma Co., Cal. Main
 St. and Western Ave.
 Alterations to ground floor of Masonic
 temple for drug store (plate glass
 windows, remove brick wall, etc.)
 Owner—L. & M. Drug Store.
 Architect—Not Given.
 Contractor—Vogensen Const. Co., 100
 Washington St., Petaluma.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$7500
OAKLAND, Alameda Co., Calif. 1450
 Broadway.

Alterations to store.
 Owner—Metropolitan Life Insurance
 Company.

Architect—Bliss & Fairweather, Bal-
 boa Bldg., San Francisco.

Lessee—Moore's Store.
 Contractor—H. S. Meinberger, 343 4th
 St., San Francisco.

Plumbing and Heating—Carl T. Doell,
 467 21st St., Oakland.

Bronze—Kawneer Mfg. Co., Eighth
 and Dwight Way, Berkeley.

Glass—Cobbledick - Kibbe Glass Co.,
 301 Washington St., Oakland.

Lumber—Smith Lumber Co., 19th Ave.
 and Estuary, Oakland.

Electric—Scott-Buttner Elec. Co., 19
 Grand Ave., Oakland.

Construction Resumed.
MARKET Cost, \$4500
EL CERRITO, Contra Costa Co., Cal.
 San Pablo Ave. at county line.
 One-story market (90x140 ft.) concrete
 foundations, brick walls, corru-
 gated iron roof, asphalt floors, etc.
 Owner—Yee Shew Lung.
 Plans by L. F. Hyde, 705 25th Street,
 Oakland.
 Manager of Const.—A. A. McDonald,
 premises.

Contracts Awarded.
REMODEL Cost, \$—
SAN FRANCISCO. SW Fourth and
 Mission Streets.
 Alterations to restaurant.
 Owner—Mr. Wright.
 Architect—Not Given.
 Contractor—N. Evanou.
Electric—Aptos Electric Co., 1104 Mis-
 sion St., San Francisco.
Fixtures—J. M. Feldman Co., Inc.,
 1234 Folsom St., San Francisco.

Construction Postponed Temporarily.
STORE Cost, \$—
WATSONVILLE, Santa Cruz Co., Cal.
 One-story reinforced concrete store,
 (35x90 feet) parking facilities, etc.
 Owner—A. P. Beck and W. H. Weeks.
 Architect—W. H. Weeks, 525 Market
 St., San Francisco.
 Lessee—Safeway Stores.

Additional Sub-Contracts Awarded.
STORE Cost, \$22,000
OAKLAND, Alameda Co., Cal. Broad-
 way N 19th Street.
 One-story and basement and mezza-
 nine reinforced concrete store (30
 by 100 feet).
 Owner—Twentieth & Broadway Real-
 ty Co., 1175 Market St., San Fran-
 cisco.
 Architect—Albert Evers, 525 Market
 St., San Francisco.
 Contractor—Lindgren and Swinerton,
 Inc., 225 Bush St., San Francisco.
 Lessee—Kushins Shoe Company.
Granite—Victor Wickman, Rocklin,
 Calif.

Sign Back Glass—MacGruer and Co.,
 266 Tehama St., San Francisco.
 Other awards reported March 22.

Contract Awarded.
ALTERATIONS Cost, \$2650
OAKLAND, Alameda Co., Calif. 2215-
 2221 Hopkins Street.
 Alterations to building.
 Owner—Pacific States Savings & Loan
 Assn., 745 Market St., San Fran-
 cisco.
 Plans by Owner.
 Contractor—Jas. L. Rich, 556 37th St.,
 Oakland.

Contract Awarded.
ALTERATIONS Cost, \$3000
SAN JOSE, Santa Clara Co., Cal. No.
 36 South First St.
 Alterations to building.
 Owner—C. P. Cunningham & Son, San
 Jose.
 Architect—Herman Krause, 237 W-
 San Carlos St., San Jose.
 Contractor—H. A. Bridges, 1398 Lin-
 coln St., San Jose.

LOS ANGELES, Cal.—Until 2 P.
 M., April 17, bids will be received by
 Los Angeles County Supervisors for
 remodeling the Katz building at 434-42
 S. San Pedro St., for the the County
 Welfare Bureau; Specification No. 240
 Bids will be taken as follows:
 Proposal A, work complete.
 Alternate No. 1, deduction for the
 omission of certain counters, doors
 and partitions on the first floor.
 Plans prepared by William David-
 son, Los Angeles County Mechanical
 Engineer, Hall of Records. Work
 not included in this contract is: Ele-
 vator work, painting, heating, and
 sprinkler work, electric wiring and
 fixtures, signal systems and phones,
 floor covering, shades and blinds.
 Building is a six-story Class A struc-
 ture, 150x90 feet in area, will be sub-
 divided into offices, work involving
 cutting and removal of existing con-
 crete, furnishing and placing of new
 concrete and finish cement work, re-
 moval of existig tile partitions, con-
 structing channel stud partitions,
 channel furring, metal lath and plas-
 tering, plaster patching, new tile walls,
 metal and sheet metal, wire glass,
 maze glass, finish hardware and O.
 P. partitions.

Contracts Awarded.
ALTERATIONS Cost, \$2000
SAN FRANCISCO. No. 347 Stockton
 Street.
 Alterations to studios.
 Owner—G. Hansen, % Architect.
 Architect—S. Heiman, 605 Market St.,
 San Francisco.
Carpentry—J. S. Malloch, 666 Mission
 St., San Francisco.
Plumbing, Heating and Wiring—Frank
 J. Klimm, 456 Ellis St., S. F.
 Bids are being received by the arch-
 itect for plastering, tile, painting,
 hardwood floors and lighting fixtures.

To Be Done By Day's Work By Owner
RESTAURANT Cost, \$—
SAN FRANCISCO. Oak, Market and
 Van Ness Ave.
 Installation of new restaurant.
 Owner—White Taverns, Ltd.
 Plans by Owner.

To Be Done By Day's Work.
RESIDENCES Cost \$5000 each
SAN FRANCISCO, S Lincoln Way
 W 24th Ave.
 Three one-story and basement frame
 and stucco residences (5 rooms
 each) tile and composition roof,
 gas heat, hardwood floors, tiled
 baths and kitchens, canvas walls.
 Owner and builder—R. F. Galli, 1574
 28th Avenue.
 Plans by B. K. Dobkowitz, 425 Mon-
 terey Blvd.

Contract Awarded.
PIEDMONT, Alameda Co., Cal., No.
 320 La Salle Street.
 Alterations to residence (roof over
 deck, sun room, etc.)
 Owner—E. T. Tuller, 320 La Salle St.,
 Piedmont.
 Architect—Ray Keefer, 700 Wesley St.,
 Oakland.
 Contractor—C. H. Thomas, 28 Home
 Place, Oakland.

Contract Awarded.
RESIDENCE Cost, \$4000
SAN FRANCISCO. S Chenery St. 66 E
 E Chilton St.
 One-story and basement frame and
 stucco residence.
 Owner—R. A. Helgesson, 1283 16th
 Ave., San Francisco.
 Architect—Not Given.
 Contractor—California Concrete Co.,
 1632 Steiner St., San Francisco.

17—THEATRES

Electrical Contract Awarded.
THEATRE Cost, \$20,000
SONOMA, Sonoma Co., Cal. First St.
 East.
 One - story steel and concrete theatre
 to seat 500; (85x168 feet) large
 room above and stores below.
 Owner—Sam Sabastina, Sonoma.
 Architect—Reid Bros., 105 Montgom-
 ery St., San Francisco.
Electric—H. F. Haverkamp, 1127 Fol-
 som St., San Francisco.
 As previously reported, reinforcing
 steel awarded to Concrete Engr. Co.,
 1280 Indiana St., San Francisco; struc-
 tural steel to Iron Works, 18th and
 Campbell Sts., Oakland.

18—WHARVES & DOCKS

SAN DIEGO, Cal.—Application has
 been made by the Commandant, 11th
 Naval District, San Diego, for War
 Department permit to relocate exist-
 ing fixed moorings Nos. 75, 76, 77, 78
 and 79, and to install additional fixed
 moorings Nos. 63, 64, 65 and 66, south-
 east of the ferry line and Forbidden
 Anchorage in San Diego Bay.

Sub-Contracts Awarded.
GARBAGE WHARF
 Contract Price, \$28,970
OAKLAND, Alameda Co., Calif. Foot
 of Kirkham Street.
 Reinforced concrete garbage wharf
 (creosoted piling, 110x185 feet; five
 dolphins with 16 creosoted piles
 each).
 Owner—City of Oakland (Port Com-
 mission, G. B. Hegardt, Secretary,
 Grove St. Pier), Oakland.
 Plans by Eng. Dept. of City Port
 Commission.
 Contractor—A. W. Kitchen, 110 Mar-
 ket St., San Francisco.
**Cast Iron and Steel Frames for Man-
 holes**—Phoenix Iron Works, 2nd
 and Castro Sts., Oakland.
 Other awards reported Jan. 30.

SALEM, Oregon.—City council will
 seek \$100,000 loan from Reconstruc-
 tion Finance Corp. to construct ter-
 minal pier. Roy Clark, engineer, Port-
 land.

19—MISC. CONSTRUCTION

March 31, 1933
 Bids Wanted—To Close April 18, 11
 A. M.
REPAIRS Cost, \$—
SAN FRANCISCO. Ft. Winfield Scott.
 Repairs to torpedo dock (new creo-
 soted piles and timber bracing,
 etc.)
 Owner—United States Government.
 Plans by Constructing Quartermaster,
 Fort Mason.
 Plans available from above office.
 (997) 1st report March 22, 1933. 18

Sub-Contracts Awarded.

TUNNEL Cost, \$4204
SAN FRANCISCO. Jessie Street.
 Concrete tunnel under Jessie St. connecting the Emporium building basement and Hulse-Bradford building basement.

Owner—The Emporium, 835 Market St.
 Engineer—C. H. Snyder, 251 Kearny Street.

Contractor—Theo. Cohn, Russ Bldg.
Electric—Reliable Electric Co., 1277 Howard St.

Sprinkler System—George M. Robinson, 389 Clementina St.

Plumbing—J. Gibbs Sons, 1706 Geary.
Concrete—Readymix Conc. Co., Carolina and Mariposa Sts.

As previously reported reinforcing steel awarded to W. S. Wetenhall 17th and Wisconsin Sts.

Contract Awarded.

REMODEL Cost, \$—
PORTLAND, Oreg. Marshall and 20th Streets.

Remodel ice hippodrome for wrestling and boxing arena (6129 seating capacity).

Owner—Withheld.

Architect—Not Given.

Contractor—L. H. Hoffman Co., Public Service Bldg., Portland.

SANTA BARBARA, Calif.—Robert Paterson, 1911 San Andreas Street, Santa Barbara, awarded contract by Santa Barbara city council at \$1280 for construction of a comfort station and dressing rooms for the soccer field located near East Cabrillo pavilion, Santa Barbara.

Contract Awarded.

CHAPEL, ETC. Cost, \$—
VAN NUYS, Los Angeles Co., Calif.
 Oakwood Memorial Park.

One-story frame and brick veneer chapel, crematory, columbarium, etc. (tile roofs, Celotex insulation, metal fire doors, gas radiators, septic tanks, marble crypt fronts.)

Owner—Oakwood Memorial Park, Inc., Rowan Bldg., Los Angeles.
 Architect—Not Given.

Contractor—George H. Fruehling, 700 S La Brea Ave., Los Angeles.

SACRAMENTO, Cal.—Charles Mackell, Sacramento, offered to pay the County of Sacramento \$515 for right to salvage material in the old structures on the Sacramento County Hospital grounds. Only other bid was submitted by Stokesberry Lumber & Wrecking Company at \$106.

Permit Granted.

AMUSEMENT PARK Cost, \$100,000
SAN FRANCISCO. Fifteenth and Valencia Streets.

Group of amusement buildings (probable frame and stucco construction) various concessions, etc.

Owner—Ray Stevens and H. D. Nelson 2201 33rd Ave., San Francisco.

Architect—William I. Garren, 233 Post St., San Francisco.

Permit to operate was granted by the Police Commission.

Preliminary plans are being prepared. Construction will not start for sixty or ninety days.

SALT LAKE CITY, Utah—Following have procured plans for the purpose of submitting bids to the Superintendent of Construction, Veterans Administration Hospital, Palo Alto, on April 17 for furnishing and installing lawn sprinkling system at the Veterans Administration Hospital, Salt Lake City:

H. C. Miller, Santa Clara.
 Crane Co., 301 Brannan St., San Francisco.

J. A. Fazio, 402 Castro St., Oakland.
 Pacific Irrigation Co., 7 Front St., San Francisco.

Brooks of California, 142 So. La Brea Los Angeles.

G. E. Moody, Los Angeles.
 Sanitary Plumbing & Heating Co., Salt Lake City.

Peterson Bros., Inglewood.
 A. H. Walsh Plumbing Co.
 National Sprinkler Co., Los Angeles

Hadden Co., Alhambra.
 Bailey & Sons, Salt Lake City

K. & K. Plumbing & Heating Co., Salt Lake City.

P. L. Burr, 320 Market St., San Francisco.

Carl Pieper, Salt Lake City.
 Skinner Irrigation Co., Troy, Ohio.

N. O. Nelson Mfg. Co., Salt Lake City.

Sunset Mfg. Co., San Francisco.

SUNNYVALE, Santa Clara Co., Cal.

—Roy M. Butcher, 1020 Sherwood Ave. San Jose, at \$485 submitted low bid to Public Works Officer, 12th Naval District, San Francisco, for additional telephone facilities at the Naval Air Station, Sunnyvale. Specification No. 7258. Work includes provision and installation of a 50 pair telephone cable in existing duct system and additional conduit work within the hangar. Following bids received:

Roy M. Butcher, San Jose.....	\$ 485
Matson-Seabrooke Co., Oakland..	592
Butte E. E. Co., S. F.....	678
W. B. Baker, San Francisco.....	748
R. G. Whinery, Los Angeles.....	890
O. G. Ritchie, San Jose.....	960
City Improvement Co., Berkeley	1049
Butte Elec. & Mfg. Co., S. F.....	1067

Bids held under advisement.

20—MISC. SUPPLIES AND MATERIALS**PASADENA, Los Angeles Co., Cal.**

—Identical bids submitted to city clerk April 1 for furnishing lead-covered copper cable follow:

(1) 8097 feet 3-conductor, sector, standard 400,000 circular mil, type standard 500,000 circular mil, type H, 23,000-volt cable on 29 reels;
 (2) 9055 feet 3-conductor, sector standard 500,000 circular mil, type H, 23,000-volt cable on 23 reels.

The bidders follow: General Electric Co., Okonite Co., General Electric Supply Co., Graybar Electric Co., Garnet & Young Co., General Cable Corp., Columbia Steel Co. and John A. Roebblings Sons Co. The bids were: (1) \$2009, total \$16,266.87 credit for return of reels \$1559; (2) \$2009, total \$18,251.76 credit for return of reels \$1749; (3) combination bid of items (1) and (2) \$2009, total \$34,518.63, credit for return of reels \$3308.

Bids were taken under advisement.

ALBUQUERQUE, New Mexico

—Until April 13, bids will be received at the U. S. Indian Vocational School, Albuquerque, for various electrical supplies, involving: Wire; conduit, fuses, etc. H. W. Camp, Superintendent.

SAN FRANCISCO—Until April 14, 3 P. M., under Bid No. 986, bids will be received by T. A. Brooks, City Purchasing Agent, to furnish Linseed Oil, Shellac, Turpentine, Lead, Litharge and Putty for the term, May 1 to August 31, 1933. Specifications obtainable from above office.

FT. HALL, Ida.—Until Apr. 12, bids will be received by Superintendent, Ft. Hall Indian Agency, to furnish 30,000 lbs. fence wire, No. 12½ with No. 10 top and bottom wires, intermediate stay No. 12½, height 32-in., 6-in. stay, galv. Also one grain binder, 6-ft. complete. Specifications obtainable from above.

PANAMA CANAL ZONE.—Until April 17, 10:30 A. M., under Schedule No. 2856, bids will be received by the General Purchasing Officer, Panama Canal Zone, Washington, D. C., to furnish miscellaneous supplies and equipment. Specifications obtainable from above office.

PANAMA CANAL ZONE.—Until April 14, 10:30 A. M., under Schedule No. 2854, bids will be received by the General Purchasing Officer, Panama Canal Zone, Washington, D. C., to furnish miscellaneous supplies and equipment. Specifications obtainable from above office.

BREMERTON, Wash.—Until Apr. 10 10 A. M., under Reg. No. NSA-8/8815, bids will be received by Supply Officer, Puget Sound Navy Yard, to furnish 600 lin. ft. flat bar, 2x¾-in. black grade M, stock lengths. Delivery May 1 f.o.b. above or f.o.b. carrier at or near contractor's works.

LOS ANGELES, Cal.—Union Oil Co. of California at \$120,000 (est. total) awarded contract by A. J. Holm, city purchasing agent, April 3, to furnish gasoline for 12 months period to Water and Power Department. Specification No. 3020. Bids were opened Mar. 17.

ALAMEDA, Cal.—E. T. Lesure, 87 Ross Circle, Oakland, at \$2280 submitted low bid to and recommended for award by U. S. Bureau of Public Roads, San Francisco, for erection of units 27, 28 and 29, fire hose houses on the U. S. 15-acre tract, Government Island, Alameda. Complete bids follow:

E. T. Lesure, Oakland.....	\$2280
Schuler & McDonald, Oakland....	2673
Alfred J. Hopper, Pleasant Valley	2895
Engineer's Estimate	1950

LOS ANGELES, Cal.—Until 2 P. M.

April 17 (postponed from April 10) bids will be received by county supervisors for furnishing cement to be used in construction of San Gabriel Dam No. 1. Bids will be taken as follows:

Alt. No. 1—12,000 barrels of cement in cloth sacks f.o.b. railroad cars at mill of bidder.

Alt. No. 2—12,000 do f.o.b. truck at mill of bidder.

PROPOSAL NO. 2

Alt. No. 1—24,000 barrels of cement in cloth sacks f.o.b. railroad cars at mill of bidder.

Alt. No. 2—24,000 do f.o.b. trucks at mill of bidder.

E. C. Eaton, 202 N Broadway, the county flood control engineer.

20

SAN PEDRO, Los Angeles Co., Cal.

—Until Friday, April 14, bids will be received by the Quartermaster, Fort McArthur, San Pedro, for 2562 lineal feet on 7-foot fence, 2 gates and 9 posts; and 923 lineal feet of 3½-foot fence, 7 gates and 15 posts; Clrc. 23.

Painting Contract Awarded.

OFFICERS' QTS. Cont. Price, \$73,968
SAN FRANCISCO. Fort Mason.

Seven sets of two-story and basement officers' quarters (hollow tile construction, Mission stucco exterior, three baths to each set, garage, hot water heating system, etc.)

Owner—United States Government.
 Plans by Constructing Quartermaster, Fort Mason, San Francisco.

Contractor—William Spivock, Hobart Bldg., San Francisco.

Painting—R. P. Paoli, 3159 Fillmore St., San Francisco.

Other awards previously reported.

ENGINEERING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

- | | |
|-------------------------------------|-------------------------------------|
| 21.—Bridges | 30.—Reservoirs and Dams |
| 22.—Dredging, Harbor Works, Excava. | 31.—Pile Lines and Wells |
| 23.—Irrigation Proj. | 32.—Sewers & Sewage Disposal Plants |
| 24.—St. Lght. Systems | 33.—Water Works |
| 25.—Machinery and Equipment | 34.—Parks & Play-grounds |
| 26.—Railroads | 35.—Tunnels |
| 27.—Fire Alarm Sys. | |
| 28.—Fire Equipment | |
| 29.—Streets & Highways | |

21—BRIDGES

SANTA CLARA COUNTY, Cal.—Until April 26, 2 P. M., bids will be received by State Highway Commission, Sacramento, to construct an undergrade crossing under the tracks of the Southern Pacific railroad near Madrone, consisting of two concrete abutments with wing walls, installing drainage system, and pumping equipment, and grading and paving approximately .74 mi. of roadway with Protland cement concrete, involving:

- (1) 430 class #1 trees remove and dispose of;
- (2) 8 class #2 do;
- (3) 31,700 cu. yds. rdwy. excav.;
- (4) 2,693,987 sa. yds. overhaul;
- (5) 1600 cu. yds. struc. excav.;
- (6) 1000 cu. yds. ditch excav.;
- (7) 880 cu. yds. class B Port. cem. concrete;
- (8) 63 cu. yds. class A do (struc.);
- (9) 3210 cu. yds. do (pave.);
- (10) 260 cu. yds. class A Portland cem. conc. (curbs and gutters);
- (11) 126,000 lbs. bar reinf. steel;
- (12) 2080 lbs. cast steel (catchbasin frames and covers);
- (13) 6000 tons cru. run base;
- (14) 600 tons asph. conc. pavement;
- (15) 565 lin. ft. 8-in. perf. metal pipe;
- (16) 2650 lin. ft. 10-in. do;
- (17) 400 lin. ft. 8-in. corru. metal pipe
- (18) 320 lin. ft. 10-in. do;
- (19) 65 lin. ft. 12-in. do;
- (20) 200 lin. ft. 18-in. do;
- (21) 96 lin. ft. 24-in. do;
- (22) 323 lin. ft. 12-in. extra strength reinf. conc. pipe;
- (23) 2 12-in. extra str. reinf. conc. 90° ells;
- (24) 2 30-in. x 6-ft. reinf. conc. basins with lids;
- (25) 240 lin. ft. 8-in. cast iron pipe;
- (26) 2770 lin. ft. 1¼-in. c. i. Irrig. pipe
- (27) 110 lin. ft. 2-in. do;
- (28) 24 irrigation outlets;
- (29) 720 cu. yds. rock filling material;
- (30) 32 lin. ft. hand rail;
- (31) 1 lot pumping equipment complete (2 units);
- (32) 830 cu. yds. old pavement to be removed, crushed and stockpiled;
- (33) 45 sta. finish roadway;
- (34) .161 mi. new property fence;
- (35) 1 16-ft. x 58-in. tubular steel gate
- (36) 2 12-ft. x 58-in. do;
- (37) 20 mounments complete in place;
- (38) 175 sq. yds. waterproofing;
- (39) 1 lot misc. items of work.

State will furnish corrugated metal pipe, perforated metal pips for underdrain.

SEWARD, Alaska—Bids will be called about April 15 and a contract awarded about July 1 for the placing of about 2000 cu. yds. of armor rock on the existing breakwater (580 feet long) at Resurrection Bay, Seward.

C. L. Sturdevant, Lt.-Col., Corps of Engineers, District Engineer, 412 Federal Office Bldg., Seattle, Wash.

SANDPOINT, Ida.—Until April 20, 2 P. M., bids will be received by Bonner county commissioners to construct concrete piers, steel superstructure and timber deck of 102-ft. bascule span under Sec. 3, Sandpoint Bridge, North and South Highway, involving:

- (1) 400 cu. yds. struc. excav.;
- (2) 110 pieces drive foundation piles;
- (3) 20 cu. yds. Class A concrete;
- (4) 484 cu. yds. Class B concrete;
- (5) 150 cu. yds. seal concrete;
- (6) 25,000 lbs. reinf. steel;
- (7) 152,000 lbs. struc. steel;
- (8) 30,000 M. ft. b.m. untreated timber (place and paint only);
- (9) operating equip., lump sum;
- (10) 5 tons scrap iron.

Specifications obtainable from the above on deposit of \$5. Certified check 5% required with bid.

PORTLAND, Ore.—As previously reported, Guy F. Atkinson Co., 658 Russ Bldg., San Francisco, at \$1,686,403.50 submitted low bid to U. S. Engineer Office, Portland, to repair South Jetty at mouth of Columbia River, Oregon and Washington, involving furnishing and placing 1,250,000 tons of stone. Complete bids follow:

Guy F. Atkinson Co., San Francisco, \$1,686,403.40.
 Winston Bros. Co., Minneapolis, \$1,710,810.
 Daniel Kern & Columbia Contract Co., Portland, \$2,211,680.
 Northwest Roads Co., Portland, \$2,448,092.
 Government Estimate, \$2,032,222.

LOS ANGELES, Cal.—R. E. Campbell, Central Bldg., Los Angeles, was awarded contract by board of public works April 3 at \$209,960.01 (without structural steel and ornamental lighting system, and based on the lowest possible combination of alternatives) for the construction of the Sunset Blvd. and Silver Lake Blvd. and the Silver Lake Blvd. and Temple Street Grade Separations, under cash contract. The award was based on Units I, III and VIII, the latter a deduction of \$2000 for combined award.

Consolidated Steel Corp., 6500 East Slauson Ave., Los Angeles, awarded contract on structural steel at \$53,400. This figure was a combination of \$20,323 on Unit No. 2, \$33,458 on Unit No. 4, less a deduction of \$381 for combined award.

W. H. Rumble, 6507 Haas Avenue, awarded contract for the ornamental lighting system (Unit No. 5) at \$28,980.

The total of bids amounts to \$292,340.01.

CAPITAL CITY TITLE COMPANY

J. C. PALEN,
 Manager

914 Seventh Street
 Sacramento :: California

24—ST. LIGHT. SYSTEMS

LOS ANGELES, Calif.—Until 10 A. M., April 12, bids will be received by board of public works for the installation of ornamental concrete work and an ornamental lighting system in Whittier Blvd. bet. Boyle Ave. and Inez St. Cash contract for the east approach to the 6th St. Viaduct, involving:

- (1) ornamental conc. work (art. stone)
- (2) electric conduit system;
- (3) ornamental lighting stand., pylons and ornamental lighting units.

Plans prepared by R. W. Stewart, engineer of bridges and structures. The proposed work will consist of two concrete pylons at Boyle Ave., including bronze lighting units with special concrete bases, the lighting conduit, concrete curved hand rail, and nine Marbelite or equal concrete standards of special design.

25—MACHINERY AND EQUIPMENT

LOS ANGELES, Calif.—Southwestern Engr. Corp., 4800 Santa Fe Ave., will install machinery and equipment in a building located at 5501 Slauson Ave. for the General Air Ice Corp., 514 Merritt Bldg. The plant will have a daily capacity of ten tons, which may be increased to 20 or 30 tons if conditions warrant expansion. The improvements will involve the expenditure of approx. \$85,000. General Air Ice Corp. proposes establishing a plant in Oakland; also one in Seattle or Portland.

SAN FRANCISCO.—Following bids received by T. A. Brooks, City Purchasing Agent, under Bid No. 985 to furnish automobiles for Police Dept.:

- (1) 10 4-cylinder sedans, lump sum;
- (2) 10 6-cylinder do;
- (3) 10 8-cylinder do.

Street & Co., (1) \$5998.45.
 Remensperger Bros., (1) \$6045.45 (2) \$6522.15.

Chevrolet Motor Co., (1) \$5687.
 Earle C. Anthony, (2) \$6385.50, Essex.

J. F. Waters Co., (2) \$6400, Plymouth.

J. W. McAllister Co., (2) \$6400, Plymouth.

J. E. French Co., (2) \$6400, Plymouth.

Kresteller Motor Co. (1) \$5752.50 (3) \$6,174.20.

C. H. Waite Motors, (1) \$5869.25 (3) \$6981.80.

Doherty Bros., (1) \$5812.45 (3) \$6,289.15. Combination 4-8 cylinder and 6-4 cylinder, \$5,788.42.

W. G. Campbell, (1) \$5840.45 (3) \$6317.15

Don Gilmore, Inc., (2) \$5910, Chevrolet.

Figures are net, with turn-in value of eleven cars subtracted. Bids held under advisement.

FRESNO, Cal.—Frank E. Beckett, Fresno, at \$1195 to furnish one truck chassis for fire department awarded contract on Dodge truck. Complete bids follow:

Frank E. Beckett, Inc, Fresno..\$1195.00
 White Co., Fresno..... 1565.38
 Robinson-Marshall Motors Co. 1229.00
 Getchell & Roed, Fresno..... 1688.00
 Logan Auto Co., Fresno..... 1790.00
 Mack Inter. Motor Truck..... 1925.00
 Moreland Motor Truck Co..... 2250.00

SAN FRANCISCO—Following bids received by Quartermaster Supply Officer, Fort Mason, to furnish one tractor complete with power driven crane:

J. P. Adams Co., Indianapolis, Ind., \$4592 (International Harvester) f. o. b. Mansfield, Ohio. None telescopic—not considered.

Joshua Hendy Iron Works, San Francisco, \$5950 (Hendy) f. o. b. San Francisco. Alt. \$5700—engine fitted with Thermo Syphon cooling system in place of a pump.

Honolulu Iron Works—\$5850 (Hendy) f. o. b. S. F. Alt. same as above \$5600

Kratz & McClelland, San Francisco \$5812.50 f. o. b. San Francisco (Silent Hoist & Crane). Alt. \$5087.50 f. o. b. Brooklyn, same, f. o. b., San Francisco \$5337.50.

Bids held under advisement.

30—RESERVOIRS & DAMS

LOS ANGELES, Calif.—H. A. Van Norman, Chief Engineer and General Manager of the Bureau of Water Works and Supply, has been authorized by the board of water commissioners to prepare plans for a rock and earth fill abutment to reinforce the Mulholland Dam above Hollywood. The proposed work will involve approximately:

- 300,000 cu. yds. material;
- Concrete spillway.

The present capacity is 8000 ac. ft. but will be used in the future for only 3000 feet. The work is to be done to satisfy the public, although the dam has been declared safe.

LOS ANGELES, Cal.—Plans for proposed dam at mouth of Eaton Canyon, in the Rancho Santa Anita sent to State Engineer for approval. Dam will be a rolled earth fill dam, 37½ ft. above streambed, with a storage capacity of 1040 ac. ft. The fill will involve 325,000 cu. yds. material. The upstream side of the dam will be faced with either Gunite or poured concrete. The estimated cost is \$441,376.

GLENDALE, Los Angeles Co., Cal. P. Diederich, Superintendent of Plant and Production, is preparing plans for two reservoirs to be built in Brand Park for the park department. They will be of the lined cistern type, one 250,000-gal. capacity, the other 100,000 gallons. The excavation will be done by force account from R.F.C. funds. Bids will probably be taken on the Gunite lining which will be 2½ inches to 3 inches thick. One tank will be built on the 1250-ft. level and the other on the 1600-ft. level.

SEATTLE, Wash.—J. D. Ross, general superintendent, City Light and Power Department, proposed to city council that the city start work on the Ruby Dam and clearing of the reservoir site which extends into Canada. The site is located 7 miles north of Diablo Dam. The cost is estimated at \$18,500,000. Under the proposed plan the city would build the dam and issue serial utility bonds in the sum of \$18,500,000, running 30 years, redemption to start in the 11th year. The Reconstruction Finance Corp. will be asked to purchase the bonds and the federal government asked to assume all interest charges as its contribution toward the cost of flood control.

LOS ANGELES, Cal.—Lowest combination of bids received April 4 to construct a portion of the water supply line and three reservoirs for the Metropolitan Water District follows: Long Transportation Co., 5501 Santa Fe Ave., Los Angeles, Schedule No. 1 water line, \$6420, Schedule No. 2, \$17,797.59. Alex. D. Chalmers and Max

Winter, Jr., 2926 Knox Ave., Los Angeles, low on Schedule No. 3 at \$10,264. This bid is low by reason of stipulations as to combinations of bids in other bidders' figures. Clark and Campbell and A. J. Callahan submitted second low combination at \$9670, \$15,535.30 and \$9805 respectively.

Complete unit and total bids will be published shortly.

31—PIPE LINES & WELLS

SEATTLE, Wash.—Board of Public Works will call bids shortly to construct Cedar River pipe lines Nos. 1 and 2. Estimated cost, \$750,000. M. O. Sylliaasen, city engineer.

33—WATER WORKS

TORRANCE, Los Angeles Co., Cal.—F. B. Leonard, city engineer, has completed plans for a water system to be built under the \$400,000 bond issue voted Sept. 25, 1930. The issue has been validated by the California Supreme Court and an application to the Reconstruction Finance Corp. for funds will probably be made within the next few weeks. The city may consider the purchase of some part of the existing system which is owned by the Torrance Water, Light and Power Co. The company originally offered to sell for \$140,000. The proposed system as planned by the city engineer will involve:

Reinforced concrete reservoir, 29x 167 ft., and 20 ft. deep, with wooden roof.

Elevated steel tank of 250,000-gal. capacity with steel tower 150 ft. high. Three 16-in. diameter wells.

Purification and aeration plants. The aeration plant will be 18x30 ft., one-story. The purification plant will be equipped with chlorinating and ammoniating equipment.

Water distributing system involving 35 miles of cast iron pipe and 1500 services, as follows:

- 48,000 ft. 4-in. C. I. pipe;
- 87,000 ft. 6-in. do;
- 30,950 ft. 8-in. do;
- 10,750 ft. 10-in. do;
- 4,200 ft. 12-in. do;
- 900 ft. 14-in. do;
- 650 ft. 16-in. do;

- 120 4-in. gate valves;
- 135 6-in. gate valves;
- 33 8-in. gate valves;
- 5 12-in. gate valves;
- 3 14-in. gate valves;
- 3 16-in. gate valves.

The 1500 services will include ¾- ½- 1- 1½- 2- 3- and up to 6-in.

SAN FRANCISCO.—As previously reported, until April 12, 3 P. M., bids will be received by Public Utilities Commission, Felton Taylor, secretary, Room 225, City Hall, to construct the Crystal Springs Pumping Station extension, San Francisco Water Department Contract No. 32, involving:

- (1) remove existing structures (lump sum);
- (2) 900 cu. yds. excav., all classes;
- (3) 150 cu. yds. concrete;
- (4) 5,000 lbs. reinf. steel in place;
- (5) 45,000 lbs. furnish and install welded steel pipe and fittings;
- (6) 3000 lbs. furnish and install cast steel fittings;
- (7) 5000 lbs. do semi-steel fittings;
- (8) install pumps, motors, valves & furnish and install misc. equip. (lump sum);
- (9) 130 lin. ft. furnish and install 12-in. cast iron drain pipe;
- (10) 50 lin. ft. 6-in. soil pipe;
- (11) 600 lin. ft. 4-in. do;
- (12) furnish and install septic tank (lump sum);
- (13) 110 lin. ft. furnish and install pipe railing;

(14) electrical work, install equipment, furnished by the City and all other electrical equip. (lump sum);

(15) construct extension to pumping station building stations and alter and repair existing building (lump sum).

Estimated cost, \$27,500. Specifications obtainable from office of the San Francisco Water Department, 425 Mason St., San Francisco.

BELLFLOWER, Los Angeles Co., Calif.—Plans for the replacement of three wood stave tanks, destroyed by the recent earthquake, are being formulated by the Somerset Mutual Water Co. and the Bellflower Water Co., 458 Somerset Ave., Bellflower. The Somerset Company's tanks were of approximately 50,000 gallons each, on elevated towers, one tower being of wood, the other of steel. The Bellflower Company's tank was of wood stave construction. The companies have not determined whether replacements will be of wood stave or steel construction. The replacements proposed will involve construction of some riveted steel pipe and some new cast iron pipe.

E. R. Jones, superintendent of the Somerset Mutual Water Co.

Jack Hammond, superintendent of the Bellflower Water Co.

PALO ALTO, Santa Clara Co., Cal.—Until April 18, 2:30 P. M., bids will be received by Veterans' Administration, Construction Service, Palo Alto, to raze the 100,000-gal. redwood stave water tank and 100-ft. high supporting tower and to re-erect 100,000-gal. redwood stave water tank, including concrete foundations, new roof for tank and connecting pipes, valves and fittings.

Specifications obtainable from above.

OAKLAND, Cal.—All bids rejected by East Bay Municipal Utility District to furnish cast iron pipe for Fairview County Water District. Award of contract was conditional upon acceptance by contractor of \$56,000 bond issue of the district. The low bidder, F. W. Snook of San Francisco, did not conform to this provision, and the one bidder to do so, W. J. Tobin, of Oakland, was second low bidder. New bids may be called in the future, as soon as some plan is worked out by which the award will not be conditional upon the acceptance of bonds in payment for the work.

LOS ANGELES, Calif.—Santa Fe Pipe & Supply Co. awarded contract by Saul Joseph, Purchasing Agent, Metropolitan Water District, room 504 306 W 3rd St., Los Angeles, April 1, at \$1128.96, for furnishing 6400 ft. 4-in. welded steel pipe f.o.b. Los Angeles, under Bid No. 2987.

SAN QUENTIN, Marin Co., Cal.—California Steel Products Co., 452 Bay St., San Francisco, at \$10,477 submitted low bid April 4 to State Department of Public Works, Sacramento, for one water tube boiler at San Quentin. Complete bids follow:
 Calif. Steel Products.....\$10,477
 R. G. Meyler, Los Angeles..... 10,570
 C. C. Moore & Co., S. F..... 11,404
 Dorward Engineering Co., S. F. 13,297
 Consolidated Steel Corp., S. F.... 13,543
 Bids held under advisement.

LOS ANGELES, Calif.—Until 11 A. M., April 12, bids will be received by A. J. Holm, City Purchasing Agent, 107 City Hall, to furnish and deliver to Water and Power Department, f. o. b. warehouse at 1630 N Main Street, galvanized rigid steel conduit in 10-ft. lengths, reamed and threaded with galvanized conduit coupling at onend.

Spec. No. 3049. The items are:

- (1) 5000 ft. 3/4-in. conduit;
- (2) 10,000 ft. 1-in. conduit;
- (3) 4000 ft. 1 1/2-in. conduit;
- (4) 3000 ft. 1 1/2-in. conduit;
- (5) 2000 ft. 2-in. conduit;
- (6) 500 ft. 3-in. conduit;
- (7) 1000 ft. 4-in. conduit;
- (8) 50 ft. 6-in. conduit.

29—STREETS AND HIGHWAYS

LOS ANGELES, Cal.—Geo. R. Curtis Paving Co., 2440 E 26th Street, awarded contract by board of public works March 29, at \$9730.59, for improving Ascot Ave. between 55th St. and Slauson Ave. under cash contract.

MONTEBELLO, Los Angeles Co., Cal.—Until April 17, 7:30 P. M., bids will be received by city council for the furnishing of asphaltic concrete material for the resurfacing of about 300,000 sq. ft. of pavement on East 9th St. bet. 4th St. and the west city limits. The surfacing will vary from 1 1/2- to 2-in., involving approx. 3700 tons of premix material (plant mix) delivered f.o.b. job. The laying will be done by city forces. The city wishes bids on a price per ton delivered at the rate of approx. 200 tons per day. J. L. Cole is the city engineer.

SAN GABRIEL, Los Angeles Co., Cal.—County supervisors have authorized the appropriation of \$9646.06 for street improvement in City of San Gabriel, as follows:

Roses Road (55-ft. roadway) San Marino Ave. to Alhambra Road, 3200 ft. of 30-ft. pavement; 96,000 sq. ft. 1-in. Topeka or 1-in. pre-mix pavement.

Manley Drive (50-ft. roadway) Hale Ave. to Hovey Ave., 133 ft. of 34-ft. pave.; 4526 sq. ft. macadam.

Del Mar Ave. (80-ft. roadway) between Longden Ave. and end of the pavement; 150 ft. of 30-ft. pavement; 4500 sq. ft. of 6-in. pavement.

Santa Anita St. (60-ft. roadway), between Las Tunas Drive and Mission Drive; 1900 ft. of 30-ft. pavement; 38,000 sq. ft. 6-in. rock and oil pavement; 19,000 sq. ft. 4-in. pavement (shoulders). 29

ARIZONA STATE.—The call for bids for Federal Aid Project No. E-40, Schedules 1 and 2, Holbrook-Winslow Highway, previously advertised to be opened by State Highway Commission April 5, has been withdrawn by the department. The state highway engineer, T. S. O'Connell, has announced that this action is due to word received from the U. S. Government advising the state that it would not concur in the award of any new federal aid or emergency contracts until further notice.

SAN FRANCISCO.—Chigris & Sutso, 2211 18th St., at \$795 submitted low bid to Constructing Quartermaster, Fort Mason, for clearing and grubbing land at the San Francisco National Cemetery, Presidio. Following bids received:

Chigris & Sutso	\$ 795
J. P. Lawlor	1,200
P. L. Burr	2,730
James Currie	3,300
Severin Electric Co.	4,389
Fay Improvement Co.	5,555
E. Anderson	5,637
C. J. Haglund	5,840
A. G. Raisch	6,400
William Spivock	6,470
F. M. McGaw	10,000

Bids held under advisement.

LOS ANGELES, Cal.—Geo. R. Curtis Paving Co., 2440 E 26th Street, awarded contract by board of public works March 29 at \$8261.13 for im-

proving 67th St. between Main Street and Broadway, under cash contract.

SAN FRANCISCO.—Fay Imp. Co., Phelan Building, at \$20,275.95 awarded contract by Dept. of Public Works to widen Turk St. from St. Joseph's to Masonic Ave.
Complete bids published March 30.

SAN FRANCISCO.—Until April 12, 2:30 P. M., bids will be received by Department of Public Works, S. J. Hester, secretary, to improve Laidley, Fairmount to Miguel, including crossing Fairmount and Laidley, involving:

- (1) 1400 cu. yds. excavation;
- (2) 220 cu. yds. Class B concrete;
- (3) 16,200 lbs. bar reinf. steel;
- (4) 565 ft. reinf. concrete fence;
- (5) 407 ft. 12-in. V.C.P. sewer;
- (6) 310 ft. 8-in. do;
- (7) 122 ft. 6-in. V.C.P. side sewer;
- (8) 10 12x6-in. Y branches;
- (9) 10 8x6-in. do;
- (10) 8 brick manholes;
- (11) 2 brick catchbasins;
- (12) 1 do, reset;
- (13) 26 ft. 10-in. V.C.P. culverts;
- (14) 2 red reflectors.

Specifications obtainable from the office of John J. Casey, city engineer, 3rd floor, City Hall. Estimated cost \$8,500.

HUMBOLDT COUNTY, Cal.—Smith Bros. Co., 1636 B St., Eureka, at \$3252.80 awarded contract by State Highway Commission to furnish and stockpile screenings in Humboldt County near Mad River Bridge about 1.4 ml. west of Essex.

MENDOCINO COUNTY, Cal.—Until April 17, 2 P. M., bids will be received by John H. Skeggs, District Engineer, State Highway Commission, 211 State Bldg., San Francisco, to treat with asphaltic road oil as a dust palliative 19.7 miles between McDonald and Boonville, involving 1750 bbls. Specifications obtainable from above office. Certified check 10% required with bid.

LOS ANGELES, Cal.—Southern California Roads Co., 2145 E 25th Street, was awarded contract by the board of public works, April 3 at \$24,500.29 for improving Woodlawn Ave. bet. 37th St. and Vernon Ave., under cash contract.

LOS ANGELES, Calif.—Proceedings for improving Orange Avenue from Briggs Ave. to Rosemont Ave., near Montrose, under County Improvement No. 944, were abandoned by county supervisors April 3.

LOS ANGELES, Calif.—City council has requested the county board of supervisors to appropriate \$275,000 additional for the improvement of Wilshire Blvd. bet. Figueroa St. and Park View St. Originally the board appropriated \$200,000 toward the cost of the improvement between Figueroa and Alvarado Sts. This is a total of \$475,000 or \$25,000 less than required under the proposed bridge plan. The additional appropriation as tentatively offered by the supervisors was \$300,000.

SAN DIEGO AND IMPERIAL CO., Cal.—Until April 26, 2 P. M., bids will be received by State Highway Commission, Sacramento, to treat with fuel oil 15.6 mi., between Tecate Divide and Boulder Park, involving 5250 bbls. heavy fuel oil applied to earth shoulders.

BEAUMONT, Riverside Co., Calif.—H. W. McKinley, 1525 Baxter St., Los Angeles, awarded the sub-contract by Wenzel & Henoch Const. Co., general contractor for the San Jacinto tunnel at \$5850 for grading approx. 4 miles of 20-ft. service or access road to the

Potrero shaft of the San Jacinto tunnel, involving about 19,500 cu. yds. of excavation. The 4-in. disintegrated granite surfacing will be placed at an additional price of 32c. cu. yd.

TUCUMNE and Mariposa Counties, Cal.—Until April 21, 2 P. M., bids will be received by R. E. Pierce, District Engineer, State Highway Commission, Room 502 State Office Bldg., Sacramento, to treat with fuel oil and asphaltic road oil as a dust palliative 26 miles existing roadbed between Priest Hotel and Yosemite National Park. Specifications obtainable from above. Certified check 10% required with bid.

SAN FRANCISCO.—Lowrie Paving Co., 1540 16th St., San Francisco, at \$457.75 submitted low bid April 5 to Department of Public Works to improve north half of Army St., Castro to 75 ft. east, involving:

- (1) 75 ft. armored concrete curb;
- (2) 450 sq. ft. 1-course conc. sidewalk;
- (3) 20 ft. 6-in. V.C.P. side sewer;
- (4) 1,500 sq. ft. asph. conc. pavement.

Complete bids follow:

(A) Lowrie Paving Co.	\$457.75
(B) M. J. Lynch	531.25

Unit bids follow:

	(1)	(2)	(3)	(4)
(A)	\$.65	\$.12	\$1.25	\$.22
(B)	1.25	.15	1.25	.22

Bids held under advisement.

SAN FRANCISCO.—Lowrie Paving Co., 1540 16th St., San Francisco, at \$1915.96 submitted lone bid April 5 to Department of Public Works to improve crossing of Fitzgerald and Jennings; also Jennings, Fitzgerald to Gilman, involving:

- 195 ft. armored concrete curb, \$.60;
 - 660 sq. ft. 1-course conc. sidewalk, \$.12
 - 4 brick catchbasins, \$60;
 - 90 ft. 10-in. V.C.P. culverts, \$.75;
 - 32 ft. 12-in. V.C.P. sewer, \$.80;
 - 68 ft. 6-in. V.C.P. side sewer, \$.60;
 - 6,113 sq. ft. asph. conc. pave., \$.22.
- Eid held under advisement.

LOS ANGELES, Cal.—Western Pipe & Steel Co. awarded contract by Saul Joseph, Purchasing Agent, Metropolitan Water District, March 31, at \$2720 f.o.b. cars or trucks, Los Angeles, for all items under Bid No. 9009, for furnishing tanks. The other bids were: Consolidated Steel Corp., \$7315.15; American Pipe & Steel Co., \$8375.
California Columbian Steel Tank Co., Ltd., \$8261.84.

SAN FRANCISCO.—Until April 26, 2:30 P. M., bids will be received by Department of Public Works, S. J. Hester, secretary, to construct sidewalks on Sixth Ave., Judah to Kirkham Sts., et al., estimated cost, \$2500. Quantities will be published in an early issue.

MONTEREY, Monterey Co., Calif.—Granite Const. Co., Bin No. 9, Watsonville, at \$4394.14 submitted low bid (alternate bid) to Quartermaster, Presidio of Monterey, to construct asphaltic concrete roadways and concrete curbs at the Presidio, involving:

- (1) 63,000 sq. ft. topping;
- (2) curb;
- (3) headers.

Complete bids follow:

(A) Granite Const. Co. (alt.)	\$4394.14.
(B) Sidney Ruthven, Seaside (hot mix)	\$5266.80.
(C) P. L. Burr, San Francisco (alt.)	\$6082.02.

Unit bids follow:

	(A)	(B)	(C)
(1)	\$.055	\$.07	\$.0735
(2)	.29	.30	.42
(3)	.34	.30	.42

Bids held under advisement.

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

BARTLETT CREEK BRIDGE — LAKE COUNTY

LAKE COUNTY, Calif.—Thomas J. Doyle, 1527 17th Ave., San Francisco, at \$2537 submitted low bid and recommended for award by U. S. Bureau of Public Roads, San Francisco, to construct Bartlett Creek Bridge on Section B of Route 8, Upper Lake-Bartlett National Forest Highway, involving:

- (1) 65 cu. yds. unclass. excav., struc.;
- (2) 9 M. ft. b.m. untreated timber;
- (3) 29 cu. yds. concrete;
- (4) 950 lbs. reinf. steel;

- (5) 24,000 lbs. struc. steel;
 - (6) 80 sq. yds. bit. wearing surf.;
 - (7) remove and dispose of existing bridge.
- Complete bids follow:
- (A) Thos. J. Doyle, San Francisco, \$2537.00.
 - (B) H. Snead, Berkeley, \$2609.50.
 - (C) T. B. Goodwin, San Francisco, \$2-816.50.
 - (D) E. T. Lesure, Oakland, \$2889.40.
 - (E) Chas. Kuppinger, Lakeport, \$2-946.32.

- (F) Harry Thorson, St. Helena, \$2-970.25.
- (G) J. B. Peterson, Oakland, \$2987.10.
- (H) A. F. Anderson, Sacramento, \$3-124.75.
- (I) Whited & Whited, Santa Rosa, \$3133.
- (J) J. L. Webster, Lodi, \$3361.50.
- (K) Smith Bros. Co., Eureka, \$3,898.85.
- (L) Associated Constructors, Inc., L. A., \$7254.00.
- (M) Engineer's Estimate, \$3077.50.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)
(1).....	\$ 1.50	\$ 2.00	\$ 2.25	\$ 1.60	\$ 2.50	\$ 1.75	\$ 2.00	\$ 1.65	\$ 2.50	\$ 2.50	\$ 2.25	\$ 6.00	\$ 2.00
(2).....	70.00	77.00	75.00	65.00	86.98	80.00	102.00	100.00	90.00	90.00	105.00	145.00	80.00
(3).....	17.50	16.00	19.75	15.60	20.94	25.00	19.60	20.00	30.00	25.00	25.50	78.00	20.00
(4).....	.03	.05	.05	.04	.0368	.05	.042	.05	.05	.06	.06	.06	.05
(5).....	.045	.047	.0475	.0533	.0482	.0525	.0453	.05	.045	.06	.074	.10	.06
(6).....	1.50	.90	2.00	1.00	1.57	.80	1.17	3.00	1.00	1.50	2.00	3.00	2.00
(7).....	73.50	75.00	75.00	50.00	75.00	40.00	150.00	50.00	78.00	50.00	75.00	600.00	200.00

OVERHEAD CROSSING—SANTA BARBARA COUNTY

SANTA BARBARA COUNTY, Cal.—M. B. McGowan, 74 New Montgomery St., San Francisco, at \$28,158 submitted low bid April 5 to the State Highway Commission, Sacramento, to construct an overhead crossing over the tracks of the Southern Pacific Co. at Elwood, consisting of one 68-ft. 6-in. deck plate girder span, four 30-ft. reinforced concrete girder spans and two 20-ft. reinforced concrete girder spans, involving:

- (1) 2600 cu. yds. struc. excavation;
- (2) 1010 cu. yds. Class A Port. cem.;
- (3) 140,000 lbs. bar reinf. steel;
- (4) 115,000 lbs. struc. steel;
- (5) 1060 lbs. cast steel;
- (6) 1030 lbs. bronze expansion plates;
- (7) 500 lin. ft. solid timber railing;
- (8) 1 lot misc. items of work.

Complete bids follow:

- (A) M. B. McGowan, San Francisco, \$28,158.

- (B) Associated Constructors, Los Angeles, \$28,352.
- (C) Clark & Campbell, Los Angeles, \$28,577.60.
- (D) Oberg Bros., Los Angeles, \$28-975.80.
- (E) Bodenhamer Const. Co., Oakland, \$29,893.
- (F) Neves & Harp, Santa Clara, \$29-941.00.
- (G) J. E. Haddock, Pasadena, \$30-861.00.
- (H) R. R. Bishop, Long Beach, \$31-410.00.
- (I) Artukovich Bros., Hynes, \$31,425.
- (J) Sam Sciarrino, San Jose, \$33,900.90
- (K) Dimmitt & Taylor, Los Angeles, \$34,429.30.
- (L) Weymouth Crowell Co., Pasadena, \$34,833.90.

Unit bids follow:

	(I)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A)	\$1.42	\$12.50	\$.032	\$.0535	\$.102	\$.189	\$.83	\$ 409.71
(B)	1.50	14.00	.03	.04	.10	.20	1.20	600.00
(C)	1.83	14.00	.0265	.043	.08	.16	.90	325.00
(D) .....	.75	16.65	.0288	.044	.105	.20	.75	425.00
(E)	1.25	15.00	.035	.045	.20	.20	1.00	500.00
(F)	1.00	15.70	.03	.045	.075	.15	.75	1500.00
(G)	1.00	16.50	.0275	.052	.15	.25	.90	900.00
(H) .....	.95	17.75	.03	.045	.10	.25	.90	750.00
(I)	1.15	15.20	.03	.045	.15	.30	2.75	1865.00
(J) .....	.75	18.00	.0315	.0453	.10	.18	.80	2950.00
(K)	1.90	19.00	.03	.044	.08	.15	.60	500.00
(L)	1.85	17.00	.03	.05	.10	.23	1.05	2036.00

VALVERDE AND BERNASCONI TUNNELS Metropolitan Water District

The lowest combination of bids follows:

Full Size Tunnel

Hamilton & Gleason Co., \$412,055; Schedule No. 1.

Dravo Contracting Co., \$1,584,614; Schedule No. 3.

Dravo Contracting Co., \$1,701,989; Schedule No. 5.

Half Size Tunnel

Hamilton & Gleason Co., \$354,037; Schedule No. 2.

Dravo Contracting Co., \$1,369,974; Schedule No. 4.

Dravo Contracting Co., \$1,491,206; Schedule No. 6.

Dravo Contracting Co. offered a deduction of \$150,000 in the event Sched-

ules 3 and 5 were awarded together. Figuring in this deduction, the total cost of the tunnels will be as follows: Full size tunnel.....\$3,548,638 Half size tunnel..... 3,215,077

Stipulations as to awards on combinations were as follows:

Dravo Contracting Co.—Deduct \$250,000 for combined award on Schedules 1, 3, and 5; deduct \$150,000 for award of only Schedules 3 and 5.

Walsh Construction Co.—Bld based on doing all work on Schedules 1, 3 and 5 or 2, 4 and 6.

Silas Mason Co.—Bid conditional upon award of entire work.

Hanrahan, Connolly & Pollock—Valverde will be accepted alone by Ber-

nasconi only if Valverde and Bernasconi are awarded together. Bernasconi will not be accepted alone. Bid based upon performing these two contracts one after the other within the time limit.

The addresses of the bidders are:

(A) Hamilton & Gleason Co., 1124 Pacific St., Redlands, Calif.

(B) Dravo Contracting Co., Dravo Bldg., Pittsburgh, Pa.

(C) W. F. Hanrahan, T. E. Connolly, San Francisco, and Geo. Pollock, Sacramento.

(D) Walsh Const. Co., Davenport, Iowa; Los Angeles address 904 Chester Williams Bldg.

(E) J. F. Shea Co., Inc., Boulder City, Nevada.

(F) Silas Mason Co., New York City Los Angeles address 561 Spring Arcade Bldg.

(G) Hunkin Conkey Const. Co., East 12th and Walnut Sts., Cleveland, O.

(H) R. S. Morrow and Shirley Construction Co., 701 Omaha National Bank Bldg., Omaha, Neb.

Project involves:

SCHEDULE NO. 1

Construction of the Bernasconi Tunnel with a diameter of 15 ft. 3 in., together with appurtenant works,

- (1) tunnel access, lump sum;
- (2) 61,600 cu. yds. excav. in tunnel;
- (3) 50 cu. yds. excav. for tunnel enlargement;
- (4) 16,600 cu. yds. concrete in tunnel;
- (5) 250 M. ft. B. M. furnish and place permanent timber in tunnel;
- (6) 15 tons erect steel support in tunnel;
- (7) 10 cu. yds. Gunite coating of rock in tunnel;
- (8) 25 connections for grouting;
- (9) 65 cu. yds. mix and place grout;
- (10) 25,000 lbs. place reinforcing steel;
- (11) 100 tons miles hauling steel;
- (12) 14,000 ton miles hauling cement;
- (13) does not apply here.

SCHEDULE NO. 2

Construction of the Bernasconi Tunnel with a diameter of 11 ft. 9 in., together with appurtenant works,

- (1) tunnel access, lump sum;
- (2) 40,000 cu. yds. excav. in tunnel;
- (3) 25 cu. yds. excav. for tunnel enlargement;
- (4) 12,800 cu. yds. concrete in tunnel;
- (5) 148 M. ft. E.M. furnish and place permanent timber in tunnel;

SCHEDULE NO. 4

Construction of the east portion of Valverde Tunnel, Station 11,695 plus 00 to Station 11,870 plus 00, with a diameter of 11 ft. 9 in., together with appurtenant works.

- (1) tunnel access, lump sum;
- (2) 117,000 cu. yds. excav. in tunnel;
- (3) 75 cu. yds. excav. for tunnel enlargement;
- (4) 37,400 cu. yds. concrete in tunnel;
- (5) 330 M. ft. B.M. furnish and place permanent timber in tunnel;
- (6) 210 tons erect steel support in tunnel;
- (7) 75 cu. yds. Gunite coating of rock in tunnel;
- (8) 50 connections for grouting;
- (9) 110 cu. yds. mix and place grout;
- (10) 60,000 lbs. place reinf. steel;
- (11) 295 ton miles hauling steel;
- (12) 12,000 ton miles hauling cement;
- (13) 175,000 million foot gallons pumping water (at 12½c per million foot gallons, \$21,875).

SCHEDULE NO. 5

Construction of the west portion of Valverde Tunnel, Station 11,870 plus 00 Station 12,066 plus 50, with a diameter of 15 ft. 3 in. with appurtenant works.

- (1) tunnel access, lump sum;
- (2) 197,000 cu. yds. excav. in tunnel;
- (3) 100 cu. yds. excav. for tunnel enlargement;
- (4) 52,900 cu. yds. concrete in tunnel;
- (5) 170 M. ft. B.M. furnish and place permanent timber in tunnel;

- (6) 85 tons erect steel support in tunnel;
- (7) 40 cu. yds. Gunite coating of rock in tunnel;
- (8) 80 connections for grouting;
- (9) 220 cu. yds. mix and place grout;
- (10) 75,000 lbs. placing reinf. steel;
- (11) 660 ton miles hauling steel;
- (12) 74,000 ton miles haul cement;
- (13) 175,000 million foot gallons pumping water (at 12½c per million foot gallons, \$21,875).

SCHEDULE NO. 3

Construction of the west portion of Valverde Tunnel, Station 11,870 plus 00 Station 12,066 plus 50, with a diameter of 11 ft. 9 in. with appurtenant works.

- (1) tunnel access, lump sum;
- (2) 128,000 cu. yds. excav. in tunnel;
- (3) 75 cu. yds. excav. for tunnel enlargement;
- (4) 41,750 cu. yds. concrete in tunnel;
- (5) 110 M. ft. B.M. furnish and place permanent timber in tunnel;
- (6) 70 tons erect steel support in tunnel;
- (7) 25 cu. yds. Gunite coating of rock in tunnel;
- (8) 60 connections for grouting;
- (9) 140 cu. yds. mix and place grout;
- (10) 60,000 lbs. place reinf. steel;
- (11) 540 ton miles hauling steel;
- (12) 59,000 ton miles haul cement;
- (13) 175,000 million foot gallons pumping water (at 12½c per million foot gallons, \$21,875).

Complete bids follow:

	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6
(A)	\$412,055	\$354,097.00	\$	\$	\$	\$
(B)	633,397	498,439.60	1,584,614.00	1,369,974.00	1,701,989.00	1,491,206.00
(C)	549,232	439,463.50	1,952,352.00	1,549,419.50		1,799,268.50
(D)	540,959	371,252.20	1,919,083.30	1,687,406.55	2,027,349.40	1,606,584.00
(E)					2,082,636.00	1,644,216.00
(F)	580,240	481,907.00	1,920,673.00	1,521,418.00	2,058,089.00	
(G)	609,235	514,429.00				
(H)	737,065	653,863.00				

SCHEDULE NO. 1

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
(A)	\$30,000	\$4.35	\$10.00	\$5.50	\$70.00	\$40.00	\$25.00	\$5.00	\$25.00	\$.02	\$.15	\$.12	\$
(B)	12,500	7.50	9.00	8.00	75.00	25.00	25.00	6.00	22.00	.02	.12	.12	
(C)	15,000	6.47	10.00	6.95	60.00	30.00	20.00	10.00	50.00	.02	.20	.01	
(D)	40,000	6.10	10.00	6.50	50.00	45.00	25.00	5.00	30.00	.018	.09	.06	
(F)	30,000	7.00	12.00	6.00	60.00	45.00	25.00	5.00	15.00	.015	.40	.10	
(G)	15,000	6.93	15.00	8.97	50.00	60.00	100.00	3.00	20.00	.02	.20	.10	
(H)	66,000	7.47	12.00	11.02	75.00	75.00	30.00	10.00	20.00	.05	.40	.30	

SCHEDULE NO. 2

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
(A)	\$30,000	\$5.50	\$10.00	\$7.00	\$70.00	\$40.00	\$25.00	\$5.00	\$25.00	\$.02	\$.15	\$.12	\$
(B)	12,500	9.00	9.00	8.50	90.00	25.00	25.00	6.00	22.00	.02	.12	.12	
(C)	15,000	8.00	10.00	7.15	60.00	30.00	20.00	10.00	50.00	.02	.20	.01	
(D)	40,000	8.20	10.00	7.20	50.00	45.00	25.00	5.00	30.00	.018	.09	.06	
(F)	30,000	8.75	12.00	7.00	60.00	45.00	25.00	5.00	15.00	.015	.40	.10	
(G)	19,000	9.28	15.00	8.76	50.00	60.00	100.00	3.00	20.00	.02	.20	.10	
(H)	66,000	9.75	15.00	14.02	75.00	75.00	30.00	10.00	20.00	.05	.40	.30	

SCHEDULE NO. 3

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
(B)	\$60,000	\$6.10	\$ 9.00	\$7.00	\$85.00	\$25.00	\$20.00	\$5.00	\$18.00	\$.02	\$.20	\$.18	\$.125
(C)	52,000	8.06	10.00	7.61	60.00	30.00	20.00	10.00	50.00	.02	.10	.01	.125
(D)	87,000	8.00	10.00	6.50	50.00	45.00	25.00	5.00	30.00	.018	.09	.06	.125
(F)	55,000	8.30	12.00	6.00	60.00	45.00	25.00	5.00	15.00	.015	.40	.10	.125

SCHEDULE NO. 4

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
(B)	\$60,000	\$8.10	\$10.00	\$8.00	\$85.00	\$25.00	\$20.00	\$5.00	\$18.00	\$.02	\$.20	\$.18	\$.125
(C)	52,000	10.00	10.00	7.80	60.00	30.00	20.00	10.00	50.00	.02	.10	.01	.125
(D)	87,000	10.90	10.00	7.20	50.00	45.00	25.00	5.00	30.00	.018	.09	.06	.125
(F)	55,000	9.80	12.00	7.00	60.00	45.00	25.00	5.00	15.00	.015	.40	.10	.125

SCHEDULE NO. 5

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
(B)	\$60,000	\$8.10	\$10.00	\$8.00	\$85.00	\$25.00	\$20.00	\$5.00	\$18.00	\$.02	\$.15	\$.12	\$.125
(C)	52,000	10.00	10.00	7.80	60.00	30.00	20.00	10.00	50.00	.02	.10	.01	.125
(D)	87,000	10.90	10.00	7.20	50.00	45.00	25.00	5.00	30.00	.018	.09	.06	.125
(F)	55,000	9.80	12.00	7.00	60.00	45.00	25.00	5.00	15.00	.015	.40	.10	.125

SCHEDULE NO. 6

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
(B)	\$75,000	\$8.10	\$10.00	\$8.00	\$85.00	\$25.00	\$20.00	\$5.00	\$18.00	\$.02	\$.15	\$.12	\$.125
(D)	88,000	10.70	10.00	7.20	50.00	45.00	25.00	5.00	30.00	.018	.09	.06	.125
(E)	40,000	9.30	11.00	8.00	70.00	35.00	18.00	8.00	30.00	.02	.10	.05	.125
(F)	55,000	9.80	12.00	7.00	60.00	45.00	25.00	5.00	15.00	.015	.40	.10	.125

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IN THIS ISSUE



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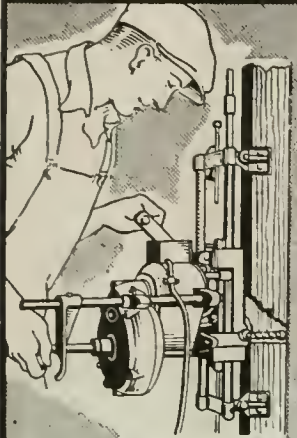
COAST BUILDING PERMITS TOTAL \$5,243,070
IN MARCH

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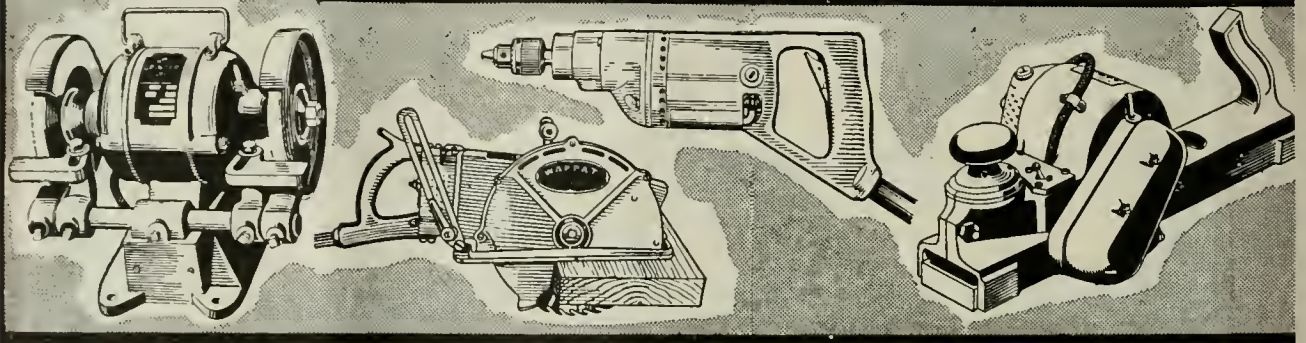
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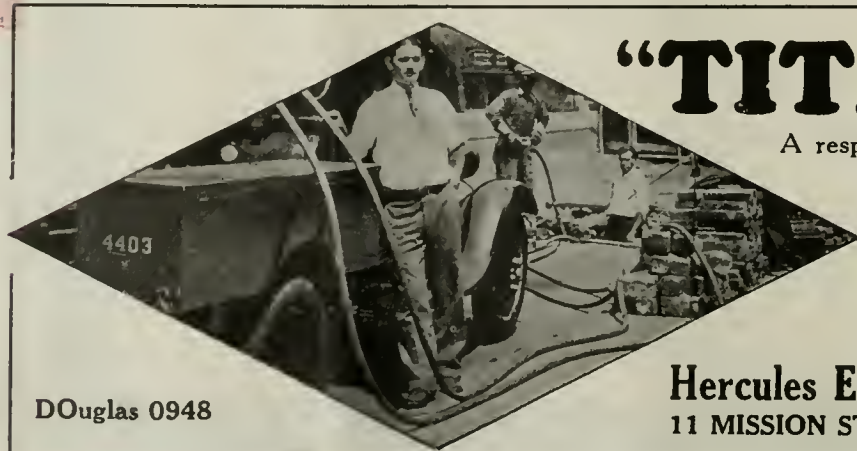
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for the Eleven Pacific Coast States

SAM B. EUBANKS, Editor

Vol. 16

SAN FRANCISCO, CALIF., APRIL 15, 1933

No. 13

\$8,000,000 R. F. C. LOAN APPROVED TO REBUILD SLUM

Heavy Engineering Awards Gaining Momentum After Bank Holiday Decline

The eight million dollar slum clearance development for New York's lower East side, which entered the contract stage by definite approval of a loan by the Reconstruction Finance Corp., boosted the total of heavy engineering construction awards for the week ended April 3 to \$17,256,000, as compared with \$11,994,000 for the previous week and an average of \$11,743,000 for the past four weeks, according to figures compiled by Engineering News-Record.

Bids and contracts postponed by the bank holiday are just beginning to materialize, though the effect of those postponements on contract totals will be felt for some weeks. Public works awards are being held up until the administration decides on a definite program tied in with unemployment relief. Highway lettings are also being deferred until the exact status of federal highway aid can be determined.

Contracts let to date this year total \$231,095,000, as compared with \$295,079,000 for the same period last year.

Construction and alterations of breweries is the brightest spot in the private building field. Last week seventeen brewery jobs aggregating \$9,000,000 were announced as awarded or definitely planned. Seven other brewery prospects were announced. The largest of the brewery projects is one for New York, estimated at \$3,500,000, bids for which are called for in June.

Cities in which breweries are being built or planned include New York, Hills Grove, R. I., Baltimore, Sacramento, Cleveland (two), San Diego, Calgary, Walla Walla, Salinas, Calif., Logansport, New Bedford, Bridgeport, Los Angeles, St. Louis, Milan, Ohio, Zanesville, Boston, Tucson, Louisville, Rochester, Lowell, Providence, Brooklyn and Lowell.

THE WEEK'S NEWS Highlights

S. F. JAIL BIDS: Anderson & Ringrose, San Francisco, submitted the low bid at \$568,400 on construction of the San Francisco county jail at Sneath ranch. Bids exceeded estimates, but Director of Public Works Worden expects to proceed with award by eliminating equipment alternates on which specifications may be changed. (Complete bid tabulation, Page 23).

R. F. C. MONEY: Approval of an \$8,000,000 loan to a limited dividend corporation for the purpose of rebuilding New York slum area marks the first grant of public money in this field. Other states are adopting enabling acts to permit the charter of similar corporations, including California, where A. B. 374 has gone to the Senate after being adopted by the Assembly.

SCHOOL SUPERVISION: All public school buildings in the state of California will be under jurisdiction of the State Division of Architecture by terms of a bill passed by the Legislature and signed by Governor Rolph. Plans for new building or alterations involving more than \$1000 expenditure must be submitted to the state architect, who will approve and supervise construction by field inspection. The act was inspired by structural defects revealed in many Southern California schools during the earthquake last month.

BOND SALE LEGAL: Sale of Golden Gate Bridge District bonds at a price to yield more than 5% interest has been validated by the California State Supreme Court in a test suit brought by bridge district officials. Directors expect the decision will clear the way for marketing the securities, as funds are needed to meet construction payments.

\$5,243,070 COAST BUILDING TOTAL FOR LAST MONTH

Increased Private Building Indicated In March Permit Figures

Building permit totals for the Pacific coast were announced yesterday for the month of March as \$5,243,070, according to the compilation by S. W. Straus & Co., from reports of municipal building inspectors.

The first five cities for the month in order are:

Long Beach	\$1,101,435
Los Angeles	958,441
Torrance	565,365
San Francisco	548,231
San Jose	283,270

A substantial gain in activity over the month of February is indicated in the totals, with increases in almost every section reporting. Reconstruction in the area affected by the Southern California earthquake accounts for a portion of the California increase, with full reports not available from some of the smaller cities where damage was heavy, including Compton. Complete reports from the Southern California cities have been delayed due to disorganization of municipal offices resulting from the quake.

March totals are notable for their comparatively high ratio of private building, compared with previous months. Federal building awards were virtually suspended during the month whereas in recent months this has been an important item in the total permits. The totals for the months of November, December and January also were weighted heavily by contracts awarded for the Golden Gate bridge.

Excepting these three months the March total is higher than for any month since May, 1932.

BERKELEY PERMITS GAIN

Building permits issued in Berkeley for the past week total \$17,264, according to Building Inspector Stanley Koch, representing a considerable increase over the weekly average for March.

HOME OWNERS GET FIRST \$16,000,000 FROM U. S. BANKS

Thirty-four percent Used in Remodeling, Loan Associations Report

Approximately \$16,000,000 of Federal Home Bank funds have been disbursed to home owners in 23 states during the last 3 months, building and loan associations reported to the United States Building and Loan League.

This is the first summary available of the reloaning operations carried on by these member institutions of the Federal Home Loan Banks—the operations by which the money reaches the home-owners. Figures given out by the federal board from time to time, cover in the nature of the case, the advances made to member institutions by the system. The league announcement today shows where the money goes from there.

Ward B. Whitlock, president of the league, points out that this figure does not cover the entire total of such reloaning operations, since all of the associations which have obtained Home Loan Bank funds have not yet reported on their distribution of the money, but he emphasizes that the figures reported do give a valuable picture of the progress being made in extending home-owner credit.

The new mortgage credit was extended to the home-owners for the following purposes, according to information from reporting associations:

For remodeling and repairs, \$5,416,000; 34 percent.

For loans to pay taxes on homes, \$3,635,000; 22.8 per cent.

For refinancing of mortgages where the home-owner was being pressed for payment and for the making of new mortgages where the home-owner could find no other source of mortgage money, \$6,875,000; 43.1 per cent.

Total, \$15,926,000.

BROWN ELECTED HEAD OF FRESNO EXCHANGE

John M. Brown, brick contractor, was elected president of the Fresno Builders' Exchange at the annual meeting of directors.

Brown succeeds the late A. M. Goedel, plumbing contractor, who died recently. Robert E. Jolly, general contractor, was named vice-president, succeeding E. O. Thompson. M. W. Hancock was elected treasurer and Harry Cayford was re-elected secretary.

S. F. FIRM LOW ON PLACER ROAD JOB

SACRAMENTO, April 12.— Peninsula Paving Company, San Francisco, submitted the low bid to the State Highway Commission for surfacing 11.5 miles of road between Gold Run and Airport, Placer county. The bid was \$132,831.

Fredrickson and Watson and Jones and King, Oakland, were second low at \$135,337; A. Teichert & Son, Sacramento, third at \$139,393.

Nine bids were received.

BILL TO ABOLISH COUNTY SURVEYOR

Proposal Would Centralize Road Control Under Engineer

The Bliss-Powers bill to centralize county road work under a county engineer, known as Assembly Bill 1133, has passed the Assembly by a vote of 60 to 10. It now goes to the Senate.

The bill as adopted, abolishes the elective office of county surveyor and joins his duties with those of the county engineer who under the terms of the measure will be appointed by the county board of supervisors and must be registered in this state as a civil engineer.

The effect of the change will be to centralize all county road work and relieve the supervisors of their present duties as ex officio road commissioners. The supervisors acting as a board will retain general direction of road work thru the county engineer acting as the chief executive of the department.

Flexible provisions are included in the bill to permit the small counties to appoint the same person as county engineer or to have the work of his office done on a per diem basis instead of on salary. Another provision permits the supervisors to employ the technical aid of a county engineer in inspecting upon completion other engineering work done for the county.

The County Engineer Act will become effective upon adoption by the people of Senate Constitutional Amendment 16, which vests in boards of supervisors the power to regulate compensation of county officers. This latter bill has been recommended for passage by the Senate committee.

\$9,000,000 R. F. C. LOAN TO REBUILD L. A. INSTITUTIONS

State Authorities Wire Senators to Proclaim Funds For South

A loan of between \$9,000,000 and \$14,000,000, to be used to rebuild schools destroyed by the recent Southern California earthquake, has been requested of the Reconstruction Finance Corporation by Vierling Kersey, state superintendent of public instruction.

Kersey made the request in a telegram sent to Senator Hiram W. Johnson, Senator William G. McAdoo and Southern California members of the house of representatives.

The money, if advanced to the state by the federal corporation, would be used to reconstruct the ruined schools. The new buildings would be rented to the various school districts by the state and the income thus received would be used to pay off the R. F. C. loan. Kersey did not ask for any specific amount, but it was unofficially indicated between \$9,000,000 and \$14,000,000 would be needed.

"Earthquake in Southern California deprived the people in large portions of Los Angeles and Orange counties of public school housing facilities," Kersey wired Senator Johnson. "Areas affected are without funds or credit which can be used to replace or restore facilities."

Kersey arrived at the decision to appeal to California's congressional delegation for aid in obtaining a loan, after he was requested to take such action by the Los Angeles Chamber of Commerce, Lieutenant Governor Frank F. Merriam, State Senators J. W. McKinley and Nelson T. Edwards and Assemblymen Edward Craig, Sam H. Greene, Ira S. Hatch, Cecil R. King, Harry B. Riley, Walter H. Sullivan and Jas. B. Utt.

RENOVIZE SALT LAKE CAMPAIGN IS STARTED

A "Renovize Salt Lake City" campaign is in full swing, reports the weekly bulletin of the Inter-mountain Branch Associated General Contractors.

A downtown display has been prepared where every modern convenience for the home is shown. The chamber of commerce is to provide a hundred solicitors who will start a city-wide canvass shortly. Meanwhile speakers are appearing on programs at every gathering to describe the benefits of the campaign.

Phone TRinity 0241 for —

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Cement-Mixed Mortar-Stucco

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Consolidated Rock Products Co.

656 S. Los Angeles St.

Los Angeles, Calif.

2 1-2 BILLION FOR PUBLIC WORKS IS ESTIMATED NEED

Construction League President Says Federal Government Must Aid Municipalities

Nothing but an inspired attack on all fronts on a large scale public works construction program, allocated with regard to the major unemployment centers, will touch the core of the nation's troubles and break the depression, Robert D. Kohn, of New York, chairman of the Construction League of the United States and of the National Committee for Trade Recovery, declared in a statement following his presentation of the league's national construction program at the labor conference held in Washington, D. C., under the auspices of Secretary of Labor Frances Perkins.

"As in war-time we stir up our people to back up an attack on the enemy," Kohn said, "so we must now make an attack on unemployment in which every state and community is called upon to do its share by starting those needed local improvements best able to furnish the maximum employment to the workers. It must be an inspired move, led by the President, and where the locality cannot borrow the necessary money to pay the workers the Federal Government must lend on the local securities, at two per cent or no interest at all, so long as the work is of the right kind and is done promptly."

Kohn expressed the opinion that the President's forestry camp project is all right for a limited number and kind of workers, but that some program must be adopted to put at least two million men back to work within the next six months, and that the job must be started within the next few weeks, if it is to have any effect on next winter's "looming horror."

Kohn, who is a past president of the American Institute of Architects, has presented to the conference a detailed list, prepared by the National Committee for Trade Recovery, of more than two and

one-half billion dollars worth of planned public improvements which have been delayed or abandoned because of the depression, and which he claims constitute only a small part of the deferred public works throughout the country. The list comprises more than 2700 projects of water works, low cost housing and slum clearance, roads, bridges, sanitation, grade crossing separations, schools and hospitals, which the Trade Recovery Committee believes should go forward immediately.

What would have worked last year as a program of self-liquidating public works, if the plan of the Wagner Bill had been courageously administered instead of sabotaged, will not work now, Kohn stated, as it is too late. The committees are frightened and against any added bonded indebtedness and will have to be marshalled to save themselves from larger doles by following Federal leadership as they did in war-time for a construction program—not for "pork barrel extravagances," but for the kind of improvements which will make for better living in the communities, he declared.

"We are maintaining that this process should be started now even if it uses up some of the accumulated wealth which should have long since been put to work to that end," Kohn said. "If we are to avoid a real smash with a misery next to which that of recent years will only seem like a holiday, we must stop waiting for our luck to turn."

SUE TO RECOVER FOR EQUIPMENT RENTAL

Suit to recover \$3,332 which it is claimed is due for equipment rental has been filed in the Sacramento county superior court against C. & M. Trucking Company, Force Construction Company and American Bonding Company.

Plaintiffs are B. J. Hughes, \$1,268; Otis D. Babcock, \$851; Lyle F. Cowan, \$865. They declare they have not been paid for the use of construction equipment used on the Sacramento-McConnell highway contract completed last year.

WEEK'S LUMBER OUTPUT DROPS AT WEST MILLS

Volume of New Business Continues to Reduce Cost Inventories

A total of 252 down and operating mills which reported to the West Coast Lumbermen's Association for the week ending April 1 produced 62,441,593 board feet of lumber. This was a decrease of 2,972,272 feet or 4.5 percent under their cut in the preceding week. The average week's production of this group of sawmills in 1933 has been 56,264,165 feet; during the same period of 1932, their weekly average was 65,409,175.

New business reported last week by 178 mills was 73,139,958 board feet against a production of 55,783,712 feet and shipments of 71,988,387 feet. Their shipments were over their production by 29.0 percent and their current sales were over production by 31.1 percent. The orders booked last week by this group of identical mills were less than their orders of the preceding week by 13,902,282 board feet, or 16 percent.

Details of orders and shipments as reported by these 178 mills are:

	Orders	Shipments
Rail	26,333,511	22,987,481
Domestic	26,540,597	27,862,065
Export	14,320,472	15,193,463
Local	5,945,378	5,945,378

73,139,958 71,988,387

The unfilled order file at these mills stood at 258,593,127 board ft., an increase of 434,550 feet from the week before.

The aggregate inventories of 130 mills are 16.6 percent less than at this time last year.

BUILDING MATERIALS PRICE INDEX GAINS

Further gain in the price of building materials is shown in the report of the Bureau of Labor Statistics for the week ending April 1. The building materials index stood at 70.4, the highest point in recent months and a gain from 70.2 the previous week. The index is based on prices of 1926 as 100.0.

FOR SALE . . .

110 Horsepower Diesel Engine
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"TRANSPORTATION SPECIALISTS"

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A complete line of grading machinery—designed by a contractor—developed on actual construction jobs—built to stand continuous use under the worst conditions.

ENGINEER'S CONSULTATION FREE

R. G. LE TOURNEAU, INC.

Wilson Way at Roosevelt

Stockton, Calif.

COMMISSION WILL AID IN PLANNING CAPITAL BUILDING

Architects Committee Formed To Correlate Federal Projects

Formation of a central committee by eleven national civic and professional organizations to shape the development of Washington as the most beautiful of the world's capitals is announced by the committee on the national capital of the American Institute of Architects, of which Horace W. Peaslee is chairman.

"Among the general problems with which the committee has to deal," said the announcement, "one of the most important relates to the reorganization of the Federal departments; another concerns the production of Federal buildings by bureaucratic agencies instead of by outstanding designers of the country—a problem deeply affecting architects, landscape architects, sculptors and painters."

The allied organizations have agreed upon a definite program for the completion of major projects. They urge upon Congress the adoption of legislative measures to authorize the employment of capable and experienced specialists, particularly in departmental reorganization.

They propose that in the public buildings of the Capital the collaboration of the ablest architects, sculptors and mural painters be definitely provided for under proper authorization and with adequate appropriation.

The employment of landscape architects of outstanding reputation is urged in connection with the proper setting of public buildings, the design of parks, and the development of street plantings. Another aim is the collaboration of leading engineering authorities in problems involving engineering, public utilities and construction.

These measures, it is held, are necessary in order that, in design, execution and maintenance, such work in the National Capital may not only equal the highest type of similar work in other cities and in private practice but may set standards for the country at large. The committee also asks that the supervisory and co-ordinating authority of the National Capital Park and Planning Commission be clearly defined and established.

The basic principles governing the movement are stated as follows:

"The national capital should express in its physical planning and development the highest ideals and accomplishments of American art; such ideals can be realized only with the collaboration of the ablest professional advisers in the various arts; the amenities and utilities should be given proper emphasis in full harmony with esthetics; the pride of the American people in their federal city warrants ample appropriations for its adequate development and maintenance."

L. A. WATER DISTRICT ASKS TUNNEL BIDS

LOS ANGELES, April 11.—Bids will be received by the Metropolitan Water District on May 22 for construction of approximately 8 miles of tunnels of the Colorado River Aqueduct. The bids called are for alternate proposals on full capacity and half capacity bores under seven different contracts.

The tunnels are designated as East Eagle Mountain 1.79 miles; West Eagle Mountain, east portion, 2.97 miles, west portion, 2.01 miles; Hayfield No. 1, east portion, .91 mile, west portion, .91 mile; Hayfield No. 2, 1.02 miles; Mecca Pass Nos. 1, 2 and 3.

ASSEMBLY OKEHS HOUSING BILL

Measure Would Enable California Corporations To Borrow for Building

Organization of limited dividend housing corporations for the purpose of rebuilding slums and congested city areas is permitted in Assembly Bill 374 which has been passed by the lower house and sent to the senate.

Administration of the act is placed under the immigration and housing commission. Securities may be issued by such corporations bearing interest not to exceed six per cent per annum. The measure was introduced by Assemblymen Lucius Powers and M. S. Meeker of Fresno county and George Bliss of Santa Barbara county.

Powers declared the bill would pave the way for many reconstruction projects in the state. Under the proposal such corporations would be enabled to borrow funds from the R. F. C.

STATE ARCHITECT TO SUPERVISE SCHOOLS

School construction in the state of California hereafter is to be supervised by the Division of Architecture, according to the terms of a statute which became effective yesterday immediately after it was signed by Governor Rolph.

The bill gives the state architect jurisdiction over plans and construction of all school buildings and alterations involving more than \$1000 expenditure. Cost of the supervision is paid by the school district.

Investigation of any school structure by the state architect also may be demanded by petition of 10 percent of the parents in a district or may be initiated by the school trustees.

Assemblyman C. Don Field, Glendale, introduced the measure, following the Southern California earthquake.

WASTE MATERIAL USED TO MAKE BUILDING STONE

University Chemists Claim Synthetic Product Superior to Natural

Chemical engineers of Purdue University have invented a new synthetic building stone, according to the American Chemical Society. It is a composition of dust and chips that form the waste material of limestone, granite, marble and slate quarries.

Press dispatches from Washington where the discovery was announced, describe the new stone. It is several times stronger than standard building brick. It goes nature one better on color, since any shade desired by the manufacturer's fancy can be impregnated permanently.

It can be molded into many of the sculptured forms now requiring the chisel.

In making the stone, machines duplicate in a few hours the work of millions of years in nature's stonebuilding processes.

Pressing machines replace the vast weight of earth required in natural stone. Stone cookers supply the heat which real rocks sometimes get from volcanic and earth crustal movements.

The synthetic secret is the "binder" which brings together the chips and dust of real rock. This binder is lime, plus a little water, plus alumino-silicic salts which already exist in the natural rocks.

In the steam heating the lime as such disappears completely, converted into a new product which welds the stone particles together again.

X-ray pictures showing this welding change were exhibited to the meeting by Prof. R. Norris Shreve.

Slabs are molded four feet long, two feet wide and two inches thick. Bolds can be molded into the slabs. Like natural stone, the synthetic material takes a high polish.

FORM COMPANY FOR MODERNIZING WORK

Building Modernizing Association has been formed in San Francisco with offices at 111 Sutter St. for the purpose of contracting for the rehabilitation of all classes of buildings.

E. M. Connolly is president of the company. Wm. H. Knowles and Wayne S. Hertzka are associated with him. Connolly was for many years a partner in the Macondray company, exporters. Knowles and Hertzka are graduates of Massachusetts Institute of Technology in architecture.

The company will undertake to coordinate all phases of remodeling and modernizing properties of all types, including financing and leasing. Reconstruction work will be figured by a restricted list of sub-contractors.

Real Estate Surveys Reveal National Housing Shortage Due to Long Decline in Construction

With a spurt in inquiries for real estate reported since the bank holiday, a re-examination is going on in many quarters as to the elements which affect real estate supply and demand, reports the National Association of Real Estate Boards.

The degree to which existing residence properties have been absorbed is indicated by recent house to house surveys made in a number of cities under the auspices of real estate boards. The association summarizes the finding of such detailed surveys recently made by the real estate boards of St. Louis and Kansas City, Mo.; San Diego, Calif.; Camden County, N. J.; Muncie, Ind.; Ann Arbor, Mich.; Des Moines, Ia., and Westchester County, N. Y.

The count of vacancies in the St. Louis and Kansas City surveys was made by the post office force of the respective cities. The Camden County survey was made by the Camden police department.

Of existing structures, single family residences, without exception, showed the greatest degree of occupancy. Some surveys measure the extent of emergency "doubling" of families in units intended for single family residence. Undoubling would mean increase in housing demand. Postponement of marriages because of depression condition is a social factor not measured in the present surveys but nevertheless affecting the accumulated demand for housing, the National Association comments.

New Houses Fewest in History

The surveys throw some interesting sidelights on the dearth of any construction for the past three years, an important element of the present situation in respect to dammed up demand. (The United States Bureau of Labor Statistics announces that during February, 1933, a total of 1,742 family dwelling units were provided in new building.)

Structures so far out of repair as to be untenable were put under count in a number of surveys.

St. Louis in its survey candidly admits: "We have eliminated 'units under construction' this year as there were too few to be of any importance." The Kansas City survey, which did not tabulate new construction, found 620 of the city's existing housing units untenable. More than half these were single family houses. Des Moines found 166 homes untenable. The city reports 20 new houses, complete and as yet never occupied, as against 39 the previous year. It had 29 new homes under construction as against 71 the previous year. Ann Arbor listed one dwelling under the head of new houses, complete but never occupied, and six under construction.

The same city listed 51 structures once large houses now "worked over" into multiple apartment buildings. Apartment buildings found under construction to-

taled two, would provide for 12 families.

San Diego reports 235 single family houses erected in 1932, less than half the number erected in 1931. The Bronxville chapter of the Westchester County, N. Y., board reports of its survey: "The most startling fact revealed is that we have only 35 new houses which are unoccupied and which are offered for sale for the spring market. Never in the history of this territory has there been such a limited number available in this classification." Mamaroneck, Westchester County, has 11 houses new and not yet occupied.

Vacancy Small in Residences

Single family residences in Greater St. Louis are 95.4 percent occupied. A total of 8,762 families were reported doubled up with other families, and in addition 18,899 families were reported as living in 4,548 boarding or lodging houses. This last is to a considerable extent really a "doubling" due to the depression, as is indicated by the fact that the 1930 census found only 459 rooming or lodging houses in St. Louis, these housing 8,409 individuals (not families).

Kansas City, Mo., reports single family residences are 92.63 percent occupied. A total of 5,385 families were found "doubled" with other families. This is an increase of 6 percent over the number found in a like count a year ago. Even

more striking is the fact that 7.2 percent of all the occupied single-family houses in the city are now housing an extra family.

San Diego found 95.85 percent of its single family residences occupied. Families living as "excess" families number 1,157.

Within Westchester County, New York, survey made by local chapters of the Westchester County Real Estate Board show occupancy of single family dwellings as follows: Bronxville, 95½ percent (in the village proper, 97½ percent), Mamaroneck, 94½ percent; Scarsdale, 95.6 percent.

Camden County, New Jersey, had an occupancy of 93.27 percent in houses, including both those habitable and those uninhabitable, an increase of 1.55 per cent from that found six months earlier. Of the vacant houses more than 28 percent were found uninhabitable. Counting out the houses unfit for living purposes, the occupancy was found to be 95½ percent.

Muncie, Indiana, reports for residential units a total occupancy of 91 percent.

Ann Arbor, Michigan, found 98 percent of its existing single family dwellings occupied. For all types of housing units in the city the occupancy was 96 percent.

Des Moines, Iowa, has a 96.45 percent occupancy for single family residences, this divided as follows: two-story houses, occupancy 96.3 percent; bungalows occupancy 96.62 percent. Occupancy for housing units of all kinds, including apartments, single family houses and temporary houses, was found to be 94.63 per cent.



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RATES: \$2 to \$4

RAY MAXWELL, Manager

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PLAZA
POST STREET AT STOCKTON
SAN FRANCISCO

PERMITS AND CONTRACTS

SAN FRANCISCO COUNTY

194	Horn	Owner	4000
195	Oyen	Owner	3500
196	Barber	Owner	3900
197	Bracco	Owner	3750
198	Shemanski	Owner	4000
199	Carrere	Yrigoyne	3000
200	Abend	Vukicevich	3000
201	Krug	Strand	3950
202	Herzlg	Owner	8000
203	Bonillo	Owner	1000
204	Hallgren	Owner	3000
205	Rege	Owner	2000

DWELLING

(124) SE ALEMANY and Admiral; 1-story and basement frame dwelling.

Owner—J. Horn, 5044 Mission St.
Architect—Not Given. \$4000

DWELLING

(195) W TWENTIETH AVE 30 S Kirkham St. One-story and basement frame dwelling.

Owner—J. Oyen, 526 5th Ave., San Francisco.
Architect—Not Given. \$3500

DWELLING

(196) NW CAYUGA 73 NE Tingley. One-story and basement frame dwelling.

Owner—H. Barber, 225 College Ave., San Francisco.
Architect—Not Given. \$3900

STORE

(197) NW MORAGA AND NINTH Ave. One-story and basement frame store.

Owner—Edth Bracco, 423 Kirkham St. and Maria Picetti, 1539 11th Ave., San Francisco.
Plans by H. J. Leasen, 1710 10th Ave., San Francisco. \$3750

DWELLING

(198) SE FORTIETH AVE. AND Irving St. One-story and basement frame dwelling.

Owner—J. Shemanski, 1017 Market St. San Francisco.
Architect—Not Given. \$4000

DWELLING

(199) SE QUESADA 125 S Newhall. Two-story and basement frame dwelling.

Owner—J. Carrera 1775 Quesada St., San Francisco.
Plans by Contractor.
Contractor—J. Yrigoyen, 1746 McKinon St., San Francisco. \$3000

DWELLING

(200) E 28th AVENUE 150 South Cabrillo St. One-story and basement frame dwelling.

Owner—S. Abend, 679 Larkin St., San Francisco.
Architect—R. Irvine.
Contractor—M. E. Vukicevich, 1442 Taraval Street. \$3000

DWELLING

(201) E TWENTY-NINTH AVE. 150 S Cabrillo St. One-story and basement frame dwelling.

Owner—J. Krug, 882 26th Ave., San Francisco.
Architect—Irvine & Ebbets, 2048 Market St., San Francisco.
Contractor—T. Strand, 471 Colon Ave., San Francisco. \$3950

DWELLINGS

(202) E TWENTY-FIRST AVE. 170 S Ocean Ave. Two one-story and basement frame dwellings.

Owner—A. J. Herzlg, 2300 Ocean Ave., San Francisco.
Architect—Not Given. \$4000 each

ALTERATIONS

(203) NO. 375 DAY ST. Alter dwelling.

Owner—J. Bonllo, Premises.
Architect—Not Given. \$1000

DWELLING

(204) S MORAGA ST. 120 E Ninth Ave. One-story and basement frame dwelling.

Owner—J. Hallgren, 1246-A Ninth Ave. San Francisco.
Architect—Not Given. \$3000

DWELLING

(205) E 27th AVE. 400 N San Diego; one-story frame dwelling.

Owner—G. A. Rege, 2363 Larkin St.
Architect—Irvine & Ebbets, 2048 Market Street. \$2000

ALAMEDA COUNTY

100	Hulse	Owner	2500
101	Wiggins	Owner	1800
102	Pedersen	Pedersen	4500
103	Ebe	Owner	1300
104	Pescio	Owner	4000
105	Heddelein	Rose	1000
106	Kroger	Owner	2700
107	Kroger	Owner	2700
108	Irwin	Hildebrand	5000
109	University	Kulchar	2000
110	Bakalain	Thrams	4500
111	University	Kulchar	1000

SHOP

(100) 4139 HOPKINS STREET, OAKLAND; one-story brick office and shop.

Owner and Bullder—L. B. Hulse, 4619 Meldon Ave., Oakland.
Architect—Not Given. \$2500

DWELLING

(101) NO. 6233 THORNHILL DRIVE, OAKLAND. One-story 4-room dwelling.

Owner—J. S. Wiggins, 5945 Marden Lane, Oakland.
Architect—Not Given. \$1800

DWELLING

(102) NW SPRUCE AND MONTROSE STS., BERKELEY. Two-story 7-room dwelling and garage.

Owner—T. Pedersen, 2145 Grant St., Berkeley.
Architect—F. H. Slocombe, 3830 Harrison St., Oakland.
Contractor—T. Pedersen, 2145 Grant St., Oakland. \$4500

STORE

(103) NO. 3014 THIRTY-EIGHTH AVE., OAKLAND. One-story store

Owner—George Ebe, 3919 Angelo St., Oakland.
Architect—Not Given. \$1300

DWELLING

(104) NO. 471-473 HARDY STREET, OAKLAND. One-story 1-room 2-family dwelling.

Owner—John Pescio, 5349 Miles Ave., Oakland.
Architect—Not Given. \$4000

REPAIRS

(105) NO. 835 EIGHTH AVE., OAKLAND. Fire repairs.

Owner—Philip Herrlein, 491 Crescent St., Oakland.
Architect—Not Given.
Contractor—A. H. Rose, 478 25th St., Oakland. \$1000

DWELLING

(107) 826 PACIFIC AVENUE, ALAMEDA; one-story five-room frame and stucco dwelling.

Owner and Builders—F. C. and Meta Kroger, 832 Pacific Ave., Alameda.
Plans by Owners. \$2700

DWELLING

(106) 830 PACIFIC AVENUE, ALAMEDA; one-story five-room frame and stucco dwelling.

Owner and Builders—F. C. and Meta Kroger, 832 Pacific Ave., Alameda.
Plans by Owners. \$2700

SERVIC STATION

(108) NW COR. SACRAMENTO ST. and Ashby Ave., BERKELEY; service station.

Owner—Sue J. Irwin, 1010 Delaware, Berkeley.
Plans by General Distributing Co.
Contractor—C. G. Hildebrand, 2164 Hearst Ave., Berkeley. \$5000

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

40 Sbrana Parodi 1355

ALTERATIONS

(40) SW SOMERSET 200 SE Felton SE 50 x SW 120 blk 29 map ppty Railroad Ave Hd Assn.; all work for alterations to dwelling.

Owner—Olinto and Iva Sbrana, 220 Somerset Street.
Architect—Not Given.

Contractor—G. Parodi, 2864 San Bruno Avenue.

Filed April 6, '33. Dated Feb. 17, '33.
When roof is on\$338.75
Brown coated 338.75
Building completed 338.75
Usual 35 days 338.75
TOTAL COST, \$1355.00

Bond, \$677.50. Sureties, P. Parodi and D. Ferrari. Limit, 90 days.

ALAMEDA COUNTY

15 Hafey Anderson 3810
16 Irwin Hildebrand 5000

DWELLING & GARAGE

(15) 2313 SPAULDING AVE., Berkeley; six-room dwelling and garage.
Owner—Albert and Mary E. Hafey, 2306 Spaulding Ave., Berkeley.
Architect—Not Given.

Contractor—Norman E. Anderson, 300 Barrett Ave., Richmond.

Filed, April 7, '33. Dated Mar. 30, '33.
Frame of house is up.....\$952.50
1st coat of plaster on 952.50
Building completed 952.50
Usual 35 days 952.50
TOTAL COST, \$3810

Limit, 65 days. Plans and Specifications filed.

SUPER-SERVICE STATION.

(16) NW CCR. ASHBY AVE. and Sacramento St., Berkeley; general construction on super-service station.

Owner—Sue J. Irwin, care Board of Education, Berkeley.
Plans by General Distributing Company, Oakland.

Contractor—E. G. Hildebrand, Berkeley.

Filed April 11, '33. Dated April 10, '33.
When work starts\$1250
Foundations in place 1250
Completed and accepted 1250
Usual 35 days 1250
TOTAL COST, \$5000

Bond, \$5000. Sureties, Maryland Casualty Co. Forfeit, \$10 per day. Limit 45 days. Plans and Spec. filed.

BUILDING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

- 1.—Apartments
- 2.—Bonds
- 3.—Churches
- 4.—Factories and Warehouses
- 5.—Flats
- 6.—Garages and Service Stations
- 7.—Federal Buildings
- 8.—Club Buildings
- 9.—Hospitals
- 10.—Hotels
- 11.—Ice and Cold Storage Plants
- 12.—Power Plants
- 13.—Public Buildings, Fire Houses and Jails
- 14.—Residences
- 15.—Schools
- 16.—Banks, Stores and Offices
- 17.—Theatres
- 18.—Wharves & Docks
- 19.—Misc. Const.
- 20.—Misc. Supplies & Materials

1—APARTMENTS

Segregated Bids Being Taken.
APARTMENTS Cost, \$250,000
SAN FRANCISCO. NW Second and Parnassus Avenues.

Five-story, basement and sub-basement steel frame and reinforced concrete apartments (55 1- to 4-room apts.) composition roof, two elevators, steam heating plant (gas fired boilers) electric refrigeration, hardwood floors, wall beds, colored tile baths and kitchens, etc.

Owner—E. V. Ralsch.
 Architect—H. C. Baumann, 251 Kearny Street, San Francisco.

Mechanical Engineer—C. H. Brazzle, % Architect.

Structural Engineer—Jas. Smith, 251 Kearny St., San Francisco.

Bids are being received on concrete work, rough and finish carpentry, rough hardware, masonry, plastering, heating, ventilating, electric, lathing and plastering, glass and glazing, steel sash, tile, mechanical refrigeration, painting and elevators.

Additional Sub-Contracts Awarded.
APARTMENTS Cost, \$20,000
SAN FRANCISCO. N West Portal W Fourteenth Avenue.

Three-story and basement frame and stucco apartments (12 2- and 3-room apts.) tile and composition roof, fireplaces, steam heating system, hardwood floors, tile baths, electric refrigeration, etc.

Owner—Mrs. F. Nelson.
 Architect—H. C. Baumann, 251 Kearny St., San Francisco.

Contractor—San Francisco Constr. Co., 3159 Fillmore St., San Francisco.

Hardwood Floors—Oak Floor Co., 325 Arlington St., San Francisco.

Plastering—Marconi Plastering Co., 1737 Beach 1, San Francisco.

Painting—R. P. Poall, 3159 Fillmore St., San Francisco.

Other awards previously reported.
 Kraus, 741 Tehama St.
 Other awards previously reported.

3—CHURCHES

Preparing Plans.
CHURCH, ETC. Cost, \$150,000
LONG BEACH, Los Angeles Co., Cal.

Reconstruct church, rectory and school (reinforced concrete construction, etc.)

Owner—Roman Catholic Bishop of Los Angeles and San Diego.

Architect—H. C. Newton and R. D. Murray, Architects Bldg., Los Angeles.

Plans Completed.
CHURCH Cost, \$—
MONTEREY, Monterey Co., Calif.
 One-story frame and stucco church (to seat 200).

Owner—Christian Science Church.
 Architect—Swartz & Ryland, Spazier Bldg., Monterey, and Carmel.
 It is expected to ask for bids shortly.

Plans Being Completed.
REBUILD Cost, \$8500
SAN FRANCISCO. No. 2475 California Street.

Rebuild structure recently destroyed by fire for frame gymnasium.

Owner—St. Paul's Episcopal Church (Rev. Leslie C. Kelly, Pastor).
 Architect—Arnold Constable, 580 Market St., San Francisco.
 Bids will be asked shortly.

Sub-Contracts Awarded.
ADDITION Cont. Price, \$3258
SAN FRANCISCO. No. 750 Twenty-fifth Avenue.

Frame addition to Jewish Synagogue (raise roof, add social rooms, etc.)

Owner—Chebra Thilim.
 Architect—J. Lloyd Conrich, 815 25th Ave., San Francisco.

Contractor—William Spivock, Hobart Bldg., San Francisco.

Plumbing—E. Sugarman, 3624 Geary St., San Francisco.

Lumber—Loop Lumber Co., Central Basin, San Francisco.

Concrete—Bay Concrete Co., 365 Ocean Ave., San Francisco.

4—FACTORIES & WAREHOUSES

April 7, 1933

Contract Awarded.
EXTENSION Cost, \$—
SAN FRANCISCO. Pier No. 35.

Eighty-four foot shed extension to Pier No. 35 (wood construction, passenger gallery along side of existing shed; offices, etc.)

Owner—State of California (Harbor Commission).

Engineer—Frank G. White, Ferry Bldg., San Francisco.

Contractor—Frank J. Reilly, 6350 Fulton St., at \$32,831.

Steel Rolling Doors—Kennerson Mfg. Co., 361 Brannan St., at \$5411.

Following is complete list of bids received:

Frank J. Reilly.....	\$32,831
Leo Epp	33,877
G. W. Williams Co.....	35,470
George J. Maurer.....	35,890
R. W. Littlefield.....	35,974
E. T. Lesure.....	36,754
Young & Horstmeier.....	37,497
Cahill Bros.	38,500
N. H. Sjoberg & Son.....	39,484
A. H. Vogt.....	40,423
Barrett & Hilp.....	41,946
M. E. McGowan.....	42,983
F. C. Amoroso & Sons.....	43,400
J. Harold Johnson.....	44,772
A. Young	55,295

Steel Rolling Doors

Kennerson Manufacturing Co.....	\$5411
Rolph Mills & Co.....	5470
D. A. Pancoast.....	7883

Planned.
BREWERY Cost, \$80,000
SEATTLE, Washington No. 548-554 First Avenue South.

Brewery (new machinery, etc., capacity of 40,000 barrels).

Owner—Pilsener Brewing Co., Seattle, % L. B. Schwellenbach, Alaska Bldg., Seattle.

Engineer—Konrad Lux, % Central

Cold Storage Co., 548 First Ave., South, Seattle.

Planned.
CANNERY Cost, \$—
MARTINEZ, Contra Costa Co., Cal. Cannery.

Owner—Western California Canneries, Inc.

Architect—Not Given.

Directors of the company are S. M. Roder, H. A. Levinson, L. R. Mercado, Jr., Wm. R. McCord and A. S. Nebrough, all of San Francisco. Further details will be announced shortly

Sub-Contracts Awarded.
LAUNDRY Cost, \$10,000
BERKELEY, Alameda Co., Cal. Shattuck Avenue.

One-story brick laundry (tile roof, steel sash and steel trusses, etc.)

Owner—Berryman French Laundry, 1448 Shattuck Ave., Berkeley.

Architect—Not Given.

Contractor—Gaubert Brothers, 4735 Brookdale Ave., Oakland.

Lumber—Loop Lumber Co., Broadway and Blanding Sts., Alameda.

Steel Sash—Soule Steel Co., 1750 Army St., San Francisco.

Plumbing—Coveney & Ehret, 1605 Bonita Ave., Berkeley.

Plastering—J. D. Allison, 4130 Waterhouse St., Oakland.

Tile Work—Superior Tile & Products Co., 3743 Broadway, Oakland.

Painting, roofing and sheet metal awards will be made shortly.

Contract Awarded.
ALTERATIONS Cost, \$40,000
SAN JOSE, Santa Clara Co., Cal. The Alameda.

Alterations and additions to brewery and malt house (piping and fittings equipment, etc.)

Owner—Pacific Brewing & Malt Co., (Charles Colpe, et al), Russ Bldg., San Francisco.

Architect—W. P. Day, Financial Center Bldg., San Francisco.

Contractor—Cahill Bros., 206 Sansome St., San Francisco.

Planned.
BREWERY Cost, \$350,000
PORTLAND, Oregon.

Brewery (100,000 barrel per year capacity).

Owner—Oregon Breweries and Hop-yards Affiliated (James E. Edmiston, President), American Bank Bldg., Portland.

Architect—Not Given.

Other officers of the company are C. H. Eisman, Secretary-Treasurer; Dane J. Purvis, vice-President; Frederick Glatz and Frank E. Watkins, Directors.

BEAUMONT, Riverside Co., Cal.—

Bids are being taken by Ben Radtke, purchasing agent for Wenzel and Henoch Const. Co. (contractor for the San Jacinto tunnel) 5th and California Sts., Beaumont, for constructing a building to house the company's machine shop. The proposed building will be approximately 100x200 ft. and will have concrete foundation, part concrete floor, corrugated iron sides and roof. Bids are wanted at once.

Plans Completed.

ADDITION Cost, \$5000
SAN FRANCISCO. E Tennessee, bet. 20th and 22nd Streets.

One-story steel and concrete addition to shop (65x100 feet) Summerbell wood trusses, steel sash, etc.

Owner—Graham Fuel & Drayage Co. (Mr. Horner), 849 22nd St., San Francisco.
 Engineers—Ellison & Russell, Pacific Bldg., San Francisco.

Completing Plans.
 PLANT Cost, \$50,000
 SAN FRANCISCO. Washington St.
 Two-story reinforced concrete printing plant.

Owner—Edward Barry Co., 32 Clay St., San Francisco.

Architect—H. A. Minton, 525 Market St., San Francisco.

Engineer—L. H. Nishkian, 525 Market St., San Francisco.

Bids will be asked in about one week

To Ask Bids Within A Few Days.
 MECHANICAL WORK, ETC. \$—
 SAN FRANCISCO. Mission St., bet. Fourth and Fifth Sts.

Plumbing, heating, wiring and sprinkler system in connection with warehouse under construction.

Owner—The Emporium, 835 Market St. Plans by Engineering Dept. of Owner.
 Contractor—K. E. Parker Co., 135 South Park, San Francisco.

Plans Completed.
 ALTERATIONS Cost, \$—
 SALINAS, Monterey Co., Cal. North Main Street.

Alterations to building for brewery (new equipment, etc.)

Owner—Salinas Valley Brewing Co. Architect—Not Given.

The corporation's organizers are: Robert L. Neidhart of Oakland, Wm. M. Parker and M. V. Waldo of Monterey and F. R. Calvert, Ed. Smith, T. G. Ryan and M. W. Power of Salinas. (1179)

Carpentry & Steel Contracts Awarded.
 REMODELING Cost, \$75,000
 FRESNO, Fresno Co., Cal. No. 100 M Street.

Remodel five-story concrete and brick brewery (steel frame and mill type construction addition with concrete floors).

Owner—Fresno Beverage Co. (D. H. Swan, W. I. Hollingsworth, et al) 100 M St., Fresno.

Architect—Chas. Butner, Cory Bldg., Fresno and Glikbarg Bldg., Salinas
 Carpentry and Steel—Fisher & McNulty, Mattei Bldg., Fresno.

Bids are being received by the owner on machinery, lumber, plumbing, etc.

Planned.
 DAIRY PLANT Cost, \$200,000
 FRESNO, Fresno Co., Cal. Site not Selected.

New dairy plant.

Owner—Jersey Farm Dairy and Benham Ice Cream Co. (Dudley Carlson, Mgr.), 1420 H St., Fresno.

Architect—Not Selected.

5—FLATS

April 7, 1933

Sub-Bids Being Taken.
 FLATS Cost, \$—
 SAN FRANCISCO. Jefferson St. near Fillmore Street.

Two two-story and basement frame and stucco flats (2 6-room flats each) tile roof, gas hot air heating, electric refrigeration; canvas walls, etc.

Owner—J. Campanelli.
 Architect—Farr & Ward, 68 Post St., San Francisco.

Contractor—J. Del Favero, 666 Mission St., San Francisco. (1135) 5

Sub-Bids Being Taken.
 FLATS Cost, \$—
 SAN FRANCISCO. Jefferson Street near Fillmore.

Two-story and basement frame and stucco flats (2 6-room flats); tile

roof, gas hot air heating system, electric refrigeration, hardwood floors, etc.

Owner—John Ferrari.
 Architect—Farr & Ward, 68 Post St., San Francisco.

Contractor—J. Del Favero, 666 Mission St., San Francisco.

6—GARAGES & SERVICE STATIONS

Contract Awarded.
 SERVICE STATION Cost, \$5000
 BERKELEY, Alameda Co., Cal. NW Ashby Ave. and Sacramento St.
 Super-service station.

Owner—Sue J. Irwin, care Board of Education, Berkeley.

Plans by General Distributing Co., Oakland.

Contractor—E. G. Hildebrand, 2164 Hearst Ave., Berkeley.

Contract Awarded.
 SERVICE STATION Cost, \$—
 OAKLAND, Alameda Co., Cal. 1024-1038 16th Street.

One-story brick service station and one-story brick super-service station.

Owner—Olcese Estate.
 Architect—Not Given.

Contractor—R. E. Norris, 359 17th St., Oakland.

Contract Awarded.
 SERVICE STATION Cost, \$15,000
 BERKELEY, Alameda Co., Cal. Vine and Shattuck Ave.

Masonry super service station.

Owner—Standard Oil Co., 225 Bush St., San Francisco.

Plans by Eng. Dept. of Owner.
 Contractor—Geo. Anderson, 211 Hanover St., Oakland.

7—FEDERAL BUILDING

REDLANDS, San Bernardino Co., Cal.—North-Moller Co., L. P. Scherer, superintendent, at site, reports additional subcontracts for the U. S. post office under construction in Redlands awarded as follows: Plumbing and sprinklers to Modern Plumbing Co., Redlands; heating and gas piping to Jones Heating Co., 497 S Broadway, Pasadena; concrete and cement work, masonry and carpentry to Fred J. Carstens, 1012 Elton St., Baldwin Pk.; cement to California Portland Cement Co. G. S. Wilson, architect, 416 Mission Inn, Riverside.

PEARL HARBOR, T. H.—Following are additional contractors who have procured plans for the purpose of submitting bids to the Bureau of Yards and Docks, Navy Department, on May 3rd, for construction of pier and two quays of reinforced concrete construction at Pearl Harbor, T. H. Specification No. 7224:

Rockwood Sprinkler Co., Seattle, Wash.

E. T. Thurston, 57 Post Street, San Francisco.

Sheble Constr. Co., Seattle, Wash.

Theo Davies, Matson Bldg., San Francisco.

Duncanson Harrelson Co., deYoung Bldg., San Francisco.

California Portland Cement Co. Soule Steel Co., 1750 Army St., San Francisco.

United Commercial Co., 234 Stuart St., San Francisco.

PEARL HARBOR, T. H.—Following are additional contractors who have procured plans for the purpose of submitting bids to the Bureau of Yards and Docks, Navy Department, on May 3 for buildings at the Navy Yard, Pearl Harbor, T. H. Specification No. 7074:

Rockwood Sprinkler Co., Seattle, Wash.

Otis Elevator Co., 1 Beach St., San Francisco.

Grinnell Co. of the Pacific, Fifth and Brannan Sts., San Francisco.

Mangrum & Holbrook, 1235 Mission St., San Francisco.

A. H. Meyn, 163 Second St., San Francisco.

Chas. Nelson, 230 California St., San Francisco.

Folsom Street Iron Works, 17th and Missouri Sts., San Francisco.

Stuart Mannell & Co., Arctic Bldg., Seattle, Wash.

Contract Awarded.
 POST OFFICE Cont. Price, \$169,000
 LONGVIEW, Washington.
 Class A Post Office.

Owner—United States Government.
 Architect—Bebb & Gould, Hoge Bldg., Seattle.

Contractor—Hoffman Constr. Co., Public Service Bldg., Portland, Ore.

The award was made for the completion of the post office for which the A. M. Lundbergh Co., St. Louis, Mo., had the original contract.

April 13, 1933

Sub-Contracts Awarded.
 SANITARIUM Cont. Price, \$239,900
 ALBUQUERQUE, New Mexico.

Four-story, T-shaped sanitarium (144 by 200 feet) two physicians' cottages, garage and quarters building (concrete, hollow tile & brick construction with terra cotta and stucco exteriors).

Owner—United States Government.
 Plans by Dept. of Interior, Washington, D. C.

Contractor—Robt. E. McKee, El Paso, Texas, and Central Building, Los Angeles.

Acoustical Treatment—Hartman-Jones Co., Dallas, Texas.

Dampproofing—Pioneer Shingle & Roof Co., Albuquerque, N. M.

Sheet Metal—Phillips Sheet Metal Works, Albuquerque, N. M.

Linoleum and Cork Composition Tile—W. E. Cooper Lbr., Co., Los Angeles.

Bar Joists and Top Lath—Kalman Steel Corp., Petroleum Building, Houston, Texas.

Kalamein Doors—Phillip Mfg. Co., Easthampton, Mass.

Dumbwaiter Doors—J. L. O'Hearn, 1913 Harwood, Dallas, Texas.

Lumber—J. C. Baldrige Lbr. Co., Albuquerque, N. M.

Metal Partitions—The Mills Co., 965 Wayside Road, Cleveland, Ohio.

Metal Cabinets—Excel Metal Cabinet Co., 101 Park Ave., New York.

Pressed Metal Frames—A. J. Bayer Co., Slausen and Santa Fe Avenues, Los Angeles.

Steel Windows and Metal Window Screens—Detroit Steel Prod. Co., Detroit, Mich.

Plumbing, Heating, Water Softening Equipment, Cold Storage Equip., Dumbwaiter and Vacuum Cleaning—Thos. L. Dawson Co., 2035 Washington St., Kansas City, Mo.

X-Ray Protection—Ray Proof Corp., 6905 Ridge Blvd., Brooklyn, N. Y.

Terra Cotta—American Terra Cotta Co., Builders' Bldg., Chicago.

Brick Materials—Acme Brick Co., Ft. Worth, Texas; El Paso Brick Co., El Paso; Las Vegas Brick Co., Las Vegas, N. M.

Grading, Roads, Hauling and General Excavation—Springer Transfer Co. Inc., Albuquerque, N. M.

Glass and Glazing—Southwestern Sash and Door Co., 405 Mills St., El Paso, Texas.

Hardware—Momsen-Dunnegan-Ryan Co., El Paso, Texas.

Miscellaneous and Ornamental Iron—Decatur Iron & Steel Co., Decatur, Ala.

Reinforcing Steel—Missouri Rolling Mill Corp., 2800 Manchester St., St. Louis.

Structural Steel—Virginia Bridge and Iron Co., Birmingham, Ala.
Millwork—Tibbs-Dorsey Mfg. Co., Oklahoma City, Okla.
Painting—C. H. Williams, 2714 Wyoming St., El Paso, Texas.
Plastering—J. L. Duffin, 310 Barrett Ave., San Antonio, Texas.
Lathing—Southwestern Lathing Corp., 501 Burt Bldg., Dallas, Texas.
Limestone—Ingalls Stone Co., Bedford, Indiana.
Tile—West Texas Tile Co., Abilene, Texas.
Wiring—Reynolds Electric & Engr. Co., El Paso, Texas.

WASHINGTON, D. C. — Pioneer Sand & Gravel Co., 901 Harrison St., Seattle, Wash., at \$2984 awarded contract by Veterans' Administration for installing linoleum on floors, rubber stair tread covering and metal nosings in Building No. 68 at the Veterans' Administration Hospital, Walla Walla, Washington. Work involves preparing cement, tile and wood floors to receive new linoleum, furnishing and installing linoleum in rooms indicated on drawings.

WASHINGTON, D. C.—The following have procured plans for the purpose of submitting bids to the Treasury Department on April 26 for furnishing and installing interior lighting fixtures at the United States post office in Cedar City, Utah:

F. W. Wakefield Brass Co., Vermilion, Ohio.
 Frankford Lighting Fixture Manufacturers, 4273 Frankford Ave., Philadelphia, Pa.
 Cassidy Co., Inc., 101 Park Avenue, New York, N. Y.
 Michigan Chandelier Co., 3130 Chene St., Detroit, Mich.
 Maier Electric Co., 213 E Hennepin Ave., Minneapolis, Minn.
 Conrad-Schmidt Studios, 11 W 42nd St., New York, N. Y.
 Sterling Bronze Company, Inc., 2310 Bridge Plaza St., Long Island City, New York.
 Moe - Bridges Co., 236 Broadway, Milwaukee, Wis.
 H. A. Framburg & Co., 3320 Carroll Ave., Chicago, Ill.
 J. Schoenvack Electric Co., 334 Sutter Ave., Brooklyn, N. Y.
 Metalcrafts, 712 Reading Road, Cincinnati, Ohio.
 Hillam, Inc., 730 N Jackson Street, Milwaukee, Wis.
 Dayton Mfg. Co., Dayton, Ohio.
 Willy H. Lau Studio, 1514 N Wells St., Chicago, Ill.
 Zenith Electric Const. Co., Inc., 207 E 149th St., Bronx, New York City.
 Western Light & Fixture Co., Box 1326 Arcade Annex, Los Angeles.
 Kayine Co., 600 Huron Ave., Cleveland, Ohio.
 The Simes Co., 22 W 15th St., New York, N. Y.
 Cox, Nostrand and Gunnison, 339 Adams St., Brooklyn, N. Y.
 Walter G. Warren, 363 E Ohio St., Chicago, Ill.
 Lightolier Co., 569 Broadway, New York, N. Y.
 Illuminating Mfg. Co., 15-17 South Clinton St., Chicago, Ill.
 Ferro Art Lighting Fixture Co., 12 Vestry St., New York, N. Y.
 Edwin F. Guth Co., Jefferson and Washington Aves., St. Louis, Mo.
 Benson Brass & Electric Co., 3001 E 18th St., Kansas City, Mo.
 Majestic Metal Spinning & Stamping Co., 61-67 Navy St., Brooklyn, N. Y.
 Mid West Chandelier Co., 15th and Gentry Sts., North Kansas City, Mo.
 Butler & Kohaus, Inc., 2823 Oliver Ave., St. Louis, Mo.
 Bailey-Reynolds Chandelier Co., 1529 McGee St., Kansas City, Mo.
 O. R. Evans & Bros., 1323 I Street N. W., Washington, D. C.

Michaels Art Bronze Co., 235 Court St., Covington, Ky.
 Cannon & Fetzter, Templeton Bldg., Salt Lake City, Utah.
 Solar Lighting Fixture Co., 444 N Western Ave., Los Angeles.
 H. E. McArthur, Inc., 141 N La Brea Ave., Los Angeles.
 General Bronze Corp., 27th St. and 27th Ave., Minneapolis, Minn.
 Shapfro & Aronson Co., 29 Warren St., New York, N. Y.
 Gill Glass & Fixture Co., 122 West Baltimore St., Baltimore, Md.
 Ivanhoe Division of Miller Company, Meriden, Conn.
 Reading Chandelier W'ks, 503 Penn St., Reading, Pa.

SEATTLE, Wash.—The American Builders, 601 Alaska St., Seattle, at \$6890 submitted low bid to the regional forest for the construction of 26 lookout houses to be erected in Seattle. Following bids received:
 The American Builders.....\$ 6,890
 Alladin Company..... 7,336
 Enterprise Planing Mill..... 7,742
 Nicolai-Nappach 7,722
 B. T. Allyn..... 7,904
 E. F. Balgeman..... 8,473
 Pacific Mfg. Co..... 9,382
 Pacific Systems Homes, Inc., Los Angeles 10,166

WASHINGTON, D. C.—As previously reported, Largura Constr. Co., Inc., Gary, Indiana, at \$509,000 for item 1 and \$523,000 for item 2, submitted low bid to Treasury Department, Washington, D. C., for the construction of a two-story steel and masonry Post Office building to be erected in San Diego. William Templeton Johnson, San Diego Trust & Savings Bldg., San Diego, Architect. Following bids received:

Largura Constr. Co., Inc., Gary Indiana(1) \$509,000
 (2) 523,000
 A. W. S. Constr. Co., Chicago, Illinois(1) 510,000
 (2) 525,000
 Ring Constr. Co., Minn.....(1) 562,000
 (2) 584,000
 Murch Bros. Constr. Co., St. Louis, Mo.(1) 581,000
 (2) 593,000
 Robert E. McKee, Los Angeles(1) 583,000
 (2) 587,600
 Floyd Shofner, L. A.....(1) 588,000
 (2) 593,000
 Coath & Goss, Inc., Chicago, Illinois(1) 590,000
 (2) 600,000
 Jacobson Bros. Co. Chicago..(1) 597,000
 (2) 614,000
 James McHugh Sons, Inc., Chicago, Illinois(1) 603,500
 (2) 621,000
 Herbert M. Baruch Corp., Ltd., Los Angeles(1) 610,000
 (2) 620,000
 Rosen & Felschel, Inc., Chicago, Illinois(1) 618,438
 (2) 622,938
 N. Wohlfeld, Dallas, Tex..(1) 631,834
 (2) 639,834
 K. E. Parker Co., S. F.....(1) 642,000
 (2) 657,000
 Campbell and Doran, San Diego(1) 648,600
 (2) 662,600
 Dinwiddie Construction Co., San Francisco(1) 650,999
 (2) 660,000
 C. Z. Wopshall and Los Angeles Contracting Co., Los Angeles(1) 667,000
 (2) 678,000
 W. E. Kler Construction Co., San Diego(1) 670,737
 (2) 683,637
 Bids held under advisement.

Site Selected.
POST OFFICE Cost, \$76,000
 MONTESANO, Wash. SW Pioneer Ave. and First St.
 Post Office Building.
 Owner—United States Government.
 Architect—Not Selected.

SILVER CITY, New Mexico—Until 3 P. M., April 26, supplemental bids will be received by the Treasury Department, Washington, D. C., for the construction of the United States Post Office at Silver City, N. M. The building will be a two-story and basement structure, 75x98 feet in area, with limestone or terra cotta exterior and tile roof.

WASHINGTON, D. C. — Bureau of Yards and Docks, Navy Department, has cancelled the call for bids for the three-story extension to storehouse at the Naval Fleet Air Base, Pearl Harbor, T. H. Bids were to have been opened May 3. Specification No. 7085.

WASHINGTON, D. C.—Until April 26, 2 P. M., bids will be received by Treasury Department, Office of the Supervising Architect, Washington, D. C., for furnishing and installing interior lighting fixtures at the United States Federal Office Building at Cheyenne, Wyo. Plans and specifications available from above office.

BEVERLY HILLS, Los Angeles Cal.—Sarver & Zoss, 1015 W 4th St., Los Angeles, awarded additional sub-contracts for the erection of the U. S. post office in Beverly Hills, for the Treasury Department, as follows: Sheet metal work to Emil Brown and Co.; glass and glazing to W. P. Fuller & Co.; structural glass to Vitrolite Const. Co. Ralph C. Flewelling, architect; Allison & Allison, consulting architects.

WASHINGTON, D. C. — Bostwell & Goodell Company, Norwalk, Ohio, at \$309 submitted low bid to Division of Supply, Treasury Department, for 22 Venetian blinds for the Petaluma Post Office. Following bids received: Bostwell & Goodell Co., Norwalk, Ohio, \$309.
 W. F. McCreo Co., Oakland, \$321.30.
 Neilson Furniture Co., Petaluma, \$331.20.
 Burlington Venetian Blind Co., Burlington, Vt., \$330.
 E. C. Dehn & Co., San Francisco, \$349.95.
 Acme Screen Co., Fort Worth, Texas, \$420.
 Cline & Stone Co., Petaluma, \$459.95.
 Western Venetian Blind Co., Washington, D. C., \$459.75.
 Bids held under advisement.

WASHINGTON, D. C.—Walter G. Warren Company, 363 E. Ohio Street, Chicago, Ill., at \$487 awarded contract by Treasury Department for furnishing and installing interior lighting fixtures at the United States Post Office in Vallejo, Calif.

Planned.
ALTERATIONS Cost, \$3000
 OAKDALE, Stanislaus Co., Cal. F Street.
 Alterations and additions to service station (new roof, canopies, etc.)
 Owner—Standard Oil Company.
 Plans by Engineering Dept. of Owner. (1151) 6

WASHINGTON, D. C.—As previously reported, H. A. Framburg & Co., 3320 Carroll Ave., Chicago, at \$1,670 submitted low bid to Treasury Department for furnishing and installing interior lighting fixtures at the United States Post Office at Reno, Nevada. Following bids received:

H. A. Framburg & Co., Chicago, \$1,670
 E. F. Gnth Co., St. Louis, 1,710
 Moe-Bridges Co., Milwaukee, 1,710
 W. G. Warren & Co., Chicago, 1,970
 Bids held under advisement.

PEARL HARBOR, T. H.—I. Nekomoto, Honolulu, at \$7450 submitted low bid to Fourteenth Naval District, Pearl Harbor, for cleaning and painting the coaling plant trestle, two coal hoisting towers and two coal chutes at the 14th Naval District (Naval Fuel Depot) Pearl Harbor. Specification No. 7236. Following bids received:

I. Nekomoto, \$ 7,450
 K. Hamada, 10,479
 Crozier Bros., 11,918
 Pacific Bridge Painting Co., 14,572
 T. R. Hanff, 16,682
 Arenz-Warren Co., 17,840
 Hawaiian Constr. Co., 20,989
 E. K. Sugihara, 22,832
 Osaki & Sakai, 24,948
 L. H. Peary, 26,000
 D. Zelinsky, 33,730
 Bids held under advisement.

WASHINGTON, D. C.—As previously reported, Worsham Bros., Knoxville, Tenn., at \$359,867 for cells and \$324,867 for concrete work, submitted low bid to Treasury Department for the construction of cell blocks, etc., for the Southwestern Reformatory at El Reno, Okla. Following is complete list of bids:

(1) steel cells; (2) concrete cells.
 Worsham Bros., Knoxville, Tennessee (1) \$359,867
 (2) 334,867
 Murch Bros. Const. Co., St. Louis, Mo. (1) \$370,495
 (2) 310,495
 Henry B. Ryan & Co., Chicago, Ill. (1) \$375,000
 (2) 325,000
 Rosen & Fischel, Inc. Chicago, Ill. (1) \$376,262
 (2) 317,701
 W. S. Bellows Const. Co., Oklahoma City, Okla. (1) \$377,150
 (2) 322,300
 James McHugh Sons, Inc., Chicago, Ill. (1) \$387,400
 (2) 337,400
 McCarthy Bros. Const. Co., St. Louis, Mo. (1) \$387,985
 (2) 325,535
 Henger & Chambers Co., Dallas, Texas (1) \$390,000
 (2) 336,000
 Nathan Wohlfield, Dallas, Texas (1) \$394,236
 (2) 337,083
 D. C. Bass & Sons Const. Co., Enid, Okla. (1) \$394,294
 (2) 337,001
 Bids held under advisement.

WASHINGTON, D. C.—Following is a complete list of the bids received by the Treasury Department for the construction of a three-story Class A Post Office building to be erected in Phoenix, Arizona.

The building will cover area of 195x163 ft.; steel frame construction, concrete and brick walls, tufa stone or terra cotta exterior, granite base course, clay tile roofing, hollow tile, vaults, asphalt block paving, waterproofing, miscellaneous and ornamental iron, bronze and hollow metal work, bronze windows, metal counters and cupboards, fire hose and first aid cabinets, mail chute, insulation, promenade tile, stucco, marble and slate work, tile, terrazzo, wood block linoleum, cork carpet, cork composition and rubber floors, acoustical treatment, acoustical plaster, cold storage doors, metal and glass partitions, metal covered doors, screens, lawn sprinkler system, ventilating and air-conditioning system, vacuum heating system, etc. The general contract in-

cludes all work except elevators. Lescher & Mahoney, architects, Title and Trust Bldg., Phoenix.

(1) Tufa Stone; (2) Tufa Stone, less base; (3) Terra Cotta; (4) Air Conditioning System.

Great Lakes Constr. Co., Chicago, Ill. (1) \$848,848
 (2) 829,928
 (3) 817,178
 (4) 85,000

Robert E. McKee, El Paso, Texas (1) 856,000
 (2) 830,000
 (3) 817,000
 (4) 84,000

Jacobson Bros. Co., Chicago, Ill. (1) 857,000
 (2) 841,000
 (3) 790,000
 (4) 75,000

Murch Bros. Constr. Co., St. Louis, Mo. (1) 860,000
 (2) 810,000
 (3) 770,000
 (4) 100,000

James McHugh Sons, Inc., Chicago, Ill. (1) 879,900
 (2) 861,900
 (3) 802,900
 (4) -----

M. E. Gillioz, Monett, Mis. (1) 889,000
 (2) 888,000
 (3) 871,000
 (4) 100,000

James I. Barnes, Springfield, Ohio (1) 879,600
 (2) 866,800
 (3) 822,000
 (4) 90,000

Coath & Goss, Inc., Chicago, Ill. (1) 907,300
 (2) 892,300
 (3) 867,300
 (4) 100,000

Hanson Bros. Co., Chicago, Ill. (1) 939,544
 (2) 927,544
 (3) 888,544
 (4) 100,000

J. W. Howard, Cheyenne, Wyoming (1) 958,000
 (2) 943,000
 (3) 905,000
 (4) 99,000

Charles P. Wills, Inc., New York City (1) 964,281
 (2) 949,400
 (3) 908,400
 (4) 103,500

Swenson Constr. Co., Kansas City Mo. (1) 965,000
 (2) 950,000
 (3) 885,000
 (4) 98,500

Herbert M. Baruch Corp., Los Angeles (1) 969,000
 (2) 947,000
 (3) 884,000
 (4) 95,000

K. E. Parker Co., San Francisco (1) 996,000
 (2) 943,000
 (3) 920,000
 (4) 100,000

J. L. Simmons Co., Inc. Decatur, Ill. (1) 998,000
 (2) 978,000
 (3) 953,000
 (4) 92,000

Air conditioning system is included in all items.

YUMA, Ariz.—Bannister - Field Co., 4101 Goodwin Ave., Los Angeles, has been authorized by the Treasury Department to proceed with the construction of the United States post office in Yuma. The contract was awarded on February 20 at \$129,800. The contractors report the following sub - contracts awarded: Structural steel to McClintic-Marshall Co.; reinforcing steel to Pacific Coast Steel Corp.; tufa stone to Arizona Tufa Co.; steel sash to Detroit Steel Products Co. The building will be a two-story

and basement, reinforced concrete structure, 80x106 feet in area, with tufa stone exterior, granite steps, tile and composition roofing, dampproofing, hollow tile, wrought iron railings, steel windows, vault doors, insulation materials, marble and tile work, cork carpet, wood block flooring, steam heat, ventilating system, etc. Roy Place, architect, 70 N Stone Avenue, Tucson.

(6497) 1st report Aug. 29, 1931; 15th Feb. 21, 1933. 7

STOCKTON, San Joaquin Co., Cal.—W. F. McCrea, 731 E 8th St., Oakland, at \$509.77 submitted low bid to Treasury Department to furnish 71 Venetian blinds for the U. S. post office at Stockton.

LONG BEACH, Cal.—Until Wednesday, April 19, bids will be received by the Division of Supply, Treasury Department, Washington, D. C., to furnish 155 Venetian blinds for the Long Beach post office; Proposal 6531.

FT. SILL, Okla.—Until Friday, Apr. 28, bids will be received by the Constructing Quartermaster, Ft. Sill, for the construction of Unit D to field artillery battalion barracks at Ft. Sill. Plans may be obtained from the quartermaster upon deposit of \$25.

SUNNYVALE, Santa Clara Co., Cal.—Dinwiddie Const. Co., Crocker Bldg. San Francisco, awarded the roofing contract to Fred. Hayden, 369 Stockton Ave., San Jose, in connection with the construction of the balloon hangar at the U. S. Naval Air Station, Sunnyvale. Spec. No. 7024. Other awards previously reported.

Preliminary Plans Complete.
 POST OFFICE Cost, \$189,000
 INGLEWOOD, Los Angeles Co., Calif. SE Kelso and Hillcrest Blvd. One-story and mezzanine floor steel and masonry post office (136x100). Owner—United States Government. Architect—Myron Hunt and H. C. Chambers, 408 S Spring St., Los Angeles.

MARCH FIELD, Riverside Co., Cal.—Cresmer Mfg. Co., 2601 Third St., Riverside, submitted low bid and was awarded contract by the Constructing Quartermaster at March Field at \$1596 for construction of foundation for officers' mess building at March Field. Other bids were: Bennett & Taylor, \$1623; T. C. Pritchard, \$1664; H. G. Klusman, \$1750; Campbell Construction Co., \$1802; Herbert M. Baruch Corp., \$2368.

To Ask Bids April 15—To Be Opened May 15.

HEADQUARTERS BLDG. Cost, \$40,000
 SAN RAFAEL, Marin Co., Cal. Hamilton Field.

Concrete and hollow tile headquarters building (177 feet long, two-story center) tile roof, Spanish Mission style.

Owner—United States Government. Plans by Constructing Quartermaster, Hamilton Field.

May 15 is the probable opening date.

PEARL HARBOR, T. H.—Following are additional contractors who have procured plans for the purpose of submitting bids to the Bureau of Yards and Docks, Navy Department, Washington D. C., on May 10 in connection with the additions and alterations to existing foam fire protection system and pump houses at the Naval Fuel Depot, Pearl Harbor. Specification No. 7068:

W. P. Turston Co., Richmond, Va.
 Dayton-Dowd Co., Quincy, Ill.
 Blake-Palm Elevator Corp., Washington, D. C.

PEARL HARBOR, T. H.—Following are additional contractors who have procured plans for the purpose of submitting bids to the Bureau of Yards and Docks, Navy Department, Washington, D. C., on May 3 for pier and two quays of reinforced concrete construction, etc., to be constructed at Pearl Harbor, T. H. Specification No. 7224:

Teufel & Carlson, Skinner Bldg., Seattle, Wash.

Honolulu Iron Works Co. 165 Broadway, New York City.

Pittsburgh - Des Moines Steel Co., Des Moines, Iowa.

8—CLUB BUILDINGS

Bids Wanted—To Close April 17, 8 P. M.

CLUBHOUSE Cost, \$2000
SAN MATEO, San Mateo Co., Calif.
Foot of Peninsular Avenue.

One-story frame and stucco clubhouse (40x30 ft.) Spanish type, tile roof, metal sash, electric heating (will house administration offices, rest rooms and small cafe).

Owner—City of San Mateo.
Architect—Thomas M. Edwards, 525 Market St., San Francisco.

On bid opening lowest bid was submitted by Moore & Roberts, 461 Market St., San Francisco, at \$2495.

Bids Wanted—To Close May 1, 2, P. M.
MEMORIAL HALL Cost \$16,000
RED BLUFF, Tehama Co., Cal.

Remodel school for Veterans' Memorial (brick construction, 60 x 80 feet); stucco exterior, maple flooring, hot air heating system, composition roof.

Owner—County of Tehama.
Architect—Dragon & Schmidts, Mercantile Bank Bldg., Berkeley.

Bids are being taken for a general contract with separate bids for plumbing, heating and electrical work.

9—HOSPITALS

SAN FRANCISCO—American Seating Company, 650 Second St., at \$13,096 awarded contract by Regents of University of California for furnishing and installing laboratory furniture for the Medical School Building, University of California, San Francisco. Following is complete bids received:
American Seating Co. \$13,096.00
Sheldon Company 13,667.20
Pacific Mfg. Co. 14,077.66
Brandlein Company 14,852.00
Brass & Kuhn 16,001.50
Bids held under advisement.

PATTON, San Bernardino Co., Cal.—The state assembly ways and means committee has recommended that two new wards be constructed at Patton state hospital at a cost of \$160,000. Decision to increase the capacity of the institution followed decision to withhold for two years the building of the proposed state mental hospital in Ventura county.

SAN FRANCISCO—Clinton Stephenson Constr. Co., 550 Montgomery St., at \$4828 awarded contract by Regents of the University of California for the construction of a deep therapy pavilion at the University Hospital, Third and Parnassus Aves.

RANCHO LOS AMIGOS, Los Angeles Co., Cal.—The Los Angeles county supervisors propose the construction of a number of buildings located at Rancho Los Amigos, near Hondo. The projects include demolishing the old wing section of the Old Ladies' Home building, demolishing the second story of the two-story building and rebuilding with reinforced concrete, demol-

ishing and rebuilding the second story of the Auditorium building with brick filler walls and steel. Plans will be prepared by Wm. Davidson, chief mechanical engineer, 1006 Hall of Records.

Preliminary Plans Approved.
GIRLS' HOME Cost, \$—
EL MONTE, Los Angeles Co., Calif.
Missouri Avenue.

One-story fireproof garage, one-story fireproof laundry, one- and two-story isolation building (136x50ft.) one-story wood frame recreation hall (reinfr. conc. construction with tile roof.)

Owner—Ruth Home, El Monte.
Architect—J. J. Frauenfelder, 1116 Story Bldg., Los Angeles.

SAN FRANCISCO—Regents of the University of California will ask bids for linoleum for the University of California Hospital, Third and Parnassus Aves., shortly; \$11,200 is allotted.

10—HOTELS

Owner Taking Bids.
ALTERATIONS Cost, \$2000
VALLEJO, Solano Co., Cal. Sonoma and Capitol Streets.

Remodel swimming pool in hotel for supper club (dance floor, gallery, etc.)

Owner—Casa De Vallejo Hotel, Prem.
Architect—F. H. Slocombe, 131 Monte Cresta Ave., Oakland.

Bids are being received by the owner from a selected list of contractors. Tilman & Olsen, Vallejo, are among the contractors figuring the plans.

11—ICE AND COLD STORAGE PLANTS

Bids Opened.
EXTENSION Cost, \$—
SAN FRANCISCO. Third and Berry Streets.

Extension to State refrigeration terminal (Unit 3) extend insulation and refrigeration machinery in concrete building (approx. 27,000 sq. ft. of floor space).

Owner—State of California (Harbor Commission).
Engineer—Frank G. White, Ferry Building.

Following bids received:
(A) alterations to building;
(B) insulation;
(C) machinery;
(D) combination bid, 1 and 2;
(E) insulation material.
Fred. J. Early, Jr., 367 Pine St., (A) \$8,097.

Leo Epp, (A) \$8,347.
Val Franz, (A) \$8,431.
Barrett & Hulp, (A) \$8,689 (B) \$23,251 *(\$19,000); (D) \$31,840 *(\$27,600).
E. T. Lesure, (A) \$8,765.
Cahill Bros., (A) \$8,960.
H. H. Larson Co., (A) \$9,112.
A. Nelson, (A) \$9,440.
Alfred H. Vogt, (A) \$9,467.
Mundet Corp., 440 Brannan St., (B) \$21,000.

Cork Insulation Co., (B) \$21,025.
Van Fleet Freear Co., (B) \$22,953.
Pelton Water Wheel Co., 2329 19th St., (C) \$24,806
Oakland Refrigerator and Butchers' Supply Co., (C) \$24,913.
City Steel Products Co., (C) \$24,964.
York Ice Machinery Co., (B) \$24,980; (C) \$26,920.
Baker Ice Machine Co., (C) \$25,925.
Gay Engineering Co., (C) \$26,537.
United Engineering Co., Ltd., (C) \$27,834.

**Western Asbestos Magnesia Co., (E) \$20,400.
* Using Firtex in place of cork.
** Using Johns-Manville rock cork.

Bids held under advisement.

12—POWER PLANTS

LOS ANGELES, Cal.—Until 2 P. M. April 25, bids will be received by the General Manager and Chief Engineer F. E. Weymouth of the Metropolitan Water District, 306 W Third St., Los Angeles, and will be opened in room 3 in the basement of the above building for furnishing transformers for construction power system under Spec. No. 25, which may be had at room 1004, 306 W Third Street, Los Angeles. The items follow:

(1-A) 6 2000 KVA 66 KV-33/11.5 KV transformers.

(1-B) option to purchase six additional transformers, as specified under item (1-A) within a 12 month period.

(2-A) 10, 333 KVA, 33 KV-2.4 KV. transformers.

(2-B) option to purchase 15 additional transformers, as specified under item (2-A) with in a 12 month period.

(3-A) 22, 250 KVA, 33 KV-2.4 KV. transformers.

(3-B) option to purchase 12 additional transformers, as specified under item (3-A) within a 12 month period.

(4) services of an erecting engineer, price per day.

Bids Wanted—To Close April 21, 11 A. M.

GENERATOR SET, Etc. Cost, \$—
SAN FRANCISCO. Letterman General Hospital.

Steam turbine generator (100-kw) and new turbine end for 200-kw generator (work consists of air reduction gear and generator, piping, new switchboard panels with instruments, gate valves, etc.)

Owner—United States Government.
Plans by Construction Quartermaster, Fort Mason.

Bids are being received for furnishing equipment only, installation to be done by owner's own forces. On previous bid opening lowest bid was submitted by De Laval Steam Turbine Co., 61 Beale St., at \$10,790.

SAN FRANCISCO.—Until April 25, 3 P. M., bids will be received by the Public Utilities Commission, Felton Taylor, secretary, to replace No. 6 wire and repair certain pole structures on Millbrae - Crystal Springs Transmission Line, involving:

- (1) 29,000 ft. remove No. 6 wire and deliver to Millbrae warehouse;
 - (2) 29,000 ft. furnish and install new No. 4 copper wire;
 - (3) 4 poles, furnish and install.
 - (4) 5 pole stubs, do;
 - (5) 3 guy wires, do;
 - (6) 12 insulators, do;
 - (7) 12 insulator pins, do;
 - (8) 7 crossarms, do;
 - (9) 18 crossarm braces, do;
 - (10) 1 dead-end pole, structure, do;
 - (11) 280 clean insulators.
- Estimated cost, \$4400.

LOS ANGELES, Cal.—Los Angeles Dept. of Water and Power, Bureau of Power and Light, 207 S Broadway, will start work this month on the erection of a substation at 3030 Canfield Ave., West Los Angeles. Work will be handled by the owner's construction department, bids for the various materials to be taken by the Department's purchasing agent, D. P. Nicklin. Architect F. L. Roehrig, 35 S Raymond Ave., Pasadena, prepared plans for the building. It will be a Class D structure, 51x131 ft. in area and 24 ft. high; brick and concrete construction, steel columns and roof trusses, reinforced concrete roof and floors, steel sash, ornamental iron, ruff brick facing, hollow metal doors, metal studs and lath, stone trim, etc. Cost, \$70,000.

13—PUBLIC BUILDINGS FIRE HOUSES & JAILS

April 7, 1933

Contract Awarded.
FIRE HOUSE Cont. Price, \$8200
SACRAMENTO, Sacramento Co., Cal.
Sacramento Blvd. and Sixth Ave.
One-story frame and stucco firehouse
(single community building).
Owner—City of Sacramento.
Architect—Starks & Flanders, Forum
Bldg., Sacramento.
Contractor—H. W. Robertsan, 3004 F
St., Sacramento.
(455) 1st report Jan. 17; 7th April 4,
1933. 13

Contracts Awarded.
REMODELING Cost, \$3000
REDWOOD CITY, San Mateo Co., Cal.
Remodel old county jail for juvenile
home.
Owner—County of San Mateo, (E. H.
Wonder, Purchasing Agent.)
Architect—Not Given.
Plumbing—P. E. Brand, 650 Jefferson
Ave., Redwood City, at \$300.
Plastering—W. F. Schmiedeburg, 3533
Iowa Ave., Fresno, at \$115.
Painting—A. Sorensen, 1447 Paoma
Ave., Burlingame, at \$385.
Heating—Walter Sterling, 1125 King
St., Redwood City, at \$590.
Sheet Metal—Redwood City Sheet
Metal Works, 502 Arguello, Red-
wood City, at \$131.
Carpentry—Gus Waller, 221 Hudson
St., Redwood City, at \$440.
Roofing—Unlon Roofing Co., 1070
Highway, Redwood City, at \$198.
Electric—Coast Electric Co., Red-
wood City, at \$85.
Fire Escapes and Screens—Sunset Iron
Wks, 964 Harrison St., San Fran-
cisco, at \$237.

To Prepare Plans.
ADDITION Cost, \$90,000
VISALIA, Tulare Co., Cal.
Three and one-half-story addition to
courthouse (central heating plant)
approx. 20,000 sq. ft. or floor space.
Owner—County of Tulare.
Architect—Ernest J. Kump, Rowell
Bldg., Fresno.

14—RESIDENCES

Sub-Contracts Awarded.
RESIDENCE Cost, \$6000
BERKELEY, Alameda Co., Calif.
Brookside Drive W Claremont.
Two-story frame and stucco residence
(6 rooms).
Owner—Whalen & Hufschmidt, 89
Nova Drive, Piedmont.
Plans by Owner.
Contractor—E. M. Williamson, 3761
Allendale Ave., Oakland.
Plumbing—A. Rowse, 978 Apgar St.,
Oakland.
Brick—Charles Hummer, 2221 34th
Ave., Oakland.
Electric—James Anderson, 2421 23rd
Ave., Oakland.
Lumber and Millwork—Sunset Lum-
ber Co., 400 High St., Oakland.
Concrete—Juillio Mottino, 538 47th
St., Oakland.
Building Materials—Contra Costa
Building Material Co., 803 Gilman
St., Berkeley.

Contract Awarded.
RESIDENCE Cost, \$7600
SAN MATEO, San Mateo Co., Cal. No.
415 Fairfax Avenue.
Two-story and basement frame and
stucco residence.
Owner—J. M. Chalmers.
Architect—Not Given.
Contractor—B. Nachess, 832 Morrell
Ave., Burlingame.

Contract Awarded.
RESIDENCE Cost, \$2646
MONTEREY, Monterey Co., Cal.
Monterey Peninsula Country Club.
Two-story frame and stucco residence
Owner—Louise Beach, Pebble Beach.
Architect—Not Given.
Contractor—Harold C. Geyer, 946
Hellam St., Monterey.

Sub-Contracts Awarded.
RESIDENCE Cost, \$6000
SACRAMENTO, Sacramento Co., Cal.
No. 971 Forty-second Street.
One-story and basement frame and
stucco residence.
Owner—H. E. Sollenberger, 2526 L St.,
Sacramento.

Plans by Owner.
Contractor—W. C. Keating and H. E.
Sollenberger, Forum Bldg., Sacra-
mento.

Excavation—Quirk & Son, Sacramento
Concrete—Carl R. Fiedler, 2631 30th
St., Sacramento.

Lumber and Shingles—Diamond Match
Co., 2826 Second St., Sacramento.
Brick Work—H. E. Christensen, 3401
20th Ave., Sacramento.

Plastering—J. Falltick, 515 9th St.,
Sacramento.

Mill Work—Capital City Planing Mill,
1812 Ninth St., Sacramento.

Furnace and Sheet Metal Work—Ahl
Sheet Metal Works—1615 21st St.,
Sacramento.

Plumbing—Luppen & Hawley, 3126 J
St., Sacramento.

Electric—Jack Thomas.
Painting—Lockett & Horr, 2110 10th
St., Sacramento.

Hardware—Newbert Implement Co.,
1616 J St., Sacramento.

Hardwood Floors—Forsberg & Frise,
1857 Discovery St., Sacramento.

Tile Work—H. P. Fischer Tile & Mar-
ble Co., 1219 J St., Sacramento.

Contract Awarded.
RESIDENCE Cost, \$6000
OAKLAND, Alameda Co., Calif. 4100
Norton Avenue.

One-story and basement frame and
stucco residence (6 rooms).

Owner—Sam Bakalian, 4200 Piedmont
Ave., Oakland.

Architect—Ray F. Keefer, 770 Wesley
Ave., Oakland.

Contractor—C. H. Thrans, 28 Home
Place West, Oakland.

Lumber, Rock & Cement Bids Wanted
RESIDENCE Cost, \$—
HILLSBOROUGH, San Mateo Co., Cal.
Two-story and basement frame and
stucco residence (9 rooms and 3
baths).

Owner—E. O. McCormick.
Architect—W. W. Wurster, 260 Cali-
fornia St., San Francisco.

Contractor—D. B. Gladstone, 557 Mar-
ket St., San Francisco.

Sub-bids are wanted on lumber, rock
and cement. Other bids are in and
will be awarded shortly.

Sub-Contracts Awarded.
RESIDENCE Cost, \$—
BERKELEY, Alameda Co., Cal. No.
1106 Cragmont Avenue.

One-story and basement frame and
stucco residence (Spanish style.)

Owner—H. G. Church.
Architect—Not Given.
Contractor—H. G. Parks, 1046 Peralta
St., Berkeley.

Plastering—Carl Spiken, 2315 Ninth
Ave., Oakland.

Brick Work—Richard Merceili.

Cement—Triberti & Massaro, 957 38th
Oakland.

Contract Awarded.
RESIDENCE Cost, \$6000
VALLEJO, Solano Co., Cal. Tennessee
and Glenn Streets.

Two-story and basement frame and
stucco residence (8 rooms).
Owner—Thomas E. Branstetter.
Plans by E. Teicheira.
Contractor—E. Teicheira, 331 Hamp-
shire St., Vallejo.

Contract Awarded.
RESIDENCE Cost, \$6000
VALLEJO, Solano Co., Cal. Fleming
Tract.

Two-story and basement frame and
stucco residence (8 rooms).

Owner—Lieutenant Coons, U. S. N.
Plans by Mutual Home Builders.
Contractor—Mutual Home Builders,
831 Sonoma St., Vallejo.

Contract Awarded.
RESIDENCE Cost, \$5200
SAN MATEO, San Mateo Co., Cal.
Baywood Park.

One-story and basement frame and
stucco residence.

Owner—John M. Chalmers.
Architect—Not Given.
Contractor—Eert Norberg, 832 Mor-
rell St., Burlingame.

To Ask Bids.
RESIDENCE Cost, \$—
PORTLAND, Oregon. Tatoosh Island
(Cape Flattery Light Station).

Two-story and basement frame resi-
dence for light house keepers (48x
32 feet), steam heating plant, as-
bestos shingle roof, concrete base-
ment.

Owner—United States Government (U.
S. Lighthouse Service), Portland.
Plans by Owner.

To Ask Bids Next Week.
RESIDENCE Cost, \$7000
HILLSBOROUGH, San Mateo Co., Cal.
Two-story and basement frame and
stucco residence (7 rooms, 3 baths)

shakes roof, gas air heating sys-
tem, tile showers, oak floors, ter-
racing, etc.

Owner—W. E. Jason Jr., % Architect.
Architect—Farr & Ward, 63 Post St.,
San Francisco.

Contract Awarded.
RESIDENCE Cost, \$6000
SACRAMENTO, Sacramento Co., Cal.
Thirty-ninth and H Streets.

Two-story frame and stucco resi-
dence (7 rooms).

Owner—J. Ceressa, 1822 X St., Sacra-
mento.

Architect—Not Given.
Contractor—J. Pesce, 5109 J St., Sacra-
mento.

April 8, 1933
Plans Being Figured.
RESIDENCE Cost, \$8500
OAKLAND, Alameda Co., Cal. Oak-
more Highlands.

Two-story and basement frame and
stucco residence (7 rooms and 3
baths) shake roof, gas heating,
steel sash, colored tile baths, elec-
tric refrigeration, etc.

Owner—Withheld.
Architect—E. L. Snyder, 2102 Addison
St., Berkeley.

Bids In—Held Under Advertisment.
RESIDENCES Cost, \$6500 each
MILL VALLEY, Marin Co., Cal. Bly-
thedale Terrace.

Two one-story and basement frame
and stucco residences (five rooms
each) tile roof, gas heating sys-
tem, colored tile baths and kitch-
ens, colored stucco walls, canvas
walls and ceilings, etc.

Owner—F. C. Sheffauer, Eldridge St.,
Mill Valley.
Architect—Walter Falch, Hearst Bldg.
San Francisco.

Contract Awarded.
ALTERATIONS Cost, \$1355
SAN FRANCISCO. SW Somerset and Felton Streets.
 Alterations to frame residence.
 Owner—Olinto and Iva Sbrana, 220 Somerset St., San Francisco.
 Architect—Not Given.
 Contractor—G. Parodi, 2864 San Bruno Ave., San Francisco.

Preparing Working Drawings.
RESIDENCE Cost, \$9000
OAKLAND, Alameda Co., Cal. St. James Wood.
 Two-story and basement frame residence.
 Owner—Withheld.
 Architect—W. E. Schirmer, Financial Center Bldg., Oakland.
 Bids will be asked in about one week

Plans Being Completed.
RESIDENCE Cost, \$7500
OAKLAND, Alameda Co., Cal. Rockridge District.
 One-story frame and brick veneer residence (7 rooms, 2 baths), hot air heating system, hardwood floors, tile roof, etc.
 Owner—Withheld.
 Architect—E. L. Snyder, 2102 Addison St., Berkeley.
 Bids will be taken within a few days

Preparing Working Drawings.
RESIDENCE Cost, \$6000
BURLINGAME, San Mateo Co., Cal. One and one-half-story and basement frame and stucco residence (five rooms) tile and composition roof, gas heat, canvas walls, tile steps, hardwood floors, cement plaster.
 Owner—G. Loomis, % architect.
 Architect—F. Amandes, 1879 18th Ave. San Francisco.
 Bids will be asked in about 1 week.

Sub-Bids Wanted.
RESIDENCE Cost, \$4000
SAN FRANCISCO. W Seventeenth Ave. N Noriega Street.
 One - story and basement frame and stucco residence.
 Owner—Mrs. E. Adair, 1842 18th Ave. Plans by H. L. Medrow, 1817 Oak St.
 Sub-bids are being received by Mr. Medrow.

Contract Awarded.
RESIDENCE Cost, \$—
SAN FRANCISCO. SE Quesada St. S Newhall.
 Two - story and basement frame and stucco residence.
 Owner—J. Carrere, 1775 Quesada St. Plans by J. Yrigoyen.
 Contractor—J. Yrigoyen, 1746 McKinnon Street.

RESIDENCE Cost, \$14,000
INVERNESS, Marin Co., Cal. Two-story frame residence, rustic exterior, shingle roofing, oil burners, brick and stone fire places, etc.
 Owner—Withheld.
 Architect—W. C. Ambrose, 244 Kearny St., San Francisco.
 Bids will be asked in about two weeks.

Contract Awarded.
RESIDENCE Cost, \$—
HILLSBOROUGH, San Mateo Co., Cal. Two-story and basement frame and stucco residence (9 rooms and 3 baths).
 Owner—E. O. McCormick.
 Architect—W. W. Wurster, 260 California St., San Francisco.
 Contractor—D. B. Gladstone, 557 Market St., San Francisco.

Contract Awarded.
RESIDENCE Cost, \$5000
SAN FRANCISCO. Twenty-eighth Ave. S Cabrillo St.
 One-story and basement frame and stucco residence (5 rooms) Patio

plant, social hall, showers, hand-made tile roof (gas furnace, hardwood floors, etc.
 Owner—Jack Krug.
 Architect—Irvine & Ebbets (R. R. Irvine, Architect, 2048 Market St. Contractor—T. I. Strand, 471 Colon St., San Francisco.

To Be Done By Day's work.
RESIDENCE Cost, \$—
OAKLAND, Alameda Co., Calif. 471-473 Hardy Street.
 One-story frame and stucco residence (10 rooms).
 Owner—John Pescio, 5349 Miles Ave., Oakland.
 Architect—Not Given.

SAN FRANCISCO.—Capital Co., 625 Market St., is taking bids for painting the exterior and interior of the residence located at 158 Del Mar Street.

Contract Awarded.
RESIDENCE Cost, \$—
SAN FRANCISCO. E 28th Avenue S Cabrillo Street.
 One - story and basement frame and stucco residence.
 Owner—S. Abend, 679 Larkin Street.
 Architect—R. R. Irvine, 2048 Market Street.
 Contractor—M. E. Vukicevich, 1442 Taraval Street.

15—SCHOOLS

Bids Wanted—To Close April 20, 4 P. M.
SCHOOL Cost, \$49,000
LA GRANDE, Oregon.
 Reconstruct two-story school (re-plastering, new floors of white maple, new stairs and corridor walls, new heating system, circulating air, electric clocks, plumbing, wiring, etc.)
 Owner—School District No. 1, La Grande.
 Architect—C. B. Millerd, La Grande.
 Bids are being taken on general construction with separate bids for plumbing, and wiring.

CROCKETT, Contra Costa Co., Cal. —Estimates on the cost of materials for the installation of a lawn sprinkling system for the John Swett Union High School at Crockett are desired by the District Superintendent, Alfred Christensen. Crockett. Work will involve, approximately 90 sprinkler heads, 500 feet of ½-in. first quality wrought iron galvanized pipe, 200 feet ¾-in. pipe and smaller amounts of one in., 1 and 14-in. and 2-in. pipe, and extensive necessary fittings.

SAN FRANCISCO—West Coast Nursery, 526 Powell St., at \$1083 awarded contract by Department of Public Works for planting grounds at the Balboa High School, Onondada, Cayuga and Otsego Streets.

SAN FRANCISCO—Department of Public Works awarded a contract to W. G. Thompson, 336 Church St., at \$271 for painting the Adams School, Eddy and Polk Streets and at \$762 for painting the Marshall School at 15th and Capp Sts.

SAN FRANCISCO—Department of Public Works awarded a contract to the American Building Maintenance Co., 467 O'Farrell St., at \$980 for painting the McKinley School located on Castro St., between 14th and Henry Sts., and awarded a contract to Earling Andresen, 99 Divisadero St., at \$497 for painting the Fremont School, located on McAllister St., between Broderick and Baker Sts.

LOS MOLINOS, Tehama Co., Cal.—Fire destroyed the Los Molinos High School, April 10. The building was a

two-story cement shell structure and damage is estimated at \$40,000.

SAN FRANCISCO.—E. J. Treacy, Call Bldg., at \$4,759 submitted low bid to Department of Public Works for yard work at the Visitacion Valley School. Following bids received:
 E. J. Treacy\$4,759
 Eaton & Smith 5,280
 M. J. Lynch 5,400
 F. C. Amoroso & Sons 5,400
 Fay Improvement Co. 5,889
 L. DeVincenzi 5,945
 C. L. Harney 5,950
 Bids held under advisement.

Plans Completed.
HOUSE OF STUDIES
 Cost (1st unit) \$70,000
OAKLAND, Alameda Co., Cal. Chabot Road and College Avenue.
 Three-story and basement Class A steel frame and concrete house of studies (main wl gnl,40x36 feet) concrete basement, cast stone trim, slate roof.
 Owner—College of Saint Albert, The Great (Dominican House of Studies), Steiner and Bush Sts., San Francisco.
 Architect—Arnold Constable, 580 Market St., San Francisco.
 Bids will be asked shortly.

16—BANKS, STORES AND OFFICES

Plans Being Prepared.
CAMP Cost, \$1500
TUOLUMNE, California.
 One-story frame dining room, kitchen and store room; shingle roof.
 Owner—City of Berkeley.
 Plans by S. P. Koch, Chief Building Inspector, Berkeley.
 Bids will be asked in about two weeks.

Plans Being Figured—Bids Close April 15, 5 P. M.
STORE Cost, \$5000
SAN FRANCISCO. Ninth Avenue and Moraga Street.
 One-story frame and stucco store (27½ by 75 ft.); tar and gravel roof, cement floors, etc.
 Owner—Withheld.
 Plans by H. J. Leasen, 1710 10th Ave., San Francisco.
 Bids are being received from a selected list of contractors.

WESTERN STATES—The Equitable Life Assurance Society of the United States, Room 1035, 315 Montgomery St., San Francisco, Ward Cox, in charge, will make extensive repairs to residences, apartments and stores throughout the eleven Western States owned by them. Mr. Cox is interested in receiving catalogs, price lists, etc., from the building trades. Work will be done by day's work under owner's supervision and bids will be asked on some portions of work namely, painting, plastering, etc.

Preparing Sketches.
STORES & OFFICES Cost, \$20,000
OAKLAND, Alameda Co., Cal. SE Grand Ave. and Staton Street.
 Two-story Class C concrete stores and offices (3 stores and 4 offices).
 Owner—R. L. Uelsmann, 178 Grand Ave., Oakland.
 Architect—A. M. Milwain, 731 Alma Ave., Oakland.

Contract Awarded.
ALTERATIONS Cost, \$3000
OAKLAND, Alameda Co., Calif. 1323 Washington Street.
 Alterations to building.
 Owner—University Investment Co.
 Architect—Not Given.
 Contractor—S. Kulchar Co., 731 East 10th St., Oakland.

Blds Wanted—To Close April 13.
ADDITION Cost, \$—
SAN FRANCISCO. Bush and Larkin Streets.
 Two-story structural steel and reinforced concrete addition to telephone building (Class A construction).
 Owner—Pacific Telephone & Telegraph Co., 140 New Montgomery St., San Francisco.
 Plans by Engineering Dept. of Owner, E. V. Cobby, Engineer.
 As previously reported MacDonald & Kahn, Financial Center Bldg., San Francisco, awarded contract for foundation work and erection of structural work at \$7000.

Plans Being Figured.
ALTERATIONS Cost, \$70,000
SEATTLE, Wash. Second and Pike Streets.
 Extensive alterations to Eitel Building (work includes terra cotta trim, new elevators, entrance, terrazzo work, partition and office changes, etc.)
 Owner—Eitel Building.
 Architect—V. W. Voorhees, Lloyd Bldg., Seattle.

Contract Awarded.
ALTERATIONS Cost, \$3000
SAN JOSE, Santa Clara Co., Cal. No. 36 S-First Street.
 Alterations to three-story and basement store building.
 Owner—C. P. and Glen Cunningham, San Jose.
 Plans by Herman Krause, P. O. Box 783, San Jose.
 Contractor—H. A. Bridges, 1393 Lincoln St., San Jose.

Low Bidders.
ALTERATIONS Cost, \$—
SAN FRANCISCO. No. 101 Post St.
 Alterations to four-story stores and lofts.
 Owner—Samuel Lowe.
 Architect—Hyman & Appleton, 68 Post St., San Francisco.
 Low Bidder—Jacks & Irvine, 74 New Montgomery St., San Francisco.
Heating and Plumbing—E. Sugarman, 3642 Geary St., San Francisco.
Electric—Atlas Electric & Engr. Co., 343 Fourth St., San Francisco.

Title Contract Awarded.
ALTERATIONS Cost, \$2000
SAN FRANCISCO. No. 347 Stockton Street.
 Alterations to studios.
 Owner—G. Hansen, % Architect.
 Architect—S. Helman, 605 Market St., San Francisco.
Title—Art Tile & Mantel Co., 221 Oak St., San Francisco.
 Other awards reported April 6.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$1500
PETALUMA, Sonoma Co., Cal. Main St. and Western Ave.
 Alterations to ground floor of Masonic temple for drug store (plate glass windows, remove brick wall, etc.)
 Owner—L. & M. Drug Store.
 Architect—Not Given.
 Contractor—Vogensen Constr. Co., 100 Washington St., Petaluma.
Lumber and Mill Work—Gamm and Hedges, Petaluma.
Glass and Copper—Cobbledick-Klbb, Glass Co., 666 Howard St., San Francisco.
Title—Edgar McDonald, Petaluma.
Steel—Western Iron Works, 141 Beale St., San Francisco.
Electric—A. O. Schluneger, Petaluma.
Plumbing—Rex Hardware Co., Petaluma.
Painting—Carl Holm, Petaluma.
Plastering—Baccala & Pedegrade, Petaluma.
Awning—A. G. Shenicka, Petaluma.
Brick Work—Olsen & Son, Petaluma.

Sub-Contracts Awarded.
OFFICES Cost, \$10,000
ALAMEDA, Alameda Co., Cal. Regent St. and Central Ave.
 Two-story frame and stucco office building (40x70 feet).
 Owner—Dr. J. Ohannesson, Alameda.
 Architect—Not Given.
 Contractor—E. F. Henderson, 6433 Chabot Road, Oakland.
Concrete—Nat Lena, 1174 19th St., Oakland.
Rough Lumber—Bay City Lumber Co., 48th Ave. and E-12th St., Oakland
Mill Work, Sash and Doors—Melrose Lumber & Supply Co., 1201 46th Ave., Oakland.
Brick Work—H. F. Anderson.
 Bids are being taken on slate roof and all other portions of the work.

To Be Done By Day's Work.
STORE Cost, \$2000
OAKLAND, Alameda Co., Calif. 3014 38th Avenue.
 One-story frame store.
 Owner—George Ebe, 3919 Angelo St., Oakland.
 Contract Awarded.
STORE FRONTS Cost, \$—
OAKLAND, Alameda Co., Cal. No. 1928 Telegraph Avenue.
 New store fronts, etc.
 Owner—Twentieth & Broadway Realty Company.
 Architect—Albert Evers, 525 Market St., San Francisco.
 Contractor—Wilbur C. Cone, 1744 Broadway, Oakland.

Contract Awarded.
ALTERATIONS Cost, \$—
OAKLAND, Alameda Co., Cal. Broadway near Nineteenth St.
 Alterations to store.
 Owner—Twentieth & Broadway Realty Company.
 Architect—Albert Evers, 525 Market St., San Francisco.
 Contractor—Lindgren & Swinerton, Inc., 225 Bush St., San Francisco.
 Lessee—J. J. Newberry Company.
 Sub-bids are in and will be awarded shortly.

Additional Sub-Contracts Awarded.
ALTERATIONS Cost, \$15,000
OAKLAND, Alameda Co., Calif. 1521 and 1545 Franklin Street.
 Alter interior of brick telephone exchange building.
 Owner—Pacific Telephone and Telegraph Co., 140 New Montgomery St., San Francisco.
 Plans by Engineering Dept. of Owner.
 Contractor—W. G. Thornally, 354 Hobart St., Oakland.
Painting—J. A. Turgeon, 512 E 12th St., Oakland.
Electric—Scott-Buttner Elec. Co., 19 Grand Ave., Oakland.
 As previously reported, mill work awarded to Sunset Lumber Co., 400 High St., Oakland; plastering to Wm. Makin, 2141 Livingston St., Oakland; plumbing and heating to Standard Mechanical Co., 4712 Grove St., Oakland.

Plastering Contract Awarded.
REPAIRS Cost, \$4000
BERKELEY, Alameda Co., Cal. San Pablo and University Avenues.
 Rebuild stores and apartments recently destroyed by fire.
 Owner—E. T. Hansen, 1977 Hopkins St., Berkeley.
 Plans by Mr. Rose.
 Contractor—A. H. Rose, 478 25th St., Oakland.
Plastering—Jos. H. Witt, 882 56th St., Oakland.
 Other awards previously reported.

Lumber Rock and Cement Bids
STORE Cost, \$4652
SAN FRANCISCO. Ninth Ave. and Moraga St.

One-story frame and stucco store (27½x75 feet); tar and gravel roof, cement floors, etc.
 Owner—Edith Bracco & Maria Picetti, 1539 11th Ave., San Francisco.
 Architect—H. J. Leasen, 1710 10th Ave., San Francisco.
 Contractor—D. B. Gladstone, 557 Market St., San Francisco.
 Other bids are in and will be awarded shortly.

To Be Done By Day's Work.
STORE AND RESIDENCE \$5000
ALAMEDA, Alameda Co., Cal. No. 826-830 Pacific Avenue.
 One-story frame and stucco store and one-story frame and stucco residence (5 rooms).
 Owner—F. C. and Meta Kroger, 832 Pacific Ave., Alameda.
 Plans by Owner.

Sub-Contracts Awarded.
OFFICES Cost, \$3000
OAKLAND, Alameda Co., Cal. No. Contract Awarded.
STORE Cost, \$7000
WILLOW GLEN, Santa Clara Co., Cal. El Abra Court Tract.
 One-story frame store.
 Owner—C. J. Nagel and Alfred Torn, 25 South 16th St., San Jose.
 Plans by Ira Brotzman.
 Contractor—Ira Brotzman, 5 Garfield Ave., San Jose.

WASHINGTON, D. C.—W. P. Thurston Co., Richmond, Virginia, at \$9900 submitted low bid to Bureau of Yards and Docks, Navy Department, for two fire alarm systems each consisting of call boxes, air horns, gongs, etc., at the Naval Ammunition Depot, Oahu, T. H. Specification No. 7021. Second low bid was submitted by H. S. Tittle, San Francisco, at \$10,250 with a deduction of \$485. Complete list of bids will be published shortly.

17—THEATRES

Plumbing Contract Awarded.
THEATRE Cost, \$20,000
SONOMA, Sonoma Co., Cal. First St. East.
 One-story steel and concrete theatre to seat 500; (85x168 feet); large room above and stores below.
 Owner—Sam Sebastina, Sonoma.
 Architect—Reid Bros., 105 Montgomery St., San Francisco.
Plumbing—Marcey & Peterson, Sonoma City.
 As previously reported, electric awarded to H. F. Haverkamp, 1127 Folsom St., S. F.; reinforcing steel to Concrete Engr. Co., 1280 Indiana St., S. F.; structural steel to Iron Works, 18th and Campbell Sts., Oakland.

18—WHARVES & DOCKS

April 7, 1933
AWARD
SAN FRANCISCO—M. B. McGowan, 74 New Montgomery St., at \$1945 awarded contract by Constructing Quartermaster, Fort Mason, to construct a 300 lin. ft. timber and creosoted pile bulkhead extension along the bay shore at Crissy Field. (745) 1st report Feb. 21; 5th March 22, 1933. 18

SEATTLE, Washington—Bids will be asked shortly by the Superintendent, 17th District, Department of Commerce, Lighthouse Service, Customhouse, Seattle, for an addition to wood pile wharf and concrete approach to concrete wharf at the lighthouse depot, 27th West and Commodore Way, Seattle, Washington.

19—MISC. CONSTRUCTION

WASHINGTON, D. C.—Until April 21, bids will be received by Veterans Bureau, Veterans Administration Bldg., Washington, D. C., for deep pool for the Veterans Administration Building at Fort Lyon, Colorado. (1132) 19

April 7, 1933

Construction Started.
RACE PLANT Cost, \$100,000
SEATTLE, Washington. Playland. Greyhound racing track. Owner—Olympia Kennel Company. Architect—Not Given. Mgr. of Constr.—George W. Lewis, % Baden Kennel Club, South San Francisco, Calif.

Officers of the new club are George Newell, Seattle insurance man, president; James Scavotto, Seattle Councilman, vice-president; Leo Wisefield, Seattle jeweler, secretary, and George Faltico, Seattle manager of the Addison-Miller Co. (1135) 19

Contract Awarded.
BEER GARDEN Cost, \$—
CARMEL, Monterey Co., Cal. Beer garden. Owner—"Pop" Ernest, Carmel. Architect—Not Given. Contractor—Hugh Comstock and John Neikirk, Carmel.

Planned.
REBUILD Cost, \$—
DUNSMUIR, Siskiyou County, Cal. Shasta Springs Resort. Reconstruct resort for modern auto Park (modern cabins, stone entrance, etc.) Owner—Shasta Springs Water Co. Architect—Not Given. Lessee—Hart Bros., Sacramento.

Contract Awarded.
MORTUARY Cost, \$60,000
OAKLAND, Alameda Co., Cal. 38th Ave. and Telegraph. Two-story and basement wood frame and brick veneer mortuary (100x160 ft.) steel sash, steam heating system, tile floors, organ, 30-car garage. Owner—Truman Undertaking Co., 2935 Telegraph Ave., Oakland. Architect—Blaine & Olson, 1755 Broadway, Oakland. Contractor—E. T. Leiter & Son, 811 37th St., Oakland.

SAN YSIDRO, San Diego Co., Cal.—Until April 24 bids will be received by Bureau of Customs, Treasury Department, Washington, D. C., to construct gates complete at the international boundary across the highway at the port of San Ysidro.

LOS ANGELES, Cal.—Until 2 P. M., May 1, bids will be received by County Supervisors to construct reinforced concrete fire proof vault, 28x32 ft., to be built at Pacoima for the storage of records of the surveyor's office. The work involves:

- 12,234 bd. ft. lumber;
- 3,400 lbs. reinf. steel;
- 150 cu. yds. class A concrete;
- 15.5 squares tile roofing;
- 721 sacks portland cement;
- 81 cu. yds. sand;
- 116 cu. yds. gravel;
- 265 cu. yds. excavation;
- 866 cu. yds. backfill;
- 8 Toncan metal ventilators;
- 8 bronze grilles;
- 10 structural steel roof trusses;
- 933 cu. yds. infloor.

Plans prepared by J. E. Rockhold, County Surveyor, 7th floor, Hall of Records. Mame B. Beatty, 501. Hall of Records, Clerk of the Board.

COAL OIL POINT, Santa Barbara Co., Cal.—The Doyle Petroleum Corp., 1227 Bank of America Bldg., taking bids to construct 3 reinforced concrete island type piers at the site of a new well being drilled. Piers will be 64x116 ft. and will be built in 35-ft. of water; will consist of reinforced concrete pillars connected by structural steel with wood deck.

20—MISC. SUPPLIES AND MATERIALS

SAN FRANCISCO.—Until April 17, 3 P. M., bids will be received by U. S. Forest Service, Ferry Bldg., San Francisco, to furnish 544 brush hooks. Specifications obtainable from above office.

WASHINGTON, D. C.—The following have procured plans for the purpose of submitting bids to the Bureau of Yards and Docks, Navy Department, Washington, D. C., on April 12 for two fire alarm systems, each consisting of call boxes, air horns, gongs, control board and accessory equipment, wires, cables and connections to existing services at the Naval Ammunition Depot, Oahu, T. H. Specification No. 7021:

Clark Cooper Co., 173 Jefferson St., Philadelphia.
Gould Storage Battery Co., Depew, New York.

Plans and specifications available from above office, from Commandant, 14th Naval District, Navy Yard, Pearl Harbor, T. H., and Commandant, 12th Naval District, 100 Harrison St., San Francisco, upon deposit of \$10.00.

LOS ANGELES, Cal.—Consolidated Lumber Co. awarded contract by A. J. Holm, City Purchasing Agent, April 7, at \$12,185.72 (estimated total) for furnishing 257,764 bd. ft. of 8-pound empty cell processed and 16-pound full cell processed sawn Douglas fir incised timbers for bulkhead at berths 153 and 159-160, Los Angeles Harbor. The bids were opened April 3.

PASADENA, Los Angeles Co., Cal.—Approximate quantities of reinforcing steel for use in the Pine Canyon Dam construction, for which bids will be opened by city clerk, Bessie Chamberlain, at 11 A. M., April 18 (previously noted) are:

- Intermediate Grade—821,000 Lbs.
- 500 lbs. ¼-in. round reinf. steel;
- 500 lbs. ⅜-in. do;
- 67,000 lbs. ½-in. do;
- 2,500 lbs. ½-in. square reinf. steel;
- 48,000 lbs. ⅝-in. round reinf. steel;
- 12,500 lbs. ¾-in. do;
- 7,000 lbs. ⅞-in. do;
- 100,000 lbs. 1-in. round reinf. steel;
- 3,500 lbs. 1-in. square reinf. steel;
- 25,000 lbs. 1 ¼-in. do;
- 500,000 lbs. 1 ½-in. do;
- 54,500 lbs. 1 ½-in. do.
- Hard Grade—178,000 Lbs.
- 2,000 lbs. ½-in. round reinf. steel;
- 28,000 lbs. ⅝-in. do;
- 68,000 lbs. ¾-in. do;
- 80,000 lbs. 1-in. do.

BREMERTON, Wash.—Until April 25, 10 A. M., under Req. No. NSA-8/3981, bids will be received by Supply Officer, Puget Sound Navy Yard, to furnish steel, round bars, Alloy No. 2, Navy Department specifications 49-S-2F, Nov. 2, 1931, as follows:

- (1) 400 lbs. 1-in. dia.;
 - (2) 1700 lbs. ⅞-in. dia.;
 - (3) 1200 lbs. ¾-in. dia.;
 - (4) 700 lbs. ⅝-in. dia.
- Delivery July 1 f.o.b. above, or f.o. b. carrier at or near contractor's work.)

LOS ANGELES, Calif.—Soule Steel Co. awarded contract by A. J. Holm, City Purchasing Agent, at \$1368, for furnishing and delivering f.o.b. Water and Power Department's Bouquet Canyon reservoir site, 20 miles north-east of Saugus, 1700 bars ¾-in. round by 45 ft. long deformed reinforcing steel under Bid No. 4666.

PORTLAND, Ore.—Steel Tank & Pipe Co., 518 Columbia Blvd., Portland, at \$25,724 submitted low bid to U. S. Engineer Office, Portland, to drydock, clean and paint and repair U. S. Dredge, Col. P. S. Michle. Complete bids follow: Steel Tank & Pipe Co., Portland, \$25,724.
Commercial Iron Works, Portland, \$28,614.
Albina Engine & Machine Works, Portland, \$35,744.

Government Estimate, \$35,575.
Steel Tank & Pipe Co. submitted alternate to deduct \$500 for planking to withstand 10 lbs. sq. in., etc. Bids held under advisement.

BOULDER CANYON, Nevada—Engineers Supply Corp., Chicago, at \$3400 awarded contract by U. S. Bureau of Reclamation under Bid No. A-3176-A for pier plate ties and hinge and seat anchors; Pittsburgh-Des Moines Steel Co., at \$3952 for hinge anchor bases.

HELENA, Mont.—Home Oil & Refining Co., Great Falls, Mont., at \$55,000 awarded contract by State Highway Department to furnish 1,183,000 gals. of 50, 63 and 72 asphalt base, all three grades at the same price.

SAN FRANCISCO—R. A. Hansen, 272 E. First St., Livermore, at \$10,380 awarded contract (one bid submitted) under Bid No. 979 by City Purchasing Agent to furnish stove oil, fuel oil and burning equipment for Hetch Hetchy project.

LOS ANGELES, Calif.—Until 11 A. M., April 19, bids will be received by A. J. Holm, City Purchasing Agent, 107 City Hall, to furnish Water and Power Dept. with lead covered, paper insulated, soft drain copper cable under Spec. No. 3047, delivery to be made in one of the following manners:

- F.o.b. trucks, 257 E 3rd St., Los Angeles.
- F.o.b. cars, Davies Extension Spur, 257 E 3rd St., Los Angeles.
- F.o.b. bidder's shipping point with full freight allowed to 257 E 3rd St., Los Angeles.
- The items are:
- (1) 12600 ft., 500,000 C.M., 5000-volt, 3-conductor cable;
- (2) 12,600 ft., do;
- (3) 12,600 ft., do;
- (4) 12,600 ft., do;
- (5) 5,000 ft. No. 2/0 AWG, 5000-volt, 3-conductor cable;
- (6) 6,000 ft. No. 6 AWG, 5000-volt, 3-conductor cable;
- (7) 3,000 ft. 1,000,000 C.M., 600-volt, 1-conductor cable;
- (8) 3,750 ft. 500,000 C.M., 600-volt, 1-conductor cable;
- (9) 15,000 ft. No. 4/0 AWG, 600-volt, 1-conductor cable;
- (10) 10,000 ft. No. 1/0 AWG, 600-volt, 1-conductor cable.

For number of reels per item, reel numbers, length per reel, etc., see specifications on file at office of Purchasing Agent.

DENVER, Colo.—U. S. Bureau of Reclamation will ask bids shortly to furnish 700,000 barrels of cement for the Hoover Dam.

ENGINEERING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

21.—Bridges	30.—Reservoirs and Dams
22.—Dredging, Harbor Works, Excavations	31.—Pipe Lines and Wells
23.—Irrigation Proj.	32.—Sewers & Sewage Disposal Plants
24.—St. Light. Systems	33.—Water Works
25.—Machinery and Equipment	34.—Parks & Playgrounds
26.—Railroads	35.—Tunnels
27.—Fire Alarm Sys.	
28.—Fire Equipment	
29.—Streets & Highways	

21—BRIDGES

SAN FRANCISCO—Pacific Coast Steel Corp., 20th and Illinois Sts., awarded sub-contract by Barrett & Hilp Co. for 2900 tons reinforcing steel in connection with anchorages for the Golden Gate Bridge. Pacific Coast Steel Corp. also awarded sub-contract by Pacific Bridge Co. for 1300 tons reinforcing steel in connection with the main piers.

EL MONTE, Los Angeles Co., Cal.—Until 8 P. M., April 22, bids will be received by city council for furnishing rock, gravel, sand, cement and reinforced concrete pedestrian subway under Main St., at the El Monte Union High School, in accordance with specifications which may be obtained at the office of the city clerk, Beatrice E. Darling. The approximate quantities of materials required are:

- 120 tons rock;
- 80 tons sand;
- 8 tons reinf. steel, including ½-in. round and ¾-in. square deformed bars
- 1000 sacks Portland cement.

22—DREDGING, HARBOR WORKS, EXCAVATION

SAN DIEGO, Cal.—Jos Brennan, port director, has announced that specifications have been completed by the Harbor Department for dredging at McCormick Shoal. The work will involve between 500,000 and 600,000 cu. yds. material to be removed at an approximate cost of \$100,000.

Construction of a 60-ft. addition to the present navy landing at the foot of 5th Ave. will be started at once. The new float will be 110x30 ft., requiring 18 new concrete piles, the total cost being estimated at \$1200.

SACRAMENTO, Cal.—Bids will be called shortly by U. S. Engineer Office, California Fruit Bldg., Sacramento, for dredging 2,695,000 cu. yds material from Sacramento River at Laiver Brannan Island.

23—IRRIGATION PROJ.

LOS ANGELES, Cal.—H. W. Hansen awarded contract by H. E. Russell, County Purchasing Agent, at \$3,449.54 for furnishing concrete irrigation pipe under Spec. No. 5511.

24—ST. LIGHT. SYSTEMS

SAN PEDRO, Cal.—The Los Angeles Bureau of Power and Light is preparing plans for an underground conduit system for the lighting system in ten blocks of the San Pedro business district. The cost is estimated at \$57,-

000. T. A. Panter, chief electrical engineer in charge of operations; Harry Caldwell, assistant electrical engineer in charge of distribution.

25—MACHINERY AND EQUIPMENT

April 7, 1933

BIDS WANTED

LOS ANGELES, Cal.—Until 12 M., April 19, bids will be received by H. E. Russell, County Purchasing Agent 524 N Spring St., for furnishing 34,000 lb., 4-wheel maintenance truck complete with heating unit as per plans on file in purchasing department. Spec. No. 5592. 25

LOS ANGELES, Cal.—Harnischfeger Sales Corp., 2027 Santa Fe Ave., awarded contract by the Metropolitan Water District April 7, at \$23,176 for furnishing two 1¼-yd. capacity power shovels with crawler type mounting. The price was \$11,588 each. The shovels selected were for use in a 15.3 ft. diameter tunnel. The bids were opened Feb. 28.

LOS ANGELES, Calif.—Goodman Mfg. Co., Chicago, awarded contract by the Metropolitan Water District April 7 at \$28,500 for furnishing 4 tunnel mucking machines under Schedule No. 8, Spec. No. 17. Bids were opened Feb. 28.

LOS ANGELES, Cal.—Concrete Machinery & Supply Co., 777 E Gage Ave., Los Angeles, awarded contract by the Metropolitan Water District April 17 at \$28,662 for furnishing 102 steel body dump cars, or a price of \$281 each f.o.b. Aurora, Ill. The bids were opened Feb. 28.

LOS ANGELES, Calif.—Whitcomb Locomotive Co., Rochelle, Ill., awarded contract by Metropolitan Water District April 7, at \$76,944 for furnishing 12 electric locomotives, using iron clad lead batteries. The price was \$6412 each. The bids were opened Feb. 28.

PEARL HARBOR, T. H.—Orton Crane & Shovel Co., Chicago, at \$12,716.37 submitted low bid to Bureau of Supplies and Accounts, Navy Department, to furnish 15-ton capacity locomotive crane and spares under Schedule 9785.

PEARL HARBOR, T. H.—Orton Crane & Shovel Co., Chicago, at \$11,610.61 submitted low bid to Bureau of Supplies and Accounts, Navy Department, to furnish one 15-ton capacity crawler-type crane and spares under Schedule 9785.

CAPITAL CITY TITLE COMPANY

J. C. PALEN,
Manager

914 Seventh Street
Sacramento :: California

DALY CITY, San Mateo Co., Cal.—W. J. Sweeney, Daly City, at \$1059 awarded contract by city council to furnish one Studebaker panel truck. Complete bids follow:
W. J. Sweeney (Studebaker).....\$1050
Pantaleone Bros. (Nash)..... 1462
Kleiber Motor Car Co..... 1670

BURLINGAME, San Mateo Co., Cal.—Westover & Steele, 1218 A St., Hayward, at \$22 per hour submitted low bid to Supt. of Maintenance, State Highway Commission, Burlingame, for the rental of one ½ cu. yd. capacity gasoline power shovel for 60 days. Complete bids follow:
Westover & Steele, Hayward...\$22.00
Contractors Mach. Exch., Oakland
land 24.40
Lance & Kooser, San Jose..... 28.00
Jack Harrison, Oakland..... 31.00
L. Devincenzi, S. F. 32.50
Pacific Truck Service, S. J..... 35.00
Garcia Constr. Co., Irvington... 38.50
Bids held under advisement.

SAN FRANCISCO—Mack International Motor Truck Corp., at \$1975 awarded contract by City Purchasing Agent under Bid No. 968, to furnish one 2-ton auto truck chassis and cab.

LOS ANGELES, Calif.—Until 11 A. M., April 24 (extended from April 12) bids will be received by A. J. Holm, City Purchasing Agent, 107 City Hall, to furnish and deliver to Water and Power Dept., f.o.b. warehouse at 1630 N Main St., one only 24x18-in. selective geared head, motor driven engine lathe, complete. Specifications No. 3048. Department desires right and option to turn in toward purchase price of the above one used punch press, located in machine shop at 1630 N Main Street.

29—STREETS AND HIGHWAYS

OREGON STATE—Until April 19, 9 A. M., bids will be received by State Highway Commission, Multnomah Hotel, Portland, for highway construction as follows:

CLACKAMAS COUNTY—Produce and stockpile 10,500 cu. yds. crushed rock Sandy-Twin Bridges Section, Mt. Hood Highway.

DOUGLAS COUNTY—Produce and stockpile 5500 cu. yds. crushed gravel Mystic Creek-Winston Section, Coos Bay-Roseburg Highway.

JACKSON COUNTY—Produce and stockpile 4600 cu. yds. crushed gravel, Trail-Prospect Section, Crater Lake Highway.

KLAMATH COUNTY—Produce and stockpile 7750 cu. yds. crushed rock, Klamath Falls Rock Production Proj.

UMATILLA COUNTY—Produce and stockpile 7000 cu. yds. crushed rock, Emigrant Hill-Meacham Section, Old Oregon Trail.

Specifications obtainable from Highway Dept., Salem, Oregon, on deposit of \$5.

SPOKANE, Wash.—March Constr. Co., Spokane, at \$20,673 submitted low bid to Spokane County Commissioners to grade and surface 3.73 mi. West Bradshaw lateral highway No. 18 between Liberty School and Latah Creek bridge west of Fairfield. Materne Bros. second low at \$21,437; American Constr. & Digging Co., third low at \$22,254; only other bid submitted by F. R. Hewitt at \$26,348.

MERCED COUNTY, Cal.—All bids rejected by State Highway Commission to grade and pave with Portland cement concrete 0.9-mi. Merced River Bridge approaches.

N. M. Ball, Porterville and Willard, Blasotti & Lovatti, Stockton, bidding together, submitted low bid March 29 at \$35,644.40.

The project was advertised as an emergency Federal Aid project, and as the U. S. Bureau of Public Roads has received instructions not to approve any additional projects payable from the Emergency Federal Aid Fund, it will be readvertised eliminating from the specifications the Federal aid requirements.

LASSEN COUNTY, Cal.—All bids rejected by State Highway Commission to surface with bituminous treated crushed gravel or stone (road mix method) 2-mi. between Susanville and Johnstonville.

Peninsula Paving Co. submitted low irregular bid March 29 at \$18,405.50; low regular bid submitted by Hein Bros. Basalt Rock Co., Petaluma, and Highway Builders, Ltd., San Anselmo, bidding together, at \$18,946.

The project was advertised as an emergency Federal Aid project, and as the U. S. Bureau of Public Roads has received instructions not to approve any additional projects payable from the Emergency Federal Aid Fund, will be readvertised eliminating from the specifications the Federal aid requirements.

LOS ANGELES, Cal.—Graham Bros. Inc., awarded contract by City Purchasing Agent, at \$1980 for furnishing 600 tons of sand at \$1.10 per ton and 825 tons of crushed rock for Class "C" concrete at \$1.60 per ton and delivering same along Venice Blvd. and Lincoln Blvd. Sewer Dist. Bid No. 4025.

SEATTLE, Wash.—No bids received April 12 by Board of Public Works, G. W. Roberge, Secretary, to improve Railroad Ave. from Madison to Bay Sts., including construction of a concrete sea wall. Estimated cost, \$1,200,000. Successful bidder was required to take half payment in local improvement bonds.

LASSEN AND SIERRA CO., Cal.—Until April 27, 2 P. M., bids will be received by F. W. Haselwood, District Engineer, State Highway Commission, Redding, to treat with asphaltic road oil as a dust palliative 40.4 mi. existing roadbed between 2-mi. west of Milford and Doyle and between Long Valley Creek and the Nevada State Line. Specifications obtainable from above office. Certified check 10% required with bid.

TRINITY COUNTY, Cal.—Until Apr. 27, 2 P. M., bids will be received by F. W. Haselwood, District Engineer, State Highway Commission, Redding, to treat with fuel oil and asphaltic road oil as a dust palliative 26.5 mi., between Weaverville and White's Bar Creek. Specifications obtainable from above office. Certified check 10% required with bid.

SANTA CRUZ, Santa Cruz Co., Cal.—Directors of Joint Highway District No. 9, authorize district engineer to prepare plans for 3½ miles Gianone Hill Road, 12 miles north of Santa Cruz, part of the Ocean Shore Highway project.

SAN FRANCISCO.—Until April 19, 1:45 P. M., informal bids will be received by Dept. of Public Works, S. J. Hester, secretary, to improve Portola and Miramar Drives, involving

stairway, sidewalk and planting the slopes. Estimated cost \$900.

SAN FRANCISCO.—Lowrie Paving Co., 1540 16th St., at \$1915.96 awarded contract (one bid submitted) by the Department of Public Works to improve crossing of Fitzgerald and Jennings; also Jennings, Fitzgerald to Gilman; unit prices in issue of April 6.

SAN FRANCISCO.—Lowrie Paving Co., 1540 16th St., at \$457.75 awarded contract by the Department of Public Works to improve north half of Army St., Castro to 75 ft. east. Complete bids published April 6.

FAIRFAX, Marin Co., Calif.—City council postpones action on Manor Hill Section street improvement until May 5, 8 P. M. Project includes paving, curb and gutters, and involves:

- (1) 15,104 cu. yds. grading;
- (2) 10,380 lin. ft. conc. curb and gutter;
- (3) 63,437 sq. ft. asph. pavement;
- (4) 206 ft. 10-in. metal pipe culvert;
- (5) 356 ft. 12-in. do;
- (6) 192 ft. 18-in. do;
- (7) 46 ft. 48-in. do;
- (8) 22 concrete catchbasins, c.i. grading;
- (9) 33 cu. yds. reinf. concrete retaining wall;
- (10) 250 lin. ft. 6-in. sanitary sewer;
- (11) 1 lamphole.

Estimated cost, \$30,000. J. C. Oglesby, city engineer.

LOS ANGELES, Calif.—J. L. McClain, 345 W. Slauson Ave., at \$15,577.59 submitted low bid April 15 to board of public works to improve Motor Avenue bet. Manning Avenue and National Blvd.

LOS ANGELES, Calif.—Until 10 A. M., April 26, bids will be received by board of public works for the improvement of the second alley west of Cabrillo Ave. bet. 17th St. and 18th St. under the 1911 Act. The engineer's list of quantities follows:

- (1) grading (168 cu. yds. cut, 2 cu. yds. fill);
- (2) 5401 sq. ft. 5-in. conc. paving;
- (3) 6 ft. unplastered light curb;
- (4) 10 sq. ft. 1-course walk.

remove 6 ft. curb, 10 sq. ft. walk. Engineer's estimate, \$948.94.

CULVER CITY, Los Angeles Co., Cal.—H. E. Eaton, Street Superintendent, is making a preliminary survey of the proposed improvement of Beverly Drive, through from Beverly Hills to Pico Blvd., thence along the Cheviot Hills through Palms, to converge with Duquesne or Lafayette Sts. Mr. Eaton is working in conjunction with the Los Angeles city engineer's office. The estimate is \$450,000 and plans are under way to ask for R. F. C. funds.

CLARK COUNTY, Nevada—Call for bids to have been opened April 12 postponed indefinitely by State Highway Engineer S. C. Durkee, Carson City, to furnish, apply and mix asphaltic fuel oil with the roadway surface over 11.51 mi., between Lower Virgin River Bridge and Mesquite, because of statement by U. S. Bureau of Public Roads that no projects containing Federal Aid will be approved by them until further notice.

SAN FRANCISCO.—As previously reported, until April 26, 2:30 P. M., bids will be received by Dept. of Public Works, S. J. Hester, Secretary, to construct sidewalks on Sixth Ave., Judah to Kirkham Sts., et al., involving 5000 sq. ft. Estimated cost, \$2,500. Specifications obtainable from office of John J. Casey, city engineer, 3rd floor, City Hall.

EPHRATA, Wash.—L. J. Lavin, at \$4987 submitted low bid April 4 to Grant County Commissioners for highway construction on Lateral Highway No. 11, 4 miles of road south of Warden, involving:

- 26,500 cu. yds. excavation;
- 3,820 cu. yds. crushed gravel surf.;
- 72 ft. culvert pipe.

Jeske Bros. second low at \$6793; Fred G. Redmon, third low at \$7500.

SAN JOSE, Santa Clara Co., Cal.—Following contracts awarded April 10 by County Supervisors for road surfacing as follows

Earle W. Heple, 494 Delmas Ave., San Jose, at \$5848, for **WHISMAN ROAD** from the Mountain View-Alviso Road to the Bayshore Highway, involving 155,930 sq. ft. oil macadam. Complete bids follow

E. W. Heple, San Jose.....	\$ 5,848.00
A. J. Raisch, San Jose.....	6,345.00
Peninsula Paving Co., S. F.....	7,218.28
Piazza & Green, San Jose.....	7,444.00
Granite Con. Co., Watsonville.....	9,143.00
Tyson & Karstedt, San Jose.....	9,183.00
John Jurkovich, Fresno.....	12,474.00
Estimate	9,000.00

Earle W. Heple, 494 Delmas Ave., Delmas Ave., San Jose, at \$4233 for **PLUMMER AVE.** from the Foxworth Road to Curtner Ave., involving 89,700 sq. ft. oil macadam. Complete bids follow:

E. W. Heple, San Jose.....	\$4,233.00
A. J. Raisch, San Jose.....	4,589.00
Peninsula Paving Co., S. F.....	4,988.33
Piazza & Green, San Jose.....	5,039.00
Tyson & Karstedt, San Jose.....	5,113.00
O. G. Ritchie, San Jose.....	5,320.00
Granite Const. Co., Watsonville.....	6,100.00
Engineer's estimate	5,750.00

Earle W. Heple, 494 Delmas Ave., San Jose, at \$9181 for **EAST HIGHLAND** and Edgemont Sts. in the eastern foothills, involving 162,600 sq. ft. oil macadam. Complete bids follow:

E. W. Heple, San Jose.....	\$ 9,181.00
A. J. Raisch, San Jose.....	9,942.00
Peninsula Paving Co., S. F.....	11,313.84
Granite Con. Co., Watsonville.....	15,360.00
Estimate	11,500.00

A. J. Raisch, 305 Burrell Bldg., San Jose, and 251 Kearny St., San Francisco, at \$7892 for **GILROY-HOLLISTER** and Fourth and Sixth streets, near Gilroy, involving 35,500 sq. ft. paving and 11,000 sq. ft. rebuilding; 4th St. involves 19,925 sq. ft. paving; 6th St. involves 29,307 sq. ft. pavement, oil macadam. Complete bids follow:

A. J. Raisch, San Jose.....	\$ 7,892
Granite Constr. Co., Watsonville.....	8,662
Tyson & Karstedt, San Jose.....	10,684
Estimate	8,900

A. J. Raisch, 305 Burrell Bldg., San Jose, and 251 Kearny St., San Francisco, at \$2190 for **RACE ST. AND FRUITVALE AVE.** on the outskirts of San Jose, involving \$58,000 sq. ft. oil macadam. Complete bids follow:

A. J. Raisch, San Jose.....	\$2190.00
E. W. Heple, San Jose.....	2496.00
Peninsula Paving Co., S. F.....	3033.23
Piazza & Green, San Jose.....	3149.00
Granite Const. Co., Watsonville.....	3830.00
Estimate	3500.00

EPHRATA, Wash.—Mathieson Construction Co., at \$17,500 submitted low bid April 4 to Grant County Commissioners for highway construction on Highway No. 28, grade and surface 9.1 miles of highway between Ephrata and Neppel, involving:

- 47,310 cu. yds. excavation;
- 2,410 cu. yds. overhaul;
- 11,550 cu. yds. crushed gravel surf.;
- 1,050 cu. yds. backfill;
- 42 ft. culvert pipe.

Hardesty and Morton, second low at \$18,312; D. A. Sullivan, third low at \$18,947.

ELLENSBURG, Wash.—G. J. Norris, Burlington, Wash., at \$19,037 awarded contract by Kittitas County Commissioners for 4.75 miles of highway construction on Lateral Highway No. 10, involving:

31,120 cu. yds. Class A excavation;
810 cu. yds. Class D excavation;
102 cu. yds. struc. excavation;
23,200 cu. yds. overhaul x 100;
1,440 cu. yds. special borrow in place;
5,700 cu. yds. surfacing;
32.7 cu. yds. Class A concrete;
46.5 cu. yds. Class B concrete;
7,730 lbs. reinf. steel bars;
72 lin. ft. 12-in. concrete pipe;
15 lin. ft. 12-in. corr. iron pipe;
495 lin. ft. 12-in. do, Class 2;
57 lin. ft. 18-in. do, Class 3;
36 lin. ft. 24-in. do, Class 3;
9 lin. ft. 18-in. concrete pipe.

Queen City Const. Co. second low at \$19,500; Redmon & Turner, Yakima, third low.

SAN FRANCISCO—Public Utilities Commission, Felton Taylor, Secretary, awards emergency contract to Guerlin Bros., 2940 San Jose Ave., at \$38 per cu. yd. for 6200 cu. yds. rock material to repair connection, Crystal Springs Road to Polhemus, San Andres Road.

LASSEN COUNTY, Cal.—Until May 3, 2 P. M., bids will be received by State Highway Commission, Sacramento, to surface with bituminous treated crushed gravel or stone (road mix method) two miles between Susanville and Johnstonville, involving:

- (1) 2490 cu. yds. crusher run base;
- (2) 2925 cu. yds. crushed gravel or stone (bit. treated surface);
- (3) 200 M. gals. water;
- (4) 115 bbls. heavy fuel oil;
- (5) 187 tons cut-back asph. (bit. tr. surf.);
- (6) 105 sta. mix cut-back asphalt and crushed gravel or stone;
- (7) 104 sta. finish roadway.

This project was originally adver-

30—RESERVOIRS & DAMS

GRAND COULEE, Wash.—The U. S. Bureau of Reclamation has prepared preliminary plans for a dam to be constructed in the Columbia River Basin to be known as the Grand Coulee Dam for the development of power and irrigation of 1,200,000 acres. The Washington legislature has appointed a commission to secure the necessary federal appropriations. The cost of the project is estimated at \$394,155,000, segregated as follows:

Grand Coulee Dam—\$125,750,000. The proposed dam will be 450 ft. high, 4,140 ft. long, involving 11,266,000 cu. yds. concrete.

Reservoir—150 miles in length, extending to the Canadian border.

Power Plant—\$60,000,000 to develop 2,000,000-h.p.

Irrigation—\$200,000,000 has been estimated as the cost of irrigating 1,200,000 acres.

GLENDALE, Los Angeles Co., Cal.—All bids for materials for the Chevy Chase Reservoir, opened by city council March 30, rejected April 6. The materials will be purchased in the open market. P. Diederich, Supt. of Plant and Production.

SANTA CRUZ, Cal.—City Council authorizes City Commissioner Alvin Weymouth to have plans prepared by City Engineer Roy Fowler to erect a roof over the Bay Street storage reservoir.

LOS ANGELES, Cal.—All bids for constructing three 300,000-gal. reservoirs for Sections 1 and 2, water sup-

ply line of the Colorado River Aqueduct, opened April 4, were rejected by the board of directors April 7.

The board ordered the Schedule re-advertised, bids to be received at a date to be announced later.

31—PIPE LINES & WELLS

LOS ANGELES, Cal.—Lang Transportation Co., 5501 Santa Fe Avenue, awarded contract by the Metropolitan Water District April 7 at \$24,217.59 for constructing a water supply pipe line along the line of the Colorado River Aqueduct, Sections 1 and 2, Colorado River to Iron Mountain. The total of the contract, \$24,217.59 was divided as follows:

Schedule 1, excavating and backfilling, \$6420.

Schedule 2, hauling and stringing pipe, lowering pipe and testing, \$17,797.59.

SEATTLE, Wash.—Until April 27, 10 A. M., bids will be received by the Board of Public Works, G. W. Roberge, Secretary, to furnish materials for and construct a pipe line .78-in. internal diameter, to replace the existing Cedar River Pipe Lines Nos. 1 and 2, from a point on the Cedar River Pipe Line right-of-way at approximately Sta. 221 to Sta. 428 plus 55, and from a connection with the pipes at the concrete spillway discharging into Lake Youngs, 6400 ft., to the intake of the Lake Youngs tunnel. Certified check 5% payable to City Comptroller, required with bid. Specifications obtainable from above office, or from City Engineer, 4th floor, County-City Bldg., on deposit of \$20, returnable. Estimated cost, \$750,000. City Engineer, M. O. Syllaasen.

WHITTIER, Los Angeles Co., Cal.—Saunders Bros., 112½ S. Pickering Ave., Whittier, awarded contract by city council April 10, at \$2062, for drilling, casing, developing and testing one 24-in. water well, approximately 250 ft. deep. Bids were also submitted on a per ft. basis for additional depth.

32—SEWERS & SEWAGE DISPOSAL PLANTS

EL CERRITO, Contra Costa Co., Calif.—City council decides to construct storm sewer on Fairmont Ave. by day labor. Project was originally planned as work in conjunction with the East Bay Municipal Utility District, who will share in the cost, estimated at \$6000. H. D. Chapman, city engineer.

LOS ANGELES, Cal.—E. C. Eaton, County Flood Control Engineer, 202 N. Broadway, is completing plans for a storm drain to be constructed in 8th St., north of San Fernando, known as the 8th St. conduit, as a flood control project. The first unit, which will extend from Pacoima Wash to Harding St., will be 2377 ft. in length, 8x12 ft., with cover. The construction will be of reinforced concrete. Estimated cost, \$32,351.60. Work will start about May 1.

MONTEREY PARK, Los Angeles Co., Cal.—C. H. Ellison, city engineer, 426 S. Spring St., Los Angeles, authorized by council to construct a trunk line sewer in Garvey Avenue east from New Ave. to Walnut Grove Ave., south along Walnut Grove Ave. to Rush Ave., east on Rush Ave. to Muscatel Ave., thence south to Lot 37, Tr. 701, the site of the proposed treating plant. The work will involve 15,000 ft. of pipe as follows:

11,500 ft. of 15-in.-in. pipe;
3,500 ft. of 12-in. pipe.
Bids will be taken on both vitrified clay pipe and concrete pipe.

LOS ANGELES, Cal.—Plans for the sewers to be built in the Nagle Ave. and Valley Vista Blvd. Imp. District, under the 1911 Act have been completed and work on preparing the 1931 Act report started by the office of the city engineer. The proposed work will involve:

14,689.77 ft. 8-in. pipe, inc. 433 8x6-in. wyes;

8,208 ft. 6-in. house connections, inc. 262 6-in. ½-in. bends;

(Alternate bids will be taken on concrete and vitrified pipe).

38 manholes "B";

12 junction chambers "F";

2 junction chambers "G";

1 junction chamber "H";

1 drop manhole "S";

4 flushing structures No. 2;

6 do No. 1;

6 lampholes "X";

7 junction chambers to be remodeled to drop manholes;

21 ft. type Z concrete reinf. for 8-in. pipe.

Average depth of structures, 8 ft.

LOS ANGELES, Cal.—Ordinance of intention for the construction of sewers in Acama St. bet. Lankershim Blvd. and 900 ft. west, under 1911 Act, has been forwarded by the city engineer to the city council for early action. The quantities are:

(1) sanitary sewer, involving:

\$62.64 ft. 8-in. cem. pipe, inc. 35 8x

6-in. wyes;

2 manholes "B";

1 flushing structure No. 1;

3 manhole frame and cover sets;

(2) 652 ft. house connections, including 25 ½-in. bends;

(3) 2825 sq. ft. Class A resurfacing;

(4) 12 sq. ft. Class D resurfacing.

Engineer's estimate, \$1910.59.

GLENDALE, Los Angeles Co., Cal.—All bids for sewer pipe and other materials for the South Street Storm Drain and the Sparr Blvd. Storm Drain, opened March 30, rejected by city council April 6. J. C. Albers, city engineer, authorized to purchase the materials in the open market.

LOS ANGELES, Cal.—Plans for the construction of sewers in Colfax Ave. bet. Magnolia Blvd. and the north outfall sewer, to provide an outlet for the North Hollywood High School sewer, have been completed by J. J. Jessup, Los Angeles City Engineer. The board of education has agreed to pay one-third of the cost provided its share does not exceed \$5000. The city has appropriated \$10,000 toward the work and an agreement is being worked out in the office of the city attorney. The work will involve:

207 ft. 6-in. house connection sewer, inc. 39 6-in. ½ bends;

23 ft. 8-in. extra strength pipe;

324.94 ft. 12-in. stand. strength pipe, inc. 11 12x6-in. wyes;

1838.75 ft. 12-in. extra strength pipe, inc. 74 12x6-in. wyes;

4163.98 ft. 15-in. extra strength pipe, inc. 130 15x6-in. wyes;

220.27 ft. 15-in. stand. strength pipe, inc. 14 15x6-in. wyes;

8 manholes "B";

7 junction chambers "F";

2 drop manholes "S";

1 junction chamber "G";

1 trap manhole;

3 struc. to be remodeled;

38 ft. tunnel for 15-in. pipe.

Average depth of structures, 12.3 ft.

Alternative bids will be taken on concrete and vitrified pipe.

GLENDALE, Los Angeles Co., Cal.—All bids for materials for the Sparr Blvd. and South St. Storm Drain and for the Chevy Chase Reservoir, opened by city council March 30, rejected April 6. The materials will be purchased in the open market. J. C. Albers, city engineer, and P. Diedrich, Supt. of Water Department.

32—SEWERS & SEWAGE DISPOSAL PLANTS

CAPITOLA, Santa Cruz Co., Cal.—Specifications are being prepared by county engineer's office and bids will be called about May 21 to construct outfall sewer system. Estimated cost \$21,500; about \$13,000 worth of bonds have already been sold.

LOS ANGELES, Calif.—Until 10 A. M., April 19, bids will be received by board of public works to furnish reinforced concrete pipe, centrifugal concrete pipe, pipe-laying equipment and skilled foreman, in connection with the improvement of the first alley west of Main St., bet. 108th St. and 111th Place, and portions of other streets, under cash contract, involving:

- (1) 420 ft. 72-in. double med. reinf. conc. pipe;
- (2) 2316 ft. 66-in. do;

LOS ANGELES, Calif.—Until 10 A. M., May 3, bids will be received by board of public works to construct Fish Harbor Intercepting Sewer in the right-of-way westerly from Ways St. bet. the alley south from Terminal Way, and in a portion of Terminal Way. Cash contract, involving:

1742.73 ft. 21-in. stand. strength vit. clay pipe sewer (excl. of curves).
21.47 ft. 21-in. do, including curves.

Resurfacing and concrete reinforcement as shown on plans.

- (3) 69 ft. 42-in. centrif. concrete pipe (angle pipe 60 ft. radius) 1150-D
- (4) 45 ft. 36-in. centrif. conc. pipe, 1200-D;
- (5) 42 ft. 33-in. do;
- (6) 11 ft. reinf. conc. manhole shaft, inc. two reducers;

Alternative:

- (7) 420 ft. 72-in. centrif. conc. pipe, 1050-D;
- (8) 2316 ft. 66-in. do.

33—WATER WORKS

UPLAND, San Bernardino Co., Cal.—Byron - Jackson Co., Los Angeles, has been awarded a contract by the Canyon Ridge Water Corp. for furnishing a specially built pump for the company's new well at 21st St. and Mountain Ave. Installation will start at once.

BELMONT, San Mateo Co., Cal.—Belmont County Water District seeks loan of \$45,000 from Reconstruction Finance Corp. to finance improvements to water system involving two reservoirs and an 8-in. pipe line.

LIVERMORE, Alameda Co., Calif.—West Coast Const. Co., 100 Potrero Ave., San Francisco, at \$7,376 awarded contract by Superintendent of Construction, Veterans' Administration Hospital, Palo Alto, to construct a pipe line, etc., on the water system at the Veterans' Administration Hospital, Livermore. Work includes the construction of one 8-in. Class 150 cast iron pipe line, provision of automatic control for existing pump, corrugated iron housing around pump, etc.

SAN QUENTIN, Marin Co., Cal.—California Steel Products Co., 452 Bay St., San Francisco, at \$10,477 awarded contract by State Department of Public Works for one water tube boiler at the penitentiary at San Quentin.

LOS ANGELES, Cal.—R. W. Stewart, Chief Bridge Engineer, Room 657 City Hall, is preparing plans for the new Figueroa St. tunnel No. 4. The proposed tunnel will be approx. 755 ft. in length, 46 ft. 6-in. wide, with a 40-ft. roadway and a 5-ft. walk and 1½-in. wheel guard, and will be driven through the ridge of hills bet. Bishops Road and Solano St., the latter street being the present south portal of the recently completed series of three tunnels connecting Dayton Ave. with Solano St. and thence to North Broadway. The distance between the completed tunnel measured from the Solano St. entrance and the north entrance to the proposed tunnel will be approx. 800 ft. Extension and widening of Figueroa St. bet. College Ave. and the south entrance to the proposed tunnel is under way. The tunnel work is estimated to cost \$500,000, all of which will be paid in cash.

UPLAND, San Bernardino Co., Cal.—Until 7:30 P. M., May 4, bids will be received by R. G. Manley, City Service Manager, for furnishing water pipe for pipe line replacement and construction. Bids are wanted as follows:

- 1200 ft. 8-in. steel pipe, ⅝-in. wall thickness;
- Or as an alternative:
- 1200 ft. 10-in. steel pipe, ⅝-in. wall thickness.

Certified check or bond, 10%.

LOS ANGELES, Calif.—Until 11 A. M., April 25, bids will be received by A. J. Holm, City Purchasing Agent, 107 City Hall, to furnish and deliver to Water and Power Dept. copper service connection tubing in 60-ft. coils, f.o.b. 410 Ducommun St., under Spec. No. 3052, as follows:

- (1) 1800 ft. (619.20 lbs.) ½-in. tubing;
- (2) 48,000 ft. (30,768 lbs.) ¾-in. tubing
- (3) 24,000 ft. (20,136 lbs.) 1-in. tubing.

Deliveries shall be made in the following manner one-sixth of the footage specified under each item shall be delivered on or about July 2, 1933, and deliveries for like amounts shall be made on first working day of each successive month thereafter for a period of five months after first delivery has been made.

WHITTIER, Los Angeles Co., Cal.—Until 7:30 P. M., May 8, bids will be received by City Council for furnishing 10,000 ft. copper pipe in assorted lengths. The pipe will be principally ¾-in. diameter but will also include sizes up to 2 inches. M. R. Bowen, City Engineer and Water Superintendent. Mrs. Debble E. Allen, City Clerk.

LOS ANGELES, Cal.—Great Western Electro Chemical Co. awarded contract by A. J. Holm, City Purchasing Agent, April 11, at \$18,000 (total estimate), for furnishing Water and Power Department with ferric chloride for 12-month period beginning April 15, 1933, under Specifications No. 3029. The bids were opened March 29.

35—TUNNELS

PASADENA, Cal.—Until 11 A. M., April 25, bids will be received by the city clerk for constructing conduit lines in the San Gabriel Canyon, 4 miles from Azusa, for the Pine Canyon Dam. The work will consist of driving an adit and two short tunnels, trimming exterior of tunnels and appurtenant work. The total length of adit and tunnels is 1955 ft. Section of tunnel is about 6 ft. 6 in. by 7 ft. 5 in. A small amount of timbering and concrete lining may also be included. The quantities follow:

- (1) 500 cu. yds. open cut excav. of loose material at tunnel No. 4;

- (2) 100 cu. yds. open cut excav. of rock at tunnel No. 4;
- (3) 1970 cu. yds. excav. tunnel No. 4, Sta. 26 plus 00;
- (4) 50 cu. yds. open cut excav. of loose material for adit portal;
- (5) 50 cu. yds. open cut rock excav. for adit portal;
- (6) 170 cu. yds. excav. for adit at Sta. 00:00;
- (7) 100 cu. yds. trimming and enlargement of spillway adit and adit portal;
- (8) 20 cu. yds. enlarging existing tunnel at Sta. 7 plus 07 and 12 plus 97;
- (9) 1200 cu. yds. open cut excav. of loose material at upstream portal tunnel No. 5;
- (10) 250 cu. yds. open cut excav. of loose material at downstream portal tunnel No. 5;
- (11) 125 cu. yds. open cut excavation rock at downstream portal tunnel No. 5;
- (12) 970 cu. yds. excav. tunnel No. 5;
- (13) 25 MEM timber in tunnels and adit;
- (14) 150 cu. yds. concrete lining in tunnel or adit;
- (15) 150 cu. yds. enlarge tunnels outside of neat lines;
- (16) extra payment for workmen's compensation, faithful performance bond and labor and material bond are required by city to be obtained of Pasadena agents.

OAKLAND, Cal.—Plans and specifications for proposed Broadway Tunnel between Contra Costa and Alameda Counties, approved by Earl Lee Kelly, Director of State Dept. of Public Works. Wallace B. Boggs, Joint Highway District Engineer. Estimated cost, \$3,752,035. 55

LOS ANGELES, Calif.—Dravo Contracting Co., Pittsburgh, Pa., represented by E. T. Gatt, vice-president, Biltmore Hotel, awarded contract by the Metropolitan Water District April 7 at \$3,136,603 for constructing the east and west portions of the Valverde Tunnel, located near the towns of Lakeview and Perris, Riverside County, under Schedules 3 and 5 for full capacity tunnels, 15.3 ft. in dia. The east portion is 3.8 miles long and the west portion 3.9 miles.

LOS ANGELES, Calif.—Hamilton & Gleason Co., Tramway Bldg., Denver, Colo., represented by Chas. Berry, 1124 Pacific St., Redlands (temporarily at the Lankershim Hotel) awarded contract by the Metropolitan Water District April 7 at \$412,055 for constructing the Bernasconi Tunnel, 1.1 miles in length, 15.3 ft. dia, full capacity, Schedule No. 1. The bids were opened April 3.

CONTRA COSTA COUNTY, Cal.—Pacific Truck Service, Inc., 646 Park Ave., San Jose, at \$3475 submitted low bid to District Engineer, State Highway Commission, San Francisco, to apply 2500 bbls. fuel to 19 mi. existing roadbed in Mount Diablo Park between Danville and the Summit and between the Forks and Walnut Creek, as a dust palliative. Complete bids follow:

- Pacific Truck Service, Inc., San Jose, \$1.39 bbl. \$3475.
 - Basalt Rock Co., Napa, \$1.40; \$3500.
 - C. F. Fredericksen, Lower Lake, \$1.40; \$3500.
 - Lee J. Immel, Berkeley, \$1.475; \$3687.
 - Oilfields Truck Co., Bakersfield, \$1.54; \$3850.
 - U. B. Lee, San Leandro, \$1.58; \$3950.
 - Highway Builders, Inc., San Anselmo, \$1.69; \$4225.
 - A. Telchert & Son, Sacramento, \$1.72; \$4300.
 - A. Mitchell, Sacramento, \$1.74; \$4350.
- Bids held under advisement.

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

SAN FRANCISCO COUNTY JAIL

SAN FRANCISCO. — Anderson and Ringrose, 320 Market St., at \$568,988 submitted low bid to Department of Public Works for the construction of a seven-story men's jail building and two-story women's jail building of Class B reinforced concrete construction, tar and gravel roof, concrete floors, mastic finish in cell block, steel cells, steel sash, steam heating system, ventilating system, laundry, kitchen, etc. It will be erected at Sneath Ranch, San Mateo County, for the City and County of San Francisco from plans prepared by Architects Albert F. Roller, Crocker First National Bank Building and Dodge Riedy Pacific Building. Following bids received:

- (1) work complete;
- (1-a) changing windows;
- (2-a) omit elevator equipment for elevator No. 2;
- (3-a) if mechanical unlocking and dead locking device be furnished
- (4-a) if greenhouse is omitted;
- (5-a) hospital ward walls tiled to a height of 7 ft. 6-in.;
- (6-a) if interior rooms are metal in place of wood;
- (7-a) recreation yard paved with 3-in. waterbound macadam;
- (8-a) all concrete sidewalks of asphalt concrete;
- (9-a) ¼-inch plate walls of utility chambers changes to 3/16-in.;
- (10-a) washing machine in kitchen;
- (11-a) use Schlage hardware in lieu of that specified.
- Unit A—excavation and backfill from natural grade to 4 ft. below:
 - (a-1) hand;
 - (a-2) shovel;
 - (a-3) deduct for hand;
 - (a-4) deduct for shovel.
- Unit B—excavation and backfill from natural grade to 8 ft. below:
 - (b-1) hand;
 - (b-2) shovel;
 - (b-3) deduct for hand;
 - (b-4) deduct for shovel;
- Unit C—excavation and backfill from natural grade to 12 ft. below:
 - (c-1) add;
 - (c-2) deduct.
- Unit D—excavation and backfill from natural grade to 16 ft. below:
 - (d-1) add;
 - (d-2) deduct;
 - (e) Class A concrete, add;
 - (e-1) Class A concrete, deduct;
 - (f) Class B concrete, add;
 - (f-1) Class B concrete, deduct;
 - (g) Class C concrete, add;
 - (g-1) Class C concrete, deduct;
 - (h) reinforcing steel, per lb., add;
 - (h-1) do, deduct;
 - (i) 12 ft. wire fence, per lln ft., add;
 - (i-1) do, deduct;
 - (j) Mastic flooring, per sq. ft., add;
 - (j-1) do, deduct;
 - (k) do, equal to Duraflex "A", add;
 - (k-1) do, deduct;
 - (l) Mastic base, per lln. ft., add;
 - (l-1) do deduct;
 - (m) 4-in. glazed terra cotta walls, per sq. ft., add;
 - (m-1) do, deduct;
 - (n) 2-in. do, add;
 - (n-1) do, deduct;
 - (o) setting 4-in. terra cotta walls, per sq. ft., add;
 - (o-1) do, deduct;
 - (p) setting 2-in. do, add;
 - (p-1) do, deduct.

(A) Anderson & Ringrose.....	\$568,988
(B) MacDonald & Kahn.....	579,976
(C) K. E. Parker.....	582,400
(D) Lindgren & Swinerton.....	585,000
(E) Dinwiddie Const. Co.....	588,900
(F) Clinton Const. Co.....	598,000
(G) M. B. McGowan.....	627,137
(H) Barrett & Hilp.....	657,136

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
(1)	\$568,988.00	\$579,976.00	\$582,400.00	\$585,000.00	\$588,900.00	\$598,000.00	\$627,137.00	\$657,136.00
(1-a)	39,000.00	43,300.00	43,850.00	27,500.00	41,260.00	43,000.00	43,000.00	44,300.00
(2-a)	5,000.00	5,250.00	5,250.00	5,600.00	5,260.00	5,000.00	6,000.00	5,000.00
(3-a)	32,000.00	33,500.00	25,000.00	33,500.00	24,800.00	24,000.00	33,500.00	25,000.00
(4-a)	300.00	1,200.00	1,275.00	650.00	1,528.00	1,200.00	900.00	1,600.00
(5-a)	1,150.00	680.00	820.00	800.00	977.00	1,000.00	880.00	800.00
(6-a)	6,000.00	4,250.00	3,000.00	2,100.00	4,332.00	4,000.00	3,500.00	3,500.00
(7-a)	6,000.00	2,800.00	2,135.00	5,050.00	3,517.00	4,000.00	4,000.00	3,500.00
(8-a)	300.00	230.00	462.00	.....	266.00	200.00	300.00	400.00
(9-a)	1,500.00	1,670.00	1,670.00	1,670.00	1,670.00	1,000.00	1,670.00	900.00
(10-a)	75.00	20.00	100.00	.....	100.00	.....	200.00	150.00
(11-a)	300.00	250.00	240.00	.....	250.00	200.00	225.00	200.00
(a-1) .....	.50	.60	1.00	1.50	1.00	.75	.25	1.00
(a-2) .....	.....	.....	.25	.....	.....	.....	.....	.....
(a-3) .....	.15	.15	.75	1.00	.75	.20	.15	.25
(a-4) .....	.....	.....	.15	.....	.....	.....	.....	.....
(b-1) .....	.75	.75	2.50	1.75	1.25	1.50	.25	1.50
(b-2) .....	.....	.....	.25	.....	.....	.....	.....	.....
(b-3) .....	.15	.20	1.50	1.25	1.00	.30	.15	.25
(b-4) .....	.....	.....	.15	.....	.....	.....	.....	.....
(c-1)	1.50	1.00	3.50	2.50	1.50	2.50	.40	2.00
(c-2) .....	.25	.20	1.50	1.25	1.20	.40	.20	.25
(d-1)	2.50	1.50	5.00	3.00	2.00	4.00	.50	2.50
(d-2) .....	.30	.25	1.50	2.00	1.50	.50	.20	.25
(e)	18.00	12.00	14.50	8.00	7.00	15.00	15.00	20.00
(e-1)	9.00	8.00	11.00	5.00	5.50	11.00	10.00	8.00
(f)	16.00	11.80	13.50	7.80	7.00	15.50	17.50	20.00
(f-1)	8.00	7.00	11.00	4.80	5.50	7.00	11.00	8.00
(g)	20.00	12.20	15.00	8.15	7.00	17.00	20.00	20.00
(g-1)	9.00	8.20	11.50	5.15	5.50	12.00	12.50	8.00
(h) .....	.06	.04	.0325	.05	50.00	.04	.03	.04
(h-1) .....	.02	.02	.0225	.03	35.00	.03	.02	.025
(i)	3.00	2.70	2.50	2.60	2.78	3.00	3.00	2.75
(i-1)	1.75	2.30	1.30	1.75	2.28	2.25	2.53	2.50
(j) .....	.35	.20	.19	.25	.20	.25	.25	.25
(j-1) .....	.15	.14	.18	.10	.16	.15	.185	.15
(k) .....	.30	.18	.19	.25	.20	.25	.25	.22
(k-1) .....	.12	.11	.18	.08	.16	.15	.185	.13
(l) .....	.35	.25	.30	.35	.30	.30	.35	.25
(l-1) .....	.18	.20	.25	.15	.20	.20	.25	.15
(m) .....	.80	.80	.73	.75	.85	.90	1.00	1.20
(m-1) .....	.45	.60	.60	.50	.70	.50	.75	.80
(n) .....	.75	.70	.73	.65	.76	.80	.95	1.00
(n-1) .....	.40	.58	.50	.45	.65	.40	.65	.60
(o) .....	.40	.35	.25	.25	.30	.30	.25	.30
(o-1) .....	.20	.25	.20	.15	.18	.20	.15	.20
(p) .....	.40	.35	.25	.25	.25	.30	.20	.25
(p-1) .....	.20	.25	.20	.15	.12	.20	.10	.15

BIT. TREATED SURFACE, 11.5 MILES—PLACER CO.

PLACER COUNTY, Cal.—Peninsula Paving Co., Standard Oil Bldg., San Francisco, at \$132,831 submitted low bid April 12 to State Highway Commission to surface with bituminous treated crushed gravel or stone 11.5 miles between Gold Run and Airport, involving:

- (1) 100 cu. yds. struc. excavation;
- (2) 9,000 cu. yds. selected material;
- (3) 38,000 tons crusher run base;
- (4) 23,000 tons crushed gravel or stone (bit. treated surf.);
- (5) 11,000 tons untreated crushed gravel or stone surf. (shoulders);
- (6) 2,500 gals. water;
- (7) 900 barrels light fuel oil (prime coat);
- (8) 1,200 tons cut-back asphalt;
- (9) 40 cu. yds. rubble masonry, walls;
- (10) 78 lin. ft. do, parapet;
- (11) 10,000 lin. ft. laminated timber guard rail;
- (12) 1034 timber guide posts;

- (13) 294 culvert markers;
- (14) 607 sta. finish roadway;

Complete bids follow:

(A) Peninsula Paving Co., San Francisco, \$132,831.

(B) Fredrickson & Watson and Jones & King, Oakland, \$135,337.

(C) A. Teichert & Son, Sacramento, \$139,393.

(D) Union Paving Co., San Francisco, \$158,094.

(E) Central States Contr. Co., Ltd., Oakland, \$163,249.

(F) Hemstreet and Bell, Marysville, \$166,335.50.

(G) Hein Bros. Basalt Rock Co., Petaluma and Highway Builders, Ltd. San Anselmo, \$167,948.

(H) M. J. Bevanda, Stockton, \$173,014.50.

(I) N. M. Ball, Porterville, D. McDonald and E. B. Bishop, Sacramento, \$175,953.

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
(1).....	\$ 1.00	\$ 1.00	\$ 1.00	\$ 1.00	\$ 2.00	\$ 2.00	\$ 1.00	\$ 1.50	\$ 1.50
(2).....	.45	.40	.45	.60	.50	.50	.55	.50	.60
(3).....	1.21	1.17	1.24	1.50	1.57	1.65	1.58	1.60	1.61
(4).....	1.36	1.50	1.53	1.65	1.90	1.85	2.05	2.00	2.10
(5).....	1.29	1.17	1.35	1.50	1.57	1.75	1.68	1.40	1.73
(6).....	1.50	1.35	1.00	1.50	.75	1.25	1.00	1.60	1.40
(7).....	2.00	2.50	2.30	2.25	2.25	2.00	1.90	2.25	2.15
(8).....	18.00	18.50	18.00	18.00	17.00	16.00	16.50	21.00	17.50
(9).....	6.00	10.00	9.00	12.00	12.00	12.50	10.00	15.00	8.00
(10).....	1.00	2.50	2.50	4.00	3.50	3.00	3.00	5.00	5.00
(11).....	.65	.70	.70	.85	.80	.80	.75	.80	.80
(12).....	2.00	2.50	2.25	2.00	2.00	2.45	2.00	2.25	2.50
(13).....	2.00	2.00	1.75	2.00	2.00	1.80	2.00	2.00	2.00
(14).....	1.00	2.00	2.50	3.00	2.00	2.00	4.00	5.00	5.00

IMPROVE LAIDLLEY ST.—SAN FRANCISCO

SAN FRANCISCO—E. J. Treacy, 309 Call Bldg., San Francisco, at \$6,994.50 submitted low bid April 12 to Department of Public Works to improve Laidley, Fairmount to Miguel Sts., including crossing Fairmount and Laidley, involving:

- (1) 1400 cu. yds. excavation;
- (2) 220 cu. yds. Class B concrete;
- (3) 16,200 lbs. bar reinf. steel;
- (4) 565 ft. reinf. concrete fence;
- (5) 407 ft. 12-in. V.C.P. sewer;
- (6) 310 ft. 8-in. do;
- (7) 122 ft. 6-in. V.C.P. side sewer;
- (8) 10 12x6-in. Y branches;

- (9) 10 8x6-in. do;
- (10) 8 brick manholes;
- (11) 2 brick catchbasins;
- (12) 1 do, reset;
- (13) 26 ft. 10-in. V.C.P. culverts;
- (14) 2 red reflectors.

Complete bids follow:

(A) E. J. Treacy.....\$6286.97

(B) Eaton & Smith..... 6415.00

(C) C. L. Harney..... 6994.50

(D) M. J. Lynch..... 7107.20

(E) John E. Heilmann..... 7364.55

(F) Fay Imp. Co..... 7587.41

(G) F. C. Amoroso & Sons..... 7960.70

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
(1).....	\$.25	\$.25	\$.30	\$.35	\$.30	\$.325	\$.40
(2).....	16.50	16.60	16.00	18.00	13.00	17.25	13.90
(3).....	.034	.03	.0325	.03	.027	.04	.03
(4).....	.51	.50	1.00	1.00	1.35	.75	.60
(5).....	1.06	1.00	1.50	1.00	2.20	1.95	3.10
(6).....	.80	1.00	1.10	1.00	1.70	1.38	3.20
(7).....	.65	.75	.75	.60	1.50	.95	1.50
(8).....	1.50	1.00	1.00	1.00	3.50	1.25	4.00
(9).....	1.25	1.00	1.00	1.00	3.00	1.00	3.50
(10).....	60.00	70.00	75.00	70.00	100.00	78.00	85.00
(11).....	60.00	70.00	85.00	70.00	100.00	84.00	92.00
(12).....	25.00	50.00	50.00	40.00	75.00	38.00	26.00
(13).....	1.00	1.00	1.00	1.00	1.50	1.38	3.00
(14).....	15.00	20.00	25.00	15.00	50.00	22.00	19.00

MONTEREY COUNTY, Cal.—Chas. W. Lane, Paso Robles, at \$615.25 submitted low bid to District Engineer, State Highway Commission, San Luis Obispo, to extend existing reinforced concrete box culvert about 3-mi. south of San Lucas, involving:

- (1) 110 cu. yds. struc. excav.;
- (2) 27 cu. yds. class A Portland cement concrete (struc.);
- (3) 1850 lbs. bar reinf. steel (struc.);
- (4) 5 cu. yds. Portland cement concrete removed from existing culvert and disposed of.

Complete bids follow:

(A) Charles W. Lane, Paso Robles, \$615.25.

(B) J. B. Pierson & Son, Oakland, \$652.50.

(C) J. F. Butler, San Luis Obispo, \$654.50.

(D) Santa Maria Constr. Co., Santa Marla, \$673.40.

(E) L. A. Briscoe, Arroyo Grande, \$776.50.

(F) Granite Constr. Co., Watsonville, \$871.75.

(G) W. A. Dontanville, Sallnas, \$886.

(H) R. J. Gibson, Gonzales, \$892.50.

- (1) 110 cu. yds. struc. excav.;
- (2) 27 cu. yds. class A Portland cement concrete (struc.);
- (3) 1850 lbs. bar reinf. steel (struc.);
- (4) 5 cu. yds. Portland cement concrete removed from existing culvert and disposed of.

Complete bids follow:

(A) Charles W. Lane, Paso Robles, \$615.25.

(B) J. B. Pierson & Son, Oakland, \$652.50.

(C) J. F. Butler, San Luis Obispo, \$654.50.

(D) Santa Maria Constr. Co., Santa Marla, \$673.40.

(E) L. A. Briscoe, Arroyo Grande, \$776.50.

(F) Granite Constr. Co., Watsonville, \$871.75.

(G) W. A. Dontanville, Sallnas, \$886.

(H) R. J. Gibson, Gonzales, \$892.50.

	(1)	(2)	(3)	(4)
(A).....	\$.75	\$15.75	\$.05	3.00
(B).....	.70	16.50	.05	7.50
(C).....	1.00	16.00	.05	4.00
(D).....	.60	18.70	.05	2.00
(E).....	1.00	20.50	.055	2.25
(F).....	.75	25.50	.045	3.50
(G).....	.90	25.00	.05	4.00
(H).....	.85	24.50	.05	9.00

LOS ANGELES, Cal.—Bids for furnishing engineering department with concrete pipe under Spec. No. 3056, f.o.b. along trench in Santa Barbara Ave. bet. Sutro Ave. and Crenshaw Blvd. for improvements in connection with Santa Barbara Ave. and Crenshaw Blvd. Imp. Dist., were opened by A. J. Holm, City Purchasing Agent, April 6. The items are as follows:

- (1) 3500 ft. 24-in. conc. pipe, 1250-D;
- (2) 210 ft. 30-in. do;
- (3) 75 ft. 48-in. do, 1150-D;
- (4) 120 ft. 21-in. concrete pipe, standard strength;
- (5) 138 ft. 18-in. do;
- (6) 300 ft. 12-in. do;
- (7) 20 24-in. reinf. concrete manhole rings;
- (8) 90 ft. 15-in. concrete pipe, standard strength.

The bidders were:

(A) American Concrete & Steel Pipe Co., \$3436, 5%, 30 days.

(B) United Concrete Pipe Corp.—not including manhole pipe—\$8019.22, 2%, 30 days.

The bids were:

	(A)	(B)
(1).....	\$1.98	\$2.88
(2).....	3.10	2.96
(3).....	5.60	5.38
(4).....	1.20	1.14
(5).....	0.85	0.79
(6).....	0.40	0.39
(7).....	4.10	4.25
(8).....	0.60	0.57

LOS ANGELES, Cal.—United Conc. Pipe Corp., 1347 W 208th St., awarded contract March 29 by board of public works to furnish reinforced concrete and centrifugal pipe for use in connection with the construction of storm drains in Colorado Blvd. bet. Maywood and El Rio Ave., as follows:

- (1) 630 ft. 72-in. R.C.P. dbl. medium;
- (2) 195 ft. 60-in. do;
- (3) 1334 ft. 54-in. do;
- (4) 20 ft. 42-in. centrif. concrete pipe (1150-D);
- (5) 50 ft. 39-in. do (1200-D);
- (6) 200 ft. 36-in. do;
- (7) 355 ft. 33-in. do;
- (8) 340 ft. 30-in. do;
- (9) 60 ft. 27-in. do;
- (10) 24 ft. 24-in. do.

The bidders were:

(A) United Concrete Pipe Corp.

(B) American Concrete & Steel Pipe Company.

The bids follow:

	(A)	(B)
(1).....	\$9.80	\$9.95
(2).....	7.95	8.15
(3).....	6.38	6.50
(4).....	4.70	4.95
(5).....	4.50	4.65
(6).....	3.90	4.05
(7).....	3.37	3.50
(8).....	2.92	3.10
(9).....	2.73	2.75
(10).....	2.10	2.00

SANTA CRUZ COUNTY, Cal.—L. A. Briscoe, Arroyo Grande, at \$1662.50 submitted low bid to District Engineer, State Highway Commission, San Francisco, to apply 950 bbls. fuel oil to 7 mi. existing roadbed between Slippery Rock Maintenance Station and Waterman Switch, as a dust palliative. Complete bids follows

L. A. Briscoe, Arroyo Grande, \$1,75; \$1662.50.

Peninsula Paving Co., San Francisco, \$1,76; \$1672.

Tiffany-McReynolds-Tiffany Co., San Jose, \$1,82; \$1729.

Oilfields Trucking Co., Bakersfield, \$1,84; \$1748.

Pacific Truck Service, Inc., San Jose, \$1,85; \$1757.

Granite Constr. Co., Watsonville, \$1,86 \$767.

A. Mitchell, Sacramento, \$2,40; \$2280.

U. B. Lee, San Leandro, \$3,00; \$2850.

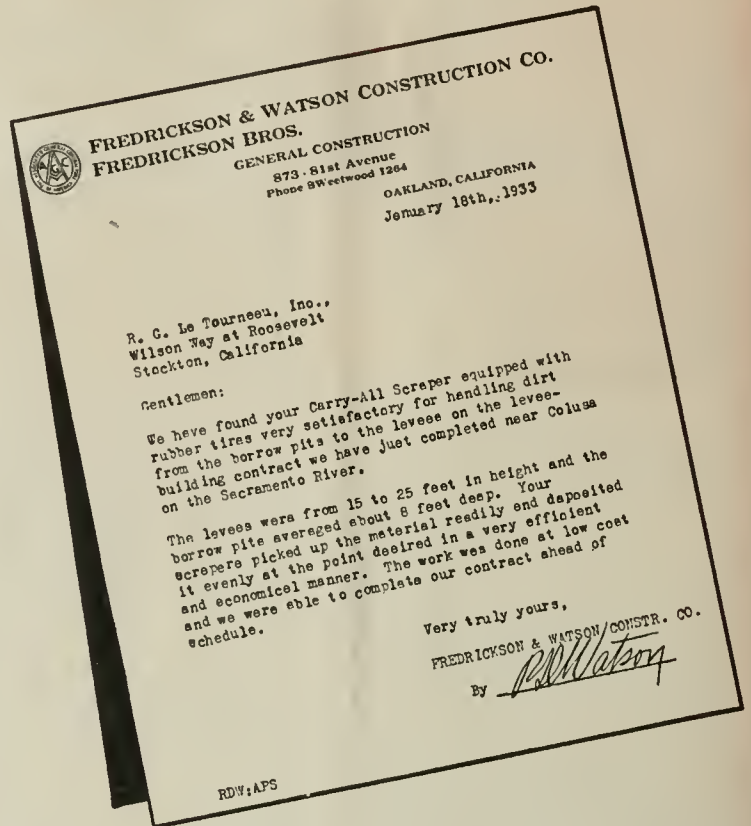
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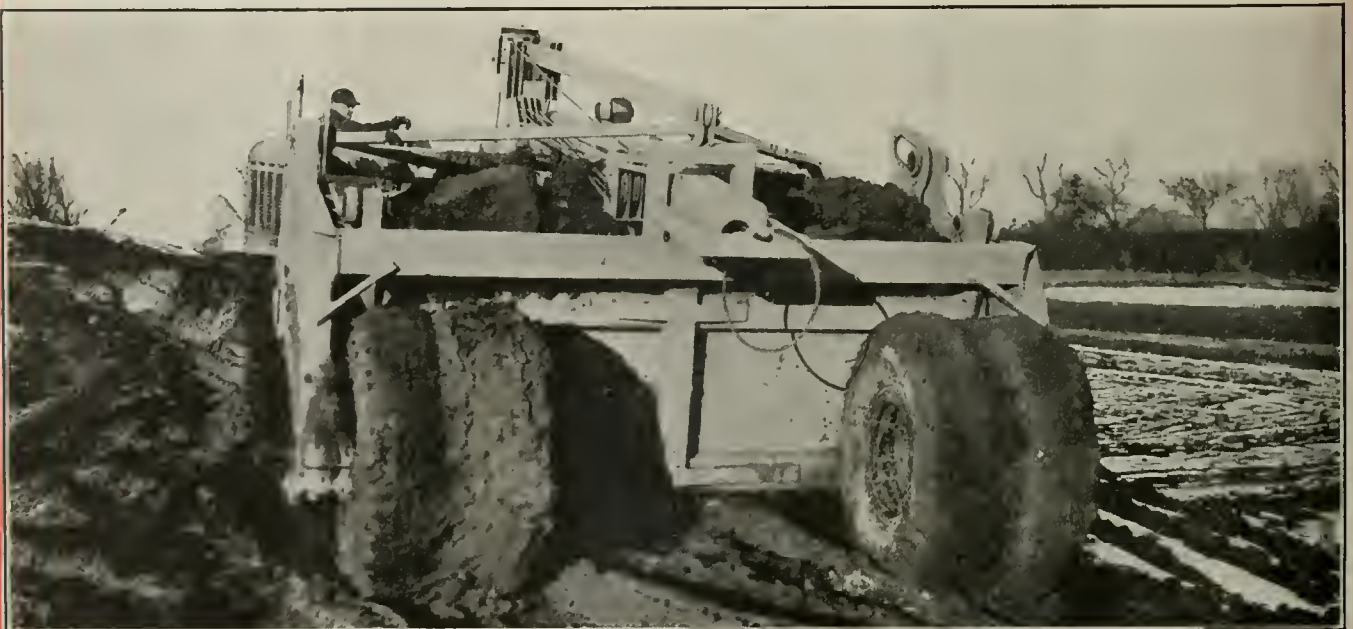
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Le Tourneau Scraper on Highway Contract Near Minter City, Mississippi

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SKILL - INTEGRITY



RESPONSIBILITY

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IN THIS ISSUE



TIMBER ENGINEERING COMPANY TO
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BIDS ASKED ON FOUR AQUEDUCT TUNNELS

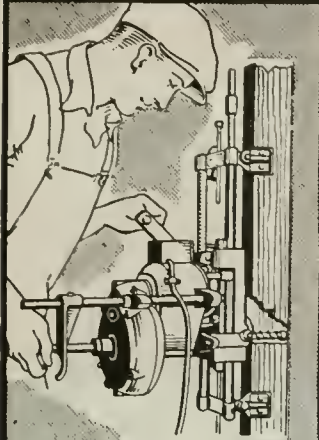
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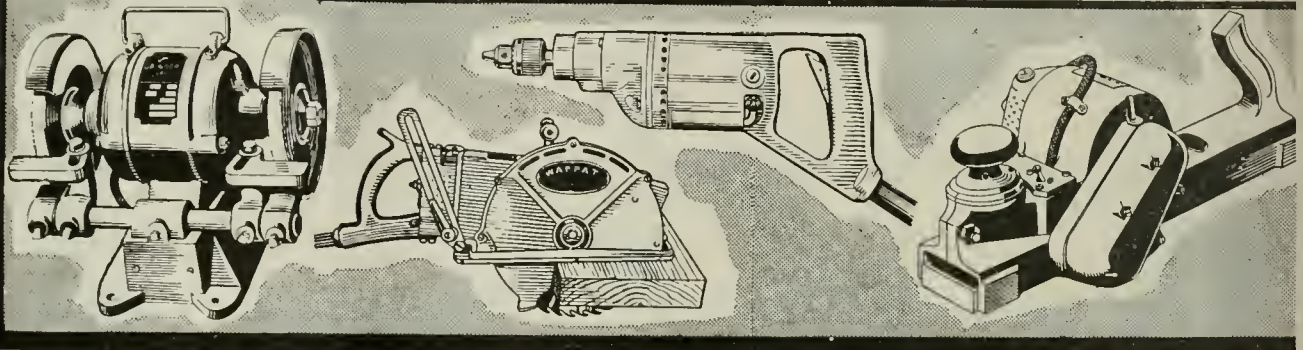
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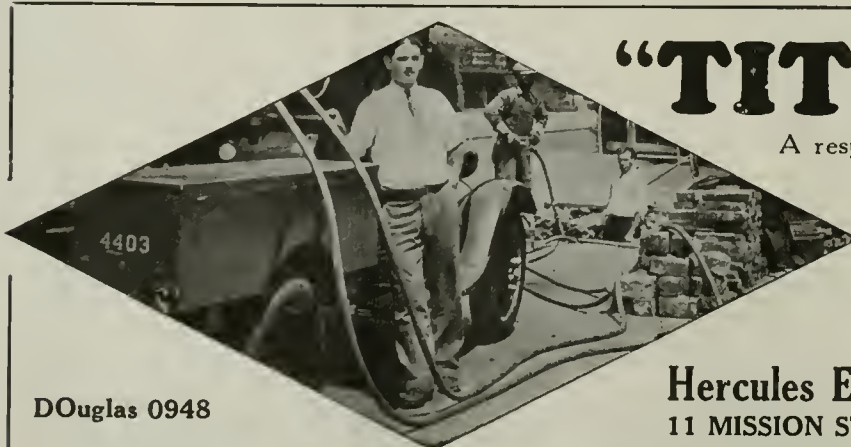
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Official Publication of the Associated General Contractors of America
for the Eleven Pacific Coast States

SAM B. EUBANKS, *Editor*

Vol. XVI

SAN FRANCISCO, CALIF., APRIL 22, 1933

No. 14

SUPREME COURT VALIDATES BAY BRIDGE BONDS

**\$62,000,000 Financing Held
Not a General State
Obligation**

The California State Supreme Court yesterday validated the revenue bond issue under which the San Francisco-Oakland bay bridge will be constructed.

In a peremptory writ of mandate issued by the court, Earl Lee Kelly, state director of public works, was ordered to sign and deliver bonds of the California Toll Bridge Authority for the bay bridge.

The decision validated the enabling act passed by the Legislature to meet the terms of the \$62,000,000 loan from the Reconstruction Finance Corporation.

The sweeping ruling upholding the constitutionality of the bridge project was handed down by the Supreme Court as the result of a friendly test suit brought by the California Toll Bridge Authority against Mr. Kelly to give the R. F. C. final court assurance on the legality of the bonds.

The court threw out the contention of Mr. Kelly's counsel that the bridge bonds would be a general obligation on the state to an unconstitutional amount.

"We cannot except this view," the decision said. "The bridge bonds are not a general obligation on the state in any sense.

"The legislation prevents the holders of the bonds from recourse against the state in the event of default. The principal and interest are to be met by tolls and other revenues."

Declaring the Legislature's action in voting \$6,660,000 from gasoline tax funds for bridge approaches is legal, the Supreme Court said:

"What the state may do in assisting an enterprise which will result in the construction of an important link in its primary highway system is a separate transaction."

THE WEEK'S NEWS Highlights

BOHEMIAN AWARD. Dinwiddie Construction Co., San Francisco, received the award for construction of the new Bohemian Club building at \$574,000. Five bids from a selected list of contractors were considered by Architect Lewis P. Hobart.

SAN FRANCISCO JAIL. Award of the general contract for construction of the San Francisco county jail on the Sneath Ranch site to the low bidders, Anderson & Ringrose, according to Director of Public Works William H. Worden. The contract will be let less alternates sufficient to bring the price below the estimated \$490,000. It is probable that the cell locking equipment will be among the alternates omitted, and this item readvertised for bids early in May. Bids on Mechanical and Electrical work have been called for May 3.

STATE LEGISLATURE. Hearing on the proposed repeal of the state prevailing wage law, which had been set for last Wednesday morning, has been continued to April 26 by the Senate committee on governmental efficiency. Other legislation of importance to contractors and materialmen is still in committee with the exception of amendments to the Contractors' License Law, including reduction of the annual fee to \$5 and lowering the limit of exemption to \$100, which has passed the Assembly.

COLORADO AQUEDUCT. Los Angeles Metropolitan Water District is increasing its construction awards rapidly. The district called for bids to be received June 12 on four more tunnels in the San Bernardino mountains. Bids on others are to be received May 22, while the Iron Mountain, Coxcomb and Cottonwood projects were opened on April 17. (See Unit Bid Review.)

WAGE HEARING IS CONTINUED FOR ONE WEEK

**Other Legislation on Calendar
at Sacramento of Interest
to Industry**

SACRAMENTO, April 19.—Hearing on repeal of the state prevailing wage law was continued today by the Senate committee on governmental efficiency to next Wednesday. At that time the senators also will consider an amendment to the bill to exempt from its provisions any construction work now in progress, a change which has been requested by industry spokesmen to avoid confusion in completing public contracts.

Strong demands to abolish the law are expected from contractors when the hearing is held. Evidence will be offered from the report of the Senate fact-finding committee that the law has operated to the disadvantage of the state in its road construction program and elsewhere.

Other bills affecting contractors are in various stages of progress through the legislature with the probability that some of them, at least, will be enacted before the present session either recesses or adjourns early next month.

The Assembly committee on governmental efficiency has reported favorably A. B. 537 which provides that all general contractors bidding on state work in excess of \$5000 shall provide a list of names and addresses of sub-contractors and material men whose figures have entered into their estimate and to whom awards will be made in the event their bid is accepted.

Amendments offered by Senator Bert Snyder, Santa Cruz County, to A. B. No. 1009, by Assemblyman Patrick McMurray, San Francisco, to limit hours of labor on public work, have been adopted by the senate.

One would provide a limitation of thirty hours of labor per week on all public work, striking out the six-hour day limitation passed by the assembly.

The other would exempt manufacturing plants and shops turning out materials for use on public work from the provisions of the thirty-hour week law.

ARMY PRESCRIBES U. S. MATERIALS IN ALL CONTRACTS

New Bid Forms Specify Preference To Be Given Home Industry

Copies of new bid forms used by the Quartermaster Section, U. S. Army, specifying preference for American-made materials in all contracts are being issued by Major Henry B. Barry, purchasing officer at Fort Mason.

The new forms incorporate the following paragraphs:

(1) "Preference for domestic articles. Unless the Secretary of War shall determine it to be inconsistent with the public interest, or the cost to be unreasonable, only such unmanufactured articles, materials and supplies as have been mined, or produced in the United States and only such manufactured articles, materials, and supplies as have been manufactured in the United States substantially all from articles, materials, or supplies mined, produced or manufactured, as the case may be, in the United States, shall be acquired for public use."

(2) "All contracts for the construction, alteration, or repair of any public building or public work in the United States will contain a provision that in the performance of the work the contractor, subcontractor, material men or suppliers, shall use only such unmanufactured articles, materials and supplies as have been mined or produced in the United States, and only such manufactured articles, materials and supplies as have been manufactured in the United States, substantially . . . all from articles, materials or supplies mined, produced or manufactured; as the case may be, in the United States, except articles, materials, and supplies listed in the specifications pertaining to the contract as being exempt from the foregoing restrictions."

The term "United States", when used in a geographical sense includes the United States and any place subject to the jurisdiction thereof.

The terms "Public Use", "Public Buildings", and "Public Work" shall mean use by public building of and public work of, the United States, the District of Columbia, Hawaii, Alaska, Puerto Rico, the Philippine Islands, American Samoa, the Canal Zone and the Virgin Islands.

PROMISE DECISION ON FEDERAL BLDG.

Early decision on the award of a contract for the San Francisco Federal Building is expected, according to a letter received by the San Francisco Builders' Exchange in response to inquiries. The communication, signed by Ferry K. Heath, assistant secretary of treasury, says:

"The award of the San Francisco building is temporarily delayed pending completion of the administration's program on public works, concerning which this department expects to be advised in the near future.

"You may be assured that full consideration will be given to your request for prompt action as soon as this department is advised regarding the general policy on public works."

NINE INSPECTORS FOR GATE BRIDGE NAMED BY REED

Men Will Be Assigned to Duties Within Next Sixty Days

Appointment of nine bay district engineers to the inspection staff of the Golden Gate bridge district has been announced by James Reed, general manager. The appointments will be submitted to the board of directors for ratification at their meeting tomorrow.

Those named were: F. Van Proyen, 3732 Twenty-first street; John R. Breen, 543 Twelfth Ave., Sidney G. Slusher, 1252 Fifteenth Ave. W. H. Arata, 1680 Sloat boulevard; Joseph E. Armstrong, 947 Geary St., and Mark M. Murtaugh, 1900 Vallejo St., San Francisco; G. D. Grant, Crescent City; G. W. Connors, Sonoma, and S. J. Dickson, Santa Rosa.

The nine appointments, Mr. Reed pointed out, will take care of the District's needs, based on the program of actual work now under way, for approximately sixty days and the appointment will go into effect as the construction proceeds, probably within fifteen days.

All nine men are possessed of exceptional engineering and construction experiences, one of them, F. Van Proyen, having behind him 31 years of steel ship construction, commencing with an apprenticeship as a ship fitter in the old Union Iron Works.

NEW BUILDING CODE FINISHED BY ENGINEERS

Cleary and Leonard to Arrange for Submission of Ordinance to Supervisors

Proposed changes in the San Francisco building code making more stringent earthquake and wind stress provisions, which have been in preparation for the past three years, have been drafted into final form by a committee of twelve leading San Francisco engineers meeting with City Administrator Alfred J. Cleary.

Mr. Cleary will confer with Chief Building Inspector John B. Leonard and Prof. Charles Derleth of the University of California, to set the date for bringing the proposed new code before the Board of Supervisors.

Lateral stress provisions relating to masonry work as well as to steel and reinforced concrete were worked out at yesterday's meeting.

"The new code," Prof. Derleth declared, "will be a minimum law, specifying the lowest allowable safety requirements. It aims at making engineers 'lateral-stress conscious'."

"We expect little opposition to the new ordinance on the part of engineers," Cleary said, "in view of that fact that it represents practically the unanimous views of the district's leading engineers."

Engineers at the meeting, in addition to Chief Leonard and Prof. Derleth included: L. H. Nishkian, T. Chace, M. C. Couchot, J. Rosenwald, H. J. Brunnier, C. H. Snyder, W. L. Huber and H. Hammill.

CEMENT MIX PLANT AT DAM STARTED

Excavation has been started on the site for a \$125,000 cement blending plant at Hoover dam. The output of five mills located at different points in the western states is required to supply the 5,000,000 barrels of cement to be used. In order to attain a uniform blend of color and texture cement will be run through a mixing plant at the site.

The new plant will be located adjacent to the high level concrete mixing plant atop the Nevada cliff of Black canyon directly above the dam site.

Orders for malleable castings totaled 23,409 net tons in January and February, manufacturers reported to the Department of Commerce. Shipments during the same period totaled 28,152 net tons.

Phone TRinity 0241 for

Rock-Sand-Gravel-Plaster

Cement-Mixed Mortar-Stucco

Lath-Lime Putty-Reinforcing Steel

Consolidated Rock Products Co.

656 S. Los Angeles St.

Los Angeles, Calif.

REVENUE BOND ACT APPROVED BY COMMITTEE

Assembly Irrigation Group Recommends Passage of Financing Measure

The issuance of revenue bonds to finance self-liquidating publicly-owned waterworks projects of cities or other political subdivisions stands approved by the assembly irrigation committee, which recommended for passage AB No. 1043, by Assemblyman Roy J. Nielsen, Sacramento.

The revenue bonds would be paid solely from revenues accruing from the operation of the water systems and would not increase taxes. They would be legal investments for certain trust and public funds. Bondholders would have a statutory lien on the system. Bonds could not exceed six per cent interest and would be limited to forty years.

Albert Givan, engineer for the Sacramento Utility District, said the Reconstruction Finance Corporation would buy such bonds only when adequate assurance was given that the revenues would retire the bonds. The directors of the district have asked the corporation for aid in the construction of the Silver Creek project through the issuance of such bonds.

Many similar projects will be allowed to proceed if the legislation is enacted, sponsors of the bill said.

The bonds in each case would be approved by the people by a majority vote, rather than the two-thirds vote now required for tax-secured bond issues.

CALL BIDS IN MAY FOR CAPITOLA SEWER

Early start of construction on the Capitola outfall sewer is promised with sale of \$13,000 of the \$21,000 bond issue completed.

E. V. Woodhouse, president of the chamber of commerce, which undertook to market the bonds when investment houses refused to bid for them, said the county engineer would call for bids about May 21.

CONTRACT AWARDED ON BOHEMIAN CLUB

Dinwiddie Construction Co. has been awarded the contract for construction of the San Francisco Bohemian Club building to be awarded at the northeast corner of Taylor and Post streets, Architect Lewis P. Hobart announced.

Dinwiddie's bid was \$574,000, the lowest offer from five selected contractors who were invited to submit proposals.

The contract is for building a 4-story Class A brick and terra cotta structure, including gymnasium, dormitory, dining room, etc.

BUREAU NOW ISSUES CHIMNEY LICENSES

A new ordinance transferring the collection of fees for erection and alteration of patent chimneys from the Tax Collector's Office to the Central Permit Bureau is now effective, according to S. J. Rosenblum, chief clerk of the Central Permit Bureau.

The new ruling provides that patent chimney contractors may take out an annual license for a fee of \$300, allowing them an unlimited number of jobs, or may apply for a permit for each job separately, at the usual \$2 fee.

The annual license fee formerly levied by the Tax Collector was \$200.

SCHOOL CLOSES ON ENGINEER'S ADVICE

San Rafael grammar school building was ordered vacated by the board of education Friday after a report had been received from H. J. Brunner, consulting structural engineer, that the structure is unsafe. Brunner predicted the collapse of the building in the event of a moderate earthquake.

The board engaged the engineer to inspect the building as a result of agitation following the destruction of schools in the Southern California earthquake. The San Rafael grammar school was erected eight years ago at a cost of \$50,000. It accommodated 200 pupils.

L. A. DISTRICT ASKS BIDS ON FOUR TUNNELS

Set June 12 Date for Opening Proposals on Aueduct Contracts

LOS ANGELES, April 15.—Directors of the Los Angeles Metropolitan Water District today set June 12 as the date for receiving bids on four tunnels of the Colorado river aqueduct. Three of the tunnel sites are in the Whipple mountains, 17 to 25 miles northwest of Vidal. The fourth is 14 miles east of Banning.

Bids are to be received as follows:

Schedules 1 or 2—Colorado River, 1.07 miles.

Schedules 3 or 4—Copper Basin No. 1, and East section of No. 2, 1.17 miles.

Schedules 5 or 6—Copper Basin No. 1, West section, 1.17 miles.

Schedules 7 or 8—Whipple East section, 1.89 miles.

Schedules 9 or 10—Whipple Central, 3.18 miles.

Schedules 11 or 12—Whipple, West section, 1.02 miles.

Schedules 13 or 14—Whitewater, 1.9 miles.

Proposals will be received under Schedules 1, 3, 5, 7, 9, 11 and 13 and are for a diameter of 16 feet; alternate schedules for a diameter of 12 ft. 4 in.

Plans are available at Metropolitan Water District offices, 306 West Third street; Deposit \$5.

BELMONT EXPECTS R.F.C. TO BUY WATER BONDS

Anticipating an agreement by the Reconstruction Finance Corp. to buy \$45,000 in bonds, the Belmont water district has instructed its chief engineer to prepare a bid call on construction of the storage reservoir and pipe lines which are to be financed by the bond sale. Lawrence Elsener, president of the district, has appointed a construction committee consisting of C. L. Jordan, H. A. Hyne and Chief Engineer W. W. Hendricks.

FOR SALE...

110 Horsepower Diesel Engine at a Bargain

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SMITH BROS. TRUCK CO.

"TRANSPORTATION SPECIALISTS"

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Move More Dirt Faster with LE TOURNEAU Equipment

A complete line of grading machinery—designed by a contractor—developed on actual construction jobs—built to stand continuous use under the worst conditions.

ENGINEER'S CONSULTATION FREE

R. G. LE TOURNEAU, INC.

Wilson Way at Roosevelt

Stockton, Calif.

LUMBER SHIPMENTS FOR APRIL 1 WEEK HIGHEST OF YEAR

First Quarter Production 11
Below That of
1932

Lumber production and new business booked at the sawmills during the week ended April 1, 1933, were somewhat lower than during the previous week, but shipments were the highest of any week since last September, according to telegraphic reports to the National Lumber Manufacturers' Association from regional associations covering the operations of 652 leading hardwood and softwood mills. During the first quarter of 1933, production was 11 percent below the corresponding period of 1932 and new business was 16 percent below. Shipments were 26 percent and orders 33 percent above the production of the quarter.

Production during the week ended April 1 amounted to 96,339,000 feet; shipments to 150,617,000 feet.

New business during the week totalled 155,023,000 feet. This is the third consecutive week in which orders were more than 60 percent above production. In each of these three weeks orders were higher than in any previous week since last September. All regions shared in the increase of current orders over output, this gain totalling 61 percent for softwoods and 63 percent for hardwoods.

Compared with the corresponding week of 1932, all regions except Northern pine showed increase in orders, Southern pine and Northern hemlock making the best records. The total for softwood orders was 13 percent above last year and for hardwoods, 10 percent above.

New business at the Southern pine mills was 49 percent of capacity; at the Western pine mills, 29 percent; at Southern hardwood mills, 29 percent; compared with 51 percent, 29 percent and 28 percent respectively for the previous week.

Forest products carloadings during the week ended March 25 were 15,717 cars, the highest of any week of 1933. This was an increase of 1,380 cars over the previous week and a decline of 4,590 cars as compared with the same week of 1932.

Lumber orders reported for the week ended April 1, 1933, by 403 softwood mills totaled 139,868,000 feet, or 61 percent above the production of the same mills. Shipments as reported for the same week were 136,989,000 feet, or 57 percent above production. Production was 87,029,000 feet.

Reports from 264 hardwood mills give new business as 15,155,000 ft., or 63 percent above production. Shipments as reported for the same week were 13,628,000 feet, or 46 percent above production. Production was 9,310,000 feet.

Automatic Gas Pilot Control Invented Here To Be Marketed By S. F. Company

A revolutionary new automatic safety device for gas pilot control has just been developed on the Pacific Coast by the Watrola Corp., Ltd., which has accounted for a number of new improvements in the gas equipment field recently.

The new device, together with other safety equipment, will be marketed under the name "PowerStat" by a corporation already formed bearing the same name.

Heading the new corporation is Arthur F. Erickson, until recently Pacific Coast Distributor for Minneapolis-Honeywell Regulator Co., and previous to that head of a company bearing his own name, which manufactured and distributed control equipment on a national basis.

"Thorough tests over a period of time have been conducted," said Erickson, "to establish the almost unbelievable operating dependability of PowerStat pilot light control. Fundamentally different from all previously existing devices, it makes necessary an entirely new concept of control mechanism in order to properly appraise its merits.

"It is a mono-metal alloy device, or robot, which, as contrasted with a bi-metal thermostat, has the characteristics of a movement of 30-thousandths; with a complete

cycle in seconds; with practically unvarying speed under widely varying temperatures; with a pulling power of 30 to 150 lbs. and upward; with a fatigue point beyond the temperature of ordinary fire-boxes, and it is not a thermostat. It forms the activating control member in conjunction with a new carbureting pilot light burner of unusual economy and having the inherent ability of purging itself of gas gum."

The company will also distribute Watrola gas and liquid strainers, and sealing gum. The strainers are of new design and it is said they are capable of stopping particles of foreign matter as fine as 4-thousandths. Tests have proved that such fine strainers cause little pressure drop in gas or light liquids. The sealing gum, it is claimed, has the peculiarity of non-dripping, non-drying, and permanently sealing joints in artificial, natural or propane lines.

Associated with Erickson in the development of the PowerStat line is Allen W. Widenham who originally was with the gas utility industry, later a sales executive, and of late has been identified with a comprehensive gas appliance research and development program, of which the foregoing items are a part.

Lumber Industries House At Exposition To Be Notable For Simplicity Of Design

With the frame up and the structure practically closed in, rapid progress is being made in the construction of the All-Lumber Industries house now building at the Century of Progress Exposition in Chicago.

Wood and wood products are the materials of the house in its entirety.

The architecture of this one-story five-room house is modern but not stylized. Its design depends for effect upon its extreme simplicity. The plan makes an excellent living unit although the size is slightly larger than would be required for actual living quarters. By reason of being an exhibit house, the halls, vestibules, etc., have been increased to accommodate a crowd.

The chief innovation in design of the house is that it is plasterless and can be erected directly, cleanly and quickly. In order to carry out this design successfully, the wood walls are being treated as far as possible in simple fashion without elaborate graining and the wood is not being stained. The ceilings are made of plywood and will be calcimined to reflect maximum light. In spite of the use of various kinds of woods for the walls of the different rooms, they are being treated as a background only. The effect sought is that of

an interesting texture to the walls without elaborate architecture, which would serve only to detract from the room as a whole.

The lighting is being done by Holophane lenses located as a rule in the ceilings. No curtains will be used in the house but Venetian blinds will control the daylight in a room, keep out the weather and at the same time admit air.

The aim in the house has been to demonstrate that wood is the most flexible building material and can form a conservative and interesting background for the interior treatment of a house.

All branches of the lumber industry were represented in the cash contributions for the building of the "sunlight" house, and many American species of wood will be built into it. Not only has the lumber been donated for the residence, the insulation, shingles and Venetian blinds, but the non-lumber materials and equipment have been given, including plumbing, heating, electric plant, electric refrigerator and incinerator.

The house is located on a beautiful site on the exposition grounds facing Lake Michigan. The main rooms have been given a lake exposure and open on a shaded terrace. Construction is expected to be completed by June first.

Timber Engineering Company Acquires U. S. Rights to Manufacture Metal Connectors

Declaring that the new connector system is the most significant and promising development in the timber construction field in this century, Wilson Compton, president of American Forest Products Industries, has written the National Committee on Wood Utilization, U. S. Department of Commerce, an expression of the appreciation by the lumber industries of the investigations and publications of the Committee, and the scientific research work of the U. S. Forest Products Laboratory in bringing the new method of construction to the attention of American industry.

Aiming at the practical realization of the potential benefits of the new method of construction, Dr. Compton explains that American Forest Products Industries has established an industrial group corporation known as the Timber Engineering Company, which has acquired the American rights to the basic patents of the types of connectors shown by the Laboratory tests to be best adapted to American woods.

Axel H. Oxholm, Director of the Wood Utilization Committee, replying to Dr. Compton, expressed his satisfaction that the American Forest Products Industries has been "so progressive as to make these connectors available to builders in this country" and adds: "We wish you every success in your undertaking."

The text of Dr. Compton's letter follows:

"American Forest Products Industries has followed with much interest the investigations of the National Committee on Wood Utilization and the research of the U. S. Forest Products Laboratory in cooperation with it in the merits and uses of modern connectors for timber construction.

"These systems of timber construction representing the best experience of other countries, particularly during the period since the War, are, we understand, the systems which have been under extensive laboratory tests during the past two years by the Forest Products Laboratory on which detailed reports are contained in your joint bulletin published March 1, entitled: "Modern Connectors for Timber Construction."

"We regard this new connector system of construction as the most significant and promising development in the timber construction field in this century. Foreign experience, confirmed by extensive tests using American woods, shows that the use of the most efficient of these connector systems increases the useful strength of structure, on the average, to 2.4 times; and in some important types of structures as much as six times.

"This obviously opens a wide field, not only for improved economy in timber construction, but for much greater flexibility in struc-

tural design and for the use of timber construction for a wide range of purposes for which heretofore in this country it has not been widely regarded as serviceable or satisfactory.

"In order to make readily available to builders and fabricators in the United States the benefits of these new construction systems, American Forest Products Industries has established the Timber Engineering Company which has acquired the American rights to the basic patents underlying the systems of construction shown by the Laboratory tests to have outstanding superiorities with American woods. The company's main office is at 1337 Connecticut Ave., Washington, D. C., with branch offices in Chicago, New Orleans, Minneapolis and Portland, Ore.

"These systems controlled by the Timber Engineering Company include constructive systems based on the following types of connectors:

1, Toothed ring; 2, Toothed plate; 3, Split ring; 4, Bi-partite ring; 5, Pronged plates and hinge connectors; 6, Spike grid; 7, Disc and coned dowel.

"The use of these connector systems is available through license or permit from the Timber Engineering Company on reasonable terms which will insure proper specification and inspection of timber and safe design. The Timber Engineering Company will use the

services of engineers, architects, and constructors, throughout the country, many of whom have already interested themselves in this construction. The Company will from time to time make available to cooperating engineers and architects useful construction design and timber specification service and will arrange for the necessary inspection of materials and supervision of their use.

"The fundamental purpose of the Timber Engineering Company is to secure, on its merits and, on a sound engineering basis, the establishment of this new construction system and to cooperate to that end with interested engineers and architects, constructors and suppliers of timber and auxiliary materials. The connectors themselves will be available only upon order from the Timber Engineering Co. which is arranging for a suitable supply. We expect the earliest and for the present at least the largest public demand to be for the toothed ring, the split ring and the pronged plate with hinge connectors. Their test and experience records are convincing.

"We are confident that you and your committees and the public agencies which have cooperated with you will be interested to have these advices that provision has now been made converting into commercial construction practice in this country the results of years of painstaking investigation and research culminating in the publication of your recent report. This report we understand has had so wide a circulation among interested industries and engineers, architects and constructors that a reprint is already required."



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POST STREET AT STOCKTON
SAN FRANCISCO

PERMITS AND CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
206	Parducci	S. F. Const.	8000
207	Doelger	Owner	20000
208	Conran	Schultz	4000
209	Nelson	Owner	4000
210	Standard	Owner	7000
211	Heyman	Blincoe	5000
212	McInerney	Standard	3750
213	Allison	Owner	3950
214	Bissiner	Jacks	8000
No.	Owner	Contractor	Amt.
215	Rothschild	Owner	7000
216	Andersen	Owner	3950
217	Anderson	Owner	3950
218	Nye	Owner	1750
219	Wyatt	Owner	1750
220	Herzig	Owner	4000
221	American	Owner	1000
222	Quigley	Owner	3000
223	Doyle	Doelger	4000
224	Brown	Stevenson	3990
225	Emporium	Monson	3000
226	Doherty	Owner	2500

ALTERATIONS

(206) 447-53 BROADWAY; alterations for stores, hotel and factory.

Owner—E. Parducci and P. Domenici, 505 Sansome St.

Architect—Irvine & Ebbets, 2048 Market Street.

Engineer—R. R. Irvine, 2048 Market Street.

Contractor—San Francisco Const. Co., 3130 Fillmore St. \$8000

DWELLINGS

(207) W 29th AVE. 194 S Irving St.; five 1-story and basement frame dwellings.

Owner—H. Doelger, 320 Judah St.

Architect—Not Given. \$4000 each

DWELLING

(208) E 22nd AVE. 268 N Noriega; one-story and basement frame dwelling.

Owner—C. P. Conran, % contractor.

Architect—Not Given.

Contractor—Schultz Const. Co., 225 Cervantes. \$4000

DWELLING

(209) W 21st AVE. 87 S Sloat; one-story and basement frame dwelling.

Owner—F. Nelson & Sons, 2919 19th Avenue.

Architect—Not Given. \$4000

DWELLINGS

(210) W ARDENWOOD 180 N Sloat; two 1-story and basement frame dwellings.

Owner—Standard Bldg. Co., 218 Castenada.

Architect—D. E. Jaekle, Call Bldg. \$3500 each

DWELLING

(211) S CHESTNUT 165 W Baker; two-story and basement frame dwelling.

Owner—A. Heyman, 718 22nd Ave.

Plans by B. K. Dobkowitz, 425 Monterey Blvd.

Contractor—C. C. Blincoe, 2663 15th Avenue. \$5000

DWELLING

(212) N LAGUNA HONDA 85 W Balceta; 1-story and basement frame dwelling.

Owner—T. McInerney, % contractor.

Architect—D. E. Jaekle, Call Bldg.

Contractor—Standard Bldg. Co., 218 Castenada. \$3750

DWELLING

(213) E 25th AVE. 70 E Lincoln

Way; one-story and basement frame dwelling.

Owner—Allison & Beck, 216 Eddy St.

Plans by Owners. \$3950

ALTERATIONS

(214) 101 POST ST.; alterations to office building.

Owner—S. G. Bissiner & F. G. Lowe, care architect.

Architect—Lightner, Hyman & Appleton, 68 Post Street.

Contractor—Jacks & Irvine, Call Bldg. \$8000

DWELLINGS

(215) S BEACH 150 E Webster. Two one-story and basement frame dwellings.

Owner—Rothschild Bros., 41 Sutter St., San Francisco.

Architect—F. Amandes, 1879 18th Ave., San Francisco. \$3500 each

DWELLING

(216) E THIRTY-FIRST AVE 50 N Kirkham St. One-story and basement frame dwelling.

Owner—C. Anderson, 146 Granville Way, San Francisco.

Architect—Not Given. \$4000

DWELLING

(217) W TWENTY-FIFTH AVE 225 S Irving St. One-story and basement frame dwelling.

Owner—B. Anderson, 1177 De Haro St., San Francisco.

Architect—J. Ahnden, 822 39th Ave., San Francisco. \$3950

ALTERATIONS

(218) NO. 324 TOWNSEND ST. Alter warehouse.

Owner—Ney & Nissen, 424 Clay St., San Francisco.

Architect—Not Given. \$2000

ALTERATIONS

(219) NO. 2527 POLK ST. Alter apartments.

Owner—T. G. Wyatt, 2527 Polk St., San Francisco.

Architect—Not Given. \$1750

DWELLING

(220) SE OCEAN AVE. and 21st; 1-story and basement frame dwelling.

Owner—A. J. Herzig, 635 Victoria.

Architect—F. F. Amandes, 1879 18th Avenue. \$4000

ALTERATIONS

(221) 414 19th AVE.; alter store for post office.

Owner—American Trust Company.

Architect—Not Given. \$1000

DWELLING

(222) S 15th 115 W BEAVER; one-story and basement frame dwelling.

Owner—J. T. Quigley, 450 36th Ave.

Architect—C. F. Strothoff, 2274 15th. \$3000

DWELLING

(223) W TWENTIETH AVE 100 N Ortega. One-story and basement frame dwelling.

Owner—J. J. Doyle, 42 Sanchez St., San Francisco.

Architect—Not Given.

Contractor—H. Doelger, 320 Judah St., San Francisco. \$4000

DWELLING

(224) E CHURCH 139 S Twenty-third. One-story and basement frame dwelling.

Owner—M. E. Brown, 434 Fair Oaks St., San Francisco.

Plans by Contractor.

Contractor—L. H. Stevenson, 130 Merced Street. \$3990

ALTERATIONS

(225) NO. 844-848 MISSION ST. Alter warehouse.

Owner—The Emporium, 835 Market St., San Francisco.

Engineer—V. H. Poss, 2929 Russell St., Berkeley.

Contractor—Monson Bros., 475 Sixth St., San Francisco. \$3000

DWELLING

(226) N CUMBERLAND 225 E Noe. One-story and basement frame dwelling.

Owner—J. W. Doherty, 117 Liberty St., San Francisco. \$2500

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
112	Kulchar	Owner	2000
113	Steccone	Owner	3000
114	Cochrane	Baker	2140
115	Hafey	Anderson	3600
116	Fashion	Dunn	1950
117	Else	Leekins	6000
118	Donald	Leekins	6500
119	Wallin	Owner	3750
120	Passadore	Campomenos	4800
121	Newberry	Lindgren	33000
122	Dallas	Netherby	3600
123	Johannon	Owner	2000

ALTERATIONS

(109) 1323 WASHINGTON ST., OAKLAND; alterations.

Owner—University Invest. Co., San Francisco.

Architect—Not Given.

Contractor—S. Kulchar Co., 731 East 10th St., Oakland. \$2000

DWELLING

(110) 4100 NORTON AVENUE, OAKLAND; one-story 6-room dwelling.

Owner—Sam Bakalian, 4200 Piedmont Ave., Oakland.

Architect—Ray F. Keefer, 770 Wesley Ave., Oakland.

Contractor—C. H. Thrams, 28 Home Place West, Oakland. \$4500

ALTERATIONS

(111) SW COR. 14th and Washington Sts.; OAKLAND; alterations.

Owner—University Invest. Co., San Francisco.

Architect—Not Given.

Contractor—S. Kulchar Co., 731 East 10th St., Oakland. \$1000

REPAIRS

(112) 731 E TENTH STREET, OAKLAND; fire repairs.

Owner and Contractor—S. Kulchar Co., 731 E 10th St., Oakland.

Architect—Not Given. \$2000

STORE

(113) 772-776 LANDVALE RD., OAKLAND; one-story brick store.

Owner and Builder—P. G. Stecccone, 537 Pacific Ave., Alameda.

Architect—Not Given. \$3000

ALTERATIONS

(114) 724 ALMA AVE., OAKLAND; alterations and addition.

Owner—Mrs. Jean L. Cochrane, 724 Alma Ave., Oakland.

Architect—Not Given.

Contractor—W. J. Baker, 4266 Piedmont Ave., Oakland. \$2140

DWELLING
 (115) EAST SIDE SPAULDING ST.
 100 ft S of Bancroft Way, **BERKELEY**; one-story 6-room frame dwelling.
 Owner—Al Hafey, 2236 California St., Berkeley.
 Architect—Not Given.
 Contractor—N. E. Anderson, 3000 Barrett Ave., Richmond. \$3600

ALTERATIONS
 (116) 1325 WASHINGTON STREET, **OAKLAND**; alter to store front.
 Owner—The Fashion Bootery, 1325 Washington St., Oakland.
 Architect—C. H. Lovell, Berkeley.
 Contractor—Louis C. Dunn, 424 Mo-nadnock Bldg., San Francisco. \$1950

DWELLING
 (117) NO. 1717 CAMBRIDGE DRIVE, **ALAMEDA**. Two-story six-room dwelling.
 Owner—D. Else, 103 Monte Cresta St., Alameda.
 Architect—Not Given.
 Contractor—C. W. Leekins, 1652 Hopkins St., Oakland. \$6000

DWELLING
 (118) NO. 1502 GIBBONS DRIVE, **ALAMEDA**. Two-story six-room dwelling.
 Architect—Not Given.
 Contractor—C. W. Leekins, 1652 Hopkins St., Oakland. \$6500

DWELLING
 (119) 2929 SEVENTY-FIFTH AVE., **OAKLAND**. Two-story six-room dwelling.
 Owner—Folke Wallin, 2150 50th Ave., Oakland.
 Architect—Not Given. \$3750

DWELLING
 (120) 5432 CLAREMONT AVE (rear), **OAKLAND**. One-story 6-room dwelling.
 Owner—Mrs. J. Passadore, 5423 Claremont Ave., Oakland.
 Architect—Not Given.
 Contractor—E. Campomenosi, 6401 Broadway Terrace. \$4800

ALTERATIONS
 (121) 1921-1929 BROADWAY, **OAKLAND**; alterations.
 Owner—J. N. Newberry Company.
 Architect—A. J. Evers, 525 Market St., San Francisco.
 Contractor—Lindgren and Swinerton, 1723 Webster St., Oakland. \$33,000

DWELLING
 (122) EAST SIDE CRAGMONT Ave. 100 ft south Alta Road, **BERKELEY**; one-story five-room frame dwelling and garage.
 Owner—George Dallas, 2101 Shattuck Ave., Berkeley.
 Architect—Edwin Snyder, Berkeley.
 Contractor—W. A. Netherby, 3853 Lyman Road, Oakland. \$3600

BUILDING
 (123) PERALTA AVE. 250 ft north Hopkins St., **BERKELEY**; 1-story 22-room frame building to be occupied as steam baths.
 Owner—S. Johannon, 1357 N Sardeane St., Berkeley.
 Architect—Not Given. \$2000

SAN FRANCISCO UNDER \$1000

SIGN, electric, \$50; 1207 Golden Gate Ave.; owner, Chas. Schindler, 1207 Golden Gate Ave.; contractor, Wonderlite Neon Prod.; 170 Otis St.
ALTER flats, \$665; 2813 19th; owner, Mrs. Buck, care contractor; contractor, A. L. Thulin, 63 Brady.
REPAIR roof of dwelling, \$140; 2628 26th Ave.; owner, Mrs. D. J. Gilmore, 2628 26th Ave.

ADD to dwelling, \$200; 1426 31st Ave.; owner, P. W. Wilson, Premises.
ALTER restaurant, \$200; 4528 Mission St.; owner, G. Ghiotto, 1892 San Jose Ave.
ALTER flats, \$250; 123-134 Downey; Owner, Mrs. J. Zycinski 181 Downey St.

BUILDING CONTRACTS
SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
41	Abend	Vukicevich	3900
42	Emporium	Empire	1680
43	Bissinger	Jacks	8100
44	Jacobsen	Schultz	—
45	Picetti	Gladstone	4652

DWELLING
 (41) E TWENTY-EIGHTH AVE. 150 S Cabrillo S 25x E 120 OL 407. All work for one-story and basement frame dwelling.
 Owner—Samuel and Rose Abend, 679 Larkin St., San Francisco.
 Architect—R. R. Irvine, 2048 Market St., San Francisco.
 Contractor—Peter E. Vukicevich, 1442 Traval St., San Francisco.
 Filed April 14, '33. Dated Mar. 9, '33.
 Roof on\$975
 Brown coated 975
 Upon completion 975
 Usual 35 days..... 975
TOTAL COST, \$3900
 Forfeit, plans and specifications, none
 Bond, not given. Limit, 80 days.

FLOORING
 (42) THE EMPORIUM BLDG.; flooring over third floor stair well.
 Owner—The Emporium, 835 Market. Plans by H. J. Thompson (manager).
 Contractor—The Empire Const. Co., Ltd., Shell Bldg.
 Filed, April 15, '33. Dated Mar. 25, '33
 Semi-monthly payments of.....75%
 Completion payment to bring total payments up to 75% of contract price.
 Usual 35 days25%
TOTAL COST, \$1680.00
 Bond, \$1680. Sureties, United States Guarantee Co. Plans and Spec. filed.

ALTERATIONS
 (43) SW COR. POST and Kearny, known at 101 Post St.; alterations and repairs to building.
 Owner—Selma G. Bissinger and Florence G. Lowe, Front and Jackson Streets.
 Architect—Hyman and Appleton, 68 Post Street.
 Contractor—Jacks & Irvine, Inc., 74 New Montgomery St.
 Filed April 15, '33. Dated April 14, '33
 On or about 5th of ea. mo.....75%
 Usual 35 days.....25%
TOTAL COST, \$8100
 Bond, \$4050. Sureties, Jos. Rolando and Wm. G. Smith. Limit, 35 days. Plans and Spec. filed.

SHOP AND OFFICE BLDG.
 (44) SW HARRISON & TWENTY-second Sts. and lying along right of way of Southern Pacific Railway. All work to finish exterior front and interior offices of that certain two-story frame & stucco shop and office building.
 Owne—Jacob Jacobsen.
 Architect—Chas. F. Schuetz and F. W. Dakin, 625 Market Street, San Francisco.
 Filed April 17, '33. Dated April —, '33
 Payable in rent as follows:
 For period of two years from and after 60 days after the date of this agreement, the 2nd party shall have exclusive use as a tenant of the 2 front offices upon 2nd floor of said building, without payment of rent, the rent of said offices being chargeable at the rate of \$30 per month for said 2 years period; that

upon the expiration of said 2 year period the tenancy shall become one from month to month at a monthly rental of \$20 per month.
TOTAL COST, \$—
 Bond, \$360. Sureties, C. M. Beard and F. W. Dakin. Limit, forfeit, none. Plans and specifications filed.

STORE BLDG.
 (45) NW JINTH AVE & MORAGA W 27-6xN 100. All work for one-story frame store building.
 Owner—Edith Bracco and Marla Picetti.
 Architect—Harry J. Leason, 1710 10th Ave., San Francisco.
 Contractor—D. B. Gladstone, 557 Market St., San Francisco.
 Filed April 18, '33. Dated April 10, '33.
 Frame up and roof on.....\$1200
 Brown coat plaster on..... 1200
 When finished 1200
 Usual 35 days..... 1052
TOTAL COST, \$4652
 Bond, none. Limit, 70 days. Forfeit, none. Plans and specifications filed.

RESIDENCE
 (46) E CHURCH 139 S Twenty-third St S 25 x E 75 HA 64 and 65. All work for one-story and basement frame residence.
 Owner—M. E. and Minnie Brown, 956 Oak St., San Francisco.
 Architectural Designer—L. H. Stevenson, 130 Merced St., St., San Francisco.
 Contractor—L. H. Stevenson, 130 Merced St., San Francisco.
 Filed Apr. 19, '33. Dated Apr. —, '33.
 Roof on\$1039
 First Coat plaster on..... 1000
 When completed 1000
 Usual 35 days..... 1000
TOTAL COST, \$4039
 Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
17	Cochran	Baker	1900
18	Hector	Stahl	3650

ALTERATIONS
 (17) NO. 724 ALMA ST., Oakland. All work for addition and alterations to one-story and basement frame building.
 Owner—Dr. George V. Cochran, Prem.
 Architect—Not Given.
 Contractor—W. J. Baker, 4266 Piedmont Ave., Oakland.
 Filed Apr. 17, '33. Dated Apr. 14, '33.
 Presentation of receipted bills of a like amount of labor and materials\$475
 Presentation of receipted bills of a like amount of labor and materials 475
 Presentation of receipted bills of a like amount of labor and materials 475
 Usual 35 days 475
TOTAL COST, \$1900
 Bond, none. Limit, 50 days. Forfeit, plans and specifications, none.

BUNGALOW
 (18) SELY 40 FT LOT 6 BLK 30, as designated on Map of the town of Livermore; all work on 1-story and basement frame bungalow.
 Owner—Geo. Hector, 161-A Perry St., San Francisco.
 Architect—B. K. Dobkowitz, 425 Monterey Blvd., San Francisco.
 Contractor—Edw. Stahl, LeRoy Anderson, Geo. Swanstrom, 12 Menlo Place, Berkeley.
 Filed Apr. 19, '33. Dated Apr. 18, '33.
 Bldg. ready for plastering.....\$883.34
 Plastering completed 883.33
 Completion notice filed..... 883.33
 Usual 35 days1000.00
TOTAL COST, \$3650.00
 Bond, \$2800. Sureties, Fidelity & Deposit Co. Limit, 60 days.

BUILDING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

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|---------------------------------|--|
| 1.—Apartments | 11.—Ice and Cold Storage Plants |
| 2.—Ponds | 12.—Power Plants |
| 3.—Churches | 13.—Public Buildings, Fire Houses and Warehouses |
| 4.—Factories and Warehouses | 14.—Residences |
| 5.—Flats | 15.—Schools |
| 6.—Garages and Service Stations | 16.—Banks, Stores and Offices |
| 7.—Federal Buildings | 17.—Theatres |
| 8.—Club Buildings | 18.—Wharves & Docks |
| 9.—Hospitals | 19.—Misc. Const. |
| 10.—Hotels | 20.—Misc. Supplies & Materials |

1—APARTMENTS

To Be Done By Day's Work.
ALTERATIONS Cost, \$2000
 San Francisco. No. 2527 Polk St.
 Alterations to apartments.
 Owner—T. G. Wyatt, 2527 Polk St., San Francisco.
 Architect—Not Given.

2—BONDS

PASADENA, Los Angeles Co., Cal.—Preparations are being made to advertise for sale of \$992,000 block of Pine Canyon dam bonds. This block, which is designated Series C, will be advertised as soon as the legal department prepares the necessary forms. The last block of bonds was sold recently to the Reconstruction Finance Corporation.

4—FACTORIES & WAREHOUSES

Being Done By Day's Work.
ALTERATIONS Cost, \$125,000
 (with equipment)
 OAKLAND, Alameda Co., Calif. 7th and Kirkham Streets.
 Alterations for brewery (new brewery equipment, etc.)
 Owner—Golden West Brewery Co.
 Architect—Not Given.

Directors of the company are Wm. and Herman Remensperger, automobile men; Henry Hess, lumberman; Fred Rathjen, sausage manufacturer; Chas. E. Schubert, real estate, and Rudy Zimmerman, George J. White, president of the old firm, will be president of the reorganized company, and George Goerl, brew-master, will remain a director.
 (1188)

Preparing Plans.
BREWERY Cost, \$150,000
 SANTA CRUZ, Santa Cruz Co., Cal.
 New brewery plant (reinforced concrete structure); capacity of 100 barrels per day.
 Owner—Armin Neubert, et al.
 Plans by William E. A. Fritsche, 63 Myrtle St., Santa Cruz.
 Financing arrangements are being made.

Contract Awarded.
WAREHOUSE Cost, \$—
 WALLA WALLA, Washington.
 Hollow tile warehouse (60x140) 20-ft. long cooling platform.
 Owner—Walla Walla Canning Co.
 Architect—Not Given.
 Contractor—C. G. McNichols, Walla Walla.

Plans Completed.
ALTERATIONS Cost, \$—
 SAN JOSE, Santa Clara Co., Cal. San Pedro Street.
 Alterations to building for brewery (new equipment, etc.)
 Owner—Geoffrey Bros., 295 S 2nd St., San Jose.
 Engineer—Clarence M. Kerr, 535 N 7th St., San Jose.

Preparing Working Drawings.
BREWERY Cost, \$500,000
 LOS ANGELES, Cal. 15-acre site.
 Four Class A reinf. concrete buildings and two Class C brick buildings for brewery plant.
 Owner—Don Carlos Brewing Co.
 Architect—Bryant & Shaw, 1610 Cosmo St., Los Angeles.
 Ground will be broken in 45 days.

Estimates On Costs Wanted.
FACTORY Cost, \$—
 SAN FRANCISCO. Site Not Selected.
 One-story and mezzanine floor wood frame factory (25x100 ft.) brick veneer exterior, metal skylights, metal sash, cement floor, tar and gravel roof, etc.
 Owner—Elkington-Helwig Mfg. Co., 621 Minna St., San Francisco.

Planned.
ALTERATIONS Cost, \$—
 HOLLISTER, San Benito Co., Cal.
 Alterations to warehouse and cold storage plant.
 Owner—Hollister Canning Co. (Frank Felice), 865 East St., Hollister.
 Architect—Not Given.

BOULDER CITY, Nevada—Six Companies, Inc., Boulder City, are excavating the site for a cement blending plant to be constructed near the company's high-level mixing plant on the Hoover dam project. Structural steel to be used in erecting the plant, amounting to 500 tons, has been ordered.

Contract Awarded.
BREWERY Cost, \$300,000
 OLYMPIA, Washington. Vicinity of Tumwater.
 Reinforced concrete brewery, 184x140 feet; reinforced concrete bottling house (60x120 ft.) capacity of 25,000 barrels annually.
 Owner—Olympia Brewing Company (Adolph Schmidt, President).
 Architect—Not Given.
 Contractor—Gay Engineering Corp. Co., 2650 Santa Fe Ave., Los Angeles.

Sub-Contracts Awarded.
PLANT Cont. Price, \$10,777
 SAN FRANCISCO. Seventh and Harrison Streets.
 One-story reinforced concrete printing plant (60x37 feet) steel sash, plumbing, heating, electric wiring.
 Owner—Daily Racing Form.
 Architect—C. O. Clausen, 746 46th Avenue.
 Contractor—C. L. Wold, 4416 Fulton Street.
Plumbing—Anderson & Rowe, 45 Belcher Street.
Mill Work—Sudden Lbr. Co., Evans and Quint Streets.
 As previously reported, structural steel awarded to Schrader Iron Wks, 1247 Harrison St.; steel sash to Soule Steel Co., 1750 Army St.

Roofing Contract Awarded.
WAREHOUSE, ETC. Cost, \$52,930
 SAN FRANCISCO. Jessie Street bet. Fourth and Fifth Streets.

One-story and basement Class A steel frame and concrete warehouse (100 by 160 ft.) concrete floors, etc. and two-story steel and wood bridge and certain alterations to adjoining existing building.
 Owner—The Emporium, 835 Market.
 Plans by Engr. Dept. of Owner.
 Contractor—K. E. Parker Co., 135 So. Park.
Roofing—Alta Roofing Co., 976 Indiana Street.
 Other awards previously reported.

Preparing Working Drawings.
PLANT Cost, \$45,000
 VISALIA, Tulare Co., Cal. Ben Mad-dox Way.

One-story and basement walnut packing plant (120x90 ft) several mezzanine floors, concrete foundations, basement floor and loading platform, wood frame construction, wood roof trusses, composition roofing, sheet metal, skylights, redwood siding, wood sash, factory grade maple main floor, toilets, etc.
 Owner—Sequoia Walnut Growers' Association (Fletcher Ayres, President), Visalia.
 Architect—Albert C. Martin, Higgins Bldg., Los Angeles.

Bids Wnted—To Close May 9, 7:30 P. M.
PRINTING SHOP Cost, \$2500
 CLOVERDALE, Sonoma Co., Cal.
 One-story reinforced concrete printing shop (18x80 ft.) composition roof.
 Owner—City of Cloverdale.
 Architect—William Herbert, Rosenberg Bldg., Santa Rosa.
 Plans available from architect.

Contract Awarded.
ALTERATIONS Cost, \$8000
 SAN FRANCISCO. Mission Street bet. Fourth and Fifth Sts.
 Alterations to Hulse Bradford warehouse.
 Owner—The Emporium, 835 Market St., San Francisco.
 Engineer—V. H. Poss, 2929 Russell St., Berkeley.
 Contractor—Monson Bros., 475 Sixth St., San Francisco.

ANTIOCH, Contra Costa Co., Calif.—Golden Gate Iron Works, 1541 Howard St., San Francisco, awarded the contract for structural steel, etc., in connection with the improvements being made at the Fibreboard Products Company's plant at Antioch. Leland Rosener, 233 Sansome St., San Francisco, engineer.

5—FLATS

Plans Being Figured.
SERVICE STATION Cost, \$9500
 MONTEREY, Monterey Co., Cal.
 Brick service station (Spanish type).
 Owner—Shell Oil Co., Shell Bldg., San Francisco.
 Plans by Engineering Dept. of Owner.
 About one week will be allowed for figuring the plans.

To Ask Bids In One Week.
SERVICE STATION Cost, \$16,000
 SACRAMENTO, Sacramento Co., Cal. Sixteenth and L Streets.
 Service station.
 Owner—Shell Oil Co., Shell Bldg., San Francisco.
 Plans by Engineering Dept. of Owner.
 Lessee—Frank E. Kraus, 2030 23rd St., Sacramento.

6—GARAGES & SERVICE STATIONS

Bids Opened.
GARAGE Cost, \$3000
MOUNTAIN VIEW, Santa Clara Co. One-story brick, frame and stucco garage (50x100 ft.) built-up 15-year guaranteed roof, concrete floors, etc.
 Owner—Fred Campen, General Delivery, Mt. View.
 Architect—Charles McKenzie, Twohy Bldg., San Jose.
 Low Bidder—Sadin & Rediker, Santa Clara.
 Following is a complete list of bids: Sadin & Rediker, Box 419-A Meridian Road, Santa Clara.....\$4000
 E. Anderson, Mt. View..... 4485
 Gutschow Bros., Mt. View..... 4507
 P. N. Doyle, San Jose..... 4560
 A. True, Mt. View..... 4600
 George Huston, Sunnyvale..... 4622
 M. W. Reese, San Jose..... 4645
 Vance M. Brown, Palo Alto..... 4847
 Clinton-Stephenson Constr. Co. San Francisco4872
 Henry A. Hoyt, Palo Alto..... 4950
 W. M. Stuart, Mt. View..... 4952
 W. M. Meyers, San Jose..... 4980
 A. Caldwell, San Jose..... 4993
 Carl Lindholm & Son, Mt View.. 5075
 Van Dalsen Bros, San Jose..... 6179
 Bids held under advisement.

To Be Done By Day's Work.
SERVICE STATION Cost, \$5000
SAN JOSE, Santa Clara Co., Cal. No. 308 S-Second St.
 One-story gasoline service station.
 Owner — Standard Stations, Inc., St. Claire Bldg., San Jose.
 Plans by Engineering Dept. of Owner.

Bids Wanted.
SERVICE STATION Cost, \$15,000
BERKELEY, Alameda Co., Cal. Vine St. and Shattuck Ave.
 Masonry super service station.
 Owner—Standard Oil Co., 225 Bush St. San Francisco.
 Plans by Engr. Dept. of Owner.
 Contractor—Geo. Anderson, 211 Hanover St., Oakland.
 Bids are wanted on fill (waste rock) involving approximately 2200 yards.
Concrete—J. H. Fitzmaurice, 2 8 5 7 Hannah St., Oakland.
Electric—Pacific Elec. Co., Oakland.

7—FEDERAL BUILDING

WASHINGTON, D. C.—W. F. McCrea, 731 E 8th Street, Oakland, at \$509.77 awarded contract by Treasury Department to furnish 71 Venetian blinds for the U. S. Post Office at Stockton. Following is a complete list of the bids:
 W. F. McCrea Co., St. Louis...\$ 509.77
 Bostwick Goodell, Washington 538.24
 Manthey Bros. (2%, 10 days)... 599.90
 Burlington Venetian Blinds Co. Burlington, Vt. 615.00
 Venetian Blinds Ser. Co., Los Angeles 628.84
 M. Corren & Sons..... 684.31
 Western Venetian Blinds Co., Long Beach (1%, 10 days) 702.25
 Yardley Screen & Weatherstrip Co., Columbus, Ohio 727.00
 Watson Mfg. Co., Jamestown, New York 730.00
 E. C. Dehn & Co..... 759.00
 W. J. Horen (2%, 10 days)..... 763.02
 Acme Screen Co., Ft. Worth, Texas (1%, 10 days)..... 916.08
 Donahoe Bldg. & Equip. Co., Pittsburgh, (2%, 10 days).. 1191.00
 Hough Shade Corp., Washington, D. C. 1394.00
 Raymond Porch Shade Company, Janesville, Wis. (2%, 10 days) 1664.20

FT. CLAYTON, C. Z.—Navarro Co., Box 1019, Panama City, has been awarded a contract at \$85,764 for the construction of a shed and stables at Ft. Clayton.

SUNNYVALE, Santa Clara Co., Cal.—Theo. Johanns, 2020 15th St., San Francisco at \$178 submitted low bid to 12th Naval District for small stores facilities for barracks and enclosures for storehouse at the Naval Air Station, Sunnyvale. Specification No. 7225. Following bids received: Theo. Johanns, San Francisco.....\$ 713
 Roy Lind, San Francisco..... 777
 Barnes Bros. Iron Works, Oakland 871
 Anchor Post Fence Co., S. F..... 1140
 Bids held under advisement.

SEATTLE, Wash. — I. N. Dally, Lloyd Bldg., Seattle, at \$1460 awarded contract by Treasury Department for the installation of an asbestos insulation board over entire ceiling of boiler room, etc., in the U. S. Post Office in Seattle.

SAN FRANCISCO—Shulman-Conroy Painting Co., 609 Frederick St., at \$1285 awarded contract by Treasury Department, for exterior repairs and painting, etc., at the United States Mint in San Francisco.

SUNNYVALE, Santa Clara Co., Cal.—Munthe Equipment Co., 7 Front St., San Francisco, at \$6230 submitted low bid to 12th Naval District, for office and tool room enclosures in Alrsh:p hangar at the Naval Air Station, Sunnyvale. Specification No. 7238. Following bids received: Munthe Equipment Co., S. F.....\$6230
 Forderer Cornice Works, S. F..... 7077
 Price Bldg. Specialties Co., S. F. 7287
 Bids held under advisement.

WALLA WALLA, Wash.—Following bids received by Superintendent of Construction, Veterans' Hospital, Palo Alto, for four showers at the Veterans' Administration, Walla Walla: (1) marble; (2) slate.
 Clervi Marble Co., 1721 San Bruno Ave., San Francisco.....(1) \$635
(2) 480
 Vermont Marble Co., S. F.....(1) 493
 Eastman Marble Co., S. F.....(1) 567
 American Marble Co., S. F.....(1) 592
 Georgia Marble Co., S. F.....(1) 685
 Eisele & Dondero, S. F.....(1) 745
 Robinson Tile & Marble Co., Seattle (3% dis.).....(1) 814
art marble 564

Contract will probably be awarded on slate alternate.

Bids Wanted—To Close May 15th, 2 P. M.
HDQTRS. BLDG. Cost, \$40,000
SAN RAFAEL, Marin Co., Cal. Hamilton Field.
 Concrete and hollow tile headquarters building (177 ft. long, 2-story center) tile roof, Spanish Mission style.
 Owner—United States Government.
 Plans by Constructing Quartermaster, Hamilton Field.
 Plans will be available from above office within a few days upon deposit of \$10.00.

WASHINGTON, D. C.—Corry Jamestown Mfg. Co., Corry, Pa., at \$476 awarded contract by Treasury Department for metal shelving, metal counters, etc., in the United States Post Office in Alameda.

WASHINGTON, D. C.—Moe-Bridges Co., Wilwaukee, Wis., at \$310 awarded contract by Treasury Department for furnishing and installing interior fixtures at the U. S. Post Office at Toole, Utah.

WASHINGTON, D. C. — Edwin F. Guth Co., 2615 Washington Ave., St. Louis, Mo., at \$1442 awarded contract by Treasury Department, for interior lighting fixtures in the United States Post Office and courthouse at Billings, Montana.

WASHINGTON, D. C.—Walter G. Warren & Co., 363 E. Ohio St., Chicago, Ill., at \$574 awarded contract by Treasury Department for interior lighting fixtures in the United States Post Office at Napa.

WASHINGTON, D. C. — Following are additional contractors who have procured plans for the purpose of submitting bids to the Bureau of Yards and Docks, Navy Department, on May 3 for buildings at the Navy Yard, Pearl Harbor, T. H. Specification No. 7074:

- Shaw-Box Crane & Hoist Co., Muskegon, Michigan.
- Hawaiian Dredging Co., Honolulu, T. H.
- North-Moller Co., 120 West Cortland St., Jackson, Michigan.

WASHINGTON, D. C. — Honolulu Iron Works Co., 165 Broadway, New York City, has procured plans for the purpose of submitting bids to the Bureau of Yards and Docks, Navy Department, on May 10 in connection with the additions and alterations to existing foam fire protection system and pumps houses at the Naval Fuel Depot, Pearl Harbor, T. H. Specification No. 7063.

Planned.
POST OFFICE Cost, \$80,000
YUBA CITY, Sutter Co., Cal. Post Office.
 Owner—United States Government.
 Architect—Not Selected.

Preliminary Plans Approved.
ADDITION Cost, \$292,500
PASADENA, Los Angeles Co., Cal. East Colorado St. & Garfield Ave. Addition to Post Office Building.
 Owner—United States Government.
 Architect—Marston & Maybury, 25 S. Euclid Ave., Pasadena.

MONTEREY, Cal. — Until Wednesday, April 26, bids will be received by the Division of Supply, Treasury Department, Washington, D. C., for 51 Venetian blinds for Monterey; Proposal 7181.

PORT ORFORD, Oregon—Yuhasz & Olsen, 4174 Connecticut St., Gary, Ind., are receiving sub-bids on Portland cement, sand and gravel, plaster board, asbestos shingles, rough and finish hardware, lumber and creosoted timber in connection with the construction of a large dwelling to house officers' quarters, etc., laundry storm clothes room, storage rooms, toilets, showers, etc., two-story and basement frame boat house (60x36 ft.) 283 foot launchway concrete piers and trackage for life boats; frame garage (46x 24 feet) two-story cottage (34x27 feet) reinforced concrete reservoir, (14x12 feet); pump house, (10x12 ft.) water supply system, standard look-out tower, etc., at Port Orford, Oregon.
 Bids on excavation, grading, plumbing, heating, sewer work, steel rails, structural steel, miscellaneous iron, mill work, glass, painting, sheet metal steel tower, tank, electric wiring and fixtures and rolling steel doors will be awarded shortly.

WASHINGTON, D. C.—Corry Jamestown Mfg. Co., Corry, Pa., at \$476 awarded contract by Treasury Department for metal shelving, metal counters, etc., in the United States Post Office in Alameda.

WICHITA FALLS, Texas. — Until Tuesday, May 2, bids will be received by the Division of Supply, Treasury Department, Washington, D. C., for 151 Venetian Blinds for Wichita Falls. Proposal 7282.

SAN FRANCISCO.—Bryce Plumbing and Heating Company awarded the electrical contract to Radelfinger Bros., 544 Natoma Street, and the plumbing fixtures to Crane Co., Savannah, Georgia, and boilers to Babcock and Wilcox Company, 450 Mission Street, in connection with the six-story reinforced concrete hospital at Fort Miley, San Francisco, for the U. S. Government. Building will contain 300 beds. Included in the contract is a three-story reinforced concrete administration building, nurses' home, garage, storehouse, laundry, etc. As previously reported, the general contract has been awarded to Herbert M. Baruch Corp., 625 S Olive St., Los Angeles, at \$898,810. Bryce Plumbing & Heating Co.'s bid was \$252,170.

SAN DIEGO AND MARE ISLAND Calif.—Congoleum-Nairn Co., Kearny, N. J., submitted low bid to Bureau of Supplies and Accounts, Navy Department, on April 11 at \$39,132 for furnishing 47,000 square yards of linoleum for San Diego and Mare Island, Schedule 9805, C. & R., Lot 90A.

EUREKA. Humboldt Co., Cal.—Wm. J. Newman, Crescent City, at \$770 awarded contract by Public Works Officer, Mare Island Navy Yard, for painting exteriors and interiors of buildings at the U. S. Naval Direction Finder Station, Point St. George, and Crescent City and painting exteriors of buildings at the U. S. Naval Radio Station, Table Bluff, Eureka. Specification No. 7005.

EUREKA. Humboldt Co., Cal.—R. P. Paoli, 3159 Fillmore St., San Francisco, at \$1190 awarded contract by Public Works Officer, Mare Island Navy Yard, for painting two radio towers at the U. S. Naval Radio Station, Eureka.

POINT REYES, Marin Co., Cal.—J. Piasecke, 345 Haight St., San Francisco, at \$755 awarded contract by Public Works Officer, Mare Island Navy Yard, for painting of exteriors of buildings at the U. S. Naval Direction Finder Station, Point Reyer, and painting exteriors and interiors of buildings at the U. S. Naval Radio Station, South San Francisco. Specification No. 7006.

VISALIA, Tulare Co., Calif.—Murch Bros. Const. Co., Railway Exchange Bldg., St. Louis, awarded the structural steel contract to the Golden Gate Iron Works, 1541 Howard Street, San Francisco, in connection with the construction of the U. S. post office in Visalia.

8—CLUB BUILDINGS

Contract Awarded.
CLUB Cost, \$7800
MARYSVILLE, Yuba Co., Cal.
One-story club building (40x68 ft.)
Owner—Marysville Art Club (Mrs. L. L. Freeman, Chairman of the Building Committee), Marysville.
Plans by L. F. Gould.
Contractor—L. F. Gould, 1623 O St., Sacramento.

Contract Awarded.
CLUBHOUSE Cost, \$—
CARPINTERIA, Santa Barbara Co.
Wood frame and stucco clubhouse (auditorium with stage, kitchen, two dressing rooms, etc.)
Owner—Womens Club (Dr. Genevieve Shorkley, President).
Architect—Not Given.
Contractor—Jos. Hendy, Carpinteria.

Contract Awarded.
CLUB Cost, \$74,000
SAN FRANCISCO. NE Taylor and Post Streets.
Four-story Class A brick and terra cotta club (gymnasium, dormitory dining room, kitchen, elevators).
Owner—Bohemian Club (Timothy Healy, Secretary).
Architect—Lewis P. Hobart, Crocker Bldg., San Francisco.
Structural Engineer—W. P. Day, Financial Center Bldg., S. F.
Mechanical Engineer—Atkins & Parker, Hobart Bldg., S. F.
Following is complete list of bids:
Dinwiddie Constr. Co. \$574,000
Lindgren & Swinerton, Inc. 592,000
Clinton Constr. Co. 596,800
Cahill Bros. 608,460
Anderson & Ringrose 626,000

Bids Rejected.
CLUBHOUSE Cost, \$2000
SAN MATEO, San Mateo Co., Calif.
Foot of Peninsular Avenue.
One-story frame and stucco clubhouse (40x30 ft.) Spanish type, tile roof, metal sash, electric heating (will house administration offices, rest rooms and small cafe).
Owner—City of San Mateo.
Architect—T. M. Edwards, 525 Market St., San Francisco.

Work will be done by day's labor under the supervision of City Manager E. P. Wilsey.

Following bids were received and rejected:
I. Sorensen, Burlingame \$2,600
Frank Ferrea, San Mateo 2,645
Wallace Waterhouse, San Mateo 2,725
R. E. Broderick, San Mateo 2,738

Planned.
LODGE Cost, \$—
HOLLISTER, San Benito Co., Calif.
SW Sally and 7th Sts.
Lodge building (kitchen, banquet room and retiring rooms).
Owner—The Union Benefica de Hollister.
Plans by E. C. Griffin, care Frank Sparling, 720 Powell St., Hollister.
Agent—E. E. Holbrook Co., Hollister.

Prospective Bidders.
MEMORIAL HALL Cost, \$16,000
RED BLUFF, Tehama Co., Cal.
Remodel school for Veterans' Memorial (brick construction, 60 by 80 feet) stucco exterior, maple flooring, hot air heating system, composition roof.

Owner—County of Tehama.
Architect—Dragon & Schmidts, Mercantile Bank Bldg., Berkeley.
Following have procured plans. Bids open May 1, 2 P. M.:

A. Frederick Anderson, 5322 J St., Sacramento.

J. P. Brennan, Redding.

T. B. Goodwin, 2951 Divisadero St., San Francisco.

N. H. Sjoberg, Call Bldg., San Francisco.

David Nordstrom, 15 Nace St., Oakland.

S. O. MacDonald & Son, 2912 Deakin St., Berkeley.

J. H. Forbes, Orland.
Other bidders reported April 14.

10—HOTELS

Planned.
ALTERATIONS, ETC. Cost, \$10,000
UKIAH, Mendocino Co., Cal.
Alterations to Hotel Cecilie (new furniture, etc.)
Owner—M. A. Galloway, % Travelers Hotel, 6th and H Sts., Eureka.
Architect—Not Given.
Agent—J. H. Robinson, Eureka.

11—ICE AND COLD STORAGE PLANTS

Contracts Awarded.
EXTENSION Cost, \$—
SAN FRANCISCO. Third and Berry Streets.

Extension to State refrigeration terminal (Unit 3) extend insulation and refrigeration machinery in concrete building (approx. 27,000 sq. ft. of floor space).

Owner—State of California (Harbor Commission).

Engineer—Frank G. White, Ferry Bldg., San Francisco.

Contractor—Fred J. Early Jr., 367 Pine St., San Francisco, at \$8097.

Machinery—Pelton Water Wheel Co., 2929 19th St., at \$24,806.

Bids for insulation work held under advisement for one week. Complete list of bids published April 7.

ELOY, Ariz.—Arizona Ice & Cold Storage Co., Jack Martin, Tucson manager, will erect a 20-ton daily capacity ice plant at Eloy. The storage capacity of the plant will be 2,000 tons and the cost will total \$60,000.

12—POWER PLANTS

LOS ANGELES, Cal.—Until 11 A. M., May 3, bids will be received by A. J. Holm, City Purchasing Agent, 107 City Hall, for oil circuit breakers under Specifications No. 3046. Bids will be taken as follows:

(1) 16 34,500-volt, 600-amp. 1,000,000 kva., 125-volts, D. C., solenoid, or motor operated circuit breakers, including oil:

- F. o. b. cars bidders factory or shipping point;
 - F. o. b. cars Power Spur No. 1 Santa Fe delivery, Los Angeles;
 - F. o. b. trucks, 1630 N. Main St., Los Angeles;
 - F. o. b. cars bidder's factory or shipping point with full freight allowed to 1630 N. Main St.;
- (1 Alt.) 16 circuit breakers, without oil (a), (b), (c), (d), as above.
(2) 2 tank lowering devices for the above circuit breakers. (a), (b), (c), (d), as above.

LOS ANGELES, Cal.—Bennett & Taylor, 1978 So. Los Angeles St., Los Angeles, submitted low bid to the Metropolitan Water District, April 13, at \$69,442, for the construction of substations on the Mecca Pass-Colorado River transmission line of the Colorado aqueduct. Two sub-stations will be 66 to 33 kv. stations, one located at Hayfield and one at Granite; one located at Parker, will be 33 to 11.5 kv.; and 14 small distribution stations scattered along the line, some portable, of 33 to 2.4 kv. The district will furnish all major equipment, including transformers, copper conductor, insulators and poles required, previous purchases covering the requirements. The contractor will furnish incidental materials, including some concrete, light structural steel, etc. F. E. Weymouth is the General Manager and Chief Engineer.

Bids were taken on items as follows:
(1) construction of two 66/33 kv. sub-stations and one 33/11.5 kv. sub-stations, lump sum;
(2) construction of 14 33/2.4 kv. sub-Colorado River, lump sum; stations between Hayfield and (2a) allowance for each substation, not exceeding 3, added to or subtracted from 14;
(3) construction of all work in (1) and (2).

The bids were:
Bennett & Taylor (1) \$47,942; (2) \$21,713; (2a) \$1200; (3) \$69,422.

Newbery Elec. Corp. and Quality Elec. Co., Ltd. (2a) \$1600; (3) \$71,865.
 F. Ziebarth, Osborn Co. (1) \$48,918; (2) \$24,460; (2a) \$1400; (3) \$71,978.
 H. H. Walker, Inc. (2a) \$1500; (3) \$74,332.
 The bids were referred to the Chief Engineer for report.

MONTEBELLO, Los Angeles Co., Calif.—Hearing in County Superior Court on the injunction suit to restrain the city from constructing the proposed municipal light plant, postponed to April 26.
 Plans Being Prepared.

POWER HOUSE Cost, \$—
WALLA WALLA, Washington.
 New Power house at the State Penitentiary.
 Owner—State of Washington.
 Architect—Geo. M. Rasque, Spokane. (1237)

**13—PUBLIC BUILDINGS
 FIRE HOUSES & JAILS**

LAS VEGAS, Nev.—Clark County Commissioners, Las Vegas, opened bids on April 6 for cells and jail equipment for the accommodation of approximately 30 prisoners. The bids were referred to Architect A. L. Worswick and B. S. Barrett, county road supervisor, for recommendation. Bids received ranged from \$1800 for Proposal No. 1, submitted by Smith-Kinney of Los Angeles, to \$9450 for Proposal No. 3, submitted by the Herman Safe Co. of San Francisco.

Plumbing, Mechanical and Electric Bids Wanted—To Close May 3, 2:30 P. M.

JAIL Cost, \$490,000
SNEATH RANCH, San Mateo County
 Plumbing, Mechanical and Electric work for 7-story men's jail building and 2-story women's jail bldg. (Class B reinforced concrete construction, tar and gravel roof, concrete floors, mastic finish in cell block, steel cells, steel sash, steam heat, ventilating system, laundry, kitchen, sewage disposal plant farm group).
 Owner—City and County of San Francisco.

Architect—Albert F. Roller, Crocker First National Bank Building and Dodge Riedy, Pacific Bldg., San Francisco.

Plumbing and mechanical work estimate, \$140,000; electrical work, \$47,000.

LAS VEGAS, Nevada.—Southern California Ornamental Iron Works, 7281 Santa Monica Blvd., Los Angeles, awarded contract by Clark County Commissioners, Las Vegas, at \$3890, for cells and jail equipment.
 Southern California Ornamental Iron Works (1) 2 cells, \$1524; (2) 5 cells, \$2790; (3) 7 cells, 3390.

Smith-Kinney, Inc., (1) \$1800; (2) \$3259; (3) \$4281.
 City Ornamental Iron Works (1) \$1830; (2) \$2545; (3) \$4265.
 St. Paul Iron & Foundry Co. (1) \$2253; (2) \$3968; (3) \$4939.
 Kyle Steel Constr. Co. (1) \$2275; (2) \$3639; (3) \$4474.

Southern Prison Co. (1) \$3242; (2) \$7524; (3) \$8695.

Pauly Jail Building Co., (1) \$4610; (2) \$8325; (3) \$9406.
 Herman Safe Co., (1) \$4725; (2) \$8400 (3) \$9450.

Stewart Iron Works (1) \$4785; (2) \$7990; (3) \$9125.

Preparing Plans.
ALTERATIONS Cost, \$100,000
SEATTLE, Washington.
 Alterations to City Hall.

Owner—City of Seattle.
 Architect—A. E. Doyle and Associates Pacific Bldg., Seattle, Wash.
 O. R. Bean, commissioner re-elected will be the general supervisor of the project.

Bids Opened.
ARMORY Cost, \$—
SAN JOSE, Santa Clara Co., Cal. N
 Second Street.

One and two-story reinforced concrete armory (60x134 ft.) reinforced concrete walls, roof and floors, steel trusses, structural steel, part composition and slate tile roof, etc.; drill hall with seating capacity of 1500.

Owner—State of California.
 Architect—George B. McDougall, State Architect, Public Works Building, Sacramento.

Following is complete list of bids:
 (1) deduct for omitting target range and maple flooring; (2) deduct for omitting tile roof.

William Spivock, Hobart Bldg., San Francisco.....\$33,565
 (1) 1,470
 (2) 417

E. T. Lesure, Oakland 34,373
 (1) 1,000
 (2) 430

K. E. Parker Co., S. F..... 35,460
 (1) 1,277
 (2) 370

W. J. Ochs, San Jose..... 35,552
 (1) 1,025
 (2) 400

Young & Horstmeyer, S. F..... 35,737
 (1) 1,035
 (2) 370

F. J. Reilly, San Francisco..... 35,981
 (1) 1,200
 (2) 450

H. H. Larsen Co., S. F..... 36,871
 (1) 1,375
 (2) 430

Carl N Swensen, San Jose..... 37,587
 (1) 1,300
 (2) 450

Neves & Harp, Santa Clara..... 37,737
 (1) 1,300
 (2) 400

F. C. Amoroso & Sons, S. F..... 37,998
 (1) 806
 (2) 400

A. Nelson, Inc., S. F..... 83,745
 (1) 1,500
 (2) 500

H. Mayson, Long Beach..... 38,857
 (1) 1,207
 (2) 550

Herbert M. Baruch, L. A..... 38,894
 (1) 1,300
 (2) 350

R. W. Littlefield, Oakland..... 39,933
 (1) 1,500
 (2) 400

Barrett & Hllp, S. F..... 40,767
 (1) 1,700
 (2) 500

R. O. Summers, San Jose..... 42,724
 (1) 1,621
 (2) 370

J. F. Shepherd, Stockton..... 43,722
 (1) 1,563
 (2) 370

Plumbing and Heating
 Wm. Serpa, 497 N-13th St., San Jose\$2923

F. B. Jones, Los Angeles..... 2934
 Van Dalsem Bros., San Jose..... 2993

Skelly & Kohler, San Francisco 3099
 Scott Co., San Francisco..... 3191
 George C. Bell, Oakland..... 3250

A. J. Peters & Son, San Jose..... 3385
 Carl T. Doell, Oakland..... 3577
 Fred W. Snook, S. F..... 3627

Jos. C. Black, Stockton..... 3700
 J. J. McDermott, Sacramento.... 3757
 J. A. Nelson, San Francisco..... 3856

Electrical Work
 (1) deduct for omitting electrical work in target range:
 Coast Electric Service Co., Inc., 1022 S-1st St., San Jose.....\$1238.00

(1) 57.50
 Gilbert Bros., San Jose..... 1274.00
 (1) 50.00

R. M. Butcher, San Jose..... 1363.00
 (1) 47.00
 Matson Seabrooke Co., Oakland 1388.00
 (1) 40.00
 W. B. Baker, S. F..... 1589.00
 (1) 61.00
 Fred Doerr, San Jose..... 1996.00
 (1) 82.00

Bids held under advisement.

Planned.
PAINTING Cost, \$5000
FRESNO, Fresno Co., Cal.
 Paint roof of County Courthouse, etc.
 Owner—County of Fresno.
 Specifications by A. C. Shepherd, Deputy District Attorney, Fresno.

Bids Wanted—To Close May 9, 7:30 P. M.

CITY HALL Cost, \$5000
CLOVERDALE, Sonoma Co., Cal.

One-story reinforced concrete city hall (40x46) composition and tile roof, hot water heating system, pine floors, etc. (to house chief of police, justice court, jail with two cells, council chambers and courtroom, etc.) space for two fire trucks.

Owner—City of Cloverdale.
 Architect—Wm. Herbert, Rosenberg Bldg., Santa Rosa.

Plans available from architect upon deposit of \$10.

Bids Wanted—To Close May 3, 2:30 P. M.

ALTERATIONS Cost, \$15,000
SAN FRANCISCO, Municipal Auditorium.

Remodel 3rd and 4th floors of the Municipal Auditorium (house offices of the Board of Education).

Owner—City and County of San Francisco.

Plans by Bureau of Architecture (Charles Sawyer, architect) City Hall.

LONG BEACH, Los Angeles Co., Cal.—E. S. Dobbin, Long Beach city manager, has filed 48 applications for R. F. C. relief loans to repair damaged municipal buildings in Long Beach. The cost of the repairs is estimated at \$307,875. More than half of the loan sought is to repair fire stations, estimated to cost \$157,000. Included in the list is an application for \$23,050 for rehabilitation of municipal water department structures. The list of estimated damages was compiled by G. W. Firth, public service department structural engineer.

14—RESIDENCES

Contract Awarded.
RESIDENCE Cost, \$10,000
SAN JOSE, Santa Clara Co., Cal.

Fourteenth St. near Reed St.
 Two-story and basement frame and stucco residence (8 rooms).

Owner—Vincent Lippolis, 616 N-Third St., San Jose.

Architect—Not Given.
 Contractor—V. F. Van Dalsem, 785 S-First St., San Jose.

Contract Awarded.
RESIDENCE Cost, \$6000
REDWOOD CITY, San Mateo Co., Cal.

No. 409 Edgewood Road.
 One and one-half-story frame and stucco residence (7 rooms and 2 baths).

Owner—A. B. Cheatham.
 Architect—Not Given.

Contractor—M. Klay, Menlo Oaks Dr., Redwood City.

SAN FRANCISCO—Balboa Painting Company, 3619 Balboa Street, at \$243.50 awarded contract by Capital Company, for painting the exterior and interior of the residence located at 158 Del Mar Street, San Francisco.

Prospective Bidders.
RESIDENCE Cost, \$9000
OAKLAND, Alameda Co., Cal. St.
James Wood.
Two-story and basement frame residence.

Owner—A. Kindig.
Architect—W. E. Schirmer, Financial Center Bldg., Oakland.

Following have procured plans. Bids open April 25, 11 A. M.
Jensen & Pederson, 3443 Adeline St., Oakland.

Thomas F. L. Furlong, 460 Jerome St., Oakland.
T. D. Courtright, 5098 Manila Ave., Oakland.

David Nordstrom, 354 Hobart St., Oakland.
B. F. Woolley, 5621 Thorn Road, Oakland.

J. J. Moore, 354 Hobart St., Oakland
C. H. Thrans, 28 Home Place, Oakland.

Emil Person, 829 San Luis Road, Oakland.

To Be Done By Day's Work.

RESIDENCE Cost, \$4000
SAN FRANCISCO. W 25th Ave. 225 S Irving St.

One-story and basement frame and stucco residence.

Owner—E. Anderson, 1177 De Haro Street.

Architect—John Ahnden, 822 39th Ave.

Contract Awarded.

RESIDENCE Cost, \$6500
ALAMEDA, Alameda Co., Cal. No. 1502 Gibbons Drive.

Two-story frame and stucco residence (6 rooms).

Owner—M. Donald.

Architect—Not Given.

Contractor—C. W. Leekins, 1652 Hopkins St., Oakland.

Sub-Contracts Awarded.

RESIDENCE Cost, \$7500
SAN MATEO, San Mateo Co., Cal. No. 415 Fairfax Avenue.

Two-story and basement frame and stucco residence.

Owner—J. M. Chalmers.

Architect—Not Given.

Contractor—B. Nachess, 832 Morrell Ave., Burlingame.

Plumbing—J. W. Forsythe, San Mateo.

Plastering—P. Venturelli, San Mateo.

Electric Wiring—Electric Services, San Mateo.

Painting—Joe Mossaro, Burlingame.

Brick Work—Al Meier, San Bruno.

Mill Work—Worden Bros., San Francisco.

Lumber—Wisnom Lumber Co., San Mateo.

Tile Work—Benett Tile Co., San Mateo.

Roofing, Sheet Metal and Heating—Izmirian Roofing Co., San Mateo.

Hardwood Floors—Nystrom & Larson Burlingame.

Sub-Bids Being Taken.

RESIDENCES Cost, \$4500 each
SAN FRANCISCO. S Beach St. 150 E Webster St.

Two one-story and basement frame and stucco residences (5 rooms each), tile and composition roof, gas heating, hardwood floors, tiled baths, etc.

Owner and Builder—Rothschild Bros., 41 Sutter St., San Francisco.

Architect—F. Frederick Amandes, 1879 18th Ave., San Francisco.

Contract Awarded.

RESIDENCE Cost, \$6500
BERKELEY, Alameda Co., Cal. North Cragmont District.

Two-story frame and stucco residence (6 rooms) tile roof, hot air heating system, hardwood floors, tiled baths, electric refrigeration, etc.

Owner—George Dallas.

Architect—E. L. Snyder, 2102 Addison St., Berkeley.

Contractor—W. A. Netherby, 3853 Lyman Road, Oakland.

Sub-Bids Being Taken.

RESIDENCE Cost, \$5000
SAN FRANCISCO. SE Ocean and Twenty-first Aves.

One-story and basement frame and stucco residence (5 rooms) tile and composition roof, gas heating system, hardwood floors, etc.

Owner and Builder—A. J. Herzig, 635 Victoria St., San Francisco.

Architect—F. F. Amandes, 1879 18th Ave., San Francisco.

Plans Being Figured.

RESIDENCE Cost, \$7000
HILLSBOROUGH, San Mateo Co., Cal.

Two-story and basement frame and stucco residence (7 rooms and 3 baths) shakes roof, gas air heating system, tile showers, oak floors terracing, etc.

Owner—W. E. Jason, Jr., care architect.

Architect—Farr & Ward, 68 Post St., San Francisco.

About ten days will be allowed for figuring the plans.

Plans Being Prepared.

RESIDENCE Cost, \$—
HAYWARD, Alameda Co., Cal. Niles Road.

1½-story frame and stucco residence (6 rooms) tile roof, gas heating system, hardwood floors, tiled bath, electric refrigeration, etc.

Owner—Withheld.

Architect—Geo. P. Simonds, 261 Main St., Hayward.

Bids will be taken from a selected list of Hayward contractors in about two weeks.

Contract Awarded.

RESIDENCE Cost, \$7500
SACRAMENTO, Sacramento Co., Cal. Lot 341 W & K. Tract.

Two-story frame and stucco residence Owner—A. G. Kassis, 2800 Y Street, Sacramento.

Architect—Not Given.

Contractor—John C. Shreck, 2536 27th St., Sacramento.

Contract Awarded.

RESIDENCE Cost, \$6000
ALAMEDA, Alameda Co., Cal. No. 1717 Cambridge Drive.

Two-story frame and stucco residence (6 rooms).

Owner—D. Else, 103 Monte Cresta Ave., Piedmont.

Architect—Not Given.

Contractor—C. W. Leekins, 1652 Hopkins St., Oakland.

FRESNO, Fresno Co., Cal.—J. C. Forkner, Fresno Subdivider, Figarden, Fresno, will launch a new suburban community to be known as Highway City, on the west side of the Golden State Highway, five miles north of Fresno. The 100-acre subdivision will be divided in one-acre home lots. Modern residences will be constructed at a cost of approximately \$20,000.

Sub-Contracts Awarded.

RESIDENCE Cost, \$10,462
PALO ALTO, Santa Clara Co., Calif. Fremont Road near Arastradero.

One-story and basement frame and stucco residence (8 rooms and 3 baths) tile roof, hot air heating system, tiled baths, hardwood floors, etc.

Owner—Esther B. Clark, Stanford University, Palo Alto.

Architect—Birge M. Clark, 310 University Ave., Palo Alto.

Contractor—Wells P. Goodenough, 310 University Ave., Palo Alto.

Brick and Tile—R. R. Tanner, Palo Alto.

Tile Roof—C. L. Frost, Palo Alto.

Hardwood Floors—Henry Jensen, Palo Alto.

Plastering—E. C. Vitham, Palo Alto.

Sheet Metal & Heating—S. G. Spangler, Palo Alto.

Mill Work—Schopke and Burke Lbr. Co., Mountain View.

Wiring—Coast Wiring Co., Redwood City.

Glass—Acme Glass Co., Palo Alto.

Plumbing—Geo. Sohler, Mt. View.

Lumber—Merner Lbr. Co., Palo Alto.

To Ask Bids In One Week.

RESIDENCE Cost, \$—
SAN FRANCISCO. W San Andreas Ave. (St. Francis Wood).

Two-story and basement frame and stucco residence (9 rooms and 3 baths) tile roof, canvas walls, oak flooring, electric refrigeration, etc.

Owner—Mr. and Mrs. Thos. C. Boyle.

Architect—H. C. Baumann, 251 Kearney Street.

Contract Awarded.

RESIDENCE Cost, \$5000
PALO ALTO, Santa Clara Co., Calif. 2340 Tasso Street.

One-story and basement frame and stucco residence (5 rooms).

Owner—Walter Drugg, 1050 Creek Dr., Palo Alto.

Architect—Not Given.

Contractor—M. Klay, Menlo Oaks Dr., Palo Alto.

Plans Being Completed.

RESIDENCE Cost, \$5000
EMERALD LAKE, San Mateo County, Calif.

Two-story wood frame residence (five rooms, 2 sleeping porches) shake exterior walls, crushed granite roof, brick chimney, etc.

Owner—Miss Mary Cook, % Architect.

Architect—Chas. Strothoff, 2274 15th St., San Francisco.

Bids will be asked in about two weeks.

Contract Awarded.

RESIDENCE Cost, \$5000
SACRAMENTO, Sacramento Co., Cal. 750 50th Street.

One-story and basement frame and stucco residence (5 rooms).

Architect—Not Given.

Contractor—C. C. Ruby, 4800 T St., Sacramento.

Preparing Preliminary Plans.

RESIDENCE Cost, \$6500
SAN RAFAEL, Marin Co., Cal. Curtis Tract.

Two-story and basement frame and stucco residence (7 rooms and 2 baths); tile roof, gas heat, colored tile baths, etc.

Owner—O. R. Hartzell, Supt. of Schools, San Rafael.

Architect—N. W. Sexton, deYoung Bldg., San Francisco.

Contract Awarded.

RESIDENCE Cost, \$5000
SAN FRANCISCO. E Twenty-second Ave. 268 N Noriega St.

One-story and basement frame and stucco residence.

Owner—C. P. Conran, % Contractor.

Architect—Not Given.

Contractor—Schultz Constr. Co., 225 Cervantes Blvd., San Francisco.

To Be Done By Way's Work.

RESIDENCES Cost, \$5000 each
SAN FRANCISCO. W Twenty-ninth Ave. 194 S Irving St.

Five one-story and basement frame and stucco residences (5 rooms each).

Owner and Builder—H. Doelger, 320 Judah St., San Francisco.

Plans by Owner.

Contract Awarded.
RESIDENCE Cost, \$—
MILL VALLEY, Marin Co., Cal.
 One-story and basement residence (6 rooms); stucco and half-timber exterior, shake roof, some canvas walls, fireplace, natural stone work, tiled bath, gas warm air heating system, wall paper, etc.
 Owner—F. H. Hildebrand.
 Architect—Kent & Hass, 525 Market St., San Francisco.
 Contractor—Melvin H. Klyee, 25 Eugene St., Mill Valley.

Owner Taking Bids.
RESIDENCE Cost, \$—
SAN FRANCISCO. Manor Drive.
 Two-story frame and stucco residence (6 rooms and social hall).
 Owner—I. Muller, 1969 Mission St. San Francisco.
 Architect—E. M. Sharpe, 525 Market St., San Francisco.

Planned.
RESIDENCES Cost, \$—
VALLEJO, Solano Co., Calif.
 Twenty-five one-story and basement frame and stucco residences.
 Owner and Builders—Mutual Home Builders' Assn. (A. C. Crosby, 831 Sonoma St., Vallejo).
 Plans by Owners.

Contract Awarded.
RESIDENCE Cost, \$4000
BERKELEY, Alameda Co., Calif. E Spaulding St. S Baneroff.
 One-story and basement frame and stucco residence (6 rooms).
 Owner—Al. Hafey, 2236 California St., Berkeley.
 Architect—Not Given.
 Contractor—N. E. Anderson, 3000 Barrett Ave., Richmond.

Contract Awarded.
RESIDENCE Cost, \$6000
SAN FRANCISCO. S Chestnut St. W Baker St.
 Two-story and basement frame and stucco residence.
 Owner—A. Heyman, 718 22nd Ave., San Francisco.
 Plans by B. K. Dobkowitz, 425 Monterey Blvd., San Francisco.
 Contractor—C. O. Blincoe, 2633 15th Ave., San Francisco.

To Ask Bids In One Week.
RESIDENCE Cost, \$6000
BURLINGAME, San Mateo Co., Cal.
 One and one-half-story and basement frame and stucco residence (five rooms) tile and composition roof, gas heat, canvas walls, tile steps, hardwood floors, cement plaster.
 Architect—F. Amandes, 1879 18th Ave.,
 Owner—G. Loomis, % Architect, San Francisco.

Plans Being Figured.
RESIDENCE Cost, \$7500
OAKLAND, Alameda Co., Cal. Rockridge District.
 One-story frame and brick veneer residence (7 rooms, 2 baths), hot air heating system, hardwood floors, tile roof, etc.
 Owner—Withheld.
 Architect—E. L. Snyder, 2102 Addison St., Berkeley.

Sub-Bids Wanted.
RESIDENCES Cost, \$4000 each
SAN FRANCISCO. W Ardenwood N Sloat Blvd.
 Two one-story and basement frame and stucco residences.
 Owner and Builder—Standard Building Co., 218 Castenada St., San Francisco.
 Architect—D. E. Jaekle, Call Bldg., San Francisco.

Sub-Bids are wanted on plastering, painting, mill work, built-up fixtures, brick work, sheet metal, gas furnaces, tile, composition shingles and composition roofs, glass, hardwood floors,

hardware, (rough and finish), fixtures, electric wiring, inside tile, iron work, inside stairs, tile and brick stairs, wall paper, canvas, electric refrigerators, plumbing, ornamental plaster, shades, water heaters, etc.

Sub-Bids Being Taken.
RESIDENCE Cost, \$7000
SAN FRANCISCO. Forty-sixth Ave.
 Two-story frame and stucco residence.
 Owner—Thoms McInerney.
 Architect—Not Given.
 Contractor—Standard Building Co., 218 Castenada St., San Francisco.

Sub-bids are wanted on plastering, painting, mill work, built-up fixtures, brick work, sheet metal, gas furnaces, tile, composition shingles and composition roofs, glass, hardwood floors, hardware (rough and finish), fixtures, electric wiring, inside tile, iron work, inside stairs, tile and brick stairs, wall paper, canvas, electric refrigerators, plumbing, ornamental plaster, shades, water heaters, etc.

Sub-Bids Wanted.
RESIDENCE Cost, \$4000
SAN FRANCISCO. N Laguna Honda 85 W Balceta St.
 One-story and basement frame and stucco residence.
 Owner—T. McInerney, % Contractor.
 Architect—D. E. Jaekle, Call Bldg., San Francisco.

Contractor—Standard Building Co., 218 Castenada St., San Francisco.
 Sub-bids are wanted on plastering, painting, mill work, built-up fixtures, brick work, sheet metal, gas furnaces, tile, composition shingles and composition roofs, glass, hardwood floors, hardware (rough and finish), fixtures, electric wiring, inside tile, iron work, inside stairs, tile and brick stairs, wall paper, canvas, electric refrigerators, plumbing, ornamental plaster, shades, water heaters, etc.

Contract Awarded.
RESIDENCE Cost, \$3650
SAN MATEO, San Mateo Co., Cal. Lot 5 Blk 13, Easton.
 One-story frame and stucco residence.
 Owner—I. Sbragia et al.
 Plans by C. S. Galardi.
 Contractor—Latimer & Chase, San Bruno.

Low Bidder.
RESIDENCE Cost, \$8000
LOS ALTOS, Santa Clara Co., Cal.
 Two-story and basement frame and stucco residence (8 rooms and 2 baths) tile roof, oil burner and hat air heating system, hardwood floors, tiled baths, etc.
 Owner—M. Kirkish, Sunnyvale.
 Architect—Charles McKenzie, Twohy Bldg., San Jose.
Low Bidder—M. W. Reese, 1210 Minnesota St., San Jose, at \$6485.
 Bids held under advisement.

Contract Awarded.
COTTAGE Cost, \$1400
SAN CARLOS, San Mateo Co., Cal.
 One-story wood frame week-end cottage (4 rooms) shingle roof.
 Owner—G. Dalmon.
 Architect—Fabre & Hildebrand, 110 Sutter St., San Francisco.
 Contractor—Carl Wengard, 546 Sansome St., San Francisco.

Sub-Bids Being Taken.
RESIDENCE Cost, \$6000
OAKLAND, Alameda Co., Cal. No. 4100 Norton Avenue.
 One-story and basement frame and stucco residence (6 rooms).
 Owner—Sam Bakalian, 4200 Piedmont Ave., Oakland.
 Architect—Ray F. Keefer, 770 Wesley Ave., Oakland.
 Contractor—C. H. Thrans, 28 Home Place West, Oakland.

15—SCHOOLS

Planned.
LIBRARY Cost, \$200,000
SEATTLE, Washington. University of Washington campus.
 New wing for library at University.
 Owner—University of Washington (L. B. Schwellenbach, president of the Board of Regents).
 Architect—Not Selected.
 An architect will be selected shortly.

FRESNO, Fresno Co., Calif.—Until April 27, 11 A. M., bids will be received by J. S. McCain, County Purchasing Agent, for furnishing school supplies for the elementary schools and certain other schools of Fresno County for use during the fiscal year 1933-34. Supplies for distribution to approximately 140 school districts. Specifications available from above of.

SAN RAFAEL, Marin Co., Cal.—A. L. Borkheim, president of the San Rafael Board of Education, directed N. W. Sexton, School Board Architect, to survey the San Rafael Grammar School, housing 150 children and report what should be done to make it safe. This action followed a report by H. J. Brunner, San Francisco engineer. Further details will be announced shortly.

SAN FRANCISCO.—Until May 3rd, 2:30 P. M., bids will be received by S. J. Hester, Secretary, Department of Public Works, for yard work at the Horace Mann Junior High School, 23rd and Valencia Streets. Estimated cost, \$3,800. Specifications available from the Bureau of Architecture Room 265.

EUREKA, Humboldt Co., Cal.—Until May 3, 7:30 P. M., bids will be received by George B. Albee, Supt. of City Schools, Eureka Junior High School, Eureka, for furnishing school supplies. Specifications available from above office.

Sub-Contracts Awarded.
ADDITION Cont. Price, \$15,731
DALY CITY, San Mateo Co., Calif.
 Class C concrete addn. to high school (add six classrooms) wood joists, tile roof, wood and concrete floors steam heating system, etc.
 Owner—Jefferson Union High School District.
 Architect—Resing & McGuinness, 488 Pine St., San Francisco.
 Contractor—Frank J. Reilly, 6350 Fulton St., San Francisco.
Grading—Devencenzi Bros. & Co., 150 Collins St., San Francisco.
Steel—Pacific Coast Steel Co., 20th & Illinois Sts., San Francisco.
Mill Work—Stockton Lumber Co., 311 California St., San Francisco.
Plumbing—A. M. Harrison, 122 Woodrow St., San Francisco.

As previously reported, heating contract awarded to O'Mara & Stewart, 218 Clara St., San Francisco; electric to Central Electric Co., 179 Minna St., San Francisco; hardware to J. H. Kruse, Treat Ave. and 23rd St., San Francisco.

SAN FRANCISCO.—Crown Fence Co., 144 Townsend St., at \$243.25 submitted low bid to Department of Public Works for two 40-ft. sections of 6-ft. C. L. fabric storm fence at the Balboa High School, Onondaga Ave. and Cayuga St., involving:
 (1) 2 72-in. x 3-ft. gates;
 (2) 4 3-in. gate posts;
 (3) 4 3-in. end posts;
 (4) 4 2½-in. line posts;
 (5) 1 ½-in. top rail.
 Following bids received:
 Crown Fence Co. \$243.25
 Standard Fence Co. 253.44
 Anchor Post Fence Co. 254.00

Kamlan Fence Co. 258.60
Michel & Pfeffer Iron Works... 261.04
Bids held under advisement.

VALLEJO, Solano Co., Calif.—Until May 2, 4 P. M., bids will be received by Elmer Cave, Secretary, Vallejo High School District, for furnishing and installing stage equipment for the new Vallejo Junior High School. Plans and specifications available from above office upon deposit of \$10.

16—BANKS, STORES AND OFFICES

Contract Awarded.
RESTAURANT & STORE \$16,000
TRUCKEE, Nevada Co., Cal.
One-story and basement brick restaurant and (2) stores.
Owner—Anton Filipic and A. Mahme.
Architect—W. E. Coffman, Forum Bldg., Sacramento.
Contractor—Charles Peterson & Son, 2939 24th St., Sacramento.

Contract Awarded.
ALTERATIONS Cost, \$10,000
SAN FRANCISCO, No. 447-453 Broadway.

Alterations for stores, hotel and factory.
Owner—E. Parducci and P. Domenici, 505 Sansome St., San Francisco.
Architect—Irvine & Ebbets (R. R. Irvine, Architect), 2048 Market St., San Francisco.
Engineer—R. R. Irvine, 2048 Market St., San Francisco.
Contractor—San Francisco Constr. Co., 3159 Fillmore St., S. F.

Planned.
ALTERATIONS Cost, \$10,000
FRESNO, Fresno Co., Cal. No. 1117 Van Ness Avenue.
Alterations for restaurant (75x150 ft.) 7500 sq. ft. of floor space.
Owner—Mrs. Amelia Hall, Fresno.
Architect—Not Given.
Lessee—M. C. R. Nelson and Chr's. Finderup, 2939 Iowa St., Fresno.

Contract Awarded.
ALTERATIONS Cost, \$3000
OAKLAND, Alameda Co., Calif. 742 Alma Avenue.
Alterations and additions to building.
Owner—Jean L. Cochrane, 724 Alma Ave., Oakland.
Architect—Not Given.
Contractor—W. J. Baker, 4266 Piedmont Ave., Oakland.

Contract Awarded.
ALTERATIONS Cost, \$—
FRESNO, Fresno Co., Cal. 1117 Van Ness Avenue.
Alterations for restaurant (75x150 ft.) 7500 sq. ft. of floor space.
Owner—Mrs. Amelia Hall, Fresno.
Architect—Not Given.
Lessee—M. C. R. Nelson and Chris Finderup, 2939 Iowa St., Fresno.
Contractor—J. Dan Shorb, 1295 Linden St., Fresno.

Contract Awarded.
STORE Cost, \$4175
MARTINEZ, Contra Costa Co., Calif. Lot 7 Block G.
One-story frame store.
Owner—Thomas Connors, Crockett.
Architect—Not Given.
Contractor—Karl S. Koller, Crockett.

SAN FRANCISCO.—The Emplre Const. Co., Ltd., Shell Bldg., at \$1,650 awarded contract by The Emporium, owners, for flooring over of third floor stair well in the Emporium building.

Contract Awarded.
ALTERATIONS Cost, \$2000
OAKLAND, Alameda Co., Cal. No. 1325 Washington Street.

Alterations to store front.
Owner—The Fashion Bootery, 1325 Washington St., Oakland.
Plans by C. Hathaway Lovell.
Contractor—Louis C. Dunn, Monadnock Bldg., San Francisco.

Planned.
STORE Cost, \$—
SONOMA, Sonoma Co., Cal. Napa St.
One-story reinforced concrete store (37x60 feet).
Owner—Fred Bulotti, Napa St., Sonoma.
Architect—Not Selected.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$2000
OAKLAND, Alameda Co., Cal. 24th and Telegraph Aves.
Alterations to ground floor of four-story building for stores.
Owner—Public Food Stores.
Architect—Bertz, Winter & Maury, 210 Post St., San Francisco.
Contractor—C. H. Thrans, 28 Home Place, Oakland.
Roofing—William Finn, 1015 Rose St., Oakland.
Steel Sash—East Bay Glass Co., 621 6th St., Oakland.
Plastering—Sam Solomonson, 3233 Kansas St., Oakland.

Contract Awarded.
STORE Cost, \$1500
SAN JOSE, Santa Clara Co., Cal. Willow St. near Vine.
One-story frame store.
San Josee.
Owner—Sam Gabino, 749 Willow St.
Architect—Not Given.
Contractor—V. R. Camlnetti, 975 Vine St., San Jose.

FRESNO, Fresno Co., Cal.—Until May 10, 2 P. M., bids will be received by C. H. Purcell, State Highway Engineer, Public Works Building, Sacramento, for the erection and completion of an addition to the District Office Building at Fresno. Work comprises excavation, concrete and masonry work, carpentry and mill work, lathing and plastering, sheet metal work, steel sash, roofing, structural steel, painting, plumbing, heating, ventilating and electrical installation. State will furnish Venetian blinds, window shades, laboratory hoists, refrigerated fountains and air washer. Plans obtainable from above office on deposit of \$25, or may be inspected at office of District Engineer at Fresno, Los Angeles and San Francisco.

Contracts Awarded.
ALTERATIONS Cost, \$—
SAN FRANCISCO, 101 Post Street.
Alterations to 4-story stores and lofts.
Owner—Samuel Lowe.
Architect—Hyman and Appleton, 68 Post Street.
Contractor—Jacks & Irvine, 74 New Montgomery Street.
Heating and Plumbing—J. H. Pinkerton, 927 Howard Street.
Electric—Central Electric Co., 179 Minna Street.

Sub-Contracts Awarded.
ADDITION Cost, \$65,000
SAN FRANCISCO, Bush and Larkin Streets.

Two-story structural steel and reinforced concrete addition to telephone building (Class A construction).

Owner—Pacific Telephone & Telegraph Co., 140 New Montgomery St., San Francisco.

Plans by Engineering Dept. of Owner (E. V. Cobby, Engineer).
Contractor—Dinwiddie Construction Co., Crocker Bldg., San Francisco.
Electric—Radelfinger Bros., 544 Natoma St., San Francisco.
Reinforcing Steel—Truscoon Steel Co., Call Bldg., San Francisco.

Hardware—Palace Hardware Co., 581 Market St., San Francisco.

Other awards will be made within a few days.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$—
OAKLAND, Alameda Co., Cal. Broadway near Nineteenth Street.

Alterations to store.
Owner—Twentieth & Broadway Realty Company.
Architect—Albert Evers, 525 Market St., San Francisco.

Contractor—Lindgren and Swinerton, Inc., 225 Bush St., San Francisco.
Lessee—J. J. Newberry Company.
Electric—Scott-Buttner Co., 19 Grand Ave., Oakland.

Mill Work—Lannon Bros. Mfg. Co., 5th and Magnolia Sts., Oakland.

Structural Steel—Schrader Iron Wks, 1247 Harrison St., San Francisco.
Finish Hardware—Maxwell Hardware Co., 1320 Washington St., Oakland.

Terra Cotta—Gladding, McBean and Co., 660 Market St., San Francisco.

Tile—Howden Tile Co., 337 17th St., Oakland.

Sheet Metal—Central Sheet Metal Works, 2847 Hannah St., Oakland.
Plastering—S. Muriale, 3331 La Cresta, Oakland.

Steel Sash—Detroit Steel Products Co., 63rd and Doyle Sts., Oakland.
Dumb Waiters—Vincent Whitney Co., 130 10th St., San Francisco.

Miscellaneous Metal—Frauneder Ornamental Iron Works, 335 8th St., Oakland.

17—THEATRES

Heating and Ventilating Contracts Awarded.

THEATRE Cost, \$20,000
SONOMA, Sonoma Co., Cal. First Street East.

One-story steel and concrete theatre to seat 500; (85x163 feet); large room above and stores below.

Owner—San Sebastina, Sonoma.
Architect—Reid Bros., 105 Montgomery St., San Francisco.

Heating and Ventilating—Atlas Heating & Ventilating Co., 557 4th St., San Francisco.

As previously reported, plumbing awarded to Marcey & Peterson, Sonoma City; electric to H. F. Haverkamp, 1127 Folsom St., S. F.; reinforcing steel to Concrete Engr. Co., 1280 Indiana St., S. F.; structural steel to Iron Works, 18th and Campbell Sts., Oakland.

18—WHARVES & DOCKS

Bids Opened.
REPAIRS Cost, \$—
SAN FRANCISCO, Fort Winfield Scott
Repairs to torpedo dock (new creosoted piles and timber bracing, etc.)

Owner—United States Government.
Plans by Constructing Quartermaster, Fort Mason, San Francisco.

Low Bidder—Duncanson Harrelson Co., deYoung Bldg., San Francisco

Following bids received:
Duncanson-Harrelson Co.....\$ 857
O'Neil & Legge..... 933
M. B. McGowan..... 1125

Bids held under advisement.

SAN FRANCISCO.—M. B. McGowan 74 New Montgomery St., at \$9,279 submitted low bid to U. S. Coast Guard, Custom House, San Francisco, to construct extension to launchway at Pt. Bonita. Complete bids follow:

M. B. McGowan, S. F.....\$ 9,279
Healy-Tibbitts, S. F..... 10,320
Duncanson-Harrelson, S. F..... 12,353

Bids held under advisement for two weeks.

Bids Opened.
EXTENSION Cost, \$---
SAN FRANCISCO.
 Extension of wharf shed for Dock No. 2 (150x92 feet) steel frame, five rolling doors, copper beaming, monitor sash, copper gutters, outside walls of reinforced concrete.
 Owner—United States Government.
 Plans by Constructing Quartermaster, Fort Mason.

Following bids received:
 (1) Job complete; (2) if exterior walls are precasted, deduct; (3) if electrical work is omitted, deduct:
 Leo Epp, 4745 Geary St.....(1) \$16,190
 (2)
 (3) 450

Frank J. Reilly, S. F.....(1) 16,883
 (2)
 (3) 350
 Dinwiddie Constr. Co., S. F.....(1) 16,950
 (2)
 (3) 550

Lager & Val Franz, S. F.....(1) 17,483
 (2)
 (3) 350

M. B. McGowan, S. F.....(1) 17,700
 (2) 1,000
 (3) 264

William Spivock, S. F.....(1) 17,830
 (2) 3,000
 (3) 460

K. E. Parker Co., S. F.....(1) 17,840
 (2) 3,000
 (3) 450

F. C. Amoroso & Son, S. F.....(1) 17,943
 (2)
 (3) 396

Robert McCarthy, S. F.....(1) 18,347
 (2)
 (3) 300

A. H. Vogt Co., S. F.....(1) 18,421
 (2)
 (3) 425

A. Nelson, Inc., S. F.....(1) 18,675
 (2)
 (3) 625

G. W. Williams, Co., Burlingame(1) 18,695
 (2) 600
 (3) 600

E. T. Lesure, Oakland... (1) 18,735
 (2) 1,171
 (3) 450

R. W. Littlefield, Oakland(1) 19,900
 (2)
 (3) 500

Monson Bros., S. F.....(1) 19,900
 (2)
 (3) 300

Jas. L. McLaughlin, S. F.....(1) 20,380
 (2)
 (3) 380

Jacks & Irvine, S. F.....(1) 20,443
 (2) 1,695
 (3) 290

C. Dudley Velbiss, S. F.....(1) 23,000
 (2)
 (3) 350

Schuler & McDonald, Oakland(1) 23,773
 (2) 3,500
 (3) 2,500

WASHINGTON, D. C. — Following are additional contractors who have procured plans for the purpose of submitting bids to the Bureau of Yards and Docks, Navy Department, on May 3 for the construction of pier and two quays of reinforced concrete construction at Parl Harbor, T. H. Specification No. 7224:

Frazier - Davis Constr. Co., 1319 Macklind Ave., St. Louis, Mo.
 Hawaiian Dredging Co., Honolulu, T. H.
 West Virginia Rail Co., Huntington, West Virginia.

19—MISC. CONSTRUCTION

ALBROOK FIELD, C. Z. — Tucker McClure, 1203 Spring - Arcade Bldg., Los Angeles, has been awarded a contract at \$9044 for the construction of a runway at Albrook Field, C. Z.

SAN YSIDRO, San Diego Co., Cal.— Until Monday, April 24, bids will be received by the Bureau of Customs, Division of Engineering and Weighing, Treasury Department, Washington, D. C., for the complete construction of gates at the International boundary across the highway at the port of San Ysidro. Plans call for structural steel gates in four sections, two 21 feet wide and two 27 feet wide. Plans and specifications may be obtained from Wm. H. Ellison, collector of customs, Federal Bldg., San Diego.

WASHINGTON D. C.—As previously reported, W. P. Thurston Company, Richmond, Va., at \$9,900 submitted low bid to Bureau of Yards & Docks, Navy Department, Washington, D. C., for two fire alarm systems, each consisting of call boxes, air horns, gongs, etc., at the Naval Ammunition Depot, Oahu, T. H. Specifications No. 7021. Following is complete list of the bids:

(1) deduct if electric sirens are used in lieu of air horns.
 W. P. Thurston Co., Richmond, Virginia \$9,900
 (1)
 H. S. Tittle Co., S. F..... \$10,250
 (1) 485
 Gamewell Co., Newton Upper Falls, Mass. \$13,231
 (1) 231
 (1) \$14,762
 (1) 1,300

Bids held under advisement.
 To Take Sub-Bids In One Week.

MORTUARY Cost, \$60,000
OAKLAND, Alameda Co., Cal. 38th St. and Telegraph Ave.

Two-story and basement wood frame and brick veneer mortuary (100x160 ft.) steel sash, steam heating system, tile floors, organ, 30-car garage.

Owner—Truman Undertaking Co., 2935 Telegraph Ave., Oakland.
 Architect—Blaine & Olson, 1755 Broadway, Oakland.
 Contractor — E. T. Leiter & Son, 811 37th St., Oakland.

LOS ANGELES, Calif.—Until 2 P. M., May 1, bids will be received by County Supervisors to construct a reinforced concrete vault at Pacoima. The proposed vault which will be 28x32 ft., is to be built at Pacoima for the storage of records of the surveyor's office. The work involves:
 12,234 board feet of lumber;
 3,400 lbs. reinforcing steel;
 150 cu. yds. of Class A concrete;
 15.5 squares tile roofing;
 721 sacks portland cement;
 81 cu. yds. sand;
 116 cu. yds. gravel;
 265 cu. yds. excavation;
 866 cu. yds. backfill;
 8 Toncan metal ventilators;
 8 bronze grilles;
 10 structural steel roof trusses;
 933 cu. yds. in floor.

Plans prepared by J. E. Rockhold, County Surveyor, 7th floor, Hall of Records. Mame B. Beatty, 501 Hall of Records, Clerk of the Board.

SAN FRANCISCO.—Until April 26, 1:45 P. M., informal bids will be received by S. J. Hester, Secretary, Department of Public Works, for cover and painting steel, piping, etc., at the Health Center. Specifications are available from Supt. of Public Buildings, 11th and Bryant Streets.

ALAMEDA, Alameda Co., Calif.— E. T. Lesure, 87 Ross Circle, Oakland, at \$2280 awarded contract by U. S. Bureau of Public Roads, San Francisco, for erection of Units 27, 28 and 29, fire hose houses on the U. S. 15-acre tract, Government Island, Alameda.

Plans Completed .
PLANETARIUM Cost, \$250,000
LOS ANGELES, Los Angeles Co., Cal. Vermont Canyon.

Two-story Class A reinforced concrete planetarium (100 x 200 feet); concrete and composition roof, structural steel, steel ladders and rails, cork tile, marble and concrete floors, metal sash, bronze doors, acoustical plaster, stone grilles, kalamein, leather and metal fire doors, cement waterproofing, concrete retaining walls.
 Owner—City of Los Angeles (Park Commissioners).

Architect—John C. Austin and F. M. Ashley, Chamber of Commerce Bldg., Los Angeles.

Funds for the project were provided in the will of the late Col. Griffith J. Griffin.

20—MISC. SUPPLIES AND MATERIALS

PANAMA CANAL ZONE.—Until April 28, 10:30 A. M., under Schedule No. 2858, bids will be received by the General Purchasing Officer, Panama Canal Zone, Washington, D. C., to furnish miscellaneous supplies and equipment, including steel, iron or steel pipe, pumps, bolts, wrenches, fire extinguishers, gasoline hose, lumber, etc. Specifications obtainable from above office.

PASADENA, Los Angeles Co., Cal.—Blue Diamond Corp., 1650 S Alameda St., Los Angeles, submitted low bid to city directors April 18 at \$15,011.20 (base rate of 1.48c per lb.) for furnishing reinforcing steel for use in the Pine Canyon Dam construction. The material involves:

Intermediate Grade—821,000 Lbs.
 500 lbs. ¼-in. round reinf. steel;
 500 lbs. ⅜-in. do;
 67,000 lbs. ½-in. do;
 2,500 lbs. ½-in. square reinf. steel;
 48,000 lbs. ⅝-in. round reinf. steel;
 12,500 lbs. ¾-in. do;
 7,000 lbs. ⅞-in. do;
 100,000 lbs. 1-in. do;
 3,500 lbs. 1-in. square reinf. steel;
 25,000 lbs. 1¼-in. square reinf. steel;
 500,000 lbs. 1½-in. do;
 54,500 lbs. 1½-in. do.

Hard Grade—178,000 Lbs.
 2,000 lbs. ½-in. round reinf. steel;
 28,000 lbs. ⅝-in. do;
 68,000 lbs. ¾-in. do;
 80,000 lbs. 1-in. do.

The other bids were:
 Concrete Engineering Co., \$15,263.48
 Soule Steel Co., \$15,300.
 Truscon Steel Co., \$15,513.05.
 Pacific Coast Steel Co., \$16,809.40.
 The bids were referred to the city manager.

SAN BERNARDINO, Cal.—Associated Oil Co. awarded contract by the city council April 17 at 12c gallon, to furnish approximately 30,000 gallons of gasoline delivered f.o.b. city yards in tank wagons, for city requirements during one year.

THE DALLES, Ore.—Until Thursday, April 27, bids will be received by the Treasury Department, Office of the Supervising Architect, Washington, D. C., for furnishing an electric water cooler and fountain for The Dalles.

ALAMEDA, Alameda Co., Cal.—Anchor Post Fence Co., 460 Fifth St., San Francisco, at \$9385 submitted low bid to Bureau of Public Roads, to construct a part of Unit 9, Chain Link boundary fence and ornamental entrance gateway on the U. S. 15-acre tract at Government Island, Alameda. Only other bid was submitted by Standard Fence Co., Oakland, at \$11,159. Bids held under advisement.

ENGINEERING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

21.—Bridges	30.—Reservoirs and Dams
22.—Dredging, Harbor Works, Excava.	31.—Pipe Lines and Wells
23.—Irrigation Proj.	32.—Sewers & Sewage Disposal Plants
24.—St. Light. Systems	33.—Water Works
25.—Machinery and Equipment	34.—Parks & Playgrounds
26.—Railroads	35.—Tunnels
27.—Fire Alarm Sys.	
28.—Fire Equipment	
29.—Streets & Highways	

21—BRIDGES

SANTA BARBARA COUNTY, Calif.
—M. B. McGowan, 74 New Montgomery St., San Francisco, at \$28,158 awarded contract by State Highway Commission, Sacramento, to construct an overhead crossing over the tracks of the Southern Pacific Co. at Elwood, consisting of one 68-ft. 6-in. deck plate girder span, four 30-ft. reinforced concrete girder spans and two 20-ft. reinf. concrete girder spans.

BEVERLY HILLS, Los Angeles Co., Calif.—Approximate quantities for reconstruction of a pedestrian subway across Wilshire Blvd. at Hamel Drive for the City of Beverly Hills, for which bids are to be opened at 8 P. M., May 9 (previously noted), are:

- (1) 80 ft. railing to be reinstalled;
- (2) 80 ft. new railing;
- (3) 168 sq. ft. 8-in. tile wall;
- (4) 22 ft. reinf. conc. stairs, supporting walls, 6-in. thick;
- (5) 17 ft. reinf. concrete stairs;
- (6) 34 ft. reinf. concrete slab and railing curb;
- (7) 96 ft. reinf. conc. side walls, 10-in. thick;
- (8) 42 ft. reinf. conc. sidewalk, 7 ft. 4 in. wide, 6 in. thick;
- (9) 32 ft. reinf. conc. floor slab, 8 ft. 4 in. wide, 10 in. thick;
- (10) 46 lin. ft. Class B curb;
- (11) 2 ceiling type electric fixtures.

Job includes refilling approximately 24 cu. yds. decomposed granite, water-proofing material and the installation of short lengths of cast iron drain pipe.

OAKLAND, Cal.—Until April 28, 8 P. M., bids will be received by John H. Kimball, secretary, East Bay Municipal Utility District, 512 16th St., Oakland, to construct Bear Creek Bridge near Orinda, Contra Costa Co., consisting of one 40-ft. span and including 1000 ft. roadway approaches, involving:

- (1) 1 40-ft. span timber bridge complete, together with two 20-foot span timber approach sections, complete (lump sum);
 - (2) 1500 cu. yds. excavation.
- Spec. LS-103 obtainable from above office.

MONTEREY COUNTY, Cal.—Chas. W. Lane, Paso Robles, at \$615.25 awarded contract by State Highway Commission to extend reinforced concrete box culvert about 3 mi. south of San Lucas.

PUEBLO, Colo.—D. P. Gaymon, City Engineer, is preparing plans for a viaduct to be built over the Denver and Rio Grande Western R. R. yards.

The cost is estimated between \$150,000 and \$200,000.

VANCOUVER, B. C.—High level bridge, estimated cost, \$6,000,000 to be constructed over First Narrows, planned by British interests, represented by John Anderson, British Pacific Properties, Ltd., 675 W. Hastings St., Vancouver. To be stiffened suspension type bridge, central span 1500 ft. Central span to have maximum clearance of 200-ft. above mean high tide.

SAN JOSE, Santa Clara Co., Cal.—John D. Carlson, 1331 Sierra Ave., San Jose, at \$21,637 awarded contract by city council to construct Julian St. Bridge over Coyote Creek. Complete bids follow:

John D. Carlson, San Jose.....	\$21,637
T. J. Doyle and Theo Johanns, San Francisco	21,937
E. T. Lesure, Oakland.....	24,660
Ball & Bohnett.....	25,300
M. B. McGowan, San Francisco	25,313
Bodenhamer Con. Co., Oakland.....	25,698
Sam Sciarrino, San Jose.....	25,914
W. E. Lyons, Oakland.....	26,435
Neves & Harp, Santa Clara.....	26,490
R. O. Summers, San Jose.....	26,948
A. W. Kitchen, San Francisco.....	29,970
Fredrickson & Watson, Oakland.....	34,618

22—DREDGING, HARBOR WORKS, EXCAVATION

SAN FRANCISCO.—Bethlehem Shipbuilding Corp., Ltd., 20th and Illinois Streets, at \$21,076.60 awarded contract by U. S. Engineer Office to repair U. S. Seagoing Hopper Dredge "San Pablo."

SAN FRANCISCO.—Moore Drydock Co., Balfour Bldg., San Francisco, at \$26,974.40 awarded contract by U. S. Engineer Office, San Francisco, to repair U. S. Seagoing Hopper Dredge "A. Mackenzie."

24—ST. LIGHT. SYSTEMS

ORDWAY, Colo.—Until 10 A. M., April 29, bids will be received by the Twin Lakes Reservoir and Canal Co. (J. H. Cowden, Pres.) for constructing irrigation tunnels between Roaring Fork River on the western slope and Twin Lakes Reservoir on the eastern slope. The project includes two tunnels; one 3.82 miles long, 8x2½ ft. horseshoe shape; the other 1.75 miles, 7x2½ ft., both concrete lined.

CAPITAL CITY TITLE COMPANY

J. C. PALEN,
Manager

914 Seventh Street

Sacramento :: California

25—MACHINERY AND EQUIPMENT

LOS ANGELES, Cal.—Until 2 P. M., May 2, bids will be received by the Metropolitan Water District, 306 West Third St., Los Angeles, for furnishing ventilation equipment for the Coachella Tunnel under Specifications No. 27, copies of which may be purchased at room 1004, 306 West Third St., for \$2 per set; which sum will not be returned. Certified or cashier's check, 10%. F. E. Weymouth, General Manager and Chief Engineer. The items are:

- (1) 8 rotary displacement blower units, with motors, control valves, pipe connections, etc.;
- (2) 8 centrifugal compressor units with motors, control valves, pipe connections, etc.;
- (3) services of an erecting engineer (per diem).

SAN FRANCISCO.—Kratz & McClelland, 522 Bryant St., at \$5087.50 f.o.b. Brooklyn, N. Y., awarded contract by Quartermaster Supply Officer, Fort Mason, to furnish one tractor complete with power driven crane.

30—RESERVOIRS & DAMS

MODESTO, Stanislaus Co., Calif.—City council will ask bids at once to construct Lake Modesto Dam, 207-ft. long, weir type, in the Tuolumne river near the new Golden State Highway bridge. Estimated cost, \$12,000. F. J. Rossi, city engineer.

LOS ANGELES, Calif.—Until 10 A. M., April 26, bids will be received by the Metropolitan Water District, 306 W. Third St., Los Angeles, for constructing three 300,000-gal. water reservoirs on the construction supply line of the Colorado River Aqueduct, located in San Bernardino and Riverside Counties. Bids were previously received for this work, bids having been opened April 4 and rejected April 7. Under the present call for bids alternate proposals are being considered for steel tanks, riveted or bolted, in accordance with the specifications for steel tanks prepared by the American Petroleum Institute. The bid schedule follows:

SCHEDULE NO. 1

Construction of three 30,000-gallon Gunited reservoirs.

- (1) 3000 cu. yds. reservoir excava.;
- (2) 2900 cu. ft. Gunite lining in reservoir;
- (3) 3 reservoir roofs.

SCHEDULE NO. 2

Furnishing and erecting three steel tank reservoirs each of not less than 300,000 gallon capacity. (Alternative to Schedule No. 1).

- (4) 3 steel tank reservoirs, complete;
- Plans may be purchased at room 1004, 306 W. Third St., upon payment of \$2. F. E. Weymouth, general manager and chief engineer.

LOS ANGELES, Cal.—Until 2 P. M., May 1, bids will be received by County Supervisors to furnish reinforcing steel for the Outlet tunnel, San Gabriel Dam No. 1. The quantity of steel amounts to 520,000 lbs. to be furnished f.o.b. district yard, Azusa. The items are:

- (1) 105,000 lbs. 1-in. square deformed;
- (2) 225,000 lbs. 1-in. round deformed;
- (3) 180,000 lbs. ½-in. round deformed;

(4) 10,000 lbs. ¾-in. round deformed. E. C. Eaton, County Flood Control Engineer, 202 N. Broadway.

MODESTO, Stanislaus Co., Calif.—Until April 26, 7:30 P. M., bids will be received by H. E. Gragg, city clerk to construct collapsible weir dam across the Tuolumne River at Modesto, involving:

- (1) dam complete;
- (2) furnish and drive all anchor piles, sheet piling and abutment piling, and furnish all stringers and bolts completely fastened to anchor & sheet piling;
- (3) furnish all materials for dam complete;
- (4) labor to construct dam complete;
- (5) furnish pile driver, mechanical shovel and one operator for each piece of equipment. Price per hr. Specifications obtainable from City Engineer Frank J. Rossi. Certified check 10% payable to City of Modesto, required with bid.

31—PIPE LINES & WELLS

WALLA WALLA, Wash.—Until May 5, 2:30 P. M., bids will be received by Supervising Superintendent of Construction, Veterans' Administration Hospital, Palo Alto, Calif., to drill, develop and test deep well at Veterans' Administration Hospital, Pumping Site No. 2, Walla Walla. Specifications obtainable from above. Proposal guarantee 25%.

SAN FRANCISCO—Until May 1, 3 P. M., bids will be received by Public Utilities Commission, Felton Taylor, Secretary, to construct 16-in. cast iron pipe line 19th Ave. and Ulloa St., involving:

- (1) 5700 lin. ft. excav. and backfill, 30x48-in. trench;
- (2) 50 cu. yds. additional excav. and backfill;
- (3) 356 tons install pipe, including fittings and gates;
- (4) 3425 lin. ft. Mineralead joints and fittings.

Specifications obtainable from above office. Estimated cost \$6430.

PASADENA, Los Angeles Co., Calif.—Samuel B. Morris, Water Superintendent, preparing plans for a pipe line to be constructed from the Pine Canyon Dam in San Gabriel Canyon to the Sunset Reservoir in Pasadena. Bids for furnishing and laying the pipe will be called in about 30 days. The line will involve approximately:

95,040 ft. 40-in. welded steel pipe. Alternate proposals will probably be taken on concrete pipe for that portion of the pipe line laid within the Pasadena city limits. The proposed pipe will be constructed of ¼- to ¾-in. plates with longitudinal joints electrically welded with slip type field joints. The pipe is being designed a maximum pressure of 450 ft. head or 180 lbs. pressure. About 5000 ft. of the line will be laid in tunnel. Bids for the drilling of the conduit tunnel are being opened by the city April 25 as previously noted. The pipe line contractor, however, will be required to lay the pipe in the tunnels prepared for him. The remainder of the line will be laid in covered trench. In streets the minimum cover will be 4 ft., in six river crossings 10 ft., and in other rights of way 3 ft.

32—SEWERS & SEWAGE DISPOSAL PLANTS

LOS ANGELES, Cal.—United Concrete Pipe Corp. awarded contract, April 12, at \$22,854.75, for furnishing reinforced concrete pipe for use in the construction of storm drains in

23rd St. bet. Union Ave. and Vermont Ave. The line will be built by force account. Specifications prepared by L. W. Armstrong, engineer of storm drain design.

BERKELEY, Cal.—Until April 25, 10 A. M., bids will be received by Florence E. Turner, City Clerk, to construct sewer from Ashby Ave. to Heinz Ave. in the S. P. Co.'s right-of-way known as Third St., involving:

- (1) 750 lin. ft. 27-in. vit pipe;
- (2) 10 lin. ft. 10-in. do;
- (3) 1 manhole;
- (4) 1 catchbasin;
- (5) 11 cu. yds. class B concrete.

Specifications obtainable from above; certified check 10%.

SAN BERNARDINO, Cal.—Until 7:30 P. M., May 1, bids will be received by city council to furnish miscellaneous equipment for the municipal sewage treatment plant, including improved type of air skimmers. The equipment is to be installed at the new disposal plant on South E St. J. H. Osborn, city clerk. A. H. Lowe, city engineer.

PALO ALTO, Santa Clara Co., Cal.—City council will call election May 9 on \$90,000 bonds to construct sewage disposal system for Palo Alto and Stanford University; the University to pay rent throughout the 30-year bond period.

33—WATER WORKS

ALHAMBRA, Los Angeles Co., Cal.—An election will be held June 6 to vote on a bond issue of \$500,000 for the development of water resources in the Rio Hondo property. The Reconstruction Finance Corp. will be asked to buy the bonds. The funds will be used to finance the drilling of wells and the construction of 4.5 mi. of conduit to the Alhambra city limits.

SAN FRANCISCO—Bryce Plumbing & Heating Co. awarded boiler contract to Babcock & Wilcox Co., 450 Mission St., in connection with Fort Miley Hospital, San Francisco.

MODESTO, Stanislaus Co., Calif.—Until April 26, 7:30 P. M., bids will be received by H. E. Gragg, city clerk to furnish one pump and motor complete. Either vertical turbine or horizontal centrifugal type, 1500-GPM at 177 ft. head, driven by 100-hp. 2300-volt, 3-phase, 60-cycle motor; f.o.b. Modesto. The specifications are obtainable from office of City Engineer Frank J. Rossi. Bidder to show allowance on one 1400-GPM Byron-Jackson pump and one 125-hp. 2300-volt, 3-phase, 60-cycle General Electric motor. Certified check 10% payable to City of Modesto required with bid.

BOULDER CANYON, Nev.—Johnson City Foundry & Machinery Co., Johnson City, Tennessee, at \$17,000 awarded contract by U. S. Bureau of Reclamation, Denver, Colo., under Spec. No. 589-D, for Schedules (1) and (3), to furnish eight 57-in. butterfly valves with operating mechanisms, complete, and eight 24-inch internal differential control valves, complete.

Goslin-Birmingham Mfg. Co., Birmingham, Ala., at \$7,745 under Schedule (2) awarded contract to furnish cast iron pipe, fittings, manholes and trash bar spacer complete.

ALHAMBRA, Los Angeles Co., Cal.—Plans for the proposed development of the water resources of the Rio Hondo property have been announced by the engineers. An election will be

held, as previously noted, on June 6 to vote on a \$500,000 bond issue to provide funds, after which an application will be made to the Reconstruction Finance Corp. to buy the bonds. The property, which embraces 95 acres of water-bearing land, is located at the southeast corner of Rush Ave. and Rosemead Ave., Los Angeles County. The proposed improvements include:

Drilling 2 wells, approx. 400 ft. deep; 25,000 lin. ft. transmission force main involving 18-in. to 24-in. lined cast iron pipe; 10,000,000-gal. reservoir, earth type with poured concrete lining;

Pumping equipment: 2 deep well turbine pumps, 150 H.P. each, to operate against a head of 150 feet; 2 booster pumps, 300 H.P. each, to operate against a total head of 400 ft.

T. B. Downer, City Water Superintendent.

Burns-McDonnell-Smith Corporation, Western Pacific Bldg., 1031 S. Broadway, Los Angeles, consulting engineer.

SONOMA, Sonoma Co., Calif.—City council resolves to authorize Hussey & Belcher, Syndicate Bldg., Oakland, to prepare plans for \$33,000 municipal water system to be discussed at the meeting on April 25.

SAN FRANCISCO—Until May 2, 11 A. M., bids will be received by the Constructing Quartermaster, Ft. Mason, for furnishing and installing two water meters in valve chambers at the Letterman General Hospital, San Francisco. Information on application at above office.

PALO ALTO, Santa Clara Co., Cal. H. C. Miller, Santa Clara, at \$195 (item 1) and \$1,887 (item 2) submitted low bid to Supervising Superintendent of Construction, Veterans' Administration, for (1) razing 100,000 gallon redwood stave water tank, and 100-ft. high supporting tower, and (2) to re-erect 100,000-gal. redwood stave water tank including concrete foundations, new roof for tank and connectig pipes, valves and fittings. Only other bid was submitted by the Clinton Stephenson Const. Co., San Francisco at (1) \$774 (2) \$1,954. A deduction of \$200 was included in the Clinton Stephenson Const. Company's bid if both items awarded.

35—TUNNELS

LOS ANGELES, Cal.—Until 10 A. M., June 12, bids will be received by the Metropolitan Water District, 306 West Third St., Los Angeles, for constructing the Colorado River, Copper Basin, Whipple Mountain and Whitewater Tunnels and appurtenant works of the Colorado River Aqueduct, in accordance with plans and specifications which may be obtained at room 1004, 306 W. Third St., or at the district's office, Banning, upon payment of \$5 per set, not returnable. The first three tunnels are located in the Whipple Mountains, San Bernardino County, 17 to 25 miles northeast of the station of Vidal, on the A. T. & S. F. Ry., and 8 to 14 miles northeast of Parker, Ariz.; the Whitewater tunnels are located about 14 miles east of Banning, Riverside County. The locations along the aqueduct center line are as follows: Colorado River Tunnel Sta. 10+40 to Sta. 66+80; Copper Basin No. 1, Sta. 180+50 to Sta. 188+00; Copper Basin No. 2, Sta. 192+00 to Sta. 308+00; Whipple Mountain, Sta. 352+70 to Sta. 674+60; Whitewater No. 1, Sta. 9661+80 to Sta. 9681+50; Whitewater No. 2, Sta. 9707+00 to Sta. 9787+70. The work to be bid upon consists of the con-

struction of six concrete lined water supply tunnels, divided into schedules as follows

Schedule	Tunnel	Length miles
1 or 2	Colorado River	1.07
3 or 4	Copper Basin No. 1 and east portion Copper Basin No. 2	1.17
5 or 6	Copper Basin No. 2, west portion	1.17
7 or 8	Whipple Mountain, east portion	1.89
9 or 10	Whipple Mountain, central portion	3.18
11 or 12	Whipple Mountain, west portion	1.02
13 or 14	Whitewater Nos. 1 and 2	1.90

Under Schedules 1, 3, 5, 7, 9, 11 and 13 proposals will be received for constructing tunnels with finished interior diameter of 16 ft., and under Schedules 2, 4, 6, 8, 10, 12 and 14, alternative proposals will be received for construction with a diameter of 12 ft. 4 in. F. E. Weymouth, General Manager and Chief Engineer, prepared the plans.

29—STREETS AND HIGHWAYS

BUTTE, NEVADA, YUBA, SIERRA and El Dorado Co., Cal.—Until May 3, 2:30 P. M., bids will be received by C. H. Whitmore, District Engineer, State Highway Commission, 502 State Office Bldg., Sacramento, to treat with asphaltic road Oil as a dust palliative 61.3 mi. existing roadbed. Specifications obtainable from above office. Certified check 10% required with bid.

COCONINO COUNTY, Arizona.—As previously reported, O. F. Fisher, 516 S 7th St., Phoenix, submitted low bid to U. S. Bureau of Public Roads, Phoenix, April 13, at \$6445, for placing subgrade reinforcement on 3.556 miles of Grand Canyon Route No. 10, Grand Canyon National Park, involving:

(1) 5650 cu. yds. subgrade reinf.;
 (2) 8750 cu. yd. mile haul subgrade reinforcement.

The bids and bidders were:

(A) O. F. Fisher.
 (B) H. L. Royden.
 (C) Engineer's estimate.

	(1)	(2)	Total
(A)	\$.80	\$.22	\$6445.00
(B)	.95	.15	6680.00
(C)	.85	.20	6552.50

The engineer recommended that the award be made to the low bidder.

MENDOCINO COUNTY, Cal.—Chas. Kupplinger, Lakeport, at \$3850 submitted low bid to District Engineer, State Highway Commission, San Francisco to treat with asphaltic road oil as a dust palliative 19.7 ml. bet. McDonald and Boonville, involving 1750 bbls. Complete bids follow:

- Chas. Kupplinger, Lakeport, \$2.20; \$3850.
 Pacific Truck Service, San Jose, \$2.33; \$4077.50.
 C. F. Frederickson & Sons, Lower Lake, \$2.34; \$4095.
 Peninsula Paving Co., San Francisco, \$2.47; \$4322.50.
 Highway Builders, Ltd., San Anselmo, \$2.50; \$4375.
 Hein Bros. Basalt Rock Co., and A. Helwig, Petaluma, \$2.54; \$4445.
 Oilfields Trucking Co., Bakersfield, \$2.60; \$4550.
 Bids held under advisement.

PLACER COUNTY, Cal.—Peninsula Paving Co., Standard Oil Bldg., San Francisco, at \$132,831 awarded contract by State Highway Commission to surface with bituminous treated crushed gravel or stone 11.5 ml. between Gold Run and Airport.

VENTURA COUNTY, Cal.—Southwest Paving Company, 711 Lankershim

Bldv., Los Angeles, at \$2584 awarded contract by State Highway Commission for highway oiling between Oxnard and the Santa Clara river bridge, about 2.3 mi. in length, earth shoulders to be treated with fuel oil.

VENTURA COUNTY, Calif.—Southwest Paving Co. 711 Lankershim Blvd. Los Angeles, submitted low bid to the District Engineer, State Highway Commission, Los Angeles, April 12, at \$2584, for highway oiling bet. Oxnard and the Santa Clara river bridge, about 2.3 miles in length, earth shoulders to be treated with fuel oil, involving (1) 1700 barrels 60-70 heavy fuel oil.

The bids were:
 Southwest Paving Co., \$1.52; total \$2584.

Jacob P. Immel, \$1.57; total \$2669.
 Santa Maria Const. Co., \$1.58; total, \$2686.

Square Oil Co., \$1.70; total, \$2890.
 L. A. Briscoe, \$1.79; total \$3043.

Western Motor Transfer Co., Inc., \$1.90; total \$3230.

Oilfields Trucking Co., \$2.21; total,

SAN FRANCISCO—Until April 26, 2:30 P. M., bids will be received by Department of Public Works, S. J. Hester, Secretary, to improve 19th, Yukon to Caselli Sts., involving:

- (1) 1350 cu. yds. embankment;
- (2) 800 ft. conc. curb. unarmored;
- (3) 250 ft. redwood curb;
- (4) 10,200 sq. ft. 6-in. conc. pavement
- (5) 3200 sq. ft. 2-in. asph. conc. pave
- (6) 2840 sq. ft. conc. sidewalk;
- (7) 3130 sq. ft. 1-in. asph. conc. on sidewalk;

- (8) 60 cu. yds. class B conc. in walls;
- (9) 4200 lbs. bar reinf. steel;
- (10) 160 ft. fence, 3-pipe railing;
- (11) 2 concrete fence posts;
- (12) 430 ft. 8-in. V.C.P. sewer;
- (13) 60 ft. 10-in. V.C.P. culvert;
- (14) 2 brick manholes;
- (15) 4 brick catchbasins;
- (16) 21 Y or T branches;
- (17) 275 ft 6-in. V.C.P. side sewer.

Specifications obtainable from office of John J. Casey, City Engineer, 3rd Floor, City Hall. Estimated cost, \$8600.

LOS ANGELES, Calif.—Until 10 A. M., April 26, bids will be received by board of public works for improving Santa Barbara Ave. and other streets in the Santa Barbara Ave. and Crenshaw Blvd. Imp. District, under cash contract, involving:

- (1) grading complete, including removal of existing improvements;
- (2) 126,450 sq. ft. 8-inch Warrenite bitulithic pave. (2-in. Warrenite wear. surf. on 6-in. conc. base);
- (3) 1856 sq. ft. 6-in. asphalt concrete pave. (4-in. asph. conc. base with 2-in. asph. conc. wearing surface);
- (4) 9011 sq. ft. asphalt conc. pave. (variable thickness, average 4½ inch);
- (5) 10,939 sq. ft. Warrenite bitulithic wearing surf. of variable thickness;
- (6) 22,823 sq. ft. 4-in. rock and oil roadway;
- (7) 1322 sq. ft. 8-in. concrete pave., inc. local depressions;
- (8) 919 ft. unplas. heavy curb;
- (9) 1472 sq. ft. 3-in. concrete walk;
- (10) 508 sq. ft. 8-in. concrete gutter;
- (11) 427 sq. ft. 8-in. comb. gutter;
- (12) ornamental lighting system;
- (13) 4 manholes to be reset.

ROCKWELL FIELD, Cal.—Until 11 A. M., May 11, bids will be received by Constructing Quartermaster, Rockwell Field, Coronado, to construct roads and walks at Rockwell Field. Plans obtainable from above office on deposit of \$10

CONTRA COSTA COUNTY, Calif.—Pacific Truck Service, Inc., 646 Park Ave., San Jose, at \$3475 awarded contract by State Highway Commission to apply 2500 barrels of fuel oil to 19 miles of existing roadbed in Mount Diablo Park between Danville and the Summit and between the Forks and Walnut Creek, as a dust palliative.

SANTA ROSA, Sonoma Co., Cal.—Until May 9, 12 M., to be opened at 1:30 P. M., bids will be received by Geo. P. Sanborn, county clerk, to construct seven miles asphaltic oil surfacing from Salmon Creek to Russian River bridge, 5th Supervisorial District, involving:

- (1) 420 barrels light oil;
- (2) 140 tons heavy oil;
- (3) 1100 tons rock;
- (4) 700 tons screenings.

Specifications obtainable from the above and from County Engineer E. A. Feugh.

MERCED COUNTY, Cal.—Until May 10, 2 P. M., bids will be received by State Highway Commission, Sacramento, to grade and pave with Portland cement concrete 0.8 mile Merced River bridge approaches, involving:

- (1) 47 sta. clear and grub right-of-way;
 - (2) 19,500 cu. yds. rdwy. excav., unclass.;
 - (3) 360,000 sta. yds. overhaul;
 - (4) 100 cu. yds. struc. excav.;
 - (5) 9460 sq. yds. subgrade for pave.;
 - (6) 2035 cu. yds. Class A Portland cement concrete (pave.);
 - (7) 5 cu. yds. Class A do (struc.);
 - (8) 41,850 lbs. bar reinf. steel (pave. and struc.);
 - (9) 104 lin. ft. 8-in. corru. metal pipe
 - (10) 92 lin. ft. 12-in. do;
 - (11) 50 lin. ft. 18-in. do;
 - (12) 190 bbls. light fuel oil;
 - (13) 670 bbls. heavy fuel oil;
 - (14) 1200 tons untreated crush. stone or gravel surf. (detours);
 - (15) 1250 tons bit. treated crushed gravel or stone (borders);
 - (16) 1800 M. gals. water;
 - (17) 360 cu. yds. conc. remove from existing pave and dispose of;
 - (18) 0.1 mile existing fences remove and dispose of;
 - (19) 24 guide posts complete in place
 - (20) 1406 lin. ft. laminated timber guard rail;
 - (21) 47 sta. finish roadway;
 - (22) 14 monuments complete in place.
- State will furnish corrugated metal pipe and spillways.

SAN FRANCISCO—Until April 26, 2:30 P. M., bids will be received by Department of Public Works, S. J. Hester, Secretary, to improve Clement St., 40th to 45th Aves., except south half of Clement, 40th to west line 42nd Ave. produced, and except crossing 43rd Ave. and Clement St., involving:

- (1) 18,600 cu. yds. excav.;
 - (2) 60 ft. 8-in. V.C.P. sewer;
 - (3) 860 ft. 12-in. V.C.P. sewer;
 - (4) 40 ft 15-in. do;
 - (5) 11 12x6 Y branches;
 - (6) 3 brick manholes;
 - (7) 175 ft. 6-in. V.C.P. side sewer;
 - (8) 7 brick catchbasins;
 - (9) 2 do., reset;
 - (10) 220 ft. 10-in. V.C.P. culvert;
 - (11) 2056 ft. unarmored concrete curb;
 - (12) 60 ft. concrete curb reset;
 - (13) 1100 sq. ft. 1-course conc. sidewalk;
 - (14) 50 ft. redwood header;
 - (15) 1280 sq. ft. asph. conc. pave., remove and replace;
 - (16) 44,600 sq. ft. asph. conc. pave. 2-in. wearing surf.;
 - (17) 144 ft. armored concrete curb.
- Specifications obtainable from office of John J. Casey, City Engineer, 3rd Floor, City Hall. Estimated cost, \$23,750.

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

IRON MOUNTAIN, COXCOMB & COTTONWOOD TUNNELS—MET. WATER DIST.

LOS ANGELES, Calif.—Low bids submitted to the Metropolitan Water District April 17 for constructing the Iron Mountain, Coxcomb and Cottonwood tunnels, were as follows:

Winston Bros. Co., 418 S Pecan St., Los Angeles (represented by J. C. Agnew, vice-president) on the east portion of the Iron Mountain Tunnel, at \$2,143,799, for full capacity, Sched. No. 1, and at \$1,801,442.50 for half capacity, Schedule No. 2. Winston Bros. were also low on both portions of the Coxcomb Tunnel at figures as follows: East Portion, full capacity, Schedule No. 5, \$799,236.05*, and half capacity, Schedule No. 6, at \$661,224.-28*; West Portion, full capacity, Schedule No. 7, at \$825,279.30*, and half capacity, Schedule No. 8, \$684.-\$69.07*.

*Deductions applied as per stipulations.

Utah Const. Co., 1 Montgomery St., San Francisco, on the West Portion of the Iron Mountain Tunnel, at \$1,699,705, for full capacity, Schedule No. 3, and at \$1,388,695 for half capacity, Schedule No. 4.

J. F. Shea Co., Inc., Boulder City, Nev. (represented by Martin Bros., 227 S Bedford Drive, Beverly Hills) submitted low bid on the Cottonwood Tunnel as follows: East Portion, full capacity, Schedule No. 9, at \$915.-978.50; half capacity, Schedule No. 10, at \$761,295; West Portion, full capacity, Schedule No. 11, at \$912,103.50 and half capacity, Schedule No. 12 at \$760.584.

Stipulations made by bidders as to combinations of schedules and awards which they would accept, shown by the proposals, were as follows:

(A) Winston Bros. Co.—For award of Schedules 5 and 7 together or 6 and 8 together, deduct 7% from prices

bid on Individual schedules. For the award of 9 and 11, or 10 and 12, deduct 1½%. Will accept award for any schedules or combination of schedules, the total of which does not exceed \$3,800,000.

(B) Utah Const. Co.—Will accept either as maximum or as minimum: (a) 1 or 2, East Portion Iron Mountain Tunnel; (b) 3 or 4, West Portion Iron Mountain Tunnel; (c) 5 or 6 and 7 or 8, all of Coxcomb Tunnel; (d) 9 or 10 and 11 or 12, all of Cottonwood Tunnel.

(C) J. F. Shea Co., Inc.—Bid based on taking only one of the following 4 contracts: (1) East Portion of Iron Mountain Tunnel; (2) West Portion of Iron Mountain Tunnel; (3) East and West Portions of Cottonwood Tunnels; and (4) East and West Portions of Coxcomb Tunnel. If awards are to be made to this bidder under any stipulated combination, this bidder will take either the East or West Portion of the Cottonwood with either the east or West Portion of the Coxcomb for the additional sum of \$50,000 to be added on the excavation price on bid on either the East or West Portion of Cottonwood. In no case would bidder take one portion of Cottonwood without one portion of the Coxcomb.

(D) Walsh Const. Co., Davenport, Iowa; 904 Chester Williams Bldg., Los Angeles — Based on following: All work under 1 and 3, or 1, 3, 5 and 7; or 1, 3, 9 and 11.

(E) S. S. Magoffin & Co., Adrian, Ore.—Coxcomb Tunnel: Will not accept any schedule of Cottonwood if either or both portions of Coxcomb are not awarded; if entire Coxcomb is awarded, deduct \$2 from item 6, concrete in tunnel in bore. Cottonwood: If entire Cottonwood Tunnel

is awarded, deduct from item (6) \$1 per cu. yd. for either bore. (This in the event no portion of the Coxcomb is awarded to this bidder.)

(F) Lindgren & Swinerton Associates, Pacific Mutual Bldg., Los Angeles (composed of Alta Electric and Mechanical Co., 4670 O'Farrell Street, San Francisco; Lindgren & Swinerton, Inc., and American Bldg. Maintenance Co., San Francisco, and Los Angeles. Will accept one of following: (a) both or none of Cottonwood, 9 and 11 or 10 and 12; (b) both or none of Coxcomb, 5 and 7 or 6 and 8; (c) East Portion Iron Mountain, 1 or 2; (d) West Portion Iron Mountain, 3 or 4; (e) East and West Portion Iron Mountain, 1 and 3 or 2 and 4. If awarded these combined units, under (e), will deduct \$380,000 from combined total of Schedules 1 and 3, and \$200,000 from combined total of Schedules 2 and 4. Bidder reserves right if low on more than one combination to select his choice.

(G) Silas Mason Co., 701 Spring-Arcade Bldg.—(1) Will accept entire Iron Mountain as an award; (2) will accept Iron Mountain and entire Coxcomb as an award; (3) will accept entire Iron Mountain and entire Cottonwood as an award; (4) will accept entire Iron Mountain, entire Coxcomb and entire Cottonwood as an award; (5) will not accept any other awards than the four outlined above.

(H) Hunkin-Conkey Const. Co., Hunkin-Conkey Bldg., East 12th and Walnut Sts., Cleveland, O.—No stipulations.

(I) Hanrahan Co. and T. E. Connolly, San Francisco, and George G. Pollock, Sacramento—No stipulations.

Complete total bids on each schedule follow:

Sch.	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
(1).....	\$2,143,799.00	\$2,237,660	\$2,214,280.00	\$2,370,900.00	\$.....	\$2,396,295	\$2,429,185	\$.....	\$2,870,150.00
(2).....	1,801,442.50	1,813,705	1,880,313.75	2,134,802.00	.....	2,001,780	1,976,175	.....	2,445,290.00
(3).....	1,834,720.00	1,699,705	1,806,070.00	1,721,101.00	.....	1,909,715	1,920,020	.....	.....
(4).....	1,541,133.50	1,388,695	1,444,167.50	1,548,006.00	.....	1,571,860	1,543,165	.....	.....
(5).....	859,293.60	928,420	847,296.25	754,468.50	885,690.00	888,155	844,940	819,063.00	.....
(6).....	710,993.85	742,717	749,139.75	676,549.60	721,978.50	731,647	693,448	689,316.60	.....
(7).....	887,397.10	962,300	905,396.25	774,931.50	919,255.00	900,220	880,160	.....	.....
(8).....	736,418.35	772,135	795,663.75	692,397.00	751,981.00	744,710	724,152	.....	.....
(9).....	943,297.50	1,045,632	915,978.50	846,340.60	1,082,635.00	1,009,152	989,001	.....	.....
(10).....	785,497.65	839,275	761,295.00	761,405.50	905,391.50	820,810	809,585	.....	.....
(11).....	943,540.00	1,043,562	912,103.50	845,981.60	1,082,437.50	1,009,762	989,186	.....	.....
(12).....	785,785.15	837,603	760,584.00	758,986.40	905,464.00	754,563	809,024	.....	.....

Quantities follow:

SCHEDULE NO. 1

Construction of the East Portion, Iron Mountain Tunnel. Length 23,633 feet. Diameter 16 feet, 0 inches, together with appurtenant works.

NOTE: Schedules 1 and 2 are alternative and both will not be awarded. A proposal under Schedule 1 will not be considered unless the bidder submits a proposal under Schedule 2 also. No bid will be considered for less than all the items of a schedule.

- (1) tunnel access work (lump sum);
- (2) does not apply here;
- (3) 256,000 cu. yds. excav. in tunnel;
- (4) 100 cu. yds. excav. for tunnel enlargement;
- (5) does not apply here;
- (6) 66,400 cu. yds. conc. in tunnel;
- (7) 110 M. ft. b.m. furnish and place permanent timbers in tunnel;

- (8) 48 tons erecting steel support in tunnel;

- (9) 100 cu. yds. gunite coating of rock in tunnel;

- (10) 50 connections for grouting;
- (11) 90 cu. yds. mix and place grout;
- (12) 75,000 lbs. place reinf. steel;
- (13) 14,000 cu. yd. miles overhaul of concrete aggregates;
- (14) 1500 ton miles hauling steel;
- (15) 285,000 ton miles hauling cement.

SCHEDULE NO. 2

Construction of the East Portion, Iron Mountain Tunnel. Length 23,633 feet. Diameter 14 feet, 4 inches, together with appurtenant works.

NOTE: Schedules 1 and 2 are alternative and both will not be awarded. A proposal under Schedule 2 will not be considered unless the bidder submits a proposal under Schedule 1 also. No bid will be considered for

less than all the items of a schedule.

- (1) tunnel access work (lump sum);
- (2) does not apply here;
- (3) 163,000 cu. yds. excav. in tunnel;
- (4) 75 cu. yds. excav. for tunnel enlargement;
- (5) does not apply here;
- (6) 51,850 cu. yds. conc. in tunnel;
- (7) 60 M. ft. b.m. furnish and place permanent timbers in tunnel;
- (8) 39 tons erect steel support in tunnel;
- (9) 75 cu. yds. gunite coating of rock in tunnel;
- (10) 30 connections for grouting;
- (11) 60 cu. yds. mix and place grout;
- (12) 60,000 lbs. place reinf. steel;
- (13) 11,000 cu. yd. miles overhaul of concrete aggregates;
- (14) 1200 ton miles hauling steel;
- (15) 223,000 ton miles hauling cement.

SCHEDULE NO. 3

Construction of the **West Portion, Iron Mountain Tunnel**, Length, 16,172 feet. Diameter 16 feet, 0 inches, together with appurtenant works.

NOTE: Schedules 3 and 4 are alternative and both will not be awarded. A proposal under Schedule 3 will not be considered unless the bidder submits a proposal under Schedule 4 also. No bid will be considered for less than all the items of a schedule.

- (1) tunnel access work (lump sum);
- (2) does not apply here;
- (3) 180,000 cu. yds. excav. in tunnel;
- (4) 100 cu. yds. excav. for tunnel enlargement;
- (5) does not apply here;
- (6) 46,600 cu. yds. concrete in tunnel;
- (7) 550 M. ft. b.m. furnish and place permanent timbers in tunnel;
- (8) 143 tons erect steel support in tunnel;
- (9) 300 cu. yds. gunite coating of rock in tunnel;
- (10) 30 connections for grouting;
- (11) 60 cu. yds. mix and place grout;
- (12) 75,000 lbs. place reinf. steel;
- (13) 10,000 cu. yd. miles overhaul of concrete aggregates;
- (14) 4600 ton miles hauling steel;
- (15) 297,000 ton miles hauling cement.

SCHEDULE NO. 4

Construction of the **West Portion, Iron Mountain Tunnel**, Length, 16,172 feet. Diameter 12 feet, 4 inches, together with appurtenant works.

NOTE: Schedules 3 and 4 are alternative and both will not be awarded. A proposal under Schedule 4 will not be considered unless the bidder submits a proposal under Schedule 3 also. No bid will be considered for less than all the items of a schedule.

- (1) tunnel access work (lump sum);
- (2) does not apply here;
- (3) 116,000 cu. yds. excav. in tunnel;
- (4) 75 cu. yds. excav. for tunnel enlargement;
- (5) does not apply here;
- (6) 35,950 cu. yds. conc. in tunnel;
- (7) 290 M. ft. b.m. furnish and place permanent timbers in tunnel;
- (8) 117 tons erecting steel support in tunnel;
- (9) 175 cu. yds. gunite coating of rock in tunnel;
- (10) 0 connections for grouting;
- (11) 40 cu. yds. mix and place grout;
- (12) 60,000 lbs. place reinf. steel;
- (13) 7800 cu. yd. miles overhaul of concrete aggregates;
- (14) 3700 ton miles hauling steel;
- (15) 229,000 ton miles hauling cement.

SCHEDULE NO. 5

Construction of **East Portion, Coxcomb Tunnel**, length 8765 feet. Diameter, 16 feet, 0 inches, together with appurtenant works.

NOTE: Schedules 5 and 6 are alternative and both will not be awarded. A proposal under Schedule 5 will not be considered unless the bidder submits a proposal under Schedule 6 also. No bid will be considered for less than all the items of a schedule.

- (1) does not apply here;
- (2) 13,000 cu. yds. excavation in approach cut;
- (3) 95,000 cu. yds. excav. in tunnel;
- (4) 75 cu. yds. excavation for tunnel enlargement;
- (5) 950 cu. yds. concrete in approach section;
- (6) 24,600 cu. yds. concrete in tunnel;
- (7) 33 M. ft. b.m. furnish and place permanent timbers in tunnel;
- (8) 19 tons erecting steel support in tunnel;
- (9) 75 cu. yds. gunite coating of rock in tunnel;
- (10) 20 connections for grouting;
- (11) 40 cu. yds. mix and place grout;
- (12) 30,000 lbs. place reinf. steel;
- (13) 22,000 cu. yd. miles overhaul of concrete aggregates;
- (14) 1100 ton miles hauling steel;
- (15) 200,000 ton miles hauling cement.

SCHEDULE NO. 6

Construction of **East Portion, Coxcomb Tunnel**, length 8765 feet. Diameter, 12 feet, 4 inches, together with appurtenant works.

NOTE: Schedules 5 and 6 are alternative and both will not be awarded. A proposal under Schedule 6 will not be considered unless the bidder submits a proposal under Schedule 5 also. No bid will be considered for less than all the items of a schedule.

- (1) does not apply here;
- (2) 12,000 cu. yds. excavation in approach cut;
- (3) 61,000 cu. yds. excav. tunnel;
- (4) 50 cu. yds. excav. for tunnel enlargement;
- (5) 600 cu. yds. concrete in approach section;
- (6) 19,200 cu. yds. concrete in tunnel;
- (7) 17 M. ft. b.m. furnish and place permanent timbers in tunnel;
- (8) 15 tons erect steel support in tunnel;
- (9) 50 cu. yds. gunite coating of rock in tunnel;
- (10) 15 connections for grouting;
- (11) 25 cu. yds. mix and place grout;
- (12) 20,000 lbs. place reinf. steel;
- (13) 17,200 cu. yd. mile overhaul of concrete aggregates;
- (14) 810 ton miles hauling steel;
- (15) 156,000 ton miles hauling cement.

SCHEDULE NO. 7

Construction of the **West Portion, Coxcomb Tunnel**, length 8765 feet. Diameter 16 feet, 0 inches, together with appurtenant works.

NOTE: Schedules 7 and 8 are alternative and both will not be awarded. A proposal under Schedule 7 will not be considered unless the bidder submits a proposal under Schedule 8 also. No bid will be considered for less than all the items of a schedule.

- (1) does not apply here;
- (2) 39,000 cu. yds. excav. approach cut;
- (3) 95,000 cu. yds. excav. in tunnel;
- (4) 75 cu. yds. excav. tunnel enlargement;
- (5) 1650 cu. yds. concrete approach section;
- (6) 24,600 cu. yds. concrete in tunnel;
- (7) 33 M. ft. b.m. furnish and place permanent timbers in tunnel;
- (8) 19 tons erect steel support in tunnel;
- (9) 75 cu. yds. gunite coat of rock in tunnel;
- (10) 20 connections for grouting;
- (11) 40 cu. yds. mix and place grout;
- (12) 30,000 lbs. place reinf. steel;
- (13) 6000 cu. yd. miles overhaul concrete aggregate;
- (14) 1400 ton miles hauling steel;
- (15) 261,000 ton mile hauling cement.

SCHEDULE NO. 8

Construction of the **West Portion, Coxcomb Tunnel**, length 8765 feet. Diameter 12 feet, 4 inches, together with appurtenant works.

NOTE: Schedules 7 and 8 are alternative and both will not be awarded. A proposal under Schedule 8 will not be considered unless the bidder submits a proposal under Schedule 7 also. No bid will be considered for less than all the items of a schedule.

- (1) does not apply here;
- (2) 35,000 cu. yds. excav. approach cut;
- (3) 61,000 cu. yds. excavation in tunnel;
- (4) 50 cu. yds. excavation for tunnel enlargement;
- (5) 1200 cu. yds. concrete in approach section;
- (6) 19,200 cu. yds. concrete in tunnel;
- (7) 17 M. ft. b.m. furnish and place permanent timbers in tunnel;
- (8) 15 tons erect steel support in tunnel;
- (9) 50 cu. yds. gunite coat rock in tunnel;
- (10) 15 connections for grouting;

- (11) 25 cu. yds. mix and place grout;
- (12) 20,000 lbs. place reinf. steel;
- (13) 4700 cu. yds. mile overhaul of concrete aggregates;
- (14) 1100 ton mile hauling steel;
- (15) 204,000 ton mile hauling cement.

SCHEDULE NO. 9

Construction of the **East Portion, Cottonwood Tunnel**, length 10,044 ft. Diameter 16 feet 0 inch, together with appurtenant works.

NOTE: Schedules 9 and 10 are alternative and both will not be awarded. A proposal under Schedule 9 will not be considered unless the bidder submits a proposal under Schedule 10 also. No bid will be considered for less than all the items of a schedule.

- (1) does not apply here;
- (2) 16,000 cu. yds. excav. approach cut;
- (3) 108,000 cu. yds. excavation tunnel;
- (4) 75 cu. yds. excavation for tunnel enlargement;
- (5) 1200 cu. yds. concrete for approach section;
- (6) 28,200 cu. yds. concrete in tunnel;
- (7) 50 M. ft. b.m. furnish and place permanent timbers in tunnel;
- (8) 10 tons erecting steel support in tunnel;
- (9) 50 cu. yds. gunite coat of rock in tunnel;
- (10) 25 connections for grouting;
- (11) 50 cu. yds. mix and place grout;
- (12) 50,000 lbs. place reinf. steel;
- (13) 7000 cu. yds. mile overhaul concrete aggregate;
- (14) 760 ton mile haul steel;
- (15) 160,000 ton mile hauling cement.

SCHEDULE NO. 10

Construction of the **East Portion, Cottonwood Tunnel**, length 10,044 ft. Diameter 12 feet, 4 inches, together with appurtenant works.

NOTE: Schedules 9 and 10 are alternative and both will not be awarded. A proposal under Schedule 10 will not be considered unless the bidder submits a proposal under Schedule 9 also. No bid will be considered for less than all the items of a schedule.

- (1) does not apply here;
- (2) 14,000 cu. yds. excav. approach cut;
- (3) 70,000 cu. yds. excavation in tunnel;
- (4) 50 cu. yds. excavation for tunnel enlargement;
- (5) 750 cu. yds. concrete approach section;
- (6) 22,000 cu. yds. concrete in tunnel;
- (7) 27 M. ft. b.m. furnish and place permanent timbers in tunnel;
- (8) 8 tons erecting steel support in tunnel;
- (9) 35 cu. yds. gunite coat of rock in tunnel;
- (10) 15 connections for grouting;
- (11) 35 cu. yds. mix and place grout;
- (12) 35,000 lbs. place reinf. steel;
- (13) 5500 cu. yds. mile overhaul concrete aggregates;
- (14) 550 ton mile haul steel;
- (15) 125,000 ton mile hauling cement.

SCHEDULE NO. 11

Construction of the **West Portion, Cottonwood Tunnel**, length 10,044 ft. diameter 16 feet, 0 inch, together with appurtenant works.

NOTE: Schedules 11 and 12 are alternative and both will not be awarded. A proposal under Schedule 11 will not be considered unless the bidder submits a proposal under Schedule 12 also. No bid will be considered for less than all the items of a schedule.

- (1) does not apply here;
- (2) 16,000 cu. yds. excava. for approach cut;
- (3) 108,000 cu. yds. excav. in tunnel;
- (4) 75 cu. yds. excav. for tunnel enlargement
- (5) 1400 cu. yds. concrete for approach section;
- (6) 28,200 cu. yds. concrete in tunnel;

- (7) 50 M. ft. h.m. furnish and place permanent timbers in tunnel;
- (8) 10 tons erecting steel support in tunnel;
- (9) 50 cu. yds. gunite coat rock in tunnel;
- (10) 25 connections for grouting;
- (11) 50 cu. yds. mix and place grout;
- (12) 50,000 lbs. place reinf. steel;
- (13) 7000 cu. yds. mile overhaul concrete aggregate;
- (14) 610 ton mile haul steel;
- (15) 128,000 ton mile haul cement.

SCHEDULE NO. 12

Construction of the West Portion, Cottonwood Tunnel, length 10,044 ft., diameter 12 feet, 4 inches, together with appurtenant works.

NOTE: Schedules 11 and 12 are alternative and both will not be awarded. A proposal under Schedule 12 will not be considered unless the bidder submits a proposal under Schedule 11 also. No bid will be considered for less than all the items of a schedule.

- (1) does not apply here;
- (2) 14,000 cu. yds. excav. approach cut
- (3) 70,000 cu. yds. excavation in tunnel;
- (4) 50 cu. yds. excavation for tunnel enlargement;
- (5) 900 cu. yds. concrete approach section;
- (6) 22,000 cu. yds. concrete in tunnel;
- (7) 27 M. ft. h.m. furnish and place permanent timbers in tunnel;
- (8) 8 tons erecting steel support in tunnel;
- (9) 25 cu. yds. gunite coat rock in tunnel;
- (10) 15 connections for grouting;
- (11) 35 cu. yds. mix and place grout;
- (12) 25,000 lbs. place reinf. steel;
- (13) 5500 cu. yds. mile overhaul concrete aggregate;
- (14) 440 ton mile haul steel;
- (15) 100,000 ton mile haul cement.

MARTINEZ, Contra Costa Co., Cal.—Ferd Stann, Antioch, at \$3579.05 awarded contract by county supervisors to construct reinforced concrete culvert under spill on Poad D-17, Supervisor's District No. 4, about 2.5 mi.

southwest of Antioch, involving:

- (1) 241 cu. yds. concrete;
 - (2) 37,498 lbs. reinf. steel.
- Complete bids follow:
- (A) Ferd Stann, Antioch\$3579.05
 - (B) Lee J. Immel, Berkeley.... 3784.45
 - (C) H. Finnigan, Sacto..... 3872.47
 - (D) J. H. Filtzmaurice, Oakland 3923.15
 - (E) J. N. Kristich, Knightsen.. 3941.94
 - (F) Bundesen & Lauritzen, Pittsburg4069.14
 - (G) E. T. Lesure, Oakland..... 4,143.80
 - (H) Joe M. Cesa, Pittsburg..... 4251.20
 - (I) F. Kaus, Stockton..... 4,279.88
 - (J) Whited & Whited, Santa Rosa4287.35
 - (K) W. E. Lyons, Oakland..... 4394.20
 - (L) G. E. Senno, Pittsburgh.... 4538.78
 - (M) T. C. Tunsen, Modesto.... 4,559.19
 - (N) C. A. Jeffers, Martinez.... 4664.14
 - (O) Martin Murphy, Berkeley.... 5263.40

Unit bids follow:

	(1)	(2)
(A).....	\$11.35	.0225
(B).....	12.00	.0238
(C).....	9.16	.0444
(D).....	12.70	.023
(E).....	12.00	.028
(F).....	12.45	.0285
(G).....	13.60	.0231
(H).....	13.75	.025
(I).....	13.48	.0275
(J).....	13.90	.025
(K).....	14.25	.0256
(L).....	15.13	.0238
(M).....	14.25	.03
(N).....	14.50	.0312
(O).....	17.95	.025

FRESNO COUNTY, Calif.—Union Paving Co., Call Bldg., San Francisco, at \$31,543.55 submitted low bid April 19 to State Highway Commission, Sacramento, to grade and pave with asphalt concrete 0.7 miles between Church Ave. and California Ave. in Fresno, involving:

- (1) 3070 cu. yds. rdwy. excav., unclass.;
- (2) 20,060 sta. yds. overhaul;
- (3) 2430 cu. yds. imported borrow;
- (4) 310 cu. yds. struc. excav.;
- (5) 12,880 sq. yds. subgrade for pave.;
- (6) 5560 tons asphalt concrete;
- (7) 50 cu. yds. class A Portland cement concrete (struc.);
- (8) 1500 lbs. bar reinf. steel (struc.);
- (9) 360 lin. ft. 18-in. corr. metal pipe

- (10) 8 concrete joints complete in place;
- (11) 60 cu. yds. drainage sumps;
- (12) 90 cu. yds. Portland cement concrete to be removed;
- (13) 380 M. gals. water;
- (14) 1035 bbls. fuel oil;
- (15) 38 sta. finish roadway.

Complete bids follow:

- (A) Union Paving Co., San Francisco, \$31,543.55.
- (B) Valley Paving and Concrete Co., \$32,789.70.

Unit bids follow:

	(A)	(B)
(1).....	\$.40	\$.60
(2).....	.02	.01
(3).....	.60	.50
(4).....	1.50	1.00
(5).....	.10	.07
(6).....	3.96	4.25
(7).....	18.00	20.00
(8).....	.05	.04
(9).....	.60	.50
(10).....	5.00	1.00
(11).....	2.00	1.00
(12).....	4.00	2.50
(13).....	1.00	.50
(14).....	2.25	2.50
(15).....	7.00	10.00

SAN MATEO, Cal.—H. E. Casey Co., 307 B St., San Mateo, at \$733.60 awarded contract by city council for street maintenance work consisting of scarifying and applying oil rock to a depth of 2-in., and rock dust, on Peninsula Ave. to a width of 20 ft., Maple St., 16 ft. and Lawrence Lane, 21 ft., involving:

- (1) 6270 sq. yds. scarifying;
- (2) 4700 gal. road oil;
- (3) 75 cu. yds. rock dust;
- (4) 250 cu. yds. rock.

Complete bids follow:

- (A) H. E. Casey, San Mateo, \$733.60;
- (B) W. O. Tyson, Redwood City, \$850.38.
- (C) Peninsula Paving Co., San Francisco, \$1015.40.
- (D) Guerin Bros., S. F., \$1081.46.

Unit bids follow:

	(A)	(B)	(C)	(D)
(A).....	\$.03	\$.04	\$1.10	\$1.10
(B).....	.0225	.034	1.66	1.70
(C).....	.025	.042	1.75	2.12
(D).....	.0167	.04	1.85	2.60

CRYSTAL SPRINGS EXTENSION—SAN FRANCISCO

SAN FRANCISCO.—G. W. Williams Co., Ltd., 315 Primrose Road, Burlingame, at \$22,500 submitted low bid April 12 to Public Utilities Commission, to construct the Crystal Springs Pumping Station extension, San Francisco Water Department Contract No. 32, involving:

- (1) Remove existing structures (lump sum);
- (2) 900 cu. yds. excav., all classes;
- (3) 150 cu. yds. concrete;
- (4) 5,000 lbs. reinf. steel in place;
- (5) 45,000 lbs. furnish and install welded steel pipe and fittings;
- (6) 3000 lbs. furnish and install cast steel fittings;
- (7) 5000 lbs. do semi-steel fittings;

- (8) install pumps, motors, valves & furnish and install misc. equip. (lump sum);
- (9) 130 lin. ft. furnish and install 12-in. cast iron drain pipe;
- (10) 50 lin. ft. 6-in. soil pipe;
- (11) 600 lin. ft. 4-in. do;
- (12) furnish and install septic tank (lump sum);
- (13) 110 lin. ft. furnish and install pipe railing;
- (14) electrical work, install equipment, furnished by the City and all other electrical equip. (lump sum);
- (15) construct extension to pumping station building stations and alter and repair existing building (lump sum).

Complete bids follow:

- (A) G. W. Williams Co., Ltd., Burlingame, \$22,500.
- (B) Baldwin & Butler, Berkeley, \$23,726.00.
- (C) Atlas Electric Co., San Francisco, \$24,230.60.
- (D) C. A. Bruce & Sons, Pleasanton, \$24,487.
- (E) F. C. Amoroso & Sons, San Francisco, \$25,493.49.
- (F) H. H. Larsen, San Francisco, \$25,680.
- (G) Youdall Const. Co., San Francisco, \$26,304.
- (H) H. C. Vensano, San Francisco, \$30,585.

Unit bids follow:

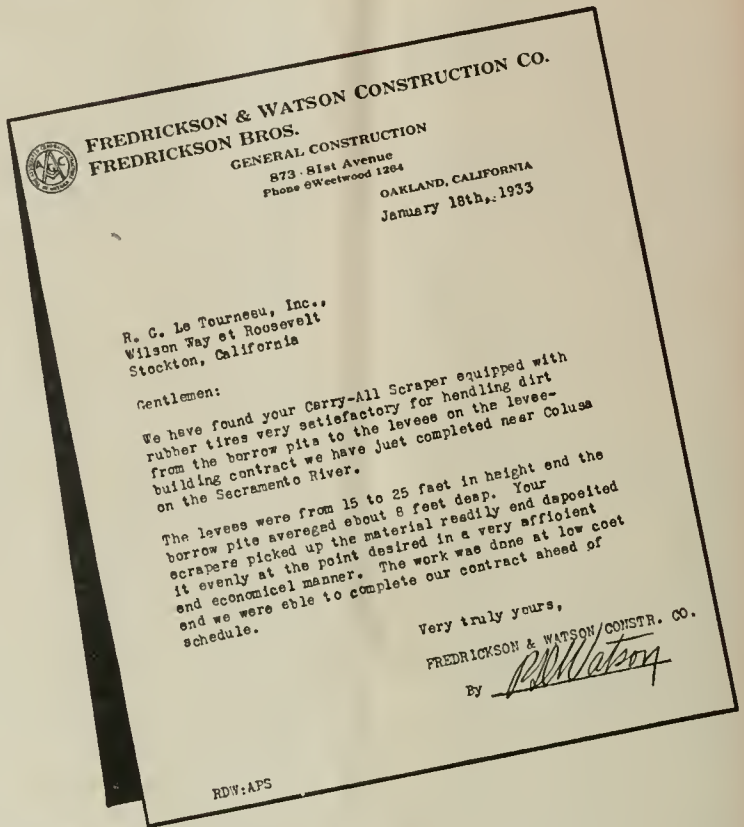
	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
(1).....	\$ 175.00	\$ 390.00	\$ 260.00	\$1000.00	\$ 323.00	\$ 450.00	\$ 800.00	\$ 700.00
(2).....	.90	.90	.88	1.00	.70	2.44	2.00	2.50
(3).....	13.75	14.90	17.50	18.00	16.00	16.45	18.40	16.00
(4).....	.03	.03	.055	.035	.04	.035	.04	.04
(5).....	.11	.115	.11	.1125	.1145	.1175	.11	.12
(6).....	.26	.30	.32	.18	.1525	.285	.20	.24
(7).....	.18	.13	.15	.11	.1025	.128	.18	.15
(8).....	350.00	1045.00	1210.00	1700.00	2867.00	900.00	1200.00	2560.00
(9).....	3.00	2.70	2.87	2.40	2.788	2.80	2.30	4.00
(10).....	1.00	1.00	1.12	.90	1.529	.90	1.10	1.00
(11).....	.38	.46	.70	.35	.541	.43	.50	.67
(12).....	110.00	100.00	121.00	100.00	280.00	120.00	120.00	100.00
(13).....	1.50	2.00	1.35	1.75	1.50	1.20	2.00	1.25
(14).....	6900.00	6274.00	6090.00	7000.00	7383.50	7590.00	6600.00	9050.00
(15).....	4570.00	5100.00	4200.00	4000.00	4359.00	4200.00	5500.00	5645.50

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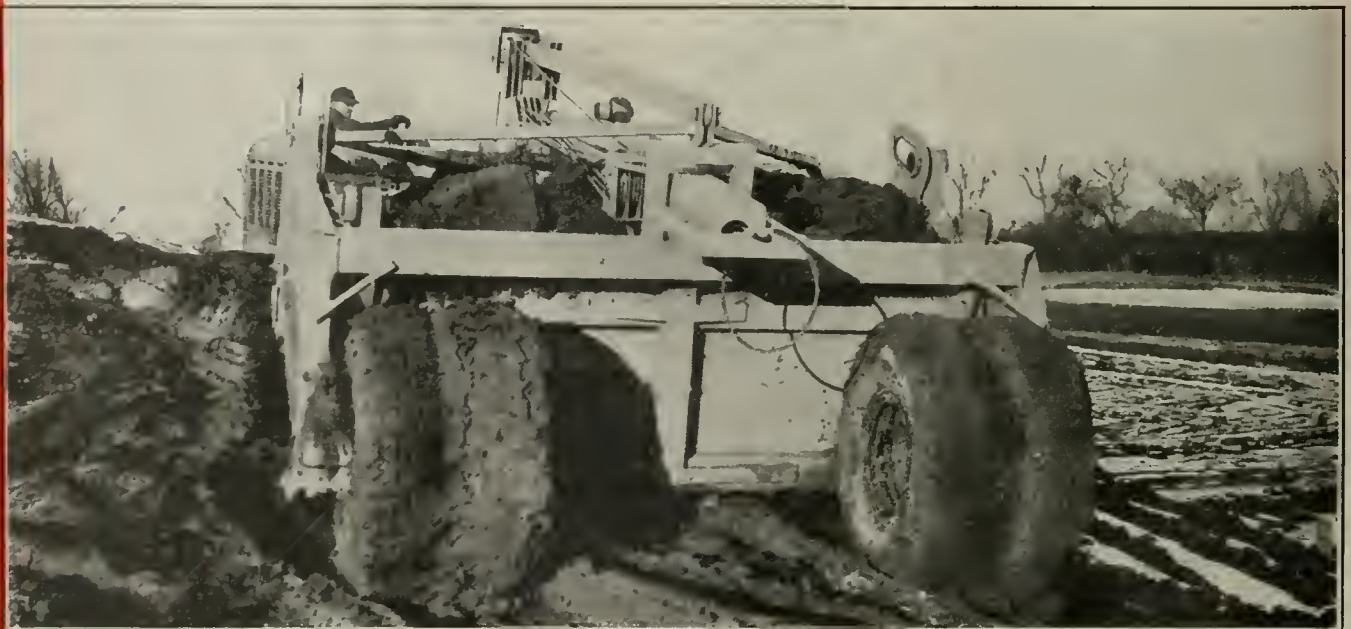
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Le Tourneau Scraper on Highway Contract Near Minter City, Mississippi

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SKILL - INTEGRITY



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IN THIS ISSUE



NEW BIDS CALLED ON S. F. JAIL

STATE REAL ESTATE MORATORIUM INVALID

LOS ANGELES BUILDERS' EXCHANGE
REORGANIZES

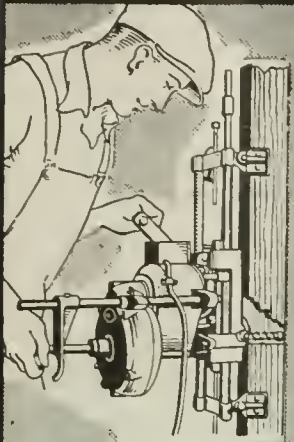
\$62,000,000 BAY BRIDGE BONDS SOLD

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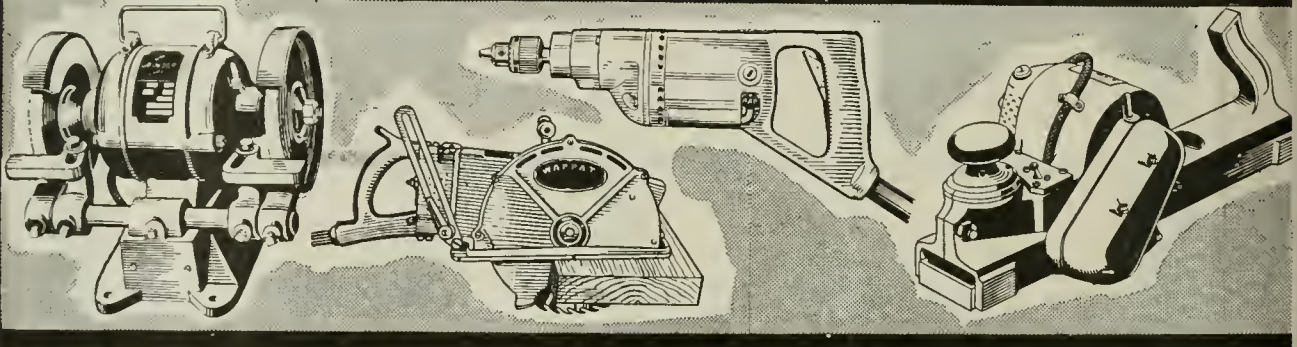
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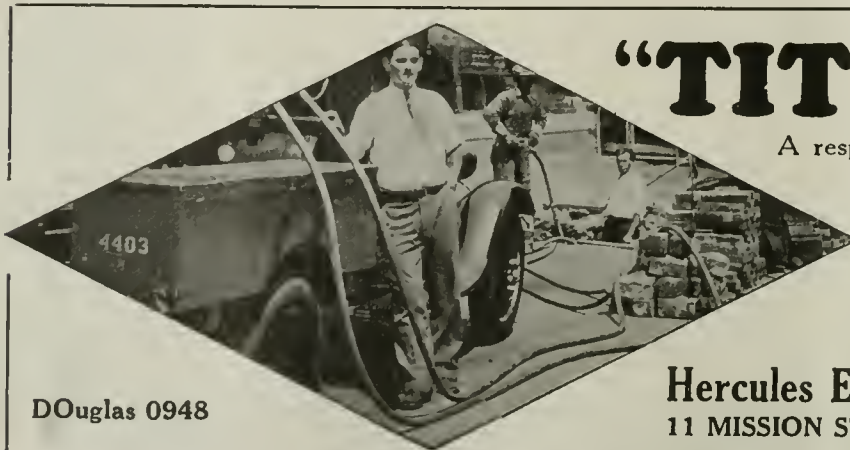
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PACIFIC CONSTRUCTOR

With which is Consolidated Building and Engineering News

Official Publication of the Associated General Contractors of America
for the Eleven Pacific Coast States

SAM B. EUBANKS, *Editor*

Vol. XVI

SAN FRANCISCO, CALIF., APRIL 29, 1933

No. 15

NEW JAIL BIDS ARE CALLED BY S. F. WORKS BD.

Reject Original Proposals As
Excessive; Set May 5
For Opening

Acting on the last day on which an award could be made the San Francisco board of public works yesterday voted to reject all bids received April 12 for the new San Francisco county jail. New proposals will be received May 5.

Anderson & Ringrose, San Francisco, had submitted the low bid at \$403,988, exceeding by approximately \$38,000 the estimated cost.

The bids have been held under advisement for two weeks while the board studied the possibility of awarding the contract less certain alternates and readvertising a portion of the work. This plan was abandoned after conferences with the city attorney.

BRIDGE BOND SALE APPROVED BY COURT

Legality of the sale of bonds of the Golden Gate Bridge District at a price to yield more than 5 per cent has been upheld in a decision of the state supreme court.

The ruling clears the way for sale of all the bonds authorized and assures continued financing for the project, directors said. The test case was created by refusal of William P. Filmer and W. W. Felt, Jr., president and secretary of the board, to sign a block of \$200,000 worth of bonds on which a bid had been received that would increase the interest rate to 5¼ per cent.

The bonds bear a coupon interest rate of 4¾ per cent but the sale, below face value, would make the actual yield 5¼ per cent. The authorization of voters of the district was that the interest rate on the \$35,000,000 bond issue should not exceed 5 per cent.

In its decision the court held that the provision of the authorization limiting the interest rate to 5 per cent must be held to apply to the coupon rate—not to the possible yield in the event the bonds should be sold below par. Chief Justice Wm. H. Waste wrote the opinion.

THE WEEK'S NEWS Highlights

BRIDGE AWARDS. Award of six major contracts on the San Francisco-Oakland bay crossing was approved by the California Toll Bridge Authority following sale of \$62,050,000 worth of revenue bonds, which will finance the project. Awards total \$36,841,315.48. Construction is to be started within 60 days.

JAIL BIDS. San Francisco Board of Public Works voted to reject all bids received on the new county jail as excessive. New bids will be received at 11:30 a. m., May 5, on the general contract and separate bids on equipment; bids on mechanical and electrical work will be opened at 2:30 p. m., May 3, as previously advertised.

PLAN POWER LINE. Los Angeles Power and Light Department is completing plans for the 271-mile transmission line that will carry electric power from the Boulder Dam to the metropolitan area. Reconstruction Finance Corporation has authorized loan of \$22,000,000 to finance it. Bids probably will be taken on alternate copper and aluminum specifications for 13,500 tons of wire to be used.

REVENUE BONDS. Financing for many municipal and district waterworks and sewage projects would be expedited by adoption of the revenue bond enabling act, which has been approved by the Assembly. The act faces a fight in the Senate, however, by private financial interests, which contend it would extend the bonding authority of political subdivisions to a point that might increase burdens of the taxpayer.

R. F. C. CONFIRMS BAY BRIDGE BOND SALE AGREEMENT

Telegram Advises Governor
Securities to \$61,400,000
Will Be Purchased

SACRAMENTO, April 27.—The largest transaction to take place in the United States today was consummated here when the Reconstruction Finance Corporation this afternoon fulfilled its contract to purchase San Francisco-Oakland Pay Bridge bonds of the California Toll Bridge Authority in an amount not to exceed "\$61,400,000."

The bid was in the form of a telegram to Governor James Rolph, Jr., Chairman of the California Toll Bridge Authority, from Harry A. Mulligan, Treasurer of the Reconstruction Finance Corporation. Bids on this block of bonds, and the \$650,000 worth of bridge bonds, were received by State Director of Public Works, Earl Lee Kelly.

A syndicate of San Francisco banks, consisting of the Bank of California, American Trust Company, Crocker First National Bank, the Wells Fargo and Union Trust Co., the Anglo-California Bank, and the Bank of America, was sold the \$650,000 worth of Series A bridge bonds, each bank taking \$108,000 worth except the Bank of America, which took \$110,000 worth of the bonds.

At two o'clock State Director of Public Works Kelly announced that bids would be received for the \$650,000 worth of bridge bonds, this money to be used to repay the State of California for the preliminary engineering costs of the bridge. Harry Erskine, representing the syndicate of San Francisco banks, presented a contract offering to purchase the bonds.

At two-thirty o'clock Director Kelly received a telegram, addressed to Governor Rolph from the Reconstruction Finance Corporation, offering to purchase the \$61,400,000 block of bonds at face value and to forward the money for the same as it was needed for structural purposes.

A meeting of the California Toll Bridge Authority was immediately called by Governor Rolph and it was unanimously voted to accept those bids for these bonds, and the largest single sale in the United States today was consummated.

NEW ORDINANCE FOR INSPECTION NOW EFFECTIVE

Penalties Fixed for Failure to Obtain Appliance Permit

Heavy penalties are provided for evasion of the new boiler and steam pressure inspection ordinance, recently enacted by the San Francisco board of supervisors, according to S. J. Rosenblum, chief clerk of the Central Permit Bureau.

The fees specified in the ordinance are increased 500 percent in each instance if appliances are installed without complying with the new act. Applications for boiler inspection prior to the installation and operation of any pressure vessel must be filed at the Central Permit Bureau, Room 267, City Hall.

The fee scale is as follows:

- (1) For high-pressure fire-tube boilers:
 - Dia. of 12-in. or less.....\$ 2.00
 - Dia. of more than 12-in., but less than 20-in. 5.00
 - Dia. of 20-in. or more, but less than 42-in. 7.00
 - Dia. of 42-in. or more..... 10.00
- (2) For high-pressure water-tube boilers:
 - Less than 300 sq. ft. of heating surface 8.00
 - Single drum, 300 sq. ft. or more but less than 5000 sq. ft. of heating surface 14.00
 - More than one drum, 300 sq. ft. or more, but less than 5000 sq. ft. of heating surf..... 20.00
 - 5000 sq. ft. or more of heating surface 100.00
- (3) For low-pressure steam boilers 4.00
- (4) For direct-fired hot-water heaters 4.00
- (5) For indirect-heated hot-water tanks:
 - Capacity of 100 gals. or less..... 3.00
 - Capacity of more than 100 gals. but less than 250 gals..... 4.00
 - Capacity of 250 gals. or more.... 5.00
- (6) For pressure tanks:
 - Dia. of 36-in. or less..... 3.00
 - Dia. of more than 36-in..... 5.00

CONTRACTOR IS NEW BAKERSFIELD MANAGER

Fred W. Nighbert, Bakersfield road contractor, has been appointed city manager of Bakersfield to succeed W. D. Clarke who was removed by a vote of the new city council. Clarke was city engineer for eight years prior to becoming city manager.

Nighbert served as street inspector for the city in 1915, later leaving the city service to engage in private business as a contractor.

CONTRACTORS SUED FOR CROP DAMAGE

Two suits seeking a total of \$6,700 as damages to fruit crops resulting from dust that covered the crops during construction of the new highway link between Fairfield and Cordelia have been filed in Solano county superior court.

The actions are brought by Wm. L. Russell and Mr. and Mrs. J. N. Valine. Defendants in the suit are the contractors, D. McDonald and N. M. Ball.

Russell seeks a total of \$3,000 in damages while Mr. and Mrs. J. N. Valine ask \$3,700.

Both suits contend that between May 4, 1932, and November 22, 1932, defendants constructed a paved highway over lands adjacent to the property of plaintiffs. It is charged that during construction of the highway great volumes of dust were caused to rise in the air and that the contractors failed to wet the ground to prevent this dust or to take any precautions. Clouds of dust were daily carried by the winds to the adjoining property, it is charged, where it settled upon the trees and fruit, causing the fruit to be of inferior quality and rendering it unmarketable except at greatly reduced prices.

The suits also charge that the dust damaged the growth of the trees and set back the growth and development of the leaves and buds.

LeTOURNEAU REPORTS SALE OF 22 UNITS

Shipment of 14 grading tools and 8 power control units in one week is reported by R. G. LeTourneau, Stockton, manufacturer of heavy grading equipment.

The following orders were included in the week's business:

S. H. Palmer & J. P. Holland, Inc., Los Angeles—1 bulldozer and 1 power unit.

McKinley & Page, Los Angeles—1 Carry-all Scraper on rubber tires, 1 bulldozer, 1 rooter, 1 power control unit.

Bake & Taylor, Sacramento—2 Carryall Scrapers on rubber tires, 1 rooter.

George French, Jr., Los Angeles—1 bulldozer, 1 power control unit.

G. W. Wood, Los Angeles—2 Carry-all Scrapers on rubber tires, 2 power control units.

Ralph Davis, Lewiston, Idaho.—1 bulldozer, 1 rooter, 1 power control unit.

James Tobin & Sons, Lewiston, Idaho.—1 Carry-all Scraper on rubber tires, 1 power control unit.

Fredrickson & Watson, Los Angeles.—7-yard Scraper on rubber tires with sheepfoot roller attached, 1 power control unit.

ORDERS DECLINE DURING WEEK AT WESTERN MILLS

New Business and Shipments Still Lead Current Production

A total of 252 down and operating mills which reported to the West Coast Lumbermen's Association for the week ending April 15 produced 62,505,446 board feet of lumber. This was a decrease of 857,791 feet or 1.4 per cent under their cut in the preceding week. The average week's production of this group of sawmills in 1933 has been 57,172,322 feet; during the same period of 1932, their weekly average was 65,930,604.

The new business reported last week by 179 mills was 58,831,260 board feet against a production of 57,666,255 feet and shipments of 63,410,085 feet. Their shipments were over their production by 9.9 per cent and their current sales were over production by 2.0 per cent. The orders booked last week by this group of identical mills were less than their orders of the preceding week by 7,914,065 feet, or 12 per cent.

Details of orders and shipments as reported by these 179 mills are:

Rail	19,474,803	20,036,613
Domestic	22,441,076	23,173,607
Export	11,353,419	14,637,903
Local	5,561,962	5,561,962
	58,831,260	63,410,085

The unfilled order file at these mills stood at 261,791,007 board feet a decrease of 9,664,199 feet from the week before.

The aggregate inventories of 130 mills are 16.2 per cent less than at this time last year.

NAPA EXCHANGE ELECTS OFFICERS

Thomas Jessiman has been elected president of the Napa County Builders' Exchange for the new year. Other new officers are Chas. Hansen, vice-president and William Nonel, treasurer.

Frank Pond, a charter member of the Exchange was honored with election to a life membership announced at the semi-annual banquet held in Napa last Tuesday.

Mano Zann was the speaker of the evening, describing the activities of the State Builders Exchange in behalf of the construction industry at the present legislature.

Phone TRinity 0241 for

Rock-Sand-Gravel-Plaster
Cement-Mixed Mortar-Stucco
Lath-Lime Putty-Reinforcing Steel

Consolidated Rock Products Co.

656 S. Los Angeles St.

Los Angeles, Calif.

MATERIAL PRICE INDEX STEADY BUREAU REPORTS

Lumber and Paint Gain; Slight Change in Other Groups

Lumber and paint were among the building material groups to show an increase in wholesale prices from February to March, according to the monthly index of commodity prices compiled by the Bureau of Labor Statistics.

Brick and tile and other building materials moved downward slightly, while structural steel and cement showed no change between the two months. The group as a whole recorded an increase of seven-tenths of one percent.

Metals and metal products showed a further downward tendency for March due to declining prices for iron and steel. Non-ferrous metals increased and plumbing and heating fixtures showed no change.

The index number of wholesale commodity prices including all groups registered the first advance since September, 1932.

Following are the comparative indices for various classes of articles under the metal and building commodity groups:

	Mar. '32	Feb. '33	Mar. '33
Metals & metal prod.....	80.8	77.4	77.2
Agri. implements	85.0	83.1	83.1
Iron and steel	79.7	77.3	76.4
Motor vehicles	95.3	90.9	90.9
Nonferrous metals	50.5	46.2	47.9
Plumbing & heating.....	64.4	59.4	59.4
Building materials	73.2	69.8	70.3
Brick and tile.....	79.3	75.1	74.9
Cement	75.0	81.8	81.8
Lumber	61.5	56.4	57.8
Paint and paint mtl.....	75.4	68.0	68.4
Plumbing & heating.....	64.4	59.4	59.4
Structural steel	79.7	81.7	81.7
Other bldg. m'terials.....	80.6	78.5	78.4

PALO ALTO BOND ISSUE PROPOSED

A proposed bond issue of \$90,000 will be submitted to the voters of Palo Alto at the municipal election on May 9. The funds, if voted, are to be used in financing a sewage disposal system, including construction of a treating plant.

10,000 DISHPANS AID DAM CONSTRUCTION

The canyon of the Colorado about the Hoover Dam is brilliantly illuminated at night by thousands of electric lights which are ably backed up by a great brigade of dishpans, reports the "Reclamation Era." It appears that these lamps are subjected to a variety of hard experiences and to keep them supplied with reflectors which are ordinarily made use of for this purpose would be a very expensive proposition by reason of the frequent breakage. A bright new dishpan was experimented with for this service and the results were found to be so satisfactory that they were adopted all over the site. Ten thousand dishpans were ordered for this purpose.

STEEL PROTEST IS WITHDRAWN

Gate Bridge Directors Will Make Progress Payment To McClintic-Marshall

Golden Gate bridge district directors yesterday decided to withdraw demands that the McClintic-Marshall Corp. fabricate steel for the bridge in San Francisco.

The directors at a meeting last week voted to withhold a progress payment of \$96,000 due on the steel contract until a promise was obtained from the company that the work would be done at the San Francisco plant in preference to Alameda.

James Reed, general manager for the district, is now in the east to confer with the company officials.

The bridge directors were notified yesterday that the first shipment of 300 tons of cement in bulk will be sent to the Marin pier site today by Pacific Portland Cement Company and Pacific Coast Aggregates.

An arbitration committee is to be appointed for settlement of labor disputes on the bridge construction, directors decided.

STATE REALTY MORATORIUM IS HELD INVALID

Los Angeles Jurist Declares Act to Prevent Foreclosure Unconstitutional

In an opinion delivered on the action of an investment company to gain possession of an apartment house from a property owner, Superior Judge Emmet H. Wilson of Los Angeles county has held that the state moratorium act, postponing sales under mortgage and trust deed foreclosures, was unconstitutional.

In the case, Continental Bond & Investment Company against Harry Epstein and others, the defendants were asserted to have failed to pay a trust deed on certain property and a notice of sale was given before the adoption of the emergency act last March 10.

The act prohibited sales for a period of 60 days but the plaintiff bought the property at a trustee's sale on March 17, filed an action to recover possession of it, and made a motion for the appointment of a receiver.

Although the trust deed on the property provided that it might be sold at such time as fixed in the notice of sale and possession of it must be surrendered immediately after the sale, the defendants resisted the appointment of a receiver, basing their stand on the provisions of the moratorium act.

Judge Wilson, holding the act in violation of the constitution of the United States and the California constitution, ruled that the maker of the trust deed was bound by all of the provisions in it and that the act impaired the obligation of the contract, which was executed before passage of the moratorium.

PIPE FITTERS FOLDER

Technical Products Co., Pittsburgh, has issued a new Pipe Fitters' Folder, No. 5, which contains information on connecting standard or special material pipe and conduit for the conveyance of water, gas, acids, oil, etc. Copies will be mailed on request.

FOR SALE...

110 Horsepower Diesel Engine at a Bargain

United Commercial Co., Inc.

234 Stuart Street

San Francisco

SMITH BROS. TRUCK CO.

"TRANSPORTATION SPECIALISTS"

Portable Crane Service—Rigging

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A complete line of grading machinery—designed by a contractor—developed on actual construction jobs—built to stand continuous use under the worst conditions.

ENGINEER'S CONSULTATION FREE

R. G. LE TOURNEAU, INC.

Wilson Way at Roosevelt

Stockton, Calif.

L. A. EXCHANGE REORGANIZES TO MEET NEW TREND

Adopts Constitution Abandoning Traditional Plan of Membership

Breaking away from traditions to which it has held tenaciously ever since its organization the Builders' Exchange of Los Angeles has adopted a plan of reorganization which it is believed will be more nearly in line with present trends in the building industry and better adapted to the demands of a metropolitan area.

Heretofore the basic plan of the Exchange has been individual memberships divided into groups classified according to the branches of the industry with which they were identified. Under this new set-up there will be an individual membership as heretofore, consisting of individuals, firms or corporations. The fundamental change lies in the provision for group memberships open to bona fide associations which desire to retain their individuality and at the same time enjoy the benefits of affiliation with a central organization representative of all branches of the building industry.

The amended constitution provides that the membership shall consist of two classes as follows:

(1) Group memberships, open to bona fide organizations of any branch or craft of the construction industry, architects and engineers, or any allied industry or interest.

(2) Individual memberships, open to any individual, firm or corporation engaged in construction or any of its branches or allied industries.

Group members shall have complete autonomy in all matters directly affecting the interests of their particular group and shall have full control of their individual organizations, electing their own officers and selecting their own headquarters and place of meeting.

Individual members shall comprise a general unclassified group and shall be recognized as such in the Exchange organization.

Members of organized groups and individual members shall have equal privileges in the Exchange and free access to all facilities which it may provide for the use or benefit of its members.

The administrative body of the Exchange under the reorganization will be a Board of Governors consisting of representatives selected by the group members and by the general unclassified group (individual members). Each group member shall be entitled to two representatives on the board and the general unclassified group shall be entitled to five representatives. Each group shall propose and elect its own representatives to serve each for a term of two years, but with terms staggered so that only half the members of the board

AWARD CONTRACTS ON S. JOSE ARMORY

SACRAMENTO, April 24.—Contracts were awarded today for construction of the San Jose Armory. All awards were made to low bidders, the general contract to William Spivock, San Francisco, at \$33,565; plumbing and heating to William Serpa, San Jose, at \$2,923; electrical to Coast Electric Service, San Jose, at \$1,238.

The structure is to be of reinforced concrete, one and two stories. It will include a drill hall with a seating capacity of 1,500.

Plans were drawn by State Architect George B. McDougall.

shall retire in any one year. No method is prescribed for the selection of representatives, that being left entirely to the group members, or the unclassified group to determine for themselves. This will forestall any complaint that the Exchange is controlled or dominated by any particular group or clique.

The Board of Governors shall elect the officers of the Exchange, each to serve for one year, from among its own members. These will consist, as heretofore, of a president and two vice-presidents, and an executive secretary, to be appointed by the board. The retiring president will automatically become a member of the board ex-officio and treasurer of the Exchange. The Board of Governors will transact all business appertaining to the maintenance and management of the organization. It shall have power to consider any subject or matter affecting the general welfare of the construction industry and to arrange for and maintain such activities as may be deemed necessary for best interests of and for the benefit of all members of the Exchange. Any action taken by the board shall, on request of any group, be referred to all groups for approval before becoming effective and binding, and such approval shall be unanimous.

All applications for membership shall be passed upon by the Board of Governors.

Another innovation in the reorganization of the Exchange will be the budgeting of expenses. This budget will be made up at least ten days before the second Tuesday of September of each year on which date the Board of Governors to serve for the fiscal year will meet and organize. The budget will be based upon a conservative estimate of revenues for the succeeding year. Under no circumstances will the Board of Governors incur any liability in excess of possible revenues.

After adopting the new constitution and by-laws the Exchange voted to continue the present board of directors in control of its affairs until such time as it may be feasible to set up the new organization in conformity thereto.

MATERIAL FIRMS HOLD FINANCIAL POSITION IN 1932

National Manufacturers Report Satisfactory Condition at End of Year

Leading distributors of building materials and equipment are maintaining a satisfactory financial position despite the general decline in business, it is indicated in the annual reports of three national companies.

At the close of the past year American Radiator had working capital of \$44,314,000 against \$56,297,000 at the end of 1931; Johns-Manville, \$9,039,000 against \$10,659,000, and United States Gypsum, \$17,467,000 against \$16,981,000. Analysts point out that the positions of these companies were maintained in the face of a 90 percent drop in residential building since 1928.

Both American Radiator and Johns-Manville reported that their sales fell in 1932 to only one-third of totals in 1929. By attacking operating expenses vigorously, both these companies were able to keep their losses down to moderate proportions. The Gypsum company, by an even greater assault on operating costs, was able to show a profit of 99 cents a common share for 1932 compared with a profit of \$2.48 a share in the preceding year.



In San Francisco

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RATES: \$2 to \$4

RAY MAXWELL, Manager

HOTEL
PLAZA
POST STREET AT STOCKTON
SAN FRANCISCO

PERMITS AND CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
227	Saltenberger	Owner	1200
228	Campanelli	DeFavero	12000
229	Lambros	Johnson	2500
230	P. T & T	Dinwiddie	45000
231	Bowdich	Irwin	1500
232	Hughes	Owner	3150
234	Jacobson	Owner	1400
235	Standard	Owner	4000
236	Zagzie	Bienfield	5000
237	Mittelstaedt	Owner	3500
238	Labataille	Owner	3000
239	Anderson	Owner	3000

DWELLING
(227) S HOLLISTER AVE 25 E In-galls St. One-story and basement frame dwelling.
Owner—A. Saltenberger, 987 Hollister St., San Francisco.
Architect—Not Given. \$1200

FLATS
(228) S JEFFERSON ST. 205 W Webster St. Two two-story and basement frame (2) flats.
Owner—S. Campanelli and J. Ferreri, % Contractor.
Architect—Farr & Ward, 68 Post St., San Francisco.
Contractor—J. Del Favero, 666 Mission St., San Francisco..... \$6000 each

No.	Owner	Contractor	Amt.	
(229)	E YORK 25 N Twenty-sixth St. One-story and basement frame dwelling.	Johnson & Johnson	942 Capp St., San Francisco.	\$2500

EXCHANGE
(230) SW BUSH AND LARKIN STS. Two-story concrete and terra cotta telephone exchange.
Owner—Pacific Tel. & Tel. Co., 140 New Montgomery St., S. F.
Engineer—E. V. Cobby, 140 New Montgomery St., S. F.
Contractor—Dinwiddie Construction Co., Crocker Bldg., San Francisco. \$15,000

REPAIRS
(231) NO. 475 BROADWAY. Repair fire damage to rooming house.
Owner—R. W. Bowdich, 1536 Francisco St., San Francisco.
Architect—Not Given.
Contractor—J. J. Irwin, 1040 Oak St., San Francisco. \$1500

DWELLING
(232) E THIRTY-SIXTH AVE 125 N Santiago. One-story and basement frame dwelling.
Owner—E. M. Hughes, 1452 48th Ave., San Francisco.
Plans by C. Hughes, 1444 49th Ave., San Francisco. \$3150

ALTERATIONS
(233) NO. 1658 UNION ST. Alter store and apartments.
Owner—J. S. DeVecchio, 1658 Union St., San Francisco.
Architect—S. A. Colton, 544 Market St., San Francisco.
Contractor—J. Bettancourt, 422 San Anselmo St., San Bruno. \$3000

ADDITION
(234) NO. 438 TWENTY-NINTH Ave. Addition to dwelling.
Owner—E. D. Jacobson, Premises.
Architect—Not Given. \$1400

STATION
(235) NE SEVENTEENTH AND Clayton Sts. Steel service station
Owner—Standard Oil Co., 225 Bush St., San Francisco.
Plans by Owner. \$4000

DWELLING
(236) SW FIFTH AVE AND BALboa St. One-story and basement store and dwelling.
Owner—E. Zagzie, % Contractor.
Plans by Owner.
Contractor—D. Bienfield, 666 Mission St., San Francisco. \$5000

DWELLING
(237) W THIRTY-SECOND AVE. 100 S Rivera St. One-story and basement frame dwelling.
Owner—O. E. Mittelstaedt, 1671 32nd Ave., San Francisco.
Plans by Owner. \$3500

ALTERATIONS
(238) NO. 1738-1748 FILLMORE ST. Alter market.
Owner—H. M. Labataille, 2013 Broderick St., San Francisco.
Architect—Crim, Resing and McGuinness, 488 Pine Street. \$3000

DWELLING
(239) E TWENTY-FIFTH AVE 200 N Santiago. One-story and basement frame dwelling.
Owner—N. W. Anderson, 2427 24th Ave., San Francisco.
Architect—Not Given. \$3000

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
14	Mannetti	Constable	3000
125	Wong	DeVelbiss	3206
126	Golden	Mazurette	2000
127	Wachs	Cowan	2000
128	Brasjler	Owner	4800
129	Colgate	Owner	2000
130	Colgate	Owner	4000

DWELLING
(124) 1912 THIRTY-THIRD AVE., OAKLAND. One-story five-room dwelling.
Owner—Mrs. R. Nannetti, 1901 33rd Ave., Oakland.
Architect—Not Given.
Contractor—W. C. Constable, 2526 Myrtle St., Oakland. \$3000

REPAIRS
(125) NO. 317 WASHINGTON ST., OAKLAND. Fire repairs.
Owner—Wong Koo Lou, 530 Brush St., Oakland.
Architect—Not Given.
Contractor—C. D. DeVelbiss, 354 Hohart St., Oakland. \$3206

PENTHOUSE
(126) SEVENTH AND KIRKHAM STS., OAKLAND. Penthouse on brewery.
Owner—Golden West Brewing Co., 7th and Kirkham Sts., Oakland.
Architect—R. A. Hutchinson, 576 5th St., Oakland.
Contractor—A. H. Mazurette, 576 5th Oakland. \$2000

ALTERATIONS
(127) NO. 1311 THIRTEENTH ST., OAKLAND. Alterations.
Owner—Wachs Realty Co., Bank of America Bldg., Oakland.
Architect—Not Given.
Contractor—Cowan Show Case and Fixture Co., 2337 E-27th St., Los Angeles. \$2000

DWELLING
(128) CORONA HEIGHTS, Lots 9 & 10. BERKELEY; two-story six-room frame dwelling.
Owner—J. W. Brasjler, 1227 Spruce St., Berkeley.
Architect—Not Given.
Contractor—Owner. \$4800

PENT HOUSE
(129) SIXTH and Carlton, BERKELEY; steel frame and galvanized iron pent house.
Owner and Builder—Colgate Palmolive Peet Co., 6th and Carlton, Berkeley.
Architect—Not Given. \$2000

TOWER
(130) SIXTH and Carlton, BERKELEY; soap blowing tower.
Owner and Builder—Colgate Palmolive Peet Co., 6th and Carlton, Berkeley.
Architect—Not Given. \$4000

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
47	Doyle	Doelger	4350
48	University of Cal	Clinton	4828
49	Emporium	Monson	4050
50	Quinn	Barrett	4592
51	DiVecchio	Bettancourt	8744

DWELLING
(47) W TWENTIETH AVE. 100 N Ortega St. N 25xW 120 OL 937. All work for one-story and basement frame dwelling.
Owner—James J. and Charlotte Doyle 42 Sanchez St., San Francisco.
Architect—Not Given.
Contractor—Henry and Thelma Doelger, 320 Judah St., San Francisco. Filed Apr. 20, '33. Dated Apr. 14, '33.
Signing this agreement.....\$500.00
Roof on 962.50
Brown coated 962.50
When completed 962.50
Usual 35 days..... 962.50
TOTAL COST, \$4350.00
Bond, none. Limit, 90 days. Forfeit, plans and specifications, none.

PAVILION
(48) UNIVERSITY OF CALIFORNIA Hospital, San Francisco. All work for a deep Therapy pavilion.
Owner—The Regents of the University of California.
Architect—W. P. Stephenson, University of California, Berkeley.
Contractor—Clinton-Stephenson Construction Co., Ltd., 550 Montgomery St., San Francisco. Filed Apr. 20, '33. Dated Apr. 18, '33.
On or about 10th of each month 75%
Usual 35 days..... 25%
TOTAL COST, \$4828
Bonds (2) \$2500 each. Surety, Glens Falls Indemnity Co. of Glens Falls, N. Y. Limit, 75 days. Forfeit, none. Plans and specifications filed.

ALTERATIONS
(49) LOCATION NOT GIVEN. All work for alterations and additions to The Hulse-Bradford Bldg.
Owner—The Emporium, 835 Market St., San Francisco.
Architect—H. J. Thompson (Manager)
Contractor—Monson Bros., 475 Sixth St., San Francisco. Filed Apr. 24, '33. Dated Apr. 18, '33.
On or about 1st of each month 75%
Upon completion, additional payments as will bring the total payments up to 75% of price

Usual 35 days..... 25%
 TOTAL COST, \$4050
 Bond \$4050. Surety, United States
 Guarantee Co. Limit, forfeit, none.
 Plans and specifications filed.

ALTERATIONS

(50) NO. 634-636 HAIGHT ST. All
 work for alterations to flat build-
 ing.
 Owner—Frank J. Quinn, 720 Waller
 St., San Francisco.
 Architect—Willis E. Huson.
 Contractor—Barrett & Hilp, 918 Harri-
 son St., San Francisco.
 Filed Apr. 24, '33. Dated Apr. 22, '33.
 Plastering completed\$3000
 Job completed 444
 Usual 35 days..... 1148
 TOTAL COST, \$4592
 Bond, not given. Limit, 45 days. For-
 feit, none. Plans and specifications
 filed.

ADDITIONS

(51) N UNION ST., bet. Franklin
 and Gough Sts. known as 1658
 Union St. All work for additions
 and alterations consisting of five
 apartments and one store.
 Owner — S. J. and Marle DiVecchio,
 Premises.
 Architect—S. A. Colton, 544 Market
 St., San Francisco.
 Contractor—Joseph Bettancourt, 422
 San Anselmo Ave., San Bruno.
 Filed Apr. 24, '33. Dated Apr. 21, '33.
 Frame up\$2186.20
 Brown coat plaster on..... 2186.20
 Building completed 2186.20
 Usual 35 days..... 2186.20
 TOTAL COST, \$8744.80
 Bond, \$4372.40. Sureties, Charles
 Monson and Oscar Olson. Limit, 120
 days. Forfeit, none. Plans and speci-
 fications filed.

ALAMEDA COUNTY

46 Brown Stevenson 4037
 19 Alaska Duncanson 5294

WHARF EXTENSION

(19) ADJACENT to present docks at
 Encinal Terminals; complete tim-
 ber wharf extension.
 Owner—Alaska Packing Assn., 111
 California St., San Francisco.
 Engineer—Phillip L. Bush, 101 Cali-
 fornia St., San Francisco.
 Contractor—Duncanson - Harrelson
 Co., deYoung Bldg., San Fran-
 cisco.
 Filed Apr. 26, '33. Dated Apr. 24, '33.
 When work half completed.....\$1985
 Completed and accepted..... 1985
 On 36th day after comp. filed.... 1324
 TOTAL COST, \$5294
 Bond, \$5294. Sureties, U. S. Guaranty
 of New York. Limit, 60 days. Plans
 and Spec. filed.

SAN FRANCISCO UNDER \$1000

ALTER dwelling, \$300; 2352 Pine St.;
 owner, S. Decla, 2356-58 Pine St.
 ALTER dwelling, \$400; 316 Rutledge;
 owner, A. Berticcelli, 316 Rutledge
 REPAIR fire damage to flats, \$500;
 3243 21st St.; owner, A. Vogel,
 3243 21st St.; contractor, H. S.
 Meinberger, 343 4th St.
 ALTER dwelling, \$350; 1312 Page St.;
 owner, W. Mies, 1312 Page St.
 BILLBOARDS, \$12.50 each; W Leav-
 enworth 77 S Geary; SE Third and
 McKinnon; SE Third and 26th;
 NW Third and 26th; owner, Foster
 & Kleiser, 1675 Eddy St.
 BILLBOARDS, \$6.25 each; SE Third
 and 22nd; S Market 147 W Dolores
 S Market 231 E 14th St.; owner,
 Foster & Kleiser, 1675 Eddy St.
 ALTER store front, \$150; 1725 Fill-
 more; owner, Mercantile Proper-
 ties Corp., 155 Montgomery St.;
 contractor, J. Trollmann, 49 Lebig
 SIGN, electric, \$20; 919 Divisadero St.

owner, World Laundry, Premises.
 ALTER restaurant, \$185; 199 Valencia
 St.; owner, J. Peskar, Premises.
 ERECT marquis for restaurant, \$75;
 Oak and Van Ness Ave.; owner,
 C. H. Walker, 1508 Market St.;
 plans by Angelus Stained Glass
 Studios, 1414 15th St.
 ALTER dwelling for flats, \$500; 1404
 Montgomery St.; owner, C. Robl-
 nett, 1407 Montgomery St.; plans
 by U. Lyon, 916 Kearny St.; con-
 tractor, J. Callaghan.
 ALTER flats, \$150; 3100 Steiner St.;
 owner, Mrs. S. Traversaro, 2408
 Lombard St.
 ALTER store, \$50; 1399 Kearny St.;
 owner, Mrs. May Decia, 105 Frank-
 lin St., Redwood City.
 ALTER flats, \$148; 70-72 22nd Ave.;
 owner, A. O. Selby, 70 22nd Ave.;
 architect, H. Cotton, Call Bldg.
 SIGN, electric, \$300; 2498 Fillmore St.;
 owner, Belli Bros., 2498 Fillmore
 St.; contractor, QRS Neon Corp.,
 690 Potrero Ave.

SIGN, cloth, \$4; 142 3rd St.; owner,
 J. Gonzales, Premises.
 REPAIR fire damage to dwelling.
 Cost, \$650; 86 Maynard St.; owner,
 Mr. McCullum, Premises; contrac-
 tor, L. Salomon, 1734 Broderick.
 BILLBOARDS, \$6.25 each; E Leaven-
 worth 87 N McAllister St.; S Sut-
 ter 38 E Hyde; S Market 127 W
 Pearl; S Hayes 75 E Octavia; SE
 Pine and Jones; SW Geary St. and
 23th Ave.; NE Geary St. and 25th
 Ave.; SE Geary St. and 30th Ave.;
 owner, Foster & Kleiser, 1675 Eddy
 BILLBOARD, \$12.50; N Geary St. 85
 W 23th Ave. Owner, Foster &
 ALTER dwelling, \$400; 2330 Buchanan
 St.; owner, G. Balliet Jr., 2330
 Buchanan St.

ALTER flats, \$490; 3244-A Pierce St.;
 owner, Mr. Balocchi, 3252 Pierce
 St.; contractor, G. Ferrari & Sons,
 1966 Filbert St.
 ALTER soft drink parlor, \$35; 155
 3rd St.; owner, F. Walmar, 154
 Sutter St.
 ALTER front of store, \$250; 1128 Mc-
 Allister St.; owner, J. H. Abrams,
 1128 McAllister St.; owner, L.
 Epp, 4745 Geary St.
 ALTER dwelling, \$700; 17 Vicksburg
 St.; owner, A. Polk, Premises;
 contractor, J. Johnson & Son,
 1614 Church St.

ALTER flats, \$400; 31 Valparaiso St.;
 owner, S. Maracci, Prem; contrac-
 tor, L. Murer, 18 1/2 Mason St.
 ADD to dwelling, \$350; 311 Joost St.;
 owner, Mrs. R. Todd, 311 Joost St.
 ALTER factory, \$126; 720 Washing-
 ton; owner, National Dollar Stores
 929 Market St.; architect, B. J.
 Joseph, Call Bldg.
 FLUES (6) patent, \$170; W Alemany
 275 N Santa Rosa; owner, L. De
 Paoli; contractor, National Sheet
 Metal Works, 3168 Mission St.
 ALTER store, \$200; W Octavia 50 S
 Lombard; owner, S. Paroli, 1701
 Lombard St.
 ALTER restaurant, \$275; 139 Ellis St.
 owner, Arnoct & Zongounis, 302
 Montgomery; plans by the Royal
 Showcase Co., 540 McAllister St.
 SIGN, cloth, \$20; 871 Market Street;
 owner, Charles Brown & Sons,
 871 Market St.

GARAGE under flats, \$100; 3573 18th;
 owner, A. Klisura, 3573 18th.
 ALTER dwelling, \$500; 2001 San Jose;
 owner, N. Hawthorne, 2001 San
 Jose.
 ALTER restaurant, \$50; 37 Clay St.;
 owner, A. Alvers, 37 Clay St.
 ALTER flats, \$300; 1201 Green Street;
 owner, A. Gatto, 1201 Green St.;
 contractor, L. Murer, 1815 Mason.
 ALTER apts., \$30; 1216 Ellis Street;
 owner, A. Joel, Mills Bldg.
 REPAIR dwelling, \$50; 1109 Laguna;
 owner, G. H. Reading, 1109 La-
 guna St.

ALAMEDA COUNTY UNDER \$1000

SIGN, electric, \$150; NW Corner 7th
 and Washington Sts., Oakland;
 owner, J. T. Mallory; contractor,
 Imp. Elec. Sign Co., 2228 Myrtle
 St., Oakland.
 ADDITION, \$50; 2033 42nd Avenue,
 Oakland; owner and builder, L. S.
 Simmons, 2033 42nd Ave., Oak-
 land.
 ADDITION, \$350; 5744 Pressley Way,
 Oakland; owner and builder, May
 R. Beaumont, 5744 Pressley Way,
 Oakland.
 SIGN, electric, \$170; 2710 Park Blvd.,
 Oakland; owner, New Deal Mar-
 ket; contractor, Imp. Elec. Sign
 Co., 2228 Myrtle St., Oakland.
 SIGN, electric, \$35; 3335 Foothill Blvd.
 Oakland; owner, Cox Wellman;
 contractor, Ace Elec. Sign Co.,
 1243 E 12th St., Oakland.
 SUPER Service station, 1-story con-
 crete and tile, \$900; 5001 Grove St.,
 Oakland; owner and builder, C.
 W. Campbell, 5001 Grove St., Oak-
 land.
 GARAGE, 1-story, \$80; 2230 39th Ave.
 Oakland; owner and builder, M.
 P. Burten, 2150 41st Ave., Oak-
 land.
 ALTERATIONS, \$145; 1800 San Pablo
 Ave., Oakland; owner, W. L.
 Dunn, 838 Chestnut St.
 BILLBOARD, \$50; W Harrison St. 75
 S 17th St., Oakland; owner, Foster
 & Kleiser, 22nd and Market Sts.
 SIGN, electric, \$175; 420 14th St., Oak-
 land; owner, Fauset Recreation;
 contractor, QRS Neon Corp., 690
 Potrero Ave., San Francisco.
 ADDITION, \$65; 2101 E-21st St., Oak-
 land; owner, H. N. Swanigan, 2101
 E-21st St.
 ADDITION, \$75; 3550 Brookdale Ave.,
 Oakland; owner, A. E. Champion,
 Premises.
 ALTERATIONS, \$345; 889 54th St.,
 Oakland; owner, M. J. Carroll;
 contractor, C. H. Franzen, 883 54th
 GARAGE, one-story, \$100; 449 51st St.
 Oakland; owner, W. D. Willis, 445
 51st St.
 SIGN, electric, \$175; 404 14th St., Oak-
 land; owner, Garden Buffet; con-
 tractor, QRS Neon Corp., 690 Po-
 trero Ave., San Francisco.
 ADDITIONS, \$500; 2426 Webb Ave.,
 Alameda; owner, E. E. Winters,
 Premises.
 REMOVE floors and fill in with 2-inch
 concrete (formerly fire house),
 \$800; NW Court and Jackson Sts.,
 Alameda; owner, City of Alameda.
 SIGN, marquee, \$500; 1128 Broadway,
 Oakland; owner, Parker Dental
 System; contractor, Elec. Products
 Corp., 950 30th St., Oakland.
 ADDITION, \$350; 2341 Derby Street,
 Berkeley; owner, Merritt, 2341
 Derby St., Berkeley; contractor,
 J. E. Tearlins, 2311 Derby St.,
 Berkeley.
 ALTERATION, \$75; 2118 8th Street,
 Berkeley; owner, Joe Terico, 2118
 8th St., Berkeley; contractor, John
 Faramio, 827 Madison, Berkeley.
 ALTERATIONS, \$50; 1305 Franklin
 St., Oakland; owner and contrac-
 tor, P. L. McMullin, 1305 Frank-
 lin St., Oakland.
 ALTERATIONS, \$300; 5812 Foothill
 Blvd., Oakland; owner and con-
 tractor, Fenton Creamery Co.,
 41st and Howe Sts., Oakland.
 FIRE repairs, \$250; 1224 42nd Ave.,
 Oakland; owner, E. L. Blackman,
 4221 E-14th St.; contractor, Black-
 man & Anderson, 4221 E-14th St.
 ALTERATIONS and 1-story garage,
 \$845; 1244 E 12th St., Oakland;
 owner and builder, L. M. Baird,
 2501 Ivy Drive, Oakland.
 SIGN, electric, \$100; 3245 Grand Ave.,
 Oakland; owner, Frahm's; con-
 tractor, Electrical Prod. Corp., 950
 30th St., Oakland.

BUILDING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

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|---------------------------------|---|
| 1.—Apartments | 11.—Ice and Cold Storage Plants |
| 2.—Bonds | 12.—Power Plants |
| 3.—Churches | 13.—Public Buildings, Fire Houses and Jails |
| 4.—Factories and Warehouses | 14.—Residences |
| 5.—Flats | 15.—Schools |
| 6.—Garages and Service Stations | 16.—Fanks, Stores and Offices |
| 7.—Federal Buildings | 17.—Theatres |
| 8.—Club Buildings | 18.—Wharves & Docks |
| 9.—Hospitals | 19.—Misc. Const. |
| 10.—Hotels | 20.—Misc. Supplies & Materials |

1—APARTMENTS

Preparing Plans.
APARTMENTS Cost, \$150,000
LONG BEACH, Los Angeles Co., Cal. East Ocean Boulevard.
 Eight-story Class A reinforced concrete apartments.
 Owner—Withheld.
 Architect—T. R. Jacobs, Inc., Ocean Center Bldg., Long Beach.

Plans Being Prepared.
APARTMENTS Cost, \$—
SAN FRANCISCO. Richmond Dist. Three-story and basement frame and stucco apartments (12 4-rm. apts.) steel sash, separate showers, glass doors, Erskine radiators, individual electric refrigerators, canvas walls, etc.
 Owner—Withheld.
 Architect—Irvine and Ebbets (R. R. Irvine, Architect), 2048 Market St. San Francisco.

Bids will be taken in ten days from a selected list of six general contractors already selected.

Preparing Sketches.
APARTMENTS Cost, \$45,000
SAN FRANCISCO. NW Nineteenth and Church Streets (60x70 ft.)
 Five-story apartment building (12 3-room apts.); two-story concrete garage and three-story frame and stucco apartments (canvas walls, steam heating system, gas fired boilers, hot water, flat roof, tile showers and baths, hardwood floors, mahogany trim, etc.)
 Owner—George M. Eastman, 209 Mississippi St., San Francisco.
 Architect—S. Heiman, 605 Market St., San Francisco.

Contract Awarded.
ALTERATIONS Cont. Price, \$8744
SAN FRANCISCO. No. 1384 Union St.
 Alterations and additions to building (alter exterior of store and apartment in rear, add two stories of apartments, to contain four 3- and 4-room apts.) stucco exterior, tile and composition roof, gas fired steam heating system, mechanical refrigeration, etc.
 Owner—S. J. DiVecchio, 1658 Union St., San Francisco.
 Architect—Sydney Colton, 544 Market St., San Francisco.
 Contractor—Joseph Bettancourt, 422 San Anselmo Ave., San Bruno.

Contract Awarded.
APARTMENTS Cost, \$67,075
BREMERTON, Washington.
 Frame and stucco apartment building.
 Owner—Mrs. J. Hewitt, Bremerton.
 Architect—B. H. Branch, Wallace

Bldg., Bremerton.
 Contractor—H. F. Miller, Wallace Bldg., Bremerton.

Contract Awarded.
STORE AND APTS. Cost, \$6500
SAN FRANCISCO. SW Fifth Ave. and Balboa St.
 Two-story frame and stucco apartments and store.
 Owner—Mrs. Louise Zazzi, 601 Fifth Ave., San Francisco.
 Owner—Mrs. Louise Zaggi, 601 Fifth Ave., San Francisco.
 Plans by Owner.
 Contractor—D. L. Bienfield, 666 Mission St., San Francisco.

Contract Awarded.
STORES & APTS. Cost, \$11,000
NOVATO, Marin Co., Cal. Grant Ave. and Redwood Highway.
 Two-story frame, stucco and concrete stores and apts. (4 stores and 4 apts.)
 Owner—Louis J. Nave, Novato.
 Architect—Not Given.
 Contractor—Louis Bormolini, Novato

Construction Postponed Indefinitely.
APARTMENTS Cost, \$12,000
SAN FRANCISCO. Douglas Street.
 Two-story and basement frame and stucco apartments (four 3-room apts.); tar and gravel roof, steam heating system, hardwood floors, tiled baths and kitchens, etc.
 Owner—Withheld.
 Architect—Walter Falch, Hearst Bldg., San Francisco.

2—BONDS

YAKIMA, Wash.—No bids received by county commissioners for \$246,711 county bonds.

LOS ANGELES, Cal.—The \$442,000 block of the county flood control bonds sold to the Security - First National Bank by the board of supervisors Apr. 24 at par, accrued interest and a premium of \$10. The bonds are in denominations of \$1000, dated July 2, 1924, and bear interest at 5%. The bonds mature July 2, 1933.

3—CHURCHES

Plans Being Completed.
REBUILD Cost, \$8500
SAN FRANCISCO. No. 2475 California Street.
 Rebuild structure recently destroyed by fire for frame gymnasium.
 Owner—St. Paul's Episcopal Church (Rev. Leslie C. Kelly, Pastor).
 Architect—Arnold Constable, 580 Market St., San Francisco.
 Segregated bids will be asked within one week.

Preparing Working Drawings.
SUNDAY SCHOOL Cost, \$10,000
TURLOCK, Stanislaus Co., Cal. South Broadway and A Street.
 One and one-half-story frame and stucco Sunday school and social hall (flat roof, part oak floors, heating system; type not determined).
 Owner—Methodist Episcopal Church (Rev. Verne C. Brown, Pastor), Turlock.
 Architect—G. N. Hillburn, 1312 I St., Modesto.
 Work will probably be done by day's labor.

Segregated Bids Being Taken.
CHURCH Cost, \$8000
MONTEREY, Monterey Co., Calif.

One-story frame and stucco church (to seat 200).
 Owner—Christian Science Church.
 Architect—Swartz & Ryland, Spazler Bldg., Monterey, and Carmel.

4—FACTORIES & WAREHOUSES

Contract Awarded.
ADDITION Cost, \$—
SEATTLE, Wash. 2918 Airport Way.
 Heavy frame addition to three-story stock house for brewery (73x40).
 Owner—Hemrich Brewing Company.
 Engineer—Erwin Weber, Medical Arts Bldg., Seattle.
 Contractor—Henrickson-Alstrom Construction Co., Inc., Textile Tower, Seattle.

Contract Awarded.
REMODEL Cost, \$5000
MANTECA, San Joaquin Co., Cal. Yosemite Avenue.
 Remodeling creamery (brick and stucco exterior, new fixtures, rest room, waiting room, overhead cooling and ventilation system, etc.)
 Owner—Manteca Cream & Butter Co. (F. E. Richards and R. M. Olsen).
 Architect—Not Given.
 Contractor—W. J. Scott, 1661 W. Poplar St., Stockton.

Contracts Awarded.
REMODELING Cost, \$75,000
FRESNO, Fresno Co., Cal. No. 100 M Street.
 Remodel five-story concrete and brick brewery (steel frame and mill type construction addition with concrete floors).
 Owner—Fresno Beverage Co. (D. H. Swan, W. I. Hollingsworth, et al) 100 M St., Fresno.
 Architect—Chas. Butner, Cory Bldg., Fresno and Glikbarg Bldg., Sallnas
 Contractor—Fisher & McNulty, Mattei Bldg., Fresno.
PLUMBING—B. A. Newman, 320 H St., Fresno.
LUMBER—C. S. Pierce Lumber Co., 403 North H St., Fresno.
STEEL—Kyle & Co., 346 G St., Fresno.

Plans Being Figured.
SHOP & RESIDENCE Cost, \$4000
OAKLAND, Alameda Co., Calif. Fifth Avenue and E 10th St.
 Two-story brick and frame shop and residence (4-room residence) flat
 Owner—E. F. Searle.
 Architect—L. F. Hyde, 705 25th St., Oakland.

Plans Completed.
FACTORY Cost, \$70,000
LOS ANGELES, Cal. 1611-15 Georgia Street.
 Two-story reinforced concrete factory (102x343; 12 rooms) concrete roof, skylights, metal roof vents, steel sash, steel rolling doors, staff, plate glass, reinforced concrete vault, gas radiators, metal lath.
 Owner—Boyerton Burial Casket Co., 715 Johnson St., Los Angeles.
 Architect—John M. Cooper, Rives-Strong Bldg., Los Angeles.

Plans Being Prepared.
WAREHOUSE, ETC Cost, \$25,000
SAN FRANCISCO. No. 447-453 Broadway.
 Three-story Class C brick and steel warehouse, manufacturing factory hotel and 3 stores.
 Owner—E. Parucchi and P. Domenici, 505 Sansome St., San Francisco.
 Architect—Irvine & Ebbets (R. R.

Irvine, Architect), 2048 Market St. San Francisco.

Bids will be taken from a selected list of six general contractors

Segregated Bids Wanted.

FACTORY Cost, \$—
SAN FRANCISCO. Site Not Selected. One-story and mezzanine floor wood frame factory (25x100 ft.); brick veneer exterior, metal skylights, metal sash, cement floor, tar and gravel roof, etc.

Owner—Elkington-Helwig Mfg. Co., 621 Minna St., San Francisco.

Plans Being Completed.

BREWERY Cost, \$250,000
SACRAMENTO, Sacramento Co., Cal. Sixteenth St. (7 acre tract).

Brewery plant (brick construction) 300 barrel capacity.

Owner—Fort Sutter Brewing Co. (Wm. Dreher, Pres.), 509 N-10th St., Sacramento.

Plans by Gay Engineering Co., 2650 Santa Fe Ave., Los Angeles.

Planned.

BREWERY Cost, \$300,000
PORTLAND, Oregon.

Reconstruct brewery plant.

Owner—Henry Weinhard Brewery Co. (Henry Wessinger, President).

Architect—Not Given.

Articles of incorporation have been filed with a capital stock of \$200,000. Incorporators are Carl H. Wagner, Charles E. Hammond and Jacob Jackle.

EL CENTRO, Imperial Co., Cal.—Sam Maggio, president of Magglo Brothers' Produce Co., Imperial, has filed a petition with the city clerk of El Centro in which he asked permission to establish a brewery at 160 East Main St., El Centro. City council has the petition under consideration.

Planned.

WAREHOUSE, ETC. Cost, \$50,000
YAKIMA, Washington.

Brick and concrete warehouse and barn (44 stalls for horses, paddocks, etc.)

Owner—Reese B. Brown, Yakima and Seattle.

Architect—Not Given.

Construction will go forward this spring.

Structural Steel Contract Awarded.

ALTERATIONS Cost, \$8000
SAN FRANCISCO. Mission St. bet. Fourth and Fifth.

Alterations to Hulse Bradford warehouse.

Owner—The Emporium, 835 Market. Engineer—V. H. Poss, 2929 Russell St., Berkeley.

Contractor—Monson Bros., 475 6th St. **Structural Steel**—Western Iron W'ks, 141 Beale Street.

Electrical Contract Awarded.

PLANT Cont. Price, \$10,777
SAN FRANCISCO. Seventh and Harrison Streets.

One-story reinforced concrete printing plant (60x37 feet); steel sash, plumbing, heating, electric wiring.

Owner—Daily Racing Form.

Architect—C. O. Clausen, 746 46th Ave., San Francisco.

Contractor—C. L. Wold, 4416 Fulton St., San Francisco.

Electric—Paragon Electric Co., 209 Post St., San Francisco.

As previously reported, plumbing awarded to Anderson & Rowe, 45 Belcher St.; mill work to Sudden Lumber Co., Evans and Quint Sts.; structural steel to Schrader Iron Works, 1247 Harrison St.; steel sash to Soule Steel Co., 1750 Army St.

Heating Contract Awarded.

MECHANICAL WORK, Etc. \$—
SAN FRANCISCO. Mission St. bet. Fourth and Fifth Streets.

Plumbing, heating, wiring and sprinkler system in connection with warehouse under construction.

Owner—The Emporium, 835 Market. Plans by Engr. Dept. of Owner.

Contractor—K. E. Parker Co., 135 So. Park.

Heating—James A. Nelson, Inc., 10th and Howard Streets.

Bids are now being received by the owners for painting, conveyors, floor coverings, etc.

As previously reported, electric work awarded to Langlais Electric Co., 472 Tehama St.; plumbing to J. E. O'Mara, 218 Clara St.; sprinkler system to Grinnel Co. of the Pacific, 5th and Brannan Sts.

Preparing Plans.

REBUILD Cost, \$50,000
MARTINEZ, Contra Costa Co., Cal.

Rebuild portions of refinery recently destroyed by fire (bleacher house, steel construction, etc.)

Owner—Shell Oil Co., (Mr. Day in charge), Martinez.

Plans by Engineering Dept. of Owner.

Bids will be asked in about two weeks.

Contract Awarded.

BREWERY Cost, \$300,000
OLYMPIA, Washington. Tumwater.

Reinforced concrete brewery (184x140) reinforced concrete bottling house (60x120) capacity of 25,000 barrels annually.

Owner—Olympia Brewing Co. (Adolph Schmidt, president).

Plans by Gay Engr. Corp., 2650 Santa Fe Ave., Los Angeles.

Contractor—A. D. Belanger, 222 Westlake, Seattle.

Contract Awarded.

BREWERY Cost, \$300,000
PORTLAND, Ore. Twelfth St. bet. Burnside and Couch Streets.

Reconstruct brewery plant.

Owner—Henry Weinhard Brewery Co. (Henry Wessinger, president).

Architect—Not Given.

Contractor—L. H. Hoffman, Public Service Bldg., Portland.

Contract Awarded.

LAUNDRY Cost, \$—
LOS GATOS, Santa Clara Co., Cal.

One-story concrete laundry (26x60 ft.) tar and gravel roof, etc.

Owner—J. Libante.

Architect—H. C. Baumann, 251 Kearny St., San Francisco.

Contractor—Vannucci Bros., 1875 San Bruno Ave., San Francisco.

Planned.

ALTERATIONS Cost, \$—
SACRAMENTO, Sacramento Co., Cal.

21st and R Streets.

Alterations to brewery.

Owner—Buffalo Brewery (Frank Ruhstaller, president) 920½ J Street, Sacramento.

Architect—Not Selected.

Work will go forward as soon as financial arrangements are completed.

The committee consists of E. N. Stephens, B. F. Vandenburg, George W. Locke, Otto Grau and James Warrack. A. C. Weil is secretary of the organization.

Planned.

REPAIRS Cost, \$—
SAN FRANCISCO. No. 426 Natoma Street.

Repair fire damage to manufacturing plant.

Owner—James Conlin.

Architect—Withheld.

Lessee—H. Koch, 426 Natoma St., San Francisco.

More definite information will be given shortly.

Planned.

BOTTLING PLANT Cost, \$—
SAN FRANCISCO. No. 1550 Bryant Street.

Class A bottling plant.

Owner—Rainer Brewing Co., 1550 Bryant St., San Francisco.

Engineer—Leland Rosener, 233 Sansome St., San Francisco.

More definite information will be given in about thirty days.

5—FLATS

Plans Being Figured.

FLATS Cost, \$—
SAN FRANCISCO. W Leavenworth St. S North Point.

Two-story and basement frame and stucco flats (2 5-room flats); tile and composition roof hardwood floors, tiled baths, etc.

Owner—Withheld.

Plans by L. Dallorso, 32 Jansen St., San Francisco.

Contract Awarded.

ALTERATIONS Cost, \$4592
SAN FRANCISCO. No. 643-636 Haight Street.

Alterations to frame flats.

Owner—Frank J. Quinn, 720 Waller St., San Francisco.

Architect—Willis E. Huson, 1913 Green St., San Francisco.

Contractor—Barrett & Hilp, 918 Harrison St., San Francisco.

Contractor—Barrett & Hilp, 918 Harrison St., San Francisco.

6—GARAGES & SERVICE STATIONS

Plans Being Completed.

SERVICE STATION Cost, \$16,000
SACRAMENTO, Sacramento Co., Cal.

Sixteenth and L Streets.

Service station.

Owner—Shell Oil Co., Shell Bldg., San Francisco.

Plans by Engr. Dept. of Owner.

Lessee—F. E. Kraus, 2030 23rd St., Sacramento.

Bids will be asked in about 1 week.

Contract Awarded

SERVICE STATION Cost, \$9500
MONTEREY, Monterey Co., Cal.

Brick service station (Spanish type).

Owner—Shell Oil Co., Shell Bldg., San Francisco.

Plans by Engineering Dept. of Owner.

Contractor—Pacific Truck Service, Inc., 646 Park Ave., San Jose.

Planned.

SERVICE STATION Cost, \$—
SANTA CRUZ, Santa Cruz Co., Cal.

Second Street.

Modern super-service station.

Owner—Standard Oil Co., 225 Bush St., San Francisco.

Plans by Engr. Dept. of Owner.

Contract Awarded.

SERVICE STATION Cost, \$11,000
RENO, Nev. NW Fourth and Virginia Streets.

Steel service station.

Owner—Standard Oil Company.

Smith in charge) Reno National Bank Bldg., Reno.

Plans by Engr. Dept. of Owner (R. R.

Plans Being Completed.

GARAGES Cost, \$—
SAN FRANCISCO. Presidio.

11 brick garages (tile roofs, overhead doors, concrete floors).

Owner—United States Government.

Plans by Constructing Quartermaster, Fort Mason.

Garages will be built in two groups of 7 and 4. Bids will be asked in week.

WASHINGTON, D. C.—Bureau of Yards and Docks, Navy Department, Washington, will ask bids shortly for gas station at the Naval Air Station,

Sunnyvale, Calif. Specification No. 7301. Estimated cost \$5000.

Plans Completed.
SERVICE STATION Cost, \$5000
SAN FRANCISCO. NE 17th and Clay-ton Streets.
 Steel service station.
 Owner—Standard Oil Co., 255 Bush Street.
 Plans by Engr. Dept. of Owner.
 Bids will be asked in one week.

7—FEDERAL BUILDING

SAN FRANCISCO.—Until May 2, 11 A. M., bids will be received by the Public Works Officer, 12th Naval District, 100 Harrison Street, for repairs and replacements to the roofing on Bldg. No. 74 at the U. S. Naval Receiving Ship Station, Yerba Buena Island, San Francisco. Spec. No. 7043. Plans and specifications are obtainable from Commandant, 12th Naval District and Operating Base, 100 Harrison St., San Francisco, upon deposit of \$5.00.

SAN DIEGO, Calif.—The Treasury Department will probably call for supplemental bids within 60 days for the construction of the U. S. post office in San Diego. The bids received on April 3 exceeded the appropriation.

Planned.
IMPROVEMENTS Cost, \$—
BREMERTON, Wash. Destruction Island.

Improvements to naval radio direction finder station (work involves extension, repairs and alterations to quarters, installation of new salt water fire prevention system, etc.)

Owner—United States Government.
 Plans by Owner.

Commander R. M. Warfield has asked the chamber of commerce for a list of contractors who might be interested in the construction.

SAN JOSE, Santa Clara Co., Cal.—W. J. Ochs, American Trust Company Bldg., San Jose, awarded the following additional sub-contracts in connection with the construction of the two-story and basement Class A post office building at First and St. John Streets, San Jose. Ralph Wyckoff, First National Bank Bldg., San Jose, architect. Leland & Haley, 53 Sutter St., San Francisco, mechanical engineers, and L. H. Nishkian, 525 Market St., San Francisco, structural engineer;

Glass—East Bay Glass Co., 621 6th St., Oakland.

Linoleum and Cork Carpet—Robinson & Sons Co., 398 S 1st St., San Jose

Scales—Fairbanks, Morse Co., Spear and Harrison Sts., San Francisco.

Block Flooring—Royal Floor Co., 7th and Brannan Sts., San Francisco. Other awards reported March 24.

SAN FRANCISCO.—Following bids received by the Constructing Quartermaster, Fort Mason, for repairs to porches of Officers' and Non-Commissioned Officers' quarters at Fort Baker.

- (1) replacing pipe supports (each)
 - (2) redwood post supports (each);
 - (3) 1,000 ft. of flooring.
- Robt. McCarthy, 1363 14th Ave.
-(1) \$ 1.60
 -(2) 1.95
 -(3) 90.00
- Leo Epp (lump sum).....(1) \$642.00
-(lump sum).....(2) 542.00
 -(3) 94.30
- E. Bradshaw(1) \$ 3.00
-(2) 2.50
 -(3) 100.00
- T. R. Smith(1) \$ 4.40
-(2) 3.25
 -(3) 123.00

- J. W. Cobby & Son.....(1) \$ 4.47
 -(2) 3.15
 -(3) 133.00
- Bids held under advisement.

WASHINGTON, D. C.—Western Venetian Blind Co., care F. P. May, Washington, D. C., at \$1,042 submitted low bid to Treasury Department for venetian blinds for the U. S. post office at Long Beach, Calif. Following is a complete list of bids:

- Western Venetian Blind Co.....\$1042.00
- Schatz Venetian Blinds Co., Los Angeles 1031.70
- Bostwick Goodell Co., Norwalk Ohio 1112.00
- J. J. Wilson Corp., Norfolk, Virginia 1194.00
- Monarch Johnson, Minneapolis 1262.00
- W. F. McCrea Co., Oakland, Calif. (2%, 10 days)..... 1428.46
- Kane Mfg. Co., Kane, Pa..... 1475.00
- Nesmith Linoleum Co., Long Beach, Calif. 1475.00
- Acme Service Co., Ft. Worth, Texas (1%, 10 days)..... 1480.00
- Yarkly S. & Weatherstrip Co. Columbus, O. (2%, 10 days) 1540.20
- Watson Mfg. Co., Jamestown, New York 1603.00
- Athey Co., Chicago (California Winnwax Corp.; 1%, 30 da 1895.00
- Venetian Blinds Service Co., Inglewood, Calif. 1961.00

(1164) 1st report April 12, 1933. 7

WASHINGTON, D. C.—Until May 16, 2 P. M., bids will be received by Treasury Department, Office of the Supervising Architect, for furnishing and installing interior lighting fixtures at the U. S. Forest Service Building, Ogden, Utah. Plans and specifications available from above office.

Sub-Contracts Awarded.
POST OFFICE Cont. Price, \$169,000
LONGVIEW, Washington.

Completion of Class A Post Office.
 Owner—United States Government.
 Architect—Bebb & Gould, Hoge Bldg., Seattle.

Contractor — Hoffman Constr. Co., Public Service Bldg., Portland.
 Masonry—S. P. Guimont, Seattle.
Sandstone — Boise Stone Co., Boise, Idaho.

Structural Steel — N. W. Equipment Co., Vancouver, Wash.

Mill Work—North Street Louls Planning Mill, St. Louis, Mo.

Glass—W. P. Fuller & Co., 301 Mission St., San Francisco.

Marble—Vermont Marble Co., Tacoma Wash.

Finish Hardware — Shapleigh Hardware Co., St. Louis, Mo.

Reinforcing Steel—Truscon Steel Co., Call Bldg., San Francisco.

Ornamental Iron and Aluminum—Usnoa Mfg. Co., St. Louis, Mo.

Granite—John Clark, Chicago, Ill.

Roofing Tile—Gladding, McBean Co., Seattle, Wash.

Sub-bids are wanted on roofing, sheet metal, insulation, lathing and plastering, wood block flooring, cork carpet and linoleum and painting.

Plans Being Prepared.
QUARANTINE STATION
 Cost, \$250,000

PORT TOWNSEND, Washington. 350 Acre Site.

Quarantine station (two-story brick executive building, attendants' quarters, slip for boarding launches).

Owner—United States Government.
 Plans by Supervising Architect, Treasury Dept., Washington, D. C.

It is expected to ask for bids about July 1.

SUNNYVALE, Santa Clara Co., Cal.—Barnes Bros. Iron Works, 1719 14th St., Oakland, at \$280 awarded contract Bureau of Yards and Docks, Navy

Department, for additional docking facilities in the airship hangar at the Naval Air Station, Sunnyvale. Spec. No. 7264. Work includes milling lumber, fabrication of metal straps and the assembly, erection and fitting of the same on the structural steel frame of the airship hangar to afford points of suspension for cables.

SUNNYVALE, Santa Clara Co., Cal.—Theo. Johanna, 2020 15th St., San Francisco, at \$718 awarded contract by 12th Naval District for small stores facilities for barracks and enclosures for storehouse at the Naval Air Station, Sunnyvale. Spec. No. 7225.

SUNNYVALE, Santa Clara Co., Cal.—Roy Lind, 54 Staaton St., San Francisco, at \$3,219 awarded the contract Bureau of Yards and Docks, Navy Department, for photographic laboratory in the basement of the Administration Building at the Naval Air Station, Sunnyvale. Spec. No. 7121. The work includes metal studding, metal lath, gypsum, plaster, partitions, wood doors, carpentry and joinery, hardware, plumbing, lead-lined wood tanks and sinks, wood tables, shelving, film-winding reel, stand and drum.

SAN FRANCISCO — Robert McCarthy, 1363 14th Ave., awarded contract by Constructing Quartermaster, Fort Mason, for repairs to porches of officers' and non-commissioned officers' quarters at Fort Baker. Complete list of bids published April 24.

WASHINGTON, D. C.—Until May 8, 3 P. M., bids will be received by Treasury Department, Office of the Supervising Architect, Washington, D. C., for painting plaster, etc., in the United States Post Office and Court House at Tucson, Arizona.

SAN FRANCISCO — Constructing Quartermaster, Fort Mason, is completing plans and will ask bids in about ten days for sewers, roads, cast iron water main, fire hydrants, etc., in connection with the non-commissioned officers' quarters at Fort Scott.

Sketches Completed.
POST OFFICE Cost, \$76,500
MONTEBELLO, Los Angeles Co., Cal.
 United States Post Office.
 Owner—United States Government.
 Architect—A. R. Walker and P. A. Elsen, Ltd., Signal Oil Bldg., Los Angeles.

SUNNYVALE, Santa Clara Co., Cal.—Munthe Equip., Co., 7 Front St., San Francisco, at \$6,230 awarded contract Bureau of Yards and Docks, Navy Department, for office and tool room enclosures in the Airship hangar at the Naval Air Station, Sunnyvale. Spec. No. 7238.

WASHINGTON, D. C. — John C. Ferrington, 1148 P St., Washington, D. C., at \$54 submitted low bid to Treasury Department, for plaster model for the U. S. Post Office building at Weiser, Idaho. Following bids received:

- John C. Ferrington, Washington, D. C.\$ 54
 - H. T. Silbermann & B. A. Mathew Washington 59
 - Architectural Modeling Co., Washington 67
 - Studio of Architectural Sculpture, Washington 89
 - Henry J. Green, Washington..... 105
 - Lombard & Ludwig, Inc., Washington 113
 - J. C. Lombard, Washington..... 118
 - Washington Orn. Co., Washington 185
- Bids held under advisement.

Prospective Bidders.
 HDQTRS. BLDG. Cost, \$40,000
 SAN RAFAEL, Marin Co., Cal. Hamilton Field.

Concrete and hollow tile headquarters building (177 ft. long, 2-story center) tile roof, Spanish Mission style).

Owner—United States Government, Plans by Constructing Quartermaster, Hamilton Field.

Following have procured plans. Bids open May 15.

Leroy Building Service, 165 Jessie St., San Francisco.

Scott Co., 243 Minna St., San Francisco.

Robert E. McKee, 108 W-Sixth St., Los Angeles.

Bates-Carpenter Co., 557 Market St., San Francisco.

N. Clark & Son, 116 Natoma St., San Francisco.

Swenson Constr. Co., 155 Stockton Ave., San Jose.

Mechanical Contracting Co., 83 Shiplley St., San Francisco.

J. A. Fazio, 402 Castro St., Oakland.

J. D. Hannah, 251 Kearny St., San Francisco.

DeLuca & Son, 666 Mission St., San Francisco.

Chamberlin Metal Weather Strip Co., 895 Post St., San Francisco.

F. W. Snook, 536 Clay St., S. F.

Wm. J. Forster, 355 4th St., San Francisco.

W. Olsen & Son, Petaluma.

W. K. Jennings, Hamilton Field.

Pacific Mfg. Co., Monadnock Bldg., San Francisco.

Dyer Bros., 17th and Kansas Sts., San Francisco.

Frank J. Reilly, 6350 Fulton St., San Francisco.

Val. Franz, 666 Mission St., San Francisco.

F. C. Amoroso & Sons, Wallace and Keith Sts., San Francisco.

Meyer Bros., 727 Portola Drive, San Francisco.

Crane Company, 301 Brannan St., San Francisco.

E. T. Lesure, 87 Ross Circle, Oakland.

Leo Epp, 4745 Geary St., San Francisco.

A. H. Vogt, 250 Eleventh St., San Francisco.

Plans and specifications are on file in the office of the DAILY PACIFIC BUILDER and may be inspected by those interested.

WASHINGTON, D. C. — Architectural Modeling Company, Washington, D. C., at \$287 submitted low bid to Treasury Department for plaster models for the United States Post Office at Yuma, Arizona. Following bids received. All bidders of Washington, D. C.:

Architectural Modeling Co.....	\$287
Henry J. Green.....	361
H. T. Silbermann & R. A. Matthew	384
Studio of Architectural Sculpture	397
Lombard & Ludwig, Inc.....	466
John G. Farrington.....	489
J. C. Lombard Co., Inc.....	551

Bids held under advisement.

April 26, 1933

YUMA, Ariz.—Bannister-Field Co., 4101 Goodwin Ave., Los Angeles, reports additional subcontracts for the construction of the U. S. post office in Yuma awarded as follows: Plumbing, heating and ventilating to Dudley-Haverty Co., Los Angeles; marble and tile to Clifford-California Marble & Tile Co., Los Angeles; excavating to C. H. Trigg, Yuma; granite to Westco Co., Ltd., Santa Ana; roofing to Angelus Roofing Co., Los Angeles; vault doors to Diebold Safe & Lock Co. Roy Place, architect, 70 N Stone Ave., Tucson.

ROCKWELL FIELD, Coronado, Cal.—Until 11 A. M., May 12, bids will be received by the Constructing Quartermaster, Rockwell Field, Coronado, for the construction of one field officers' quarters at Rockwell Field. Plans and specifications may be obtained from the quartermaster at Rockwell Field upon deposit of \$10. Will be one-story and part two-story structure, 60x55 ft. in area, containing nine rooms and four bathrooms; concrete foundations, clay or stone-tile walls (alternate proposal invited for hollow monolithic concrete walls) stucco exterior, tile roof, marble and tile bathrooms, fireplace, waterproofing materials, oil-fired hot water heating system, etc.

ALAMEDA, Alameda Co., Calif.—Until May 11, 2 P. M., bids will be received by C. H. Sweetser, District Engineer, Bureau of Public Roads, 807 Sheldon Building, 461 Market St., San Francisco, for furnishing and installing Venetian blinds on 79 windows in the Administration Building at Government Island Alameda. Specifications and proposal forms may be obtained from above office.

SUNNYVALE, Santa Clara Co., Cal.—Roy M. Butcher, 1020 Sherwood Ave. San Jose, at \$485 awarded contract Bureau of Yards and Docks, Navy Department, for additional telephone facilities at the Naval Air Station, Sunnyvale. Spec. No. 7258. Work includes provision and installation of a 50-pair telephone cable in existing duct system and additional conduit work within the hangar.

8—CLUB BUILDINGS

Additional Prospective Bidders.
 MEMORIAL HALL Cost, \$16,000
 RED BLUFF, Tehama Co., Calif.
 Remodel school for Veterans Memorial (brick construction, 60 by 80 feet) stucco exterior, maple flooring, hot air heating system, composition roof.

Owner—County of Tehama. Architect—Dragon & Schmidts, Mercantile Bank Bldg., Berkeley.

Following are additional contractors who have procured plans. Bids open May 1, 2 P. M.:

C. M. Norgrove, 2220 Roosevelt Way, Berkeley.

Rollo Arbuckle, Anderson, Calif. Listen Ehorn, Red Bluff. Spencer Bagge, Winters.

Completing Plans—Contract Awarded ALTERATIONS Cost, \$40,000
 SAN FRANCISCO. Sutter and Powell Streets.

Alterations to third and fourth floors of the Sir Frances Drake Hotel. Owner—Sir Frances Drake Hotel.

Architect—W. P. Day, Financial Center Bldg., San Francisco. Lessee—Bohemian Club.

Contractor—Lindgren & Swinerton, Inc., 225 Bush St., San Francisco.

Sub-bids will be taken in about ten days.

Commissioned To Prepare Plans.
 MEMORIAL Cost, \$50,000
 WATSONVILLE, Santa Cruz Co., Cal. Veterans' Memorial Building. Owner—Veterans' Memorial Assn. Architect—A. W. Story, Pajaro Valley Bank Bldg., Watsonville.

9—HOSPITALS

VISALIA, Tulare Co., Calif.—Tulare county supervisors contemplate erecting a new county detention home in Visalia to replace the existing building.

TONOPAH, Nev.—Nye county commissioners and directors of Mine Operators' hospital, Tonopah, are considering plans for enlarging the hospital to provide accommodations for county patients. A plan to rebuild the county hospital, which was destroyed by fire last week, is also under consideration.

Bids Wanted—To Close May 23, 2 P. M.

HOSPITAL Cost, \$375,000
 CAMARILLO, Ventura Co., Cal. Lewis Ranch.

Two 1-story reinforced concrete ward buildings (accommodate 900 patients) each unit to contain 10,800 sq. ft. of floor space.

Owner—State of California. Architect—Geo. B. McDougall, state architect, Public Works Building, Sacramento.

Consulting Architect—Harold Burket, 455 E Main St., Ventura.

Bids are being received for a general contract with separate bids for electrical work, heating and ventilating and plumbing work.

Plans available from Division of Architecture, Public Works Bldg., Sacramento, upon deposit of \$25.00.

10—HOTELS

Plans Completed.
 IMPROVE HOTEL Cost, \$30,000
 STOCKTON, San Joaquin Co., Cal. E Weber Street.

Improvements to hotel (re-decorate entire building, new cooling system, add 30 new shower baths.)

Owner—McDonough Estate, % Baldwin & Howell, 318 Kearny St., San Francisco.

Plans by Owner. Owners are now taking bids on the cooling system.

12—POWER PLANTS

Bids Opened.
 GENERATOR SET, ETC. Cost, \$—
 SAN FRANCISCO. Letterman General Hospital.

Steam turbine generator (100-kw) and new turbine end for 200-kw generator (work consists of air reduction gear and generator, piping new switchboard panels with instruments, gate valves, etc.)

Owner—United States Government. Plans by Constructing Quartermaster, Fort Mason, San Francisco.

Low Bidder—De Laval Steam Turbine Co., Rialto Bldg., San Francisco.

Following bids received:

DeLaval Steam Turbine Co....(a)	\$6330
(b)	6030
(c)	3855
(d)	5495
(e)	3345
Murray Iron Works.....(a)	7942
(b)	7656
(c)	5090
(d)	7326
(e)	4021
Perry Steam Turbine.....(h)	4085
General Electric Co.....(a)	10,692
(b)	10,457
(c)	8,047
(d)	9,860
(e)	7,250

Westinghouse Elec. & Mfg. Co.(c) 7725
(d) 7345
(e) 4005

Alternate 6305
 (g) 6965
 (h) 3500
 Alternate 5800

Bids held under advisement.

LOS BANOS, Merced Co., Cal.—City council discusses installation of diesel engine generator plant for power and light plant.

MADERA, Madera Co., Cal. — City council considers proposal of \$25,000 Diesel engine electric plant for lighting and power purposes. Hussey & Belcher, Syndicate Bldg., Oakland, engineers on the project, which will be financed through savings on municipally-operated plant.

LOS ANGELES, Cal.—Bennett & Taylor, 1978 So. Los Angeles St., Los Angeles, awarded contract by Metropolitan Water District, April 21, at \$69,442, for the construction of substations on the Mecca Pass-Colorado River transmission line of the Colorado River aqueduct. Two substations will be 66 to 33 kv. stations, one located at Hayfield and one at Granite; one, located at Parker, will be 33 to 11.5 kv.; and 14 small distribution stations scattered along the line, some portable, of 33 to 2.4 kv. The district will furnish all major equipment, including transformers, copper conductor, insulators and poles required previous purchases covering the requirements. The contractor will furnish incidental materials, including some concrete, light structural steel, etc. F. E. Weymouth is the General Manager and Chief Engineer. The bids were opened April 13.

LOS ANGELES, Cal.—Until 2 P. M., May 8, bids will be received by the Metropolitan Water District, 306 West Third St., Los Angeles, for furnishing transformers, oil circuit breakers and cable in accordance with Specifications No. 31, which may be obtained at the office of the district, room 1004, 306 West Third St., upon payment of \$2 per set, not returnable. Certified or cashier's check, 10%, must accompany each bid.

(SPECIAL TO DAILY PACIFIC BUILDER)
SEATTLE, Wash.—Four bids received by City Council April 26 to construct Diablo Power Development Project, returned unopened in response to telegram from Light Superintendent, who is now in Washington, D. C., and project will be re-advertised for opening May 10.

Project involves a power house and tail race at the Diablo Power site;

A transmission line between the Diablo Power Plant and the Gorge Power Plant;

Assembling, erecting and adjusting power house apparatus previously purchased for the Diablo Power Plant;

Purchasing and installing additional equipment and apparatus at the Diablo Power Plant.

Specifications obtainable from above office. Certified check 5% payable to City Comptroller required with bid.

Deposit of \$25 required for plans.

On this bid call, specifications require that bidder must agree to purchase at par and accrued interest, Municipal Light & Power Bonds for \$2,354,000. It is not yet decided whether or not this proviso will be contained in the new bid call.

VISALIA, Tulare Co., Cal. — City council will consider purchase of privately-owned power plant for municipal ownership.

**13—PUBLIC BUILDINGS
FIRE HOUSES & JAILS**

To Be Done By Day's Work.

FIRE HOUSE Cost, \$450
DAVIS, Yolo Co., Cal. F Street, bet. Second and Third Sts.

One-story corrugated iron fire house (40x26 ft.)

Owner—City of Davis (N. D. Thomas, City Clerk).

Plans by Owner.

Work will be done by city's own forces.

Sub-Contracts Awarded.

ARMORY Cont. Price, \$33,565
SAN JOSE, Santa Clara Co., Cal. N. Second Street.

One- and two-story reinforced concrete armory (60x134 ft.) reinforced concrete walls, roof and floors, steel trusses, structural steel, part composition and slate tile roof, etc.; drill hall with seating capacity of 1500.

Owner—State of California.
Architect—George B. McDougall, State Architect, Public Works Building, Sacramento.

Contractor—William Splvock, Hobart Bldg., San Francisco.

Steel Sash, Operators and Screens—Michel & Pfeffer Iron Works, Harrison and Tenth Sts., San Francisco.

Reinforcing Steel and Mesh — Pacific Coast Steel Co., 20th and Illinois Sts., San Francisco.

Metal Partitions—Dwan & Co., Call Bldg., San Francisco.

Ornamental and Miscellaneous Iron—Oakland Ornamental Iron Works, 746 21st St., Oakland.

Masonry—Dorsch & Thompson, Oakland.

Composition Sleepers — Leroy Olson Co., 170 Hooper St., San Francisco

Lumber—McElroy-Chelm Lumber Co., 1450 The Alameda, San Jose.

Flooring—Oak Floor Co., 325 Arlington St., San Francisco.

Structural Steel — Golden Gate Iron Works, 1541 Howard St., S. F.

As previously reported, plumbing and heating awarded to Willam Serpa 497 N-13th St., San Jose, at \$2923; electric to Coast Electric Co., Inc., 1022 S-First St., San Jose, at \$1238.

General Bids Wanted—To Close May 5, 11:30 A. M.

JAIL Cost, \$365,000
SNEATH RANCH, San Mateo County. Seven-story men's jail building and 2-story women's jail bldg. (Class B reinforced concrete construction tar and gravel roof, concrete floors, mastic finish in cell block, steel cells, steel sash, steam heat, ventilating system, laundry, kitchen, sewage disposal plant farm group).

Owner—City and County of San Francisco.

Architect—Albert F. Roller, Crocker First National Bank Building and Dodge Riedy, Pacific Bldg., San Francisco.

All bids received April 12 were rejected. Plumbing, mechanical and electrical bids will be opened May 3, 2:30 P. M.

Prospective Bidders.

CITY HALL Cost, \$5000
CLOVERDALE, Sonoma Co., Calif.

One - story reinforced concrete city hall (40x46) composition and tile roof, hot water heating system, pine floors, etc. (to house chief of police, justice court, jail with two cells, council chambers and courtroom, etc.) space for 2 fire trucks.

Owner—City of Cloverdale.
Architect — William Herbert, Rosenberg Bldg., Santa Rosa.

Following have procured plans. Bids open May 9:

DeLuca & Son, 320 Market Street, San Francisco.

T. B. Goodwin, 2950 Divisadero St., San Francisco.

C. W. Hanson, Sylvia Lane, Santa Rosa.

Winter & Heitz, Healdsburg. Petaluma Const. Co., Petaluma.

M. W. Palmgren, Santa Rosa.

Siemer & Kendall, San Anselmo.

W. Olsen & Son, Petaluma.

K. E. Parker, 135 South Park, San Francisco.

14—RESIDENCES

Additional Sub-Contracts Awarded.
RESIDENCE Cost, \$7000
OAKLAND, Alameda Co., Cal. Oakmore Highlands.

Two - story and basement frame and stucco residence (7 rooms and 2 baths) shingle roof, gas hot air heating system, hardwood floors.

Owner—A. W. Davidson.
Architect—Miller & Warnecke, Financial Center Bldg., Oakland.

Contractor—Thos. Lapham, 546 Kenmore Ave., Oakland.

Millwork—Hogan Lumber Co., Second and Alice Sts., Oakland.

Electric—Kerr & Clifford, 3525 East 14th St., Oakland.

Roofing—General Roofing Co., 3985 Beach St., Oakland.

Tile—Rigney Tile Co., 3012 Harrison St., Oakland.

Painting—W. H. Pollard, Jr., 522 Grand Ave., Oakland.

Sheet Metal—M. C. Henry, 1183 53rd St., Oakland.

Heating—Pacific Gass Appliance Co., 19th and Market Sts., Oakland.

Brick—W. H. Wisheropp, 3749 Quigley Ave., Oakland.

Hardwood Floors—Fred C. Thrall, 3006 Santa Clara Ave., Oakland.

Hardware — Maxwell Hardware Co., 1320 Washington St., Oakland.

Ornamental Iron Work—Oakland Ornamental Iron Works, 746 21st St. Oakland.

Sub-Contracts Awarded.
RESIDENCE Cost, \$—
BERKELEY, Alameda Co., Cal. 120 Sandringham Road.

Two-story frame and stucco residence (6 rooms) English type.

Owner and Builder—A. Hammerberg, 2340 Le Conte Ave., Berkeley.

Architect—Not Given.

Concrete, Finish Cement—M. Medis, 2427 Scenic Ave., Oakland.

Painting—Joel Johnson, 3937 High St., Oakland.

Heating—M. C. Henry, 1183 53rd St., Oakland.

Plastering—John Sherman, 2119 Oregon St., Berkeley.

Electric Fixtures—Maxwell Hardware Co., 1320 Washington St., Oakland

Contract Awarded.

RESIDENCE Cont. Price, \$8313
REDWOOD CITY, San Mateo Co.

Two - story and basement frame and stucco residence (8 rooms and 4 baths) tile roof, gas hot air heating system, oak flooring, two-car garage, tile baths and kitchen.

Owner—A. Fromme.
Architect—Chester Treichel, 679 Hadron Road, Oakland.

Contractor—Orton and Tunberg, 218 Cowper St., Palo Alto.

Contract Awarded.
RESIDENCE Cont. Price, \$4750
OAKLAND, Alameda Co., Calif. St. James Wood.

Two-story and basement frame residence.

Owner—A. Klindig.
Architect—W. E. Schirmer, Financial Center Bldg., Oakland.

Contractor—Thos. F. L. Furlong, 460 Jerome Ave., Oakland.

Following bids received:

Thos. F. L. Furlong, Oakland.....	\$4,750
Jensen & Pedersen, Oakland.....	4,800
T. D. Courtright, Oakland.....	4,880
David Nordstrom, Oakland.....	4,921
B. F. Wooley, Oakland.....	4,952
J. J. Moore Co., Oakland.....	4,975
C. H. Thrans, Oakland.....	5,064
Emil Person, Berkeley.....	5,375

Prospective Bidders.

RESIDENCE Cost, \$14,000
 INVERNESS, Marin Co., Calif.
 Two-story frame residence, rustic exterior, shingle roofing, oil burners, brick and stone fireplaces, etc.
 Owner—Bruce Johnstone, Chicago.
 Architect—W. C. Ambrose, 244 Kearny St., San Francisco.

Following have procured plans. Bids open May 1, 4 P. M.:
 Moore & Roberts, 693 Mission St., San Francisco.

E. E. Vaughan, 269 Crescent Road, San Anselmo.

J. Dawson, 1507 Lincoln St., Berkeley.

G. P. W. Jensen, 320 Market Street, San Francisco.

Clinton Stephenson Const. Co., 550 Montgomery St., San Francisco.

Young & Horstmeyer, 461 Market St., San Francisco.

A. F. Mattock, 212 Clara St., San Francisco.

Jensen & Pederson, 3443 Adeline St., Oakland.

David Paganini, 519 California St., San Francisco.

Plans Being Completed.

RESIDENCE Cost, \$—
 HAYWARD, Alameda Co., Cal. Niles Road.

1½-story frame and stucco residence (six rooms) tile roof, gas heating system, hardwood floors, tiled bath, electric refrigeration, etc.

Owner—Withheld.

Architect—Geo. P. Simonds, 261 Main St., Hayward.

Bids will be asked within one week from a selected list of Hayward contractors.

Contract Awarded.

RESIDENCE Cost, \$5000
 SAN FRANCISCO. W Twentieth Ave. 100 N Ortega St.

One-story and basement frame and stucco residence.

Owner—J. J. Doyle, 42 Sanchez St., San Francisco.

Plans by H. Doelger.

Contractor—H. Doelger, 320 Judah St., San Francisco.

Contract Awarded.

RESIDENCE Cost, \$4039
 SAN FRANCISCO. E Church St. 139 S Twenty-third St.

One-story and basement frame and stucco residence.

Owner—M. E. Brown, 434 Fair Oaks St., San Francisco.

Plans by L. H. Stevenson.

Contractor—L. H. Stevenson, 130 Merced St., San Francisco.

Contract Awarded.

RESIDENCE Cost, \$8000
 PALO ALTO, Santa Clara Co., Calif. 1116 Hamilton Avenue.

Two-story and basement frame and stucco residence.

Owner—Otis Berthold, 1 Duane St., Redwood City.

Architect—Not Given.

Contractor—W. E. Klay, 124 University Ave., Palo Alto.

Preparing Working Drawings.

RESIDENCE Cost, \$150,000
 GRASS VALLEY, Nevada Co., Cal.

Two-story and basement residence (30 rooms, eleven baths, observation tower); reinforced concrete and steel construction, stone exterior walls, air conditioning system, shingle tile roof, swimming pool, etc.

Owner—Withheld.

Architect—Walter C. Clifford, 3299 Washington St., San Francisco.

Plans will be completed in about six weeks or so.

Contract Awarded.

RESIDENCE Cost, \$10,000
 PALO ALTO, Santa Clara Co., Cal. No. 2203 Waverly Street.

Two-story and basement frame and stucco residence (9 rooms and 4 baths) shakes or shingle roof, gas heating system, hardwood floors, tiled baths, etc.

Owner—Ruth G. Schmaling.

Architect—Chas. K. Sumner, Deckeroak Bldg., Palo Alto.

Contractor—E. J. Schmaling, 863 Melville Ave., Palo Alto.

To Ask Bids Within A Few Days.

RESIDENCE Cost, \$14,000
 INVERNESS, Marin Co., Cal.

Two-story frame residence, rustic exterior, shingle roofing, oil burners, brick and stone fire places, etc.

Owner—Bruce Johnstone, Chicago.

Architect—W. C. Ambrose, 244 Kearny St., San Francisco.

Preparing Working Drawings.

RESIDENCE Cost, \$6500
 SAN RAFAEL, Marin Co., Cal. Curtis Tract.

Two-story and basement frame and stucco residence (7 rooms and 2 baths) tile roof, gas heat, colored tile baths, etc.

Owner—O. R. Hartzell, Superintendent of Schools, San Rafael.

Architect—N. W. Sexton, deYoung Bldg., San Francisco.

Bids may be asked in one week.

Plans Being Figured—Bids Close May 1st.

RESIDENCE Cost, \$10,000
 BAYWOOD, San Mateo Co., Cal.

Two-story and basement frame and stucco residence (9 rooms and 3 baths); tile roof, gas hot air heating system, hardwood floors, tiled baths, electric refrigeration, etc.

Owner—E. S. Hudson.

Architect—Chester Treichel, 1540 San Pablo Ave., Oakland.

Bids are being taken from a selected list of contractors.

Contract Awarded.

RESIDENCE Cost, \$8000
 HILLSBOROUGH, Marin Co., Cal.

Two-story frame and shakes residence (7 rooms and 3 baths) shingle roof gas fired warm air heating system, pine floors, tiled baths, etc.

Owner—Roger Kent.

Plans by H. T. Howard, % Arthur Brown, Jr., 251 Kearny St., San Francisco.

Contractor—Young & Horstmeyer, 461 Market St., San Francisco.

Contract Awarded.

RESIDENCE Cost, \$4350
 SAN FRANCISCO. W 20th Ave. 100 N Ortega.

One-story and basement frame and stucco residence.

Owner—James and Charlott Doyle, 42 Sanchez Street.

Architect—Not Given.

Contractor—Henry Doelger, 320 Judah Street.

To Ask Bids In One Week.

ALTERATIONS \$30,000-\$40,000
 HILLSBOROUGH, San Mateo Co., Cal. Easton Drive.

Alterations and additions to two-story and basement frame residence (add rooms, new plumbing, heating, wiring, mill work, etc.)

Owner—Paul I. Fagan, Hillsborough.

Architect—Arthur Brown Jr., 251 Kearny St., San Francisco.

Contract Awarded.

RESIDENCE Cont. Price, \$6714
 LOS ALTOS, Santa Clara Co., Cal.

Two-story and basement frame and stucco residence (8 rooms and 2 baths); tile roof, oil burner and

hot air heating system, hardwood floors, tiled baths, etc.

Owner—M. Kirkish, Sunnyvale.

Architect—Charles McKenzie, Twohy Bldg., San Jose.

Contractor—John F. C. Kay, 302A Maude Ave., Sunnyvale.

To Ask Bids In One Week.

RESIDENCE Cost, \$6000
 BURLINGAME, San Mateo Co., Cal.

One and one-half-story and basement frame and stucco residence (five rooms) tile and composition roof, gas heat, canvas walls, tile steps, hardwood floors, cement plaster.

Owner—G. Loomis, % architect.

Architect—F. Amandes, 1879 18th Ave. San Francisco.

Sub-Bids Being Taken.

RESIDENCE Cost, \$5000
 OAKLAND, Alameda Co., Cal. Cragmont District.

1½-story frame and stucco residence (six rooms) California Colonial style (gas hot air heating system, shingle roof, etc.

Owner—Withheld.

Architect—Not Given.

Contractor—F. W. Confer, 5730 Keith Ave., Oakland.

Sub-bids are wanted on all portions of the work.

Preparing Plans.

RESIDENCE Cost, \$8000
 SANTA ROSA, Sonoma Co., Cal.

Two-story and basement frame and stucco residence (7 rooms and 2 baths); shingle roof, hot air heating system, steel sash, hardwood floors, etc.

Owner—George Garrett, Santa Rosa.

Architect—Russell Guerne DeLappe, 374 17th St., Oakland.

Bids will be asked in three or four weeks.

Bids Wanted—To Close May 6.

RESIDENCE Cost, \$7000
 HILLSBOROUGH, San Mateo Co., Cal.

Two-story and basement frame and stucco residence (7 rooms and 3 baths) shakes roof, gas air heating system, tile showers, oak floors terracing, etc.

Owner—W. E. Jason Jr., % Architect.

Architect—Farr & Ward, 68 Post St., San Francisco.

Contract Awarded.

PENT HOUSE Cost, \$2000
 OAKLAND, Alameda Co., Cal. Seventh and Kirkham Streets.

Penthouse on brewery.

Owner—Golden West Brewing Co. Premises.

Architect—R. A. Hutchison, 576 5th St., Oakland.

Contractor—A. H. Mazurette, 576 5th St., Oakland.

Sub-Contracts Awarded.

RESIDENCE Cost, \$7500
 Two-story and basement frame and stucco residence, tile roof, gas heat

hardwood floors, etc.

Owner—Alfred Matthews.

Architect—Masten & Hurd, 233 Post St., San Francisco.

Contractor—Moore & Madsen, 557 Market St., San Francisco.

Electric—George A. Klingler, 1130 Munich St., San Francisco.

Plastering—L. Severinsen, 929 Darien Way, San Francisco.

Painting—T. E. Hansen, 7 Rudden St. San Francisco.

Steel Sash—Michel & Pfeffer Iron Works, Harrison and Tenth Sts., San Francisco.

Roofing—Alta Roofing Co., 976 Indiana St., San Francisco.

Plumbing—J. Pinkerton, 927 Howard St., San Francisco.

Mill Work—National Mill & Lumber

Co., 230 California St., S. F.
Lumber — Loop Lumber Co., Central Basin.

Contract To Be Awarded.
RESIDENCES Cost, \$6500 each
MILL VALLEY, Marin Co., Cal. Blythedale Terrace.

Two one-story and basement frame and stucco residences (five rooms each) tile roof, gas heating system, colored tile baths and kitchens, colored stucco walls, canvas walls and ceilings, etc.

Owner—F. C. Sheffauer, Eldridge St., Mill Valley.

Architect—Walter Falch, Hearst Bldg., San Francisco.

Contractor—Melvine H. Klyce, 25 Eugene St., Mill Valley.

Sub-Contracts Awarded.
RESIDENCE Cost, \$—

SAN RAFAEL, Marin Co., Cal.

One-story wood frame residence (shingle exterior, eight rooms and four baths).

Owner—Mr. McCarthy.

Architect—Wm. I. Garren, 233 Post St., San Francisco.

Contractor—Moore & Roberts, 693 Mission St., San Francisco.

Mill Work—Brannan Street Planing Mill, 560 Brannan St., S. F.

Tile—Progressive Tile Co., 1216 Powell St., San Francisco.

Painting—W. G. Thompson, 336 Church St., San Francisco.

Lumber—Christensen Lumber Co., 5th and Hooper Sts., S. F.

Sub-Bids Being Taken.

RESIDENCE Cont. Price, \$313
REDWOOD CITY, San Mateo Co.

Two-story and basement frame and stucco residence (8 rooms and 4 baths) tile roof, gas hot air heating system, oak flooring, two-car garage, tile baths and kitchen.

Owner—A. Fromme.

Architect—Chester Treichel, 679 Hadson Road, Oakland.

Contractor—Orton & Tunberg, 2249 El Camino, Palo Alto (3153)

15—SCHOOLS

LINOLEUM CONTRACT AWARDED

ARCATA, Humboldt Co., Cal.—McLean Hardwood Floor Co., Sutter and Hazelton Streets, Stockton, at \$3,930 awarded contract by the State Purchasing Department, Sacramento, for furnishing and laying linoleum in the Humboldt State Teachers' College at Arcata.

SANTA BARBARA, Cal.—John L. Stewart, Santa Barbara, county purchasing agent, will advertise for bids soon for more than \$10,000 worth of school supplies for elementary school districts in Santa Barbara county.

Low Bidders.
SCHOOL Cost, \$49,000
LA GRANDE, Oregon.

Reconstruct 2-story school (replastering, new floors of white maple, new stairs and corridor walls, new heating system, circulating air, electric clocks, plumbing, wiring, etc.)

Owner—School Dist. No. 1, La Grande.

Architect—C. B. Millerd, La Grande.

Low Bidder—A. Richie, Baker, Ore.

Following are three low bidders:

A. Richie, Baker.....\$35,879

Settergren & Downing, Portland 37,400

Mowatt Const. Co., Seattle..... 37,988

Bids held under advisement. Bids on sheet metal, ventilating system, etc., will be taken shortly.

SAN FRANCISCO—E. J. Treacy, Call Bldg., at \$4750 awarded contract by Department of Public Works, for yard work at the Visitacion Valley School.

SAN FRANCISCO—Crown Fence Co. 144 Townsend St., at \$243.25 awarded contract by Department of Public Works, for two 40-ft. sections of 6-ft. C. L. fabric storm fence at the Balboa High School, Onondaga Ave. and Cayuga St., involving:
(1) 2 7/2-in. x 3-ft. gates;
(2) 4 3-in. gate posts;
(3) 4 3-in. end posts;
(4) 4 2 1/2-in. line posts;
(5) 1 1/2-in. top rail.
(1200) 1st report April 15; 2nd April 20, 1933.

16—BANKS, STORES AND OFFICES

Plane Being Figured—To Close May 1
ALTERATIONS Cost, \$70,000
SEATTLE, Wash. Second and Pike Streets.

Extensive alterations to Eitel Bldg. (work includes terra cotta trim, new elevators, entrance, terrazzo work, partition and office changes etc.)

Owner—Eitel Building, Seattle.

Architect—C. W. Voorhees, Lloyd Bldg., Seattle.

Planned.
ALTERATIONS Cost, \$—

SAN FRANCISCO. \$67-71 Market St. Alterations to 4-story and basement store (130,000 sq. ft. floor space).

Owner—J. C. Penney Co., New York City.

Plans by Engr. Dept. of Owner. The owners have opened an office at 424 Mills Bldg., San Francisco.

Sub-Contracts Awarded.
STORES & OFFICES Cost, \$—

OAKLAND, Alameda Co., Calif. SW 22nd and Broadway.

Two-story steel frame and concrete offices and stores (46x100) seven stores.

Owner—J. A. Clark.

Architect—Reed and Corlett, Bank of America Bldg., Oakland.

Contractor—F. A. Muller, Syndicate Bldg., Oakland.

Lumber—Eureka Mill & Lumber Co., 3615 E 14th St., Oakland.

Millwork—Lannom Bros. Mfg. Co., 5th and Magnolia, Oakland.

Roofing—A. K. Goodmundsen, 45th Ave. and Clement, Oakland.

Plumbing—Max Finzel, 2025 Hopkins St., Oakland.

Painting—Raphael Co., 20 Tehama St. San Francisco.

Electric—T. L. Rosenberg Co., 411 Webster St., Oakland.

Finish Hardware—Maxwell Hardware Co., 1320 Washington St., Oakland.

Plastering—Wm. Makin, 101 4th St., Oakland.

Steel Sash, Glass—East Bay Glass Co., 621 6th St., Oakland.

Sheet Metal—East Bay Sheet Metal Works, 1101 Market St., Oakland.

As previously reported, structural steel awarded to McCintic-Marshall Corp., 2050 Bryant St., San Francisco

reinforcing steel to Soule Steel Co., 1750 Army St., San Francisco; tile to Rigney Tile Co., 3012 Harrison Street, Oakland; concrete to J. H. Fitzmaurice, 2857 Hannah St., Oakland; excavation to J. Catucci, 1212 18th Ave., Oakland.

Tile Wall Unit Contract Awarded.
ALTERATIONS Cost, \$—

SAN FRANCISCO. 101 Post Street.

Alterations to 4-story stores and lofts.

Owner—Samuel Lowe.

Architect—Hyman and Appleton, 68 Post Street.

Contractor—Jacks and Irvine, 74 New Montgomery Street.

Tile Wall Units—Gladding, McBean & Co., 660 Market St.

As previously reported, heating and plumbing awarded to J. H. Pinkerton,

927 Howard St.; electric to Central Electric Co., 179 Minna St.

Contract Awarded.
STORE Cost, \$100,000

PHOENIX, Arizona.

Two-story brick and concrete store (75x175 ft.; brick and terra cotta facing, composition roofing, structural steel, cement, hardwood and terrazzo floors, plate glass, metal fire doors, ornamental iron, gas heating, etc.)

Owner—S. H. Kress Co., 114 Fifth Ave., New York City.

Plans by Engr. Dept. of Owner.

Contractor—C. S. Lambie, Amarillo, Texas.

Additional Sub-Contracts Awarded.
ALTERATIONS Cost, \$—

OAKLAND, Alameda Co., Cal. Broadway near Nineteenth Street.

Alterations to store.

Owner—Twentieth & Broadway Realty Company.

Architect—Albert Evers, 525 Market St., San Francisco.

Contractor—Lindgren & Swinerton, Inc., 225 Bush St., San Francisco.

Lessee—J. J. Newberry Company.

Glazing—East Bay Glass Co., 621 6th St., Oakland.

Plumbing—Max Finzel, 2025 Hopkins St., Oakland.

Heating and Ventilating—George C. Bell, 1825 Gleason Way, Oakland.

Steel Rolling Doors—Kennerson Mfg. Co., 361 Brannan St., San Francisco.

Cabinet Work—Weber Showcase & Fixture Co., 983 Mission St., S. F.

Hardwood Floors—Hardwood Floor Co., 2335 Broadway, Oakland.

Compressor—John Gardin, Oakland.

Tile Floor—Daahl-Thoms Co., 2335 Broadway, Oakland.

Painting—J. A. Turgeon, 512 E-12th St., Oakland.

Counter Dumb Waiter—Vincent Whitney Co., 130 10th St., S. F.

Granite—California Cut Stone Co., South San Francisco.

Other awards reported April 20.

Plans To Be Prepared.
ALTERATIONS Cost, \$25,000

SAN FRANCISCO. NE Powell and O'Farrell Streets.

Alterations to interior of two-story store and loft building.

Owner—C. G. Minifie.

Architect—W. P. Day, Financial Center Bldg., San Francisco.

Owner Taking Bids.
ALTERATIONS Cost, \$5000

SAN FRANCISCO. No. 1738-1743 Fillmore Street.

Alterations to first floor for market (new show windows, tile work, carpentry, painting, terrazzo flooring, refrigeration cabinets, ice boxes, etc.)

Owner—H. M. Labataille, 2013 Broderick St., San Francisco.

Architect—Resing & McGuinness, 488 Pine St., San Francisco

SAN FRANCISCO—Until May 5, 11:30 A. M., bids will be received by S. J. Hester, Secretary, Department of Public Works, for the insulation of partitions in the City Engineer's Office, City Hall. Estimated cost \$1500. (3118)

17—THEATRES

Plans To Be Prepared.
REBUILD THEATRE Cost, \$25,000

LINDSAY, Tulare Co., Cal.

Rebuilding theatre recently destroyed by fire (brick construction, add balcony, etc.)

Owner—Wobber Bros., 412 Jessie St., San Francisco.

Architect—Albert Schroepfer, 681 Market St., San Francisco.

Further details will be announced when fire insurance has been adjusted

18—WHARVES & DOCKS

Contract Awarded.
EXTENSION Cont. Price, \$16,190
SAN FRANCISCO.
Extension of wharf shed for Dock No. 2 (150x92 feet) steel frame, five rolling doors, copper beaming, monitor sash, copper gutters, outside walls of reinforced concrete.
Owner—United States Government.
Plans by Constructing Quartermaster, Fort Mason, San Francisco.
Contractor—Leo Epp, 4745 Geary St., San Francisco.

OAHU, T. H.—Until May 10, 11 A. M., bids will be received by District Public Works Officer, Fourteenth Naval District, Pearl Harbor, T. H., for water and electrical service at West Loch Wharf at the Naval Ammunition Depot (West Loch) Oahu, T. H. Specification No. 7137. Plans and specifications available from above office upon deposit of \$5.

Contract Awarded.
REPAIRS Cont. Price, \$857
SAN FRANCISCO. Fort Winfield Scott
Repairs to torpedo dock (new creosoted piles and timber bracing, etc.)
Owner—United States Government.
Plans by Constructing Quartermaster, Fort Mason, San Francisco.
Contractor—Duncanson Harrelson Co., deYoung Bldg., San Francisco.

Contract Awarded.
EXTENSION Cost, \$5294
ALAMEDA, Alameda Co., Calif. Adjacent to docks at Encinal Terminals.
Complete timber wharf extension.
Owner—Alaska Packing Corp., 111 California St., San Francisco.
Engineer—Phillip Bush, 101 California St., San Francisco.
Contractor—Duncanson Harrelson, deYoung Bldg., San Francisco.

19—MISC. CONSTRUCTION

Bids Wanted—To Close May 2nd, 10 A. M.
CAMP Cost, \$1500
TUOLUMNE, Calif. (Near Groveland)
One-story frame dining room, kitchen and store room; single roof.
Owner—City of Berkeley.
Plans by S. P. Koch, Chief Building Inspector, Berkeley.
Plans and specifications available from Building Department, City Hall, Berkeley, upon deposit of \$5.00.

SAN YSIDRO, San Diego Co., Cal.—Until Thursday, May 4 (opening date postponed from April 24, bids will be received by the Bureau of Customs, Division of Engineering and Weighing, Treasury Department, Washington, D. C., for complete construction of gates at the International boundary across the highway at the port of San Ysidro. Plans call for structural steel gates in four sections, two 24 feet wide and two 27 feet wide. Plans and specifications may be obtained from Wm. H. Ellison, collector of customs, Federal Bldg., San Diego.

Following have procured plans: Offenhauser Bayer Co., 1456 J St., San Diego; National Iron Works, Foot of 7t St., San Diego; Fenton Material Co., 13th and National Ave., San Diego; T. B. Penick & Sons, 3075 L St., San Diego; Givan & Ogle Iron Works, 6203 Maywood Ave., Bell; Anchor Post Fence Co., 616 S. Anderson St., Los Angeles; Southern California Ornamental Iron Works, 7281 Santa Monica Blvd., Los Angeles; Minneapolis-Moline Power Implement Co., 933 Chapman Bldg., Los Angeles; American Bridge Co., Plttsburgh, Pa.; Cen-

tury Fence Co., Waukesha, Wis.; Columbia Steel Co., 2037 E. Slauson Ave., Los Angeles; Cyclone Fence Co., Waukegan, Ill.; Soule Steel Co., Los Angeles; Standard Iron Works, San Diego. 19

MARE ISLAND, Calif.—Following have procured plans for the purpose of submitting bids to the Public Works Officer, U. S. Navy Yard, Mare Island, on May 3, 11 A. M., for furnishing all labor and material necessary to install complete and ready for service six projector antennae, four double antennae and connecting transmission lines, including poles, arms, supports, anchors, wires, insulators and special fittings, at the Naval Radio Station, Mare Island; Spec. No. 7304:

Golden Gate Iron Works, 1541 Howard St., San Francisco.

Butte Electric & Mfg. Co., 956 Folsom St., San Francisco.

H. S. Tittle, 85 Columbia Square, San Francisco.

Severin Electric Co., 172 Clara St., San Francisco.

Plans and specifications available from the Commandant, Navy Yard, Mare Island, upon deposit of 510.00.

SAN FRANCISCO—Rees Blow Pipe Mfg. Co., 340 7th St., at \$30 awarded contract by Department of Public Works for repairs to parts of Municipal Asphalt Plant, involving 20 elevator buckets; 50 ft. rubber transmission belt, etc.

SAN FRANCISCO—Standard Asbestos Co., 744 Folsom St., at \$58 submitted low bid to Department of Public Works for cover and painting steel piping, etc., at the Health Center. Following bids received:
Standard Asbestos Co. \$58
Extra 20
Western Asbestos Magnesia Co. 66
Plant Rubber & Asbestos Co. 76
Bids held under advisement.

SAN FRANCISCO—San Francisco Elevator Co., 860 Folsom St., at \$158 submitted low informal bid to S. J. Hester, secretary, Department of Public Works, for repairs to elevator cables in the City Hall, involving six ½-in. 6-strand steel cables. Complete bids follow:
S. F. Elevator Co. \$158.00
Otis Elevator Co. 160.50
Alternate 151.00
Westinghouse Elec. Elev. Co. 189.00
Bids held under advisement.

Contract Awarded.
CREMATORIUM, ETC. Cost, \$15,000
SAN JOSE, Santa Clara Co., Cal.
Oak Hill Cemetery.
One-story frame and stucco crematorium and chapel.
Owner—Oak Hill Cemetery, Monterey Road, San Jose.
Architect—F. H. Slocombe, 131 Monte Cresta Ave., Oakland.
Contractor—Henry Bridges, 1398 Lincoln St., San Jose.

To Be Done By Day's Work.
DOG TRACK Cost, \$50,000
PORTLAND, Ore. Multnomah Stadium.
Dog racing plant.
Owner—Peter P. O'Connor, et al Bayshore Kennel Club, Belmont, Cal.)
Plans by Owners.
A permit has been granted.

WASHINGTON, D. C.—I. Nekomoto, Honolulu, T. H., at \$7,450 awarded contract by the Bureau of Yards and Docks, for cleaning and painting the coaling plant trestle, two coal hoisting towers and two coal chutes at the 14th Naval District (Naval Fuel Depot) Pearl Harbor, T. H. Spec. No. 7236.

PEARL HARBOR, T. H.—E. E. Black Co., Honolulu, submitted low bid to Bureau of Yards and Docks at \$7287, for modification of engine test stand at the Fleet Air Base, Pearl Harbor; Spherification No. 7241. Other bids were: John Hansen, \$7424; A. Nekomoto, \$7550. All bids were rejected and the project has been cancelled.

20—MISC. SUPPLIES AND MATERIALS

April 21, 1933
BIDS WANTED

PHOENIX, Ariz.—Until May 8, 4 P. M., bids will be received by Dr. A. J. Wheeler, Supt., Phoenix Indian Sanatorium, 1550 E. Indian School Rd. Phoenix, to furnish 200 bbls. (800 sacks) Portland cement in non-returnable paper sacks. 20

SACRAMENTO, Cal.—Toledo Scale Co., Toledo, Ohio, at \$338 submitted low bid to resident engineer, Sacramento, for a truck scale for the U. S. post office at Sacramento. Only other bid was submitted by the Fairbanks Scale Co., San Francisco, at \$363.08. Bids under advisement. (1258) 20

LOS ANGELES, Calif.—California Portland Cement Co., Pacific Mutual Bldg., awarded contract by county supervisors April 19 at \$2.02 per barrel, total \$48,480, under Proposal No. 2, Alt. No. 1, f.o.b. cars at mill, to furnish 24,000 barrels of cement to be used in the construction of San Gabriel Dam No. 1.

UKIAH, Mendocino Co., Calif.—Until May 9, 2 P. M., bids will be received by H. M. Burke, county clerk, to furnish 100,000 ft. b.m. lumber, as follows:

3x4-in. from 12- to 20-ft. construction redwood;
3x12-in., 18-ft. long construction fir;
3x12-in., 18-ft. long construction redwood;
12x14-in., 20-ft. const. redwood;
2x6-in., 16-ft. const. redwood;
2x8-in., 16-ft. const. redwood;
2x8-in., 16-ft. const. fir;
6x16-in., 20-ft. dense sel. redwood.
Delivery on order at Fort Bragg, Willits, Ukiah and Hopland between July 1 and January 1, 1934.

HAMILTON FIELD, Marin Co., Calif.—Until May 5, 11 A. M., bids will be received by the Constructing Quartermaster, Fort Mason for furnishing and installing 38 ranges for domestic use to burn natural gas at Hamilton Field. Bids previously taken were rejected.

SAN FRANCISCO, Calif.—Until May 5, 11 A. M., bids will be received by the Constructing Quartermaster, Fort Mason, for furnishing and installing 32 gas ranges for domestic use, to burn natural gas, at Fort Mason. Bids previously received were rejected.

ALAMEDA, Cal.—U. S. Bureau of Public Roads rejected all bids to construct a part of Unit 9, chain link boundary fence and ornamental entrance gateway on the U. S. 15-acre tract at Government Island, Alameda. New bids will be asked in the near future. On bid opening lowest bid was submitted by Anchor Post Fence Co. at \$9385.

SUNNYVALE, Santa Clara Co., Cal.—Golden Gate Iron Works, 1541 Howard Street, San Francisco, at \$4,500 awarded contract by Bureau of Yards and Docks, Navy Department, for alterations to trolley beams in the hangar at the Naval Air Station, Sunnyvale. Spec. No. 7243.

ENGINEERING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

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| 21.—Bridges | 30.—Reservoirs and Dams |
| 22.—Dredging, Harbor Works, Excava. | 31.—Pipe Lines and Wells |
| 23.—Irrigation Proj. | 32.—Sewers & Sewage Disposal Plants |
| 24.—St. Light. Systems | 33.—Water Works |
| 25.—Machinery and Equipment | 34.—Parks & Playgrounds |
| 26.—Railroads | 35.—Tunnels |
| 27.—Fire Alarm Sys. | |
| 28.—Fire Equipment | |
| 29.—Streets & Highways | |

21—BRIDGES

LOS ANGELES, Cal.—Jos. Maiser, 1241 W 97th St., awarded contract by board of public works, April 19, at \$6245 to install ornamental concrete work and an ornamental lighting system in Whittier Blvd., bet. Boyle Ave. and Inez St. Cash contract for the east approach to the 6th St. viaduct.

SANDPOINT, Idaho—A. B. Carscadden, Coeur d'Alene, at \$24,553.50 submitted low bid to Bonner County Commissioners to construct concrete piers, steel superstructure and timber deck of 102-ft. bascule span under Sec. 3, Sandpoint Bridge, North and South Highway. Complete bids follow:

- A. B. Carscadden, Cotur d' Alene, \$24,553.50.
Puget Construction Co., Seattle, \$25,968.
Triangle Constr. Co., Spokane, \$26,162.
Arnett & Son, Sandpoint, \$26,350.
First two bids held under advisement.

LOS ANGELES, Cal.—City Bridge Engineer R. W. Stewart preparing plans for a viaduct across the Los Angeles River and the Southern Pacific Railway tracks to connect the north portal of the recently completed tunnel with Dayton Av. at San Fernando Road, to eliminate the present sharp turn at the base of the hill, where the road crosses the present bridge. The proposed structure, which will cost between \$800,000 and \$900,000, will be of reinforced concrete construction of seven arch spans. The total length of the bridge will be 1040 feet with a 40-foot roadway and a total width of 54 feet. There will be 26 light standards. While the method of financing has not been determined, it will probably be principally, if not all, cash.

LAKE COUNTY, Cal.—Thomas J. Doyle, 1527 17th Ave., San Francisco, at \$2537 awarded contract by U. S. Bureau of Public Roads to construct Bartlett Creek Bridge on Section B of Route 8, Upper Lake-Bartlett National Forest Highway.

22—DREDGING, HARBOR WORKS, EXCAVATION

LOS ANGELES, Cal.—Until 10 A. M., May 10, bids will be received by Board of Public Works to improve Ocean Front, between 23rd Ave. and 34th Ave., Venice, under cash contract, involving:

- (1) 142 cre. piles, 10-in. x 20-ft.;
(2) 67 creo. caps. 10 x 10-in. x 10-ft.;
(3) 3 creo. caps. 10 x 10-in. x 15-ft.;

- (4) 350 stringers;
(5) 2012 pcs. decking;
(6) 381 ft. top rails;
(7) 134 ft. middle rail;
(8) 84 pcs. blocking.

STAIRS

- (9) 12 creo. piles, 10-in. x 20-ft.;
(10) 3 creo. caps;
(11) 12 stringers;
(12) 36 treads;
(13) decking, posts, rails, etc.

APPROACH ROAD

- (14) 20 creosoted piles, 10-in. x 15-ft.;
(15) 10 stringers.

SAN DIEGO, Cal.—Until 10 A. M., June 5, bids will be received by city council to furnish all materials, labor, and equipment and dredge a portion of San Diego Bay (to be known as Alexander Shoal) and deposit dredged material from said shoal on a certain area of the Municipal Tidelands. Plans and specifications obtainable from A. Ray Sauer Jr., Purchasing Agent, Room 205 Pacific Bldg., 524 F St., San Diego. The work will involve handling approximately 600,000 cu. yds. material.

24—ST. LIGHT. SYSTEMS

WASHINGTON, D. C.—Until May 9, 11 A. M., bids will be received by Public Works Officer, Eleventh Naval District, Foot of Broadway, San Diego, for improvement for night flying seaplane operations at the Naval Operating Base (Air Station) San Diego, Calif. Specification No. 7118.

The work consists of a lighting system for the station pier, a lighting system for landing area adjacent to Buildings Nos. 29 and 68 and two flood light stations with timber shelters and auxiliary equipment. The work will include in general the following: (a) For Pier—the furnishing and installing of 10 new light standards, the modifying of five existing light standards and relocating three of the standards, also the furnishing and installing of control panel board and cabinet, fuse boxes, conduit, wire, cables, etc. (b) For area adjacent to buildings 29 and 68—the furnishing and installing of 12 floodlights, two control panel boards and cabinets, conduits, wire, etc. (c) The furnishing and installing of two flood lights, with timber shelters, manholes, conduits, cables and auxiliary equipment.

Bidding data available from above and from Bureau of Yards and Docks, Navy Department, Washington, D. C., upon deposit of \$10.

25—MACHINERY AND EQUIPMENT

PHOENIX, Ariz.—Until May 10, 4 P. M., bids will be received by Dr. A. J. Wheeler, Supt., Phoenix Indian

Sanatorium, 1550 E Indian School Rd., Phoenix, to furnish one power pipe machine for cutting and threading ½ to 2-in. pipe, equipped with ½-h.p. ball bearing Universal motor; oil pump.

26—RAILROADS

LOS ANGELES, Cal.—Construction of the uncompleted portion of the harbor cutoff of the Santa Fe Railway will proceed shortly following an agreement between the harbor department and the railway company. The cost will be borne jointly by the two parties. The rail line, which is about 13,000 ft. in length, will cost \$625,000. It will extend from Weston St. in the Watson refinery district, south under Anaheim viaduct, thence west to connect with the harbor belt line at McFarland Ave., Wilmington. The new work is to be completed in the fall.

DENVER, Colo.—U. S. Bureau of Reclamation, Custom House, Denver, studying freight car transfer cradle for taking loaded freight cars from the U. S. construction railroad on the rim of Boulder canyon down into the canyon by means of the 150-ton capacity cableway to the Hoover dam site. From the cableway landing a railroad will extend into the power plant.

LUALUALEI, T. H.—H. K. Porter Co., Pittsburgh, Pa., submitted low bid to Bureau of Supplies & Accounts Navy Department, on April 18 at \$38,088, \$41,014, \$38,274 and \$39,670 to furnish two switching locomotives and spares for Lualualei and West Loch, T. H.; Schedule 9790, Y. & D., Lot 69.

LUALUALEI, T. H.—Koppel Industrial Car & Equipment Co., Koppel, Pa., submitted low bid to Bureau of Supplies and Accounts, Navy Department, on April 18, at \$14,688, to furnish eight railway cars for Lualualei and West Loch, T. H.; Schedule 9861, Y. & D., Lot 228.

30—RESERVOIRS & DAMS

PITTSBURG, Contra Costa Co., Cal.—Shell Chemical Co., Pittsburg, is taking estimates from a selected list of contractors to dredge 4500 ft. of canal and construct 2500 ft. pipe line to carry river water to a pumping station near the plant. Ewald Pyzel, Superintendent.

SAN FRANCISCO — Constructing Quartermaster, Fort Mason, will ask bids in about two weeks for a 16- or 18-inch double case well at Lobos Creek. Work involves electric motor pump, etc.

PASADENA, Cal.—Samuel F. Morris, Chief Engineer Water Department, preparing plans for enlargement of Sunset Reservoir on Mountain Street in preparation for the proposed conduit line to be built between Pine Canyon Dam and city. Present plans call for increasing the capacity of the reservoir from 5,000,000 gallons to 10,000,000 gallons. Water aeration and purification equipment will be included. The pipe line will be approximately 95,000 lin. ft. of probably 40-in. welded steel pipe with 1800 ft. of concrete pipe, the latter to be laid within city.

CAPITAL CITY TITLE COMPANY

J. C. PALEN,
Manager

914 Seventh Street
Sacramento :: California

PASADENA, Los Angeles Co., Cal.—Samuel B. Morris, Chief Engineer, Water Department, is preparing specifications for three drum gates for the Pine Canyon Dam. Bids will be called in about two months. The proposed gates will be of the downstream hinge type, each 70 feet in length by 18 ft. high, with automatic control. The equipment will weigh approximately 1,000,000 lbs. The contract will be for fabrication only, as installation will be part of the general contractor's contract.

LOS ANGELES, Calif.—Chicago Bridge & Iron Works, at \$3195 each, total \$9585, low on riveted tank type reservoir, April 26, bids submitted to Metropolitan Water District, Los Angeles, to construct three 300,000-gal. water reservoirs on the construction supply line of the Colorado River Aqueduct. Western Pipe & Steel Co., Los Angeles, second low at \$3360 ea.; \$10,080 total.

Western Pipe & Steel Co. low at \$3175 each for bolted tank type; Consolidated Steel Corp., Los Angeles, second at \$3274 each.

Alex D. Chalmers and Max Winters, Jr., 2925 Knox Ave., Los Angeles, submitted only bid on Gunited type reservoirs: \$1.42 cu. yd. for excavation; \$1.10 cu. ft. for Gunitite lining; roofs \$880 each; total \$10,090.

32—SEWERS & SEWAGE DISPOSAL PLANTS

PALO ALTO, Santa Clara Co., Cal.—Proposed sewage system, for which \$90,000 bond election will be held May 9, will involve pumping and preliminary treatment plant pipe line connecting with the Mayfield outfall and the new South Oregon Ave. tract sewers; intercepting sewer along Arroyo Road; and pipe carrying treated sewage to the Bay. The Stanford sewer line would enter the intercepting sewer on Arroyo Road. J. F. Byxbee, Jr., city engineer.

LOS ANGELES, Cal.—Merritt Chapman & Scott Corp., 720 Wilmington Road, San Pedro, awarded contract by board of public works April 19 at \$62,972 (based on the use of vitrified and cast iron pipe, Total 1), to construct sewer crossing the main ship channel bet. Harbor Blvd. and a point north of Terminal Way, in the San Pedro District, under cash contract.

33—WATER WORKS

PITTSBURG, Contra Costa Co., Cal.—City contemplates augmenting water supply by diversion from Marsh Creek, involving construction as follows:

Diversion dam;
2200-ft. tunnel;
Open ditch or conduit, 4500-ft.;
2,000,000-gal. capacity reservoir;
2,000,000-gal. capacity reservoir;

Also an auxiliary supply from the main ditches of the East Contra Costa County Irrigation District, to be pumped into same reservoir, involving:

40,000-ft. pipe line, 20-in. dia.;
Filtration plant, 3,000,000-gal. daily capacity;

Also a 1,000,000-gal. storage at filtration plant, including a pipe line (about 3 miles long) from plant to Pittsburg mains.

Estimated cost, \$750,000. E. L. O'Hara, Antioch City Engineer and C. C. Kennedy, Call Bldg., San Francisco, are preparing the plans. Project will be financed by a bond issue of a water district which will be formed; bonds will probably be purchased by the Reconstruction Finance Corporation.

LOS ANGELES, Cal.—General Elec. Supply Corp., awarded contract by A. J. Holm, City Purchasing Agent, April 21, at \$3722 (estimated total), for furnishing Water and Power Department with galvanized steel conduit under Specifications No. 3049. The bids were opened April 12.

SONOMA, Sonoma Co., Calif.—City council instructs engineers to prepare plans for construction of municipal water system, and bids will be called about May 12, to be opened about June 2. Project involves:

2 wells, 200-ft. or more deep, 250-gpm. capacity;
2 electric pumps;
400,000-gals. reinf. conc. reservoir at W First St., involving 800 lbs. reinforcing steel and 150 cu. yds. concrete;

Pump house;

Work shop.

Project will include 265 services with meter connections; hydrants will remain as they are and will be reconnected.

Estimated cost, \$33,000. Hussey & Belcher, Syndicate Bldg. Oakland, engineers on the project.

CALIFORNIA STATE.—The proposed \$160,000,000 program for state water conservation is before the state senate for action. Assembly constitutional amendment No. 18 has been adopted by the assembly and will put in motion the general plan for constructing the proposed works involved. The amendment will have to be adopted at the next general election and a \$160,000,000 bond issue voted. The project involves:

Kennett Dam, Shasta County, capacity 2,000,000 acre feet, to impound the flood waters of the Sacramento river; cost, \$84,000,000.

Friant Dam, to impound the waters of the San Joaquin river, \$15,000.

Diversion of water from the Sacramento river to the San Joaquin river, involving pumps and canals, at an estimated cost of \$15,000,000.

ALHAMBRA, Los Angeles Co., Cal.—The amount of the proposed water bond issue, to be voted on June 6, has been changed by city commission from \$500,000, as originally planned, to \$340,000. It is believed this amount will be sufficient to cover the proposed development of the Rion Hondo property.

LOS ANGELES, Calif.—Associated Piping & Engr. Co. awarded contract by Saul A. Joseph, Purchasing Agent, Metropolitan Water District, April 20 at \$2087.74, to furnish valves and nipples under Bid No. 9194. All bids were identical at \$2174.65 except Santa Fe Pipe & Supply Co., at \$3192.31.

Crane Co., Oil Well Supply Co., National Supply Co., Republic Supply Co., M. O. Haldeman, L. A. Valve & Fitting Co., Hacker Pipe & Supply Co., Frick Reid Supply Co., Warren & Bailey, Rensselaer Valve Co., Griffith Pipe & Supply Co., Petroleum Equip. Co., Familian Pipe & Supply Co., Calif. Pipe & Supply Co., Ducommun Hardware Co., Grinnel Co., Kennedy Valve Mfg. Co., Kelly Pipe Co., Midwest Piping & Supply Co., Goddard-Jackson Co.

LOS ANGELES, Cal.—Merritt Chapman & Scott Corp. awarded contract by A. J. Holm, City Purchasing Agent, April 20, at \$5000 (estimated total), for repairing 12-in. Metropolitan type joint cast iron water pipe line in Los Angeles Harbor under Spec. No. 3053. The bids were opened April 14.

CALEXICO, Imperial Co., Calif.—New specifications to furnish pump-

ing equipment for water department will be prepared by city engineer. The new specifications were deemed necessary by the council as the manufacturers reported that they could not meet the specifications as previously drawn.

BRENTWOOD, Contra Costa Co., Calif.—As previously reported, until May 9, 2 P. M., bids will be received by East Contra Costa Irrigation District, Brentwood, Margaret Wallace, secretary, to replace present electric motors on pumps and appurtenant equipment with natural gas engines, under two plans of financing: (a) district to finance project; (b) manufacturer to finance project and to be repaid in five equal annual installments. Project involves:

Four 7.5-hp. units for driving priming compressors, hydraulic valve control equipment;

Three 5-hp. units, do;

Small engine to operate the present pump priming compressor;

Gas meter for each unit.

Further specifications, etc., obtainable from above office.

SAN FRANCISCO.—G. W. Williams Co., Ltd., 315 Primrose Road, Burlingame, at \$22,590.50 awarded contract by Public Utilities Commission to construct the Crystal Springs Pumping Station extension, San Francisco Water Department Contract No. 32.

35—TUNNELS

LOS ANGELES, Cal.—The board of directors of the Metropolitan Water District, upon the recommendation of F. E. Weymouth, Chief Engineer and General Manager, at the board meeting April 21, decided that in the future bids for tunnel construction would be taken only on specifications for full capacity tunnels. The department will probably issue a formal statement later.

LOS ANGELES, Cal.—Until 10 A. M., June 12, bids will be received by the Metropolitan Water District, 306 W 3rd St., Los Angeles, for constructing the Colorado River, Copper Basin, Whipple Mountain and White-water Tunnels and appurtenant works of the Colorado River Aqueduct, in accordance with plans and specifications which may be obtained about May 1 at Room 1004, 306 W 3rd St., or at the district's office. Bidding, upon payment of \$5 per set, which sum will not be returned.

The call for bids issued April 17, calling for alternative proposals on full-capacity and half-capacity tunnels has been withdrawn and the present advertisement on full-capacity only substituted.

The first three tunnels are located in the Whipple Mountains, San Bernardino County, 17 to 25 miles northeast of the station of Vidal, on the A. T. & S. F. Ry., and 8 to 14 miles northeast of Parker, Ariz.; the White-water tunnels are located about 14 miles east of Banning, Riverside Co. The locations along the aqueduct center line are as follows: Colorado River Tunnel Sta. 10 plus 40 to Sta. 66 plus 80; Copper Basin No. 1, Sta. 180 plus 50 to Sta. 188 plus 00; Copper Basin No. 2, Sta. 192 plus 00 to Sta. 308 plus 00; Whipple Mountain Sta. 352 plus 70 to Sta. 674 plus 60; White-water No. 1, Sta. 9661 plus 80 to Sta. 9681 plus 50; White-water No. 2, Sta. 9707 plus 00 to Sta. 9787 plus 70. The work to be bid upon consists of the construction of six concrete lined water supply tunnels with an interior dia. of 16 ft. and has been divided into schedules as follows:

Sch.	Tunnel	Length Miles
1	Colorado River	1.07
2	Copper Basin No. 1 and east ptn Copper Basin No. 2	1.17
3	Copper Basin No. 2, west ptn	1.17
4	Whipple Mountain, east ptn	1.89
5	Whipple Mountain, central ptn	3.18
6	Whipple Mountain, west ptn	1.02
7	Whitewater Nos. 1 and 2	1.90

F. E. Weymouth is General Manager and Chief Engineer.

LOS ANGELES, Cal.—Contracts for constructing the Iron Mountain, Coxcomb and Cottonwood Tunnels of the Colorado Aqueduct, using full capacity tunnels of 16-ft. dia. awarded by the Metropolitan Water District April 21, as follows:

IRON MOUNTAIN TUNNEL
East Portion, Schedule No. 1, 23,-633 ft. of 16-ft. dia. tunnel to Winston Bros. Co., 418 S Pecan St., Los Angeles, at \$2,143,799.

West Portion, Schedule No. 3, 16,-172 ft. of 16-ft. dia. tunnel, to Utah Const. Co., 1 Montgomery Street, San Francisco, at \$1,699,705.

The total cost of the Iron Mountain Tunnel is \$3,843,504.

COXCOMB TUNNEL
East Portion, Schedule No. 5, 8,-765 ft. of 16-ft. dia. tunnel to Winston Bros. Co. at \$799,236.05.

West Portion, Schedule No. 7, 8,-765 ft. of 16-ft. dia. tunnel to Winston Bros. Co. at \$825,279.30.

The total cost of the Coxcomb Tunnel is \$1,624,515.35.

COTTONWOOD TUNNEL
East Portion, Schedule No. 9, 10,-044 ft. 16-ft. dia. tunnel, to J. F. Shea Co., Inc., Boulder City (rep. by Martin Bross, 227 S Bedford Drive, Beverly Hills, at \$928,938.50.

West Portion, Schedule No. 11, 10,-044 ft. 16-ft. dia. tunnel, to J. F. Shea Co., Inc., at \$928,123.50.

The total cost of the Cottonwood Tunnel is \$1,857,062.

The total cost of the three tunnels based on the above contracts will be \$7,325,081.35.

These contracts arranged according to bidders follows:

Winston Bros.—East portion of the Iron Mountain Tunnel, at \$2,143,799. East portion of the Coxcomb Tunnel at \$799,236.05; and the West portion of the Coxcomb Tunnel at \$825,279.30.

Utah Const. Co.—West portion of the Iron Mountain Tunnel at \$1,699,705.

J. F. Shea Co., Inc.—East portion of the Cottonwood Tunnel at \$928,-938.50; West portion of the Cottonwood at \$928,123.50.

LOS ANGELES, Cal.—Subcontracts on the Bernasconi Tunnel project awarded by Hamilton & Gleason Co., general contractors, are:

Holmes Supply Co., 4th and Santa Fe Ave., Los Angeles, camp facilities, housing and feeding of men.

H. W. McKinley, care F. H. Timpson, 1525 Baxter St., Los Angeles, tunnel access, East Port.

The Hamilton & Gleason Co. will maintain an office on the site. The company's general superintendent is H. J. King, whose office is on the site.

LOS ANGELES, Calif.—Until 10 A. M., May 22, bids will be received by the Metropolitan Water District, 306 W Third St., Los Angeles, for constructing the Eagle Mountain, Hayfield and Mecca Pass Tunnels of the Colorado River Aqueduct, with a finished diameter of 16 ft. The district has withdrawn the previous call for bids calling for alternative proposals for a tunnel of 12 ft. 4 in. The Eagle Mountain and Hayfield tunnels are located in the Eagle Mountains about 40 and 35 miles, respectively, easter-

ly from Indio; the Mecca Pass tunnels are located in the Cottonwood Mountains about 13 miles east of Indio; all in Riverside County, Calif. The work to be bid upon consists of the excavating and lining of seven tunnels and has been divided into schedules as follows:

Sch. 1, East Eagle Mountain, 1.79 miles.

Sch. 3, West Eagle Mountain, east portion, 2.97 miles.

Sch. 5, West Eagle Mountain, west portion, 2.01 miles.

Sch. 7, Hayfield No. 1, east portion, 0.91 mile.

Sch. 9, Hayfield No. 1, west portion, 0.91 mile.

Sch. 11, Hayfield No. 2, 1.02 miles.

Sch. 13, Mecca Pass Nos. 1, 2 and 3, 1.11 miles.

Each proposal must be accompanied by a certified or cashier's check in the amounts shown below:

The tables of bidding checks follow:

Schedules	Check
1	\$50,000
3	80,000
5	55,000
7	25,000
9	25,000
11	30,000
13	30,000

The faithful performance bond shall be as shown in the table below, viz.:

Schedules	Bond
1	\$250,000
3	400,000
5	275,000
7	125,000
9	125,000
11	150,000
13	150,000

The bond for materialmen and laborers shall be in the sum required by California statutes.

Plans may be purchased from the Chief Engineer, room 1004, 306 West Third St., for \$5.00 per set, which sum shall not be returned. F. E. Weymouth, General Manager and Chief Engineer. The approximate quantities and schedules follow:

SCHEDULE 1

Construction of East Eagle Mountain tunnel and appurtenant works, between Station 5879 plus 31 and Station 5973 plus 91. Tunnel diameter 16 feet 0 inches, length 9460 feet.

- (1) tunnel access works (lump sum);
- (2) does not apply here;
- (3) 103,900 cu. yds. excav. in tunnel;
- (4) 50 cu. yds. excav. for tunnel enlargement;
- (5) does not apply here;
- (6) 27,000 cu. yds. conc. in tunnel;
- (7) 200 M. ft. b.m. furnish and place permanent timbers in tunnel;
- (8) 10 tons erect steel support in tunnel;
- (9) 100 cu. yds. Gunite coating of rock in tunnel;
- (10) 40 connections for grouting;
- (11) 50 cu. yds. mix and place grout;
- (12) 50,000 lbs. place reinf. steel;
- (13) 10,000 cu. yd. miles overhaul of concrete aggregates;
- (14) 1600 ton-miles hauling steel;
- (15) 305,000 ton-miles hauling cement.

SCHEDULE 3

Construction of the East portion, West Eagle Mountain tunnel and appurtenant works, between Station 6017 plus 31 and Station 6171 plus 00. Tunnel diameter 16 feet 0 inches, length 15,669 feet.

- (1) tunnel access works (lump sum);
- (2) does not apply here;
- (3) 170,500 cu. yds. excav. in tunnel;
- (4) 50 cu. yds. excav. for tunnel enlargement;
- (5) does not apply here;
- (6) 44,300 cu. yds. concrete in tunnel
- (7) 180 M. ft. b.m. furnish and place permanent timbers in tunnel;
- (8) 20 tons erecting steel support in tunnel;
- (9) 90 cu. yds. Gunite coating of rock in tunnel;

- (10) 40 connections for grouting;
- (11) 60 cu. yds. mix and place grout;
- (12) 60,000 lbs. place reinforcing steel;
- (13) 15,000 cu. yd. miles overhaul of concrete aggregates;
- (14) 2100 ton-miles hauling steel;
- (15) 480,000 ton-miles hauling cement.

SCHEDULE 5

Construction of the West portion, West Eagle Mountain tunnel and appurtenant works, between Station 6174 plus 00 and Station 6281 plus 69. Tunnel diameter 16 feet 0 inches, length, 10,649 feet.

- (1) does not apply here;
- (2) 6000 cu. yds. excav. in approach cut;
- (3) 115,800 cu. yds. excav. in tunnel;
- (4) 40 cu. yds. excav. for tunnel enlargement;
- (5) 560 cu. yds. concrete in approach section;
- (6) 30,100 cu. yds. concrete in tunnel
- (7) 115 M. ft. b.m. furnish and place permanent timbers in tunnel;
- (8) 5 tons erecting steel support in tunnel;
- (9) 60 cu. yds. Gunite coating of rock in tunnel;
- (10) 30 connections for grouting;
- (11) 40 cu. yds. mix and place grout;
- (12) 25,000 lbs. place reinf. steel;
- (13) 10,000 cu. yd. miles overhaul of concrete aggregates;
- (14) 1400 ton-miles hauling steel;
- (15) 262,000 ton-miles haul cement.

SCHEDULE 7

Construction of the East portion, Hayfield No. 1 tunnel and appurtenant works, between Station 5959 plus 53 and Station 6008 plus 52. Tunnel dia. 16 feet 0 inches, length 4839 feet.

- (1) does not apply here;
- (2) 3300 cu. yds. excav. in approach cut;
- (3) 52,300 cu. yds. excav. in tunnel;
- (4) 40 cu. yds. excav. for tunnel enlargement;
- (5) does not apply here;
- (6) 13,600 cu. yds. conc. in tunnel;
- (7) 22 M. ft. b.m. furnish and place permanent timbers in tunnel;
- (8) 5 tons erecting steel support in tunnel;
- (9) 35 cu. yds. Gunite coating of rock in tunnel;
- (10) 20 connections for grouting;
- (11) 25 cu. yds. mix and place grout;
- (12) 25,000 lbs. place reinforcing steel
- (13) 5000 cu. yd. miles overhaul of concrete aggregates;
- (14) 520 ton-miles hauling steel;
- (15) 102,000 ton-miles haul cement.

SCHEDULE 9

Construction of the West portion, Hayfield No. 1 tunnel and appurtenant works, between Sta. 6008 plus 52 and Station 6058 plus 65. Tunnel dia. 16 feet 0 inches, length 4838 feet.

- (1) does not apply here;
- (2) 8200 cu. yds. excav. in approach cut;
- (3) 52,300 cu. yds. excav. in tunnel;
- (4) 40 cu. yds. excav. for tunnel enlargement;
- (5) 800 cu. yds. concrete in approach section;
- (6) 13,600 cu. yds. concrete in tunnel
- (7) 22 M. ft. b.m. furnish and place permanent timbers in tunnel;
- (8) 5 tons erect steel support in tunnel;
- (9) 35 cu. yds. Gunite coating of rock in tunnel;
- (10) 20 connections for grouting;
- (11) 25 cu. yds. mix and place grout;
- (12) 25,000 lbs. place reinforcing steel
- (13) 5000 cu. yd. miles overhaul of concrete aggregates;
- (14) 520 ton-miles hauling steel;
- (15) 102,000 ton-miles haul cement.

SCHEDULE 11

Construction of Hayfield No. 2 tunnel and appurtenant works, between Sta. 6065 plus 40 and Sta. 6121 plus 00. Tunnel dia. 16 feet 0 inches, length 5360 feet.

- (1) does not apply here;

- (2) 11,300 cu. yds. excav. in approach cut;
- (3) 58,000 cu. yds. excav. in tunnel;
- (4) 40 cu. yds. excav. for tunnel enlargement;
- (5) 940 cu. yds. concrete in approach section;
- (6) 15,100 cu. yds. conc. in tunnel;
- (7) 33 M. ft. b.m. furnish and place permanent timbers in tunnel;
- (8) 10 tons erect steel support in tunnel;
- (9) 35 cu. yds. Guniting coating of rock in tunnel;
- (10) 20 connections for grouting;
- (11) 25 cu. yds. mix and place grout;
- (12) 25,000 lbs. place reinforcing steel
- (13) 5000 cu. yd. miles overhaul of concrete aggregates;
- (14) 670 ton-miles hauling steel;
- (15) 112,000 ton-miles haul cement.

SCHEDULE 13

Construction of Mecca Pass Nos. 1, 2 and 3 tunnels and appurtenant works between Sta. 7084 plus 85 and Sta. 7187 plus 35. Tunnel dia. 16 feet 0 inches, length 5875 feet.

- (1) does not apply here;
- (2) 31,300 cu. yds. excav. in approach cut;
- (3) 65,300 cu. yds. excav. in tunnel;
- (4) 40 cu. yds. excav. for tunnel enlargement;
- (5) 2550 cu. yds. conc. in approach section;
- (6) 17,000 cu. yds. conc. in tunnel;
- (7) 200 M. ft. b.m. furnish and place permanent timber in tunnel;
- (8) 20 tons erecting steel support in tunnel;
- (9) 100 cu. yds. Guniting coating of rock in tunnel;
- (10) 20 connections for grouting;
- (11) 25 cu. yds. mix and place grout;
- (12) 100,000 lbs. place reinf. steel;
- (13) 5000 cu. yd. miles overhaul of concrete aggregates;
- (14) 1000 ton-miles hauling steel;
- (15) 64,000 ton-miles haul cement.

29—STREETS AND HIGHWAYS

SAN RAFAEL, Marin Co., Cal.—Until May 24, 2 P. M., bids will be received by the Constructing Quartermaster, Hamilton Field, for paved aprons around the hangar and shop at Hamilton Field (Marin Meadows) Bombing Base, San Rafael. Work involves:

- (1) 2800 cu. yds. excavation;
- (2) 1100 cu. yds. fill;
- (3) 26,700 sq. yds. 6-in. concrete;
- (4) 26,700 sq. yds. compacted rock;
- (5) 150 cu. yds. 1½-in. to 2½-in. graded rock;
- (6) 630 lin. ft. curbing;
- (7) 134 sq. yds. 3¾-in. x 4-ft. sidewalk;
- (8) 365 ft. 6-in. vit. salt glazed terra cotta pipe;
- (9) 1115 ft. 8-in. do;
- (10) 300 ft. 12-in. do;
- (11) 2 catchbasins, complete with cast iron cover;
- (12) 320 ft. 3-in. clay duct, four window;
- (13) 220 ft. 3-in. clay duct, two window;
- (14) 760 ft. ¾-in. genuine wrought iron pipe, galvanized;
- (15) air and water service boxes with metal covers.

LOS ANGELES, Cal.—Until 10 A. M., May 17, bids will be received by Board of Public Works to Improve Avenue 46, between Clermont St. and Fontenac Ave., and other streets in the Avenue 46 and Fontenac Ave. Improvement District; 1911 Act. The estimated quantities are:

- (1) grading (1600 sq. ft. special flooding and 2017 cu. yds. cut);
- (2) 15,497 sq. ft. 6-in. conc. paving;
- (3) 1568 ft. integ. curb;
- (4) 100 ft. deep reinf. integ. curb (special);
- (5) conc. retain. wall, complete;

- (6) conc. gutted and sidewalk, compl.
- (7) reset 3 manholes, complete;
- (8) water system;
- (9) 13 water services.

REMOVE: 20 sq. ft. gutter, 192 sq. ft. pave., 34 ft. curb, 12 sq. ft. walk, 3 conc. steps, 3 ft. wide.

LOS ANGELES, Cal.—Until 2 P. M. May 15, bids will be received by the county supervisors to improve Covina Blvd. from its intersection with Holt Ave. and El Monte St. in Baldwin Park, west to a point beyond Merced Ave., 3350 lin. ft. or 0.63 mile; Cash Contract No. 456, involving:

- (1) 2500 tons of asphalt concrete pave. (Construction of base or subgrade, grading, setting and removal of headers will be done by the county under work order No. 6054).

George W. Jones, county road commissioner, Maime B. Beatty, clerk of the board.

SAN FRANCISCO.—Daniel C. McCabe, Call Bldg., at \$1500 (\$.30 per sq. ft.) submitted only regular bid to Department of Public Works to construct sidewalks on 6th Ave., Judah to Kirkham Sts., et al, involving 5,000 sq. ft. Irregular bid submitted by M. J. Lynch.

AMADOR, Alpine and El Dorado Counties, Cal.—Until May 17, 2 P. M., bids will be received by State Highway Commission, Sacramento, to treat with oil and cutback asphalt as a dust palliative 73.8 miles of existing roadbed between Dcw Drop Inn and Picketts Junction, between Picketts Junction and Alpine Junction and between Picketts Junction and Hangman's Bridge, near Markleeville involving:

- (1) 250 bbls. light fuel oil, Loc. A;
- (2) 1850 bbls. heavy fuel oil, do;
- (3) 500 bbls. asph. road oil, do;
- (4) 500 bbls. light fuel oil, Loc. B;
- (5) 900 bbls. heavy fuel oil, do;
- (6) 800 bbls. light fuel oil, Loc. C;
- (7) 200 bbls. heavy fuel oil, do;
- (8) 1100 bbls. asph. road oil, do;
- (9) 400 bbls. light fuel oil, Loc. D;
- (10) 250 bbls. heavy fuel oil, do;
- (11) 250 bbls. asph. road oil, do;
- (12) 175 tons cut-back asph., do.

TULARE CO., Cal.—Hemstreet and Bell, 501 11th St., Marysville, at \$237,010 for unfinished portion of work, submitted low informal bid to Division of Highways, Sacramento, to complete grading and surfacing with crushed gravel or stone 8.4 miles bet. Lemon Cove and Three Rivers, which was awarded to Thompson Bros., 2150 G St., Fresno, at \$299,882.45 on Sept. 14, 1932, and was abandoned by them.

MENDOCINO COUNTY, Cal.—Chas. Kuppinger, Lakeport, at \$3850 awarded contract by State Highway Commission to treat with asphaltic road oil as a dust palliative 19.7 miles bet. McDonald and Boonville.

LOS ANGELES, Cal.—J. J. Jessup, city engineer, completed plans to improve alley south of 18th St. and west of Meyler St., under the 1911 Act. The engineer has been authorized to prepare his 1913 act report. The quantities are:

- Grading (5690 cu. yds. cut);
- 17,921 sq. ft. 5-in. conc. paving;
- 20 sq. ft. asph. conc. paving;
- 8 ft. curb;
- 275 sq. ft. sidewalk.

Engineer's estimate, \$3069.67.

FRESNO COUNTY, Cal.—Union Paving Co., Call Bldg., San Francisco at \$31,543.55 awarded contract by the State Highway Commission to grade and pave with asphalt concrete 0.7 mile between Church Ave. and California Ave. in Fresno.

KERN COUNTY, Cal.—Griffith Co., Los Angeles, at \$355,327.15 awarded contract by State Highway Commission to grade and pave with Portland cement concrete 3.7 miles bet. Oak Glen and 1 mile north of Grapevine Station.

WASHINGTON, D. C.—Bureau of Yards and Docks, Navy Department, Washington, D. C., will ask bids shortly for roads and service systems at the Naval Air Station, Sunnyvale, Calif. Specification No. 7302.

SAN LUIS OBISPO, Cal.—County Surveyor starting work on Murray Ave., Victoria and Francis Sts., San Luis Obispo, unemployment relief project under the \$11,879 Reconstruction Finance Corporation loan.

ALAMEDA, Cal.—Specifications forwarded to Washington, D. C., by Capt. A. B. Brown, for roads, curbs and gutters, and electroliers; the last unit on Government Island Project, Alameda.

OREGON STATE.—Following contracts awarded by the State Highway Commission for highway construction as follows:

Clackamas County: Logan Const. Co., Arlington, at \$14,241, to produce and stockpile 15,500 cu. yds. crushed rock Sandy-Twin Bridges Section, Mt. Hood Highway.

Douglas County: A. S. Wallace, at \$5700 to produce and stockpile 5500 cu. yds. crushed gravel Mystic Creek-Winston Section, Coos Bay-Roseburg Highway.

Jackson County: E. R. Metzger, at \$4695 to produce and stockpile 4600 cu. yds. crushed gravel, Trail-Prospect Section, Crater Lake Highway.

Klamath County: Dunn and Baker, Klamath Falls, at \$14,625 to produce and stockpile 7750 cu. yds. crushed rock, Klamath Falls Rock Production Project.

Umatilla County: Quinn Robbins, Boise, at \$9735, to produce and stockpile 7000 cu. yds. crushed rock, Emigrant Hill-Meachem Section, Old Oregon Trail.

LOS ANGELES, Cal.—J. J. Jessup, city engineer, completed plans to improve Beverly Blvd. between Hilgard Ave. and Paseo Miramar. The proposed work involves:

- 18,000-cu. yds. grading;
- 18,230 sq. ft. conc. pavement, 6-in.;
- 3,900 sq. ft. concrete pave., 8-in.;
- 183,325 sq. ft. asphalt conc. pave., 6-in.
- 145,880 sq. ft. asphalt conc. pave., 7-in.
- 8,075 sq. ft. asphalt conc. pavement, varying thickness;
- 44,350 lin. ft. curb;
- 44,080 sq. ft. gutter;
- storm drain;
- walls;
- water system;
- 69 water services.

Engineer's estimate, \$104,397.77.

SAN GABRIEL, Los Angeles Co., Calif.—C. N. Wright, city engineer, Pacific Electric Bldg., Los Angeles, has announced that if Reconstruction Finance funds are not obtained within the next two weeks the city will probably take bids on the improvement of Santa Anita St. bet. Las Tunas Dr. and Mission Dr. If the funds are obtained the grading will be done by local labor. The work involves:

- (1) grading (lump sum);
 - (2) 38,000 sq. ft. 6-in. asph. concrete pavement;
 - (3) 19,000 sq. ft. 2-in. oil macadam.
- The pavement will be 20 ft. wide with a 10-ft. strip of oil macadam.

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

3.7 ? MILES GRADE AND PAVE.—KERN COUNTY

KERN COUNTY, Cal.—Griffith Co., 502 Los Angeles Railway Bldg., Los Angeles, at \$355,327.15 submitted low bid April 19 to State Highway Commission, Sacramento, to grade and pave with Portland cement concrete 3.7 miles between Oak Glen and one mile north of Grapevine Station, involving:

- (1) clear and grub right-of-way;
- (2) 782,000 cu. yds. rdwy. excav., unclass.;
- (3) 14,172,000 sta. yds. overhaul;
- (4) 10,000 cu. yds. imp. borrow;
- (5) 10,920 cu. yds. struc. excac.;
- (6) 40,370 sq. yds. subgrade for pave;
- (7) 6000 tons cru. gravel or stone (bit. treated borders);
- (8) 235 tons cut-back asphalt;
- (9) 8600 cu. yds. class A Portland cement concrete (pavement);
- (10) 750 cu. yds. class A Portland cement concrete (struc.);
- (11) 238,200 lbs. bar reinf. steel (pavement and struc.);
- (12) 708 lin. ft. 8-in. corru. metal pipe;

- (13) 482 lin. ft. 18-in. do;
- (14) 2552 lin. ft. 24-in. do;
- (15) 318 lin. ft. 30-in. do;
- (16) 486 lin. ft. 36-in. do;
- (17) 310 lin. ft. 42-in. do;
- (18) 124 lin. ft. 48-in. do;
- (19) 600 lin. ft. 8-in. pref. metal pipe
- (20) 2550 cu. yds. concrete remove from existing pave. and struc. and dispose of;
- (21) 8.4 ml. new property fence;
- (22) 6 fence gates;
- (23) 0.5 ml. property fence remove and dispose of;
- (24) 9300 lin. ft. lam. timber guard rail;
- (25) 200 timber guide posts;
- (26) 65 culvert markers;
- (27) 3380 cu. yds. special riprap;
- (28) 60 cu. yds. light riprap;
- (29) 685 cu. yds. rubble masonry (retaining walls);
- (30) 960 bbls. fuel oil;
- (31) 47,400 M. gals. water (embankment);
- (32) 179 sta. finish roadway;
- (33) 72 monuments complete in place.

State will furnish corrugated metal pipe, perforated metal pipe and spillway assemblies.

Complete bids follow:

- (A) Griffith Co., Los Angeles, \$355,327.15.
- (B) von der Hellen & Pierson, Castiac, \$356,111.60.
- (C) Hanrahan Co. and J. P. Holland, San Francisco, \$360,818.80.
- (D) Jahn & Bressi, Los Angeles, \$361,139.60.
- (E) Granfield, Farrar & Carlin, San Francisco, \$372,790.10.
- (F) Basich Bros., Torrance, \$380,762.30.
- (G) Fredrickson & Watson, Oakland, \$382,820.60.
- (H) Wemyouth Crowell Co. and E. P. Watson, Jr., Pasadena, \$387,244.
- (I) Geo. Pollock, Sacramento, \$415,768.60.
- (J) W. E. Kler Const. Co., San Diego, \$513,442.30.
- (K) Sander Pierson & Dimmltt and Taylor, Los Angeles, \$549,872.10.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)
(1)	\$2000.00	\$1000.00	\$600.00	\$1500.00	\$500.00	\$1000.00	\$500.00	\$882.00	\$580.00	\$1000.00	\$500.00
(2)	.225	.222	.23	.245	.245	.245	.25	.252	.29	.38	.38
(3)	.002	.003	.003	.002	.002	.003	.003	.0029	.0025	.003	.004
(4)	.25	.25	.20	.40	.30	.40	.30	.40	.30	.50	.22
(5)	.60	.75	.50	.65	.60	.60	.50	.88	.60	.75	1.00
(6)	.06	.07	.06	.05	.07	.08	.07	.08	.07	.07	.08
(7)	8.00	1.80	1.90	2.00	1.40	2.25	2.50	1.71	1.60	2.50	3.00
(8)	15.00	14.00	12.00	14.00	15.00	14.00	12.50	12.34	15.60	20.00	12.00
(9)	7.00	6.00	7.00	6.10	6.75	6.70	6.40	6.45	6.50	6.50	8.10
(10)	15.00	15.00	14.00	14.00	16.00	15.50	13.00	16.00	14.00	18.00	15.00
(11)	.03	.0325	.026	.03	.0325	.033	.0275	.031	.0325	.035	.035
(12)	.50	.03	.15	.30	.30	.30	.20	.25	.20	.25	.35
(13)	.40	.30	.20	.50	.40	.35	.25	.25	.30	.30	.40
(14)	.50	.30	.20	.60	.50	.40	.35	.30	.40	.30	.45
(15)	.50	.40	.25	.80	.55	.50	.45	.40	.50	.35	.55
(16)	.60	.40	.30	1.10	.60	.70	.55	.60	.60	.40	.60
(17)	.70	.50	.40	1.50	.70	.80	.65	.90	.80	.45	1.35
(18)	.70	.50	.40	2.00	.75	1.00	.75	1.00	.90	1.00	1.50
(19)	.50	.60	.50	.30	.80	.70	.50	1.76	.50	.50	.45
(20)	1.00	1.00	1.00	.75	1.00	1.50	1.00	1.06	1.00	2.00	1.25
(21)	450.00	350.00	300.00	400.00	350.00	450.00	330.00	350.00	280.00	450.00	400.00
(22)	15.00	15.00	12.00	25.00	12.00	15.00	12.00	13.00	13.00	15.00	15.00
(23)	100.00	50.00	100.00	75.00	100.00	50.00	50.00	90.00	50.00	100.00	60.00
(24)	.70	.70	.70	.50	.85	.75	.70	.76	.60	.65	.80
(25)	2.50	2.50	2.00	2.50	2.50	2.00	2.30	2.24	2.00	2.00	2.25
(26)	1.75	2.00	1.50	2.00	2.00	2.00	2.00	1.80	1.40	2.00	2.00
(27)	2.75	3.00	2.30	1.75	3.50	2.50	3.50	1.76	2.50	3.00	3.00
(28)	1.75	2.00	1.50	6.50	2.00	1.00	3.00	1.50	1.25	2.00	2.50
(29)	6.00	7.00	7.00	6.50	8.00	5.00	7.60	7.66	8.00	3.00	12.00
(30)	1.70	1.50	1.10	1.65	1.20	1.75	2.30	1.90	1.65	2.00	2.50
(31)	.11	.20	.20	.30	.30	.10	.20	.28	.50	.50	.65
(32)	5.00	3.00	3.00	5.00	5.00	10.00	4.00	6.90	5.00	5.00	5.00
(33)	3.00	3.00	2.00	2.50	2.50	3.00	2.50	3.00	3.00	3.00	2.50

MILLBRAE-CRYSTAL SPRINGS TRANSMISSION LINE

SAN FRANCISCO.—West Coast Electric Works, 160 Tenth St., at \$2,786.87 submitted low bid April 25 to Public Utilities Commission to replace No. 6 wire and repair certain pole structures on Millbrae-Crystal Springs Transmission Line, involving:

- (1) 29,000 ft. remove No. 6 wire and deliver to Millbrae warehouse;
- (2) 29,000 ft. furnish and install new No. 4 copper wire;
- (3) 4 poles, furnish and install.

- (4) 5 pole stubs, do;
- (5) 3 guy wires, do;
- (6) 12 insulators, do;
- (7) 12 insulator pins, do;
- (8) 7 crossarms, do;
- (9) 18 crossarm braces, do;
- (10) 1 dead-end pole, structure, do;
- (11) 2% clean insulators.

Complete bids follow:

- (A) West Coast Electric Works, \$2,786.87.
- (B) Butte Elec. Equipment, \$2995.58.

- (C) Lynn & Hefferman, \$3362.21.
- (D) Radelfinger Bros., \$3377.80.
- (E) G. H. Armstrong*, \$3426.63.
- (F) Eureka Elec. Radio, \$3542.50.
- (G) H. S. Tuttle, \$3577.65.
- (H) Severin Electric, \$3634.25.
- (I) H. F. Haverkamp, \$3601.00.
- (J) City Improvement Co., \$3873.00.

* Deduct for wire furnished by city, \$478.50.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
(1)	\$.0083	\$.00712	\$.01	\$.0023	\$.0075	\$.007	\$.0044	\$.0075	\$.01	\$.016
(2)	.066	.0727	.084	.09	.03	.09	.083	.0925	.08	.084
(3)	48.00	45.35	48.00	45.00	53.00	51.50	76.60	64.00	75.00	59.00
(4)	16.00	16.95	18.00	16.00	31.00	14.00	22.20	17.00	30.00	15.00
(5)	7.50	14.23	12.40	13.00	30.00	15.00	31.70	7.00	24.00	10.00
(6)	12.30	9.96	9.15	10.00	17.00	10.00	10.12	11.00	13.00	10.00
(7)	1.60	2.69	2.90	2.05	4.00	2.00	2.32	.30	4.75	3.00
(8)	6.43	4.48	4.00	4.50	6.00	4.50	9.10	6.55	7.00	8.00
(9)	1.42	2.26	2.25	1.60	3.50	1.50	4.11	3.10	1.50	3.00
(10)	72.30	90.24	42.31	100.00	107.00	150.00	123.00	79.00	110.00	220.00
(11)	.10	.211	.22	.25	.25	.20	.43	.20	.25	.55

IMPROVE PORTOLA & MIRAMAR DRIVES—S. F.

SAN FRANCISCO.—M. J. Lynch, 478 30th St., San Francisco, at \$661.05 submitted low bid April 19 to Department of Public Works to improve Portola and Miramar Drives, involving stairway, sidewalk and planting the slopes, involving:

- (1) 18 cu. yds. Class B conc. in stairs
- (2) 870 lbs. reinf. steel;
- (3) 188 ft. 1½-in. galv. iron pipe;

	(A)	(B)	(C)	(D)	(E)	(F)
(1).....	\$18.00	\$16.50	\$20.00	\$25.00	\$30.00	\$30.00
(2).....	.025	.04	.04	.035	.04	.065
(3).....	.50	.30	.50	.40	.50	.48
(4).....	.105	.11	.11	.13	.13	.15
(5).....	.40	.90	.60	.70	.50	.55
(6).....	.01	.02	.025	.0175	.025	.04

- (4) 1260 sq. ft. sidewalk;
 - (5) 115 ft. wood fence.
 - (6) 4300 sq. ft. ice plants.
- Complete bids follow:
- (A) M. J. Lynch\$ 661.05
 - (B) T. M. Gallagher 716.30
 - (C) Love & Haun 803.90
 - (D) E. J. Treacy 875.20
 - (E) T. Cohn 997.50
 - (F) D. J. McCabe 1111.04
- Unit bids follow:

- (4) 8 tons seal coat oil;
 - (5) 100 tons sand for seal coat.
- Complete bids follow:
- (A) Hutchinson Co., Oakland...\$4817.40
 - (B) Central States Contr. Co., Oakland 4963.00
 - (C) Lee J. Immel, Berkeley..... 5270.00
 - (D) W. H. Larsen, Berkeley..... 5786.00
 - (E) Central Calif. Roads Co., Oakland 5945.00
- Unit bids follow:
- | | (1) | (2) | (3) | (4) | (5) |
|-----------|--------|---------|-------|---------|--------|
| (A) | \$1.57 | \$10.00 | \$.28 | \$11.55 | \$1.94 |
| (B) | 1.55 | 10.00 | .42 | 12.00 | 1.50 |
| (C) | 1.90 | 10.00 | .15 | 15.00 | 2.00 |
| (D) | 2.10 | 10.00 | .25 | 12.00 | 2.00 |
| (E) | 1.67 | 10.00 | .76 | 12.00 | 3.60 |
- Bids held under advisement.

IMPROVE CLEMENT STREET—SAN FRANCISCO

SAN FRANCISCO.—Fay Imp. Co., Phelan Bldg., at \$16,206.27 submitted low bid April 26 to Department of Public Works to improve Clement St., 40th to 45th Aves., except south half of Clement, 40th to west line 42nd Ave. produced, and except crossing 43rd Ave. and Clement Sts., involving:

- (1) 18,600 cu. yds. excav.;
- (2) 60 ft. 8-in. V.C.P. sewer;
- (3) 860 ft. 12-in. V.C.P. sewer;
- (4) 40 ft 15-in. do;
- (5) 11 12x6 Y branches;
- (6) 3 brick manholes;
- (7) 175 ft. 6-in. V.C.P. side sewer;
- (8) 7 brick catchbasins;
- (9) 2 do., reset;
- (10) 220 ft. 10-in. V.C.P. culvert;
- (11) 2056 ft. unarmored concrete curb;
- (12) 60 ft. concrete curb reset;

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
(1).....	\$.248	\$.26	\$.25	\$.22	\$.22	\$.34	\$.19
(2).....	1.00	.75	.85	.72	1.00	.75	1.00
(3).....	.95	.95	1.40	.96	1.50	1.60	1.50
(4).....	1.50	1.35	1.70	1.50	2.00	1.60	3.00
(5).....	1.00	1.50	1.50	1.35	1.00	1.50	1.50
(6).....	70.00	62.00	65.00	66.00	70.00	80.00	80.00
(7).....	.65	.55	.75	.75	.50	.60	.75
(8).....	78.00	62.00	65.00	69.00	70.00	60.00	80.00
(9).....	35.00	36.00	45.00	33.00	40.00	25.00	40.00
(10).....	1.00	.65	1.00	.84	1.00	1.00	1.00
(11).....	.47	.41	.45	.50	.60	.60	.60
(12).....	.30	.30	.20	.25	.30	.25	.20
(13).....	.11	.11	.12	.12	.11	.10	.12
(14).....	.20	.20	.10	.16	.30	.25	.10
(15).....	.20	.20	.19	.23	.27	.30	.25
(16).....	.18	.186	.18	.20	.22	.21	.24
(17).....	.60	.55	.50	.62	.74	.70	1.00

- (13) 1100 sq. ft. 1-course conc. sidewalk;
 - (14) 50 ft. redwood header;
 - (15) 1280 sq. ft. asph. conc. pave., remove and replace;
 - (16) 44,600 sq. ft. asph. conc. pave. 2-in. wearing surf.;
 - (17) 144 ft. armored concrete curb.
- Complete bids follow:
- (A) Fay Imp. Co.....\$16,206.27
 - (B) John Heilmann.....\$16,322.51
 - (C) Union Paving Co.....\$16,498.15
 - (D) Pacific Pavements.....\$16,584.83
 - (E) A. G. Raisch.....\$18,272.26
 - (F) E. J. Treacy.....\$18,720.16
 - (G) C. L. Harney.....\$18,802.35
 - (H) Eaton & Smith (bid unopened, no check).
 - (I) M. J. Lynch (rejected, submitted in wrong envelope).
- Unit bids follow:

- LOS ANGELES, Calif.—American Concrete & Steel Pipe Co., 4635 Firestone Blvd., South Gate, awarded the contract by board of public works April 19, at prices shown below, for items 3, 4, 5 and 6 and alternative items 7 and 8, for furnishing reinforced concrete pipe, centrifugal concrete pipe, pipe-laying equipment and skilled foreman, in connection with the improvement of the first alley west of Main St., between 108th St. and 111th Place, and portions of other streets, under cash contract. Bids were taken as follows:
- (1) 420 ft. 72-in. double medium reinf. conc. pipe;
 - (2) 2316 ft. 66-in. do;
 - (3) 69 ft. 42-in. centrifugal concrete pipe (angle pipe 60 ft. radius, 1150-D);
 - (4) 45 ft. 36-in. cent. conc. pipe, 1200-D;
 - (5) 42 ft. 33-in. do;
 - (6) 11 ft. reinf. conc. manhole shaft, including two reducers;
- ALTERNATIVE
- (7) 420 ft. 72-in. centrif. conc. pipe, 1050-D;
 - (8) 2316 ft. 66-in. do.
- The bidders were:
- (A) American Concrete & Steel Pipe Co., \$24,853.90; Alt., \$24,348.70.
 - (B) United Concrete Pipe Corp., \$25,134.99.
- The unit prices were:
- | | | |
|----------|--------|--------|
| (1)..... | \$9.85 | \$9.95 |
| (2)..... | 8.60 | 8.70 |
| (3)..... | 5.50* | 5.52 |
| (4)..... | 4.50* | 4.63 |
| (5)..... | 4.10* | 4.08 |
| (6)..... | 4.10* | 4.20 |
- ALTERNATIVE
- | | | |
|----------|-------|-------|
| (7)..... | 9.75* | ..... |
| (8)..... | 8.40* | ..... |
- *Items awarded.

BIDS OPENED

PASADENA, Calif.—Blue Diamond Corp., 1650 S Alameda St., Los Angeles, submitted low bid to city directors April 18 at \$15,011.20 to furnish reinforcing steel for use in the Pine Canyon Dam construction. The material involves:

PROPOSAL NO. 1

Intermediate Grade—821,000 Lbs.

- (1) 500 lbs. ¼-in. round reinf. steel;
- (2) 500 lbs. ⅜-in. do;
- (3) 67,000 lbs. ½-in. do;
- (4) 2500 lbs. ½-in. square reinf. steel
- (5) 48,000 lbs. ⅝-in. round reinf. steel
- (6) 12,500 lbs. ¾-in. do;
- (7) 7000 lbs. ⅞-in. do;
- (8) 100,000 lbs. 1-in. do;
- (9) 3500 lbs. 1-in. square reinf. steel;
- (10) 25,000 lbs. 1½-in. do;
- (11) 500,000 lbs. 1½-in. do;
- (12) 54,500 lbs. 1½-in. do

PROPOSAL NO. 2

Hard Grade—178,000 Lbs.

- (1) 2000 lbs. ½-in. round reinf. steel;
- (2) 28,000 lbs. ⅝-in. do;
- (3) 68,000 lbs. ¾-in. do;
- (4) 80,000 lbs. 1-in. do.

The total bids were:

- (A) Blue Diamond Corp., \$15,011.20.
- (B) Soule Steel Co., \$15,300.
- (C) Concrete Engr. Co., \$15,263.48.

- (D) Truscon Steel Co., 515,513.05.
 - (E) Pacific Coast Steel Co., \$16,809.40.
- The unit bids were:

PROPOSAL NO. 1

	(A)	(B)	(C)	(D)	(E)
(1)....	\$0.248	\$0.25	\$0.3005	\$0.3	\$0.266
(2)....	.0188	.019	.01905	.0193	.0206
(3)....	.0168	.017	.01705	.0173	.0186
(4)....	.0168	.017	.01705	.0173	.0186
(5)....	.0158	.016	.01605	.0163	.0176
(6)....	.0148	.015	.01505	.0153	.0166
(7)....	.0148	.015	.01505	.0153	.0166
(8)....	.0148	.015	.01505	.0153	.0166
(9)....	.0148	.015	.01505	.0153	.0166
(10)....	.0148	.015	.01505	.0153	.0166
(11)....	.0148	.015	.01505	.0153	.0166
(12)....	.0148	.015	.01505	.0153	.0166

PROPOSAL NO. 2

(1)....	.0168	.0175	.01705	.0173	.0186
(2)....	.0158	.0165	.01605	.0163	.0176
(3)....	.0148	.0155	.01505	.0153	.0166
(4)....	.0148	.0155	.01505	.0153	.0166

- OAKLAND, Calif.—Hutchinson Co., 1450 Harrison St., Oakland, at \$4817.40 submitted low bid to City Port Commission to pave Middle Harbor Road from the foot of Adeline St. to the new garbage wharf, involving:
- (1) 1900 tons mineral aggregate;
 - (2) 110 tons oil;
 - (3) 1600 tons spread and work surf. material;

BIDS OPENED

- SAN DIEGO and Imperial Counties, Cal.—Matich Bros., Elsinore, at \$10,867.50 submitted low bid April 26 to State Highway Commission, Sacramento, to treat with fuel oil 15.6 mi. between Tecate Divide and Boulder Park, involving 5250 bbls. heavy fuel oil applied to earth shoulders. Complete bids follow:
- Matich Bros., Elsinore, \$2.07; \$10,867.50.
 - Miracle Co., San Diego, \$2.27; \$11,917.50.
 - Weymouth - Crowell Co., Pasadena, \$2.33; \$12,232.50.
 - V. R. Dennis Const. Co., San Diego, \$2.34; \$12,255.00.
 - Southwest Paving Co., Los Angeles, \$2.39; \$12,547.50.
 - Alex Chalmers and Max Winters, Los Angeles, \$2.43; \$12,757.50.
 - Oilfields Trucking Co., Bakersfield, \$2.49; \$13,072.50.
 - R. E. Hazard Const. Co., San Diego, \$2.73; \$14,332.50.
 - Yglesias Bros., Inc., San Diego, \$2.80; \$14,700.00.
- 29

BERKELEY, Alameda Co., Calif.—Lee J. Immel, 1031 Evelyn Ave., Berkeley, at \$3424.50 awarded contract by City council to construct sewer from Ashby Ave. to Heinz Ave. In the S. P. Co.'s right-of-way, known as 3rd St., involving:

- (1) 750 lin. ft. 27-in. vit. pipe;
 - (2) 10 lin. ft. 10-in. do;
 - (3) 1 manhole;
 - (4) 1 catchbasin;
 - (5) 11 cu. yds. Class B concrete;
- Complete bids follow:
- (A) L. J. Immel, Berkeley.....\$3424.50
 - (B) Oakland Sewer Const. Co., Oakland..... 3545.00
 - (C) Martin Murphy, Berkeley.. 3993.00
 - (D) R. B. McNair, Oakland..... 4068.50
 - (E) W. J. Tobin, Oakland..... 6217.50

Unit bids follow:

	(1)	(2)	(3)	(4)	(5)
(A)	\$4.25	\$1.00	\$83.00	\$56.00	\$8.00
(B)	4.38	1.00	35.00	65.00	10.00
(C)	4.78	1.00	80.00	120.00	18.00
(D)	5.00	1.00	100.00	60.00	13.50
(E)	7.61	2.00	225.00	100.00	15.00

BIDS OPENED

SAN FRANCISCO.—E. J. Treacy, Cal Bldg., at \$5490.30 submitted low bid April 26 to Department of Public Works, to improve 19th, Yukon to Caselli Sts., involving:

- (1) 1350 cu. yds. embankment;
 - (2) 800 ft. conc. curb. unarmored;
 - (3) 250 ft. redwood curb;
 - (4) 10,200 sq. ft. 6-in. conc. pavement
 - (5) 3200 sq. ft. 2-in. asph. conc. pave
 - (6) 2840 sq. ft. conc. sidewalk;
 - (7) 3130 sq. ft. 1-in. asph. conc. on sidewalk;
 - (8) 60 cu. yds. class B conc. in walls;
 - (9) 4200 lbs. bar reinf. steel;
 - (10) 160 ft. fence, 3-pipe railing;
 - (11) 2 concrete fence posts;
 - (12) 430 ft. 8-in. V.C.P. sewer;
 - (13) 60 ft. 10-in. V.C.P. culvert;
 - (14) 2 brick manholes;
 - (15) 4 brick catchbasins;
 - (16) 21 Y or T branches;
 - (17) 275 ft 6-in. V.C.P. side sewer.
- Complete bids follow:

(A) E. J. Treacy.....\$5490.30

- (B) Pacific Pavements..... 6124.05
- (C) Pay Improvement Co..... 6417.31
- (D) M. J. Lynch..... 6696.20
- (E) C. L. Harney..... 7139.55
- (F) Eaton & Smith (irregular, no check).

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)
(1)	\$.01	\$.30	\$.33	\$.35	\$.30
(2)	.52	.50	.50	.50	.60
(3)	.20	.25	.36	.20	.25
(4)	.197	.19	.194	.21	.22
(5)	.09	.09	.134	.10	.14
(6)	.10	.12	.11	.11	.11
(7)	.05	.05	.077	.06	.08
(8)	21.00	16.00	16.50	20.00	20.00
(9)	.03	.04	.04	.03	.05
(10)	.88	2.50	1.00	2.20	2.00
(11)	5.00	5.00	5.00	5.00	5.00
(12)	.55	.72	1.05	1.00	1.00
(13)	.73	.84	1.20	1.00	1.00
(14)	54.00	66.00	80.00	70.00	80.00
(15)	58.00	69.00	75.00	70.00	80.00
(16)	.80	1.00	.80	1.00	1.00
(17)	.36	.75	.70	.70	.75

MADRONE UNDERGRADE CROSSING—SANTA CLARA COUNTY

SANTA CLARA COUNTY, Calif.—N. M. Ball, 1889 Yosemite Road, Berkeley, at \$68,933.58 submitted lowest regular bid April 26 to State Highway Commission, Sacramento, to construct undergrade crossing under the tracks of the Southern Pacific Railroad near Madrone, consisting of two concrete abutments with wing walls, installing drainage system, and pumping equipment, and grading and paving approximately .74 mile roadway with Portland cement concrete, involving:

- (1) 430 class #1 trees remove and dispose of;
- (2) 8 class #2 do;
- (3) 31,700 cu. yds. rdwy. excav.;
- (4) 2,693,987 sa. yds. overhaul;
- (5) 1600 cu. yds. struc. excav.;
- (6) 1000 cu. yds. dlch excav.;
- (7) 880 cu. yds. class B Port. cem. concrete;
- (8) 63 cu. yds. class A do (struc.);
- (9) 3210 cu. yds. do (pave.)
- (10) 260 cu. yds. class A Portland cem. conc. (curbs and gutters);
- (11) 126,000 lbs. bar reinf. steel;

- (12) 2080 lbs. cast steel (catchbasin frames and covers);
- (13) 6000 tons cru. run base;
- (14) 600 tons asph. conc. pavement;
- (15) 565 lin. ft. 8-in. perf. metal pipe;
- (16) 2650 lin. ft. 10-in. do;
- (17) 400 lin. ft. 8-in. corr. metal pipe
- (18) 320 lin. ft. 10-in. do;
- (19) 65 lin. ft. 12-in. do;
- (20) 200 lin. ft. 18-in. do;
- (21) 96 lin. ft. 24-in. do;
- (22) 323 lin. ft. 12-in. extra strength reinf. conc. pipe;
- (23) 2 12-in. extra str. reinf. conc. 90° ells;
- (24) 2 30-in. x 6-ft. reinf. conc. basins with lids;
- (25) 240 lin. ft. 8-in. cast iron pipe;
- (26) 2770 lin. ft. 1 1/4-in. c. i. irrigr. pipe
- (27) 110 lin. ft. 2-in. do;
- (28) 24 irrigation outlets;
- (29) 720 cu. yds. rock filling material;
- (30) 32 lin. ft. hand rail;
- (31) 1 lot pumping equipment complete (2 units);
- (32) 830 cu. yds. old pavement to be removed, crushed and stockpiled;
- (33) 45 sta. finish roadway;
- (34) .161 ml. new property fence;

- (35) 1 16-ft. x 58-in. tubular steel gate
- (36) 2 12-ft. x 58-in. do;
- (37) 20 monuments complete in place;
- (38) 175 sq. yds. waterproofing;
- (39) 1 lot misc. items of work.

Complete bids follow:

- (A) N. M. Ball, Berkeley, \$68,933.58.
 - (B) A. J. Raisch Co., San Jose, \$69,580.42.
 - (C) Fredrickson & Watson, Oakland, \$72,820.41.
 - (D) Carl N. Swenson Co., San Jose, \$73,131.15.
 - (E) Union Paving Co., San Francisco \$73,984.62.
 - (F) Artukovich Bros., Hynes, \$76,647.81.
 - (G) Bodenhamer Const. Co., Oakland, \$83,817.16.
 - (H) J. R. Reeves and Lord & Bishop, Sacramento, \$83,931.72.
 - (I) John F. Knapp, Oakland, \$89,878.61.
 - (J) *Basich Bros., Torrance, \$65,670.54
- * Low bidder; neglected to enclose sketch of pump house; bid thrown out.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
(1)	\$.50	\$.50	\$.60	\$.50	\$.50	\$.85	\$.50	\$.50	\$.50	\$.50
(2)	5.00	1.00	1.00	10.00	1.00	12.00	3.00	1.00	1.00	5.00
(3)	.23	.14	.16	.18	.20	.19	.28	.30	.35	.19
(4)	.0015	.003	.003	.0035	.002	.0025	.003	.002	.003	.001
(5)	.75	.50	.50	1.05	.70	.90	.60	.50	1.00	.50
(6)	.35	.18	.15	.75	.25	.45	.40	.20	.50	.20
(7)	8.50	8.75	13.00	8.75	10.00	11.40	12.00	12.90	10.00	9.00
(8)	16.00	14.00	16.50	12.00	12.00	13.00	14.70	15.00	16.00	10.00
(9)	7.10	6.60	6.55	7.00	7.00	6.45	7.00	8.90	9.00	7.00
(10)	10.00	9.60	9.50	9.50	10.10	13.25	12.00	10.00	12.00	9.00
(11)	.03	.032	.0255	.03	.025	.03	.0325	.03	.03	.0255
(12)	.10	.10	.12	.08	.10	.12	.10	.10	.10	.10
(13)	1.00	1.05	1.20	.82	1.50	1.25	1.40	1.30	1.25	1.10
(14)	4.00	6.50	5.00	6.50	5.00	3.45	6.60	6.00	7.00	5.00
(15)	.25	.50	.15	.20	.70	.25	.25	.15	.20	.20
(16)	.25	.50	.20	.22	1.00	.30	.25	.20	.20	.20
(17)	.25	.20	.15	.20	.20	.20	.25	.15	.20	.20
(18)	.25	.20	.20	.22	.25	.20	.25	.20	.20	.20
(19)	.25	.25	.20	.25	.25	.25	.30	.25	.20	.25
(20)	.30	.30	.25	.30	.30	.30	.35	.35	.25	.30
(21)	.35	.35	.30	.50	.35	.30	.35	.50	.25	.35
(22)	1.00	1.14	1.00	.90	2.00	2.10	2.20	2.00	2.50	.90
(23)	4.00	5.00	30.00	5.00	3.00	12.00	4.00	8.00	10.00	3.00
(24)	25.00	33.00	15.00	.35	3.00	85.00	30.00	40.00	50.00	20.00
(25)	1.25	1.30	1.70	1.25	1.15	1.65	1.50	1.35	1.50	1.15
(26)	.25	.35	.35	.30	.25	.34	.40	.25	.50	.25
(27)	.50	.45	.55	.50	.39	.44	.75	.35	.75	.39
(28)	7.50	5.00	8.00	5.05	1.00	10.50	2.75	8.00	5.00	1.00
(29)	1.75	1.05	1.50	1.45	1.00	1.60	1.05	1.60	1.25	1.75
(30)	2.00	1.00	1.00	3.00	2.50	3.00	1.00	2.00	1.50	2.50
(31)	2300.00	2073.13	1600.00	2350.00	2350.00	4936.00	3000.00	2100.00	2500.00	2350.00
(32)	2.35	2.25	2.50	1.35	2.00	2.25	2.50	2.25	3.00	2.75
(33)	6.00	3.00	5.00	5.00	7.00	4.00	10.00	6.00	5.00	5.00
(34)	500.00	500.00	300.00	150.00	400.00	300.00	600.00	500.00	400.00	500.00
(35)	20.00	15.00	15.00	25.00	15.00	28.35	11.00	15.00	15.00	15.00
(36)	18.00	12.00	15.00	25.00	20.00	18.00	10.00	12.00	12.50	10.00
(37)	2.50	2.50	2.50	1.00	1.50	2.50	3.00	3.00	2.00	2.00
(38)	.50	.10	1.00	.50	.30	.90	1.25	.25	.25	.30
(39)	800.00	450.00	700.00	1500.00	500.00	880.00	1500.00	600.00	1000.00	350.00

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IN THIS ISSUE



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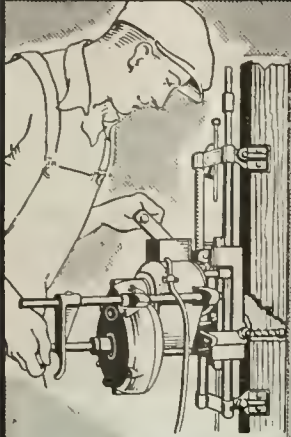
SAN FRANCISCO PERMITS FOR APRIL
TOTAL \$538,112

ALIENS BARRED FROM PUBLIC WORKS

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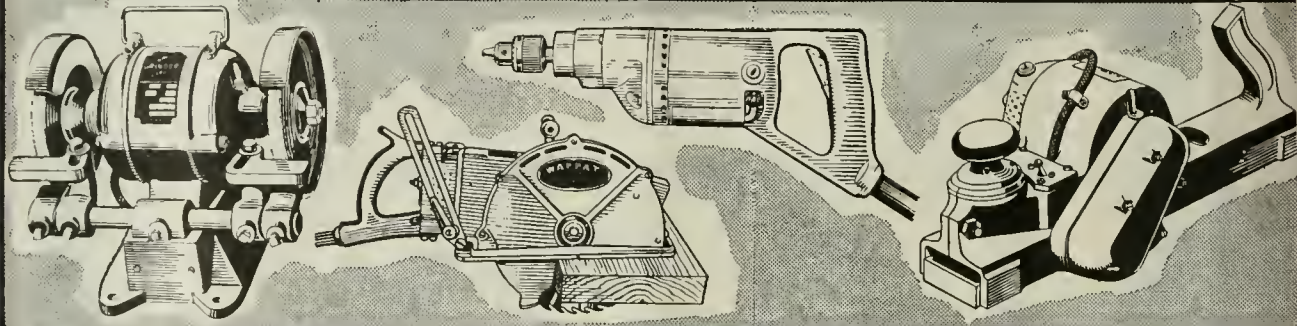
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Official Publication of the Associated General Contractors of America
for the Eleven Pacific Coast States

SAM B. EUBANKS, *Editor*

Vol. XVI

SAN FRANCISCO, CALIF., MAY 6, 1933

No. 16

SAFETY MONTH PROGRAM SET BY STATE ASSN.

Accident Prevention Committee Asks Cooperation of Local Exchanges

May has been designated Accident Prevention Month in the construction industry by the California State Builders' Exchange, Ltd., and local exchanges are being urged to give attention to accident prevention campaigns during the month.

W. F. Sorensen, Santa Ana, is chairman of the State Exchange accident prevention committee. Weekly bulletins will be issued by the committee telling of the progress of the campaign and suggesting methods for reducing the loss from accidents.

"When we compare the frequency of accidents in construction work with the experience in other industries, we find a slight increase in frequency rates in the construction industry while others have enjoyed a decrease from 25 to 50 per cent," says a statement by Mr. Sorensen. "That reduction has been made possible only by extensive educational safety campaigns on the part of those who have been able to see the importance the possibilities of such programs.

"It is true that the membership in our local builders' exchange is made up of contractors who are employers of only a few men and cannot afford to hire safety engineers or work out elaborate programs as large employers or factories do, but with the help of an active accident prevention committee in the local exchange each one can work out a program to suit his particular needs."

FIRST GRAVEL SENT TO GATE BRIDGE SITE

The first consignment of gravel from the Easalt Rock Company plant at Healdsburg for the Golden Gate bridge was shipped yesterday, according to officials of the company.

The shipment includes 18 carloads which were transferred to a barge at Haystack station.

THE WEEK'S NEWS Highlights

BUILDING PERMITS. Preliminary totals from leading cities of the Pacific Coast indicate a gain of about 8 per cent in building operations for April as compared with March. A gain in number of permits issued also is noted, showing a significant spread of activity. San Francisco permits were greater in number and approximately the same in value.

LUMBER PRODUCTION. Consistent gains are shown in the West Coast and national lumber production figures. Authorities regard the new business as derived principally from retail yards, anxious to restock at present prices and not traceable to any considerable consumer demand.

TO REVIVE BUSINESS. More aggressive and direct action on the part of associations and major manufacturers to stimulate construction is reported from various sources. Associated General Contractors, meeting in Washington, declare their objective to be 2,000,000 jobs on Federal work by mid-summer. Next week a national conference on renewal of home building will be held in Chicago, where architects, engineers and manufacturers will join in presenting new ideas in design, construction, materials and equipment. The United States Chamber of Commerce heard a proposal at its annual meeting to create a \$50,000,000 Rehabilitation Corporation expressly to finance remodeling and modernization of business property.

NEW JAIL BIDS. MacDonald & Kahn, at \$359,953, submitted the low bid on the general contract for erecting the San Francisco county jail when new proposals were received yesterday by the Board of Public Works. C. J. Hillard and Dinuba Steel Products submitted low bid on equipment at \$131,874.

EXPORT LUMBER TOTAL IN MARCH AT HIGH LEVEL

Shipments for Month Exceed Any Similar Period in Previous Year

Preliminary reports of United States exports of softwood lumber and sawn timber during March 1933 show for that month the heaviest volume of any month in 1933 or 1932. These exports, according to U. S. Department of Commerce reports, totalled nearly 92,000,000 ft., of which somewhat over 49,000,000 were shipped to the Orient and Near East, nearly 21,000,000 to Europe and 10,700,000 to Central America, Mexico and the West Indies.

March was the highest month in the last 15 for exports to the Orient and Near East, and to the Central American group, and the highest to Australasia except May, 1932. The greatest declines, as compared with recent months, were in exports to Canada and to South America, which were reported as 446,000 and 4,754,000 feet respectively in March.

Because of the low record of February, the first quarter of 1933 does not compare so favorably with last year as does March, although the softwood total of the quarter of more than 225,000,000 feet was only two percent below the first quarter of 1932.

Hardwood lumber exports during the first three months of 1933 totalled more than 51,000,000 feet, according to these preliminary reports. This was 16 percent under the volume of the first quarter of 1932 and below the second and fourth quarters.

Lumber imports during March, 1933, while heavier in volume than in February or January were under most months of 1932. In March they totalled somewhat over 10,500,000 feet—and all from Canada, predominately pine and spruce. Lumber imports totalled approximately 27,000,000 feet during the first quarter of 1933 as compared with 107,945,000 during the first quarter of 1932 and 59,868,000 feet during the last quarter.

COMPLETE PLANS FOR \$22,000,000 L. A. POWER LINE

**R.F.C. Loan for Project Ready
In July; 271-Mile
Construction**

Plans are being completed for the 271-mile transmission line which the Los Angeles bureau of power and light will construct between the city and the Boulder Dam power plant. A \$22,000,000 loan for the project has been approved by the Reconstruction Finance Corporation.

The funds will be available about July 1, it is said by officials.

Construction will include sixty miles of single tower and 111 miles of double tower line. Materials will include 13,500 tons of copper conductor wire and 1090 tons of copper-weld ground wire; 1540 tons of insulators; 2310 tons of oil circuit breakers; 2150 tons of transformers; 1090 tons of synchronous condensers; 28,000 tons of structural steel for 2256 steel towers.

It is probable that alternate bids for aluminum instead of copper will be taken.

Bids will be called for through the city purchasing agent and the construction will be supervised by the department of light and power, E. F. Scattergood, chief electrical engineer, and H. C. Gardett, chief engineer of design.

FIFTEEN APPLY FOR MANAGER'S POSITION

Fifteen applicants have filed for the position of county manager of San Mateo County, a post to be filled on July 1, it was reported yesterday at Redwood City. The appointment is to be made by the board of supervisors under the new county charter.

Sacramento county also is seeking a manager, following approval of the county-manager charter by voters at a special election last week. This appointment likewise is to be made on July 1, for a period of two years.

KANSAS CITY PLEDGING \$5,000,000 FOR REPAIRS

A renovizing campaign now underway in Kansas City has produced pledges totaling \$1,000,000 for remodeling and renovating work to be done in the near future. The goal of the renovize committee is \$5,000,000 in pledges.

EXAMINERS ISSUE FOUR CERTIFICATES

Four provisional certificates to practice architecture in California were issued at the April meeting of the Northern Section, State Board of Architectural Examiners, C. J. Ryland, secretary, announced yesterday.

The following were granted certificates: Michael Goodman, 1780 Highland place, Berkeley; Clarence Mayhew, 6026 Acacia, Oakland; Jens C. Petersen, 812 26th street, Sacramento; Henry Temple Howard, 251 Kearny street, San Francisco.

SCHOOL BUILDING PROGRAM URGED IN SAN FRANCISCO

**Fremont Fire Stirs Authori-
ties to Action on
Replacement**

A new San Francisco school building program was advocated yesterday by authorities following destruction of the Fremont school by fire Thursday afternoon.

Philip Lee Bush, president of the board of education, said the fire brought again to public attention the necessity of replacing antiquated structures with buildings of fireproof design.

He said he would advocate a bond issue of between \$2,000,000 and \$4,000,000 to be voted on at the June election providing funds for replacing elementary school buildings that are obsolete. He also plans to present to the board of education a recommendation for resuming the building program from general funds of the school district. It is estimated that savings can be effected to finance a new building every other year.

The Fremont school at McAllister and Broderick streets was damaged beyond repair by fire that originated from a painter's blow torch. The building was erected in 1892.

PORTLAND BUILDING TOTALS INCREASING

The number and value of building permits issued in Portland both showed an increase in April over the month of March, according to figures issued by the city building department.

The total for April was \$144,475 for 312 permits, compared with \$134,960 and 284 permits in March.

2 MILLION JOBS IS OBJECTIVE OF A.G.C. DIRECTORS

**Board Will Campaign For
Federal Construction Por-
gram This Summer**

Employment of at least 2,000,000 idle men by mid-summer upon a nationally - launched construction program covering all types of needed projects is the primary objective of the governing board of the Associated General Contractors of America, according to an announcement by Edward J. Harding, Managing Director.

The full strength of organized general contractors in every part of the country will be mobilized to urge upon the President and Congress steps to immediately get the program, backed by Federal credit, under way.

Taken in connection with the anticipated inflationary rise in commodity prices, construction men generally are agreed that prompt action now by the Government in inaugurating the program will save it and the nation's taxpayers millions of dollars in the inevitable launching of needed and deferred Federal, State, county and municipal public projects to provide employment and restore purchasing power, Harding declared.

"Despite reactionary opposition to a national construction program, that has persisted throughout the depression, the fact remains that the proposal is the only one of the many offered that provides the admitted essential to recovery, namely, assured employment for the idle," he said. "At any time during the past three years the program could have been effectively carried through on a much smaller scale than would now suffice and the necessary volume is growing daily in proportion to the delay."

Dilatormess not only will steadily increase the volume of relief work that eventually must be launched, Harding stated, but without question will increase the unit cost of such work in direct ratio to the success of the Government in its efforts to raise commodity prices. Passage of pending legislation to provide for a thirty-hour working week also would have a marked upward influence on construction material prices, he pointed out.

INSTITUTE ENGINEER DIES

Lee H. Miller, chief engineer and one of the founders of the American Institute of Steel Construction died Sunday in Cleveland. Mr. Miller failed to rally from a major operation.

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ALIENS BARRED FROM PUBLIC RELIEF WORKS

Attorney General Holds Em- ployment Restricted to Citizens

Employment of aliens on unemploy- ment relief public works projects is declared illegal in an opinion rendered by Attorney General U. S. Webb, in response to an inquiry from Governor Rolph.

Webb's ruling concerned the case of Mexican aliens in Imperial Co. W. W. McEuen of Imperial County had asked Governor Rolph whether or not these men could be employed on public works as part of the county's relief program for the needy.

The attorney general's ruling read in part:

"I have before me your communication of April 15 containing the correspondence of W. W. McEuen concerning the proposal to employ Mexican aliens in unemployment relief work. You ask whether or not they may be placed on relief work in view of the provision of law that aliens are not eligible for work on public projects.

"It appears that funds have been made available by the Reconstruction Finance Corp., the method of expending them to be the employment of needy persons for a certain number of days each month on various public works. It is not stated under whose direction the particular work in question is to be performed.

"Two statutes in this state prohibit the employment of aliens on public works: Statutes of 1915; pg. 90 as amended, Act 258, Deering's General Laws, 1931, and Statutes of 1931, pg. 913, Act 6430, Deering's General Laws, 1931.

"The former act provides that no persons excepting native-born or naturalized citizens may be employed in any department of state, county, or city, and that it shall be unlawful for any person elected, appointed, or commissioner to fill any office or any department thereof, to employ or appoint any per-

HONOLULU BIDDER LOW ON PIER JOB

WASHINGTON, May 3—Ralph E. Woolley, Honolulu, today submitted low bid of \$1,279,000 to Bureau of Yards and Docks, Navy Department, for constructing pier and two quays of reinforced concrete at Pearl Harbor, T. H.

The contract includes concrete cylinders on wood and concrete piles, steel sheet pile bulkhead, timber fender, track work, piping and electrical conduits. Second low bid was that of W. P. Thurston Co., Richmond, Va., at \$1,284,000.

Bids were opened today also for erecting facilities building at the Pearl Harbor Navy Yard. Tucker McClure, Ancon, C. Z., was low at \$124,480; E. E. Black Honolulu, second, at \$133,220, and low on alternate at \$119,320.

son for any duty whatever unless such person be a native-born or naturalized citizen.

"The latter of these two acts provides that no person, firm, partnership, association, or corporation or agent thereof, acting as contractor or sub-contractor on any public works of the state or of any city, county, township or other political subdivision, shall employ or cause to be employed any alien.

"Section 3 defines public works: "Work done for irrigation, utility, reclamation, improvement and other districts or other public agency, officer or body, as well as street, sewer, and other improvement work, directed and supervised by any public officer of the state or of any political subdivision, whether or not such subdivision holds a freeholders' charter, other than work done directly by public utility companies, pursuant to order of the Railroad Commission or other public authority, whether or not under public supervision or direction, or paid for wholly or in part out of public funds, shall be held public work.

"In view of these provisions, in my opinion Mexican aliens may not be employed on public works in unemployment relief work."

ALTA ELECTRIC LOW BIDDER ON S. F. JAIL WORK

New Proposals To Be Opened Tomorrow On General Contract

Alta Electric and Mechanical Co. at \$137,940 submitted the low bid among eight proposals received on the mechanical and plumbing contract for the new San Francisco county jail. Bids were opened yesterday afternoon by the board of public works.

The same firm was low on the electrical contract at \$57,690, opened at the same time. Globe Electric Company was second low bidder at \$60,443.

Second and third low bidders on the mechanical work were Anderson and Rowe at \$139,650 and Jas. A. Nelson, Inc., at \$140,770.

Bids will be opened tomorrow at 11:30 A. M. on the general contract for the jail buildings and separate proposals on furnishing equipment.

The original bids on the general contract were rejected when they were found to exceed estimates and would have brought the cost of the jail above the \$800,000 voted in a special bond issue.

COMMISSION ASSESSES \$2230 WAGE PENALTIES

Penalties aggregating \$2230 were assessed yesterday by State Labor Commissioner Frank C. MacDonald against A. H. Winchcole of Richmond for alleged violations of the state prevailing wage law on his contract for plastering the Contra Costa county hall of records building at Martinez.

The contract was awarded early in 1932 and Winchcole's bid was \$30,585.

MacDonald's report to the Contra Costa county board of supervisors showed 161 instances in which the contractor is alleged to have paid six plasterers from \$3 to \$6 less than the scale set by the supervisors for the contract. Sixty-two instances in which two hod carriers were alleged to have been underpaid by \$1.50 a day are cited.

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APRIL BUILDING PERMITS IN S. F. TOTAL \$538,112

Number Issued Gains Over March; Dollar Value Even

San Francisco building permits gained in number and remained at about the same total value for April compared with March, according to the report of Building Inspector John B. Leonard issued at noon Saturday.

There were 422 permits issued with an estimated value of \$538,112. This compares with 343 permits and a value of \$548,231 in the previous month.

A gain over the previous month in Class C building, and dwellings is reported.

The number of permits for alterations was 345 compared with 277 in March, but the aggregate value was lower.

Following is the classified report with comparative figures for the corresponding month a year ago and yearly totals to date:

	April, 1933		April, 1932	
	No. P'mts	Est. Cost	No. P'mts	Est. Cost
(A)	4	\$ 101,250	2	\$ 325,000
(B)	63	224,356	15	37,425
Frames ..	345	115,504	120	461,125
Alter.	2	17,624	427	185,551
Public	4	71,145	2	6,972
State	4	8,233	1	21,483
U. S.	4	8,233	2	4,350
Total	422	\$ 538,112	569	\$ 1,041,906
		1933		1932
4 Mths. 1356	\$ 15,966,555	2009	\$ 3,992,222	

The Bureau of Labor Statistics of the United States Department of Labor received reports of building operations from 750 identical cities having a population of 10,000 or over. According to these reports there was a decrease of nine-tenths of one percent in indicated expenditures for total building operations. This is against the seasonal trend, as normally there is an increase in building operations comparing March with February.

Comparing March, 1933 with February, 1933, there was an increase of 42.4 percent in the number of residential buildings but a decrease of 8.6 percent in the indicated expenditures for this type of building. New nonresidential buildings increased 45.2 percent in number but decreased 22.5 percent in estimated cost. The number of additions, alterations, and repairs showed an increase of 71.3 percent while indicated expenditures for this type of building operations increased 47.4 percent.

The number of building operations increased 64.0 percent, although there was a decrease of nine-tenths of one percent in indicated expenditures. During March, 1933, 2,277 family dwelling units were provided in new buildings. This is an increase of 29.4 percent as compared with February.

West Coast Mill Orders Gain Over Previous Week; Hardwood Business at New High Level

A total of 352 down and operating mills which reported to the West Coast Lumbermen's Association for the week ending April 22 produced 65,728,586 board feet of lumber. This was an increase of 3,223,140 feet or 5.2 percent over their cut in the preceding week. The average week's production of this group of sawmills in 1933 has been 57,825,783 feet; during the same period in 1932, their weekly average was 66,176,724 feet.

The new business reported last week by 179 mills was 63,800,162 board feet against a production of 60,346,376 feet and shipments of 78,718,393 feet. Their shipments were over their production by 29.17 percent and their current sales were over production by 5.3 percent. The orders booked last week by this group of identical mills were more than their orders of the preceding week by 4,968,902 feet, or 8.5 percent.

The unfilled order file at these mills stood at 244,332,484 board feet a decrease of 17,458,523 feet from the week before.

The aggregate inventories of 130 mills are 17.1 percent less than at this time last year.

New business at the hardwood mills during the week ended April 15, 1933, was the heaviest since last October and totalled 31 percent above that booked during the corresponding week of 1932, according to telegraphic reports to the National Lumber Manufacturers' Association from regional associations covering the operations of 663 leading softwood and hardwood mills. New business at softwood mills fell below that of the previous four weeks but was higher than for any of the first ten weeks of 1933. Softwood production established a new high for 1933, at 96,972,000 feet. All production totalled 107,295,000 feet, also 1933 highest figure. Total orders amounted to 124,328,000 feet.

All regions showed orders above production, those of the softwood mills being 10 percent above and of the hardwood mills 67 percent above. Orders at northern hemlock mills were only slightly below the high record of the previous week, and at northern pine mills they overtopped the previous high of the week before by 13 percent. Orders at southern hardwood mills were the heaviest since October.

Compared with last year, northern pine, northern hemlock and the hardwood regions showed orders appreciably above the corresponding week. Other softwood regions were below their last year's record. Total softwood orders were 9 percent below last year; all lumber orders 5 percent below.

New business at the Southern pine mills was 37 percent of capacity; at the Western pine mills, 18 percent; at Southern hardwood

mills, 34 percent; compared with 35, 23 and 28 percent respectively, for the previous week.

Forest products carloadings during the week ended April 8, were 16,655 cars, a decrease of 404 cars from the 1933 high record of the previous week, and a decrease of 2,940 cars from the corresponding week of 1932.

OAKLAND FIRM WINS \$14,849 S. MATEO SUIT

Judgement for \$14,849 for improvements made in the Capuchino Golf Club enterprise in Millbrae several years ago has been awarded the Central Construction Company of Oakland by Superior Judge Maxwell McNutt in San Mateo county.

Decision was entered against the Stansbury Contracting Company and Mrs. Laura Finnell. The case was decided on a retrial of the suit first decided by former Superior Judge George H. Buck. Judge Buck found against the plaintiffs and ordered them to pay court costs of the defendants.

Under the new decision the Stansbury company must pay \$6,938 and Mrs. Finnell \$7,911.



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Chicago Home Building Conference Will Plan to Revive Construction

A picture of vast industries working behind the scenes during the past two years to add to the efficiency of American homes and financial experts slaving day and night to perfect new and better financing plans to lower their cost, will be presented at the coming National Conference on the Renewal of Home Building to be held at the Congress Hotel in Chicago, May 9 and 10. The meeting was planned by thirty leaders in the construction and allied trades after the assembling of data from various parts of the country showing a receding housing vacancy, complete reports on which will be a feature of the conference.

One hundred trade associations have sent calls to their members throughout the country to attend the conference to hear of progress that is being made in many quarters to bring about better financing plans and to hear inventors of new materials, units, processes and designs tell about what new home-builders can have. The program is not complete but includes, "The Accumulating Housing Shortage," by James S. Taylor, Department of Commerce, Washington, D. C.; "The Value of Planning the Neighborhood," by Louis Brownlow, director of the public administration clearing house, University of Chicago; "What the Home Building Dollar Will Buy Today," by Roy Wenzlick, St. Louis, Mo., who is making, especially for the meeting, an up-to-the-minute survey on new materials and their uses.

A symposium participated in, among others, by R. V. Parsons, Johns-Manville Corp., New York City, will cover new materials and their uses. In a second symposium on prefabricated structures will be heard A. Trieschmann, President, Fordyce-Crosset Co., Chicago; R. E. Copeland, Housing Engineer of the Portland Cement Assn.; George N. Simpson, President, General Houses Inc., both of Chicago; and Bennett Chapple, vice-president, American Rolling Mill Co., Middletown, Ohio.

One big feature of the meeting will be the release, said to be for the first time, of information on new prefabricated kitchens and bathrooms that can be set up in new or old homes and attached, so it is said, with a single plumbing connection.

E. V. Porter, president of the Dahlstrom Metallic Door Company of Jamestown, N. Y., will describe these new units.

Dr. L. C. Gray, U. S. Department of Agriculture, Washington, D. C., and Percy Wilson, chairman of the home builders and subdividers division of the Chicago Real Estate Board, will tell of a new movement that is developing in various cities, including Chicago, to use as miniature farms, marginal land previously laid out as subdivisions.

J. Soule Watterfield, vice-president of the Starrett Building Company, Chicago, chairman of the conference, has asked that people

entering the contest sponsored by the conference for the best letters on "What Kind of a Home I Want" place sufficient postage on their entries. The conference has paid extra postage on several hundred letters in which contestants have included rough drawings of the homes they describe which added to the weight of the letters. There is no budget for this purpose.

Two prizes of \$100 each are offered to the most practical letters submitted by men and women before May 5. Letters should be addressed to the Conference headquarters, Room 1041, 310 S. Michigan Blvd., Chicago.

SOFTWOOD SALES IN NORMAL RATIO

Softwood lumber, in relation to other building materials, more than held its own during the year 1932 in comparison with 1931, according to studies prepared and published by Engineering News-Record in the February 2, 1933, edition.

One of the materials studies gives the production, shipments or sales of various construction materials, 1932 being compared with 1931. In this the following decreases in percentages were given for the important materials:

	1932 to 1931	%
(Mostly 11 months period)		
Face brick, shipments.....	47	
Cement, shipments.....	64	
Lumber, softwoods, shipments.....	67	
" orders.....	69	
" production.....	59	
Gypsum products, shipments.....	61	
Cement, plasters, etc., shipments....	55	
Steel ingots production.....	52	
Fabricated struc. steel, ship.....	52	
" bookings (orders).....	45	
Fabricated steel plate, new orders	53	
Prepared roofings, shipments.....	104	
Terra cotta, orders.....	27	

"It may be seen that softwood lumber with shipments 67 per cent in 1932 of the 1931 totals showed a large volume lead during the year over all the principal building materials excepting only cement and gypsum products," comments a West Coast Lumbermen Association Bulletin. "It may also be seen that softwood orders and shipments were greatly in excess of production, which represents heavy reductions in stocks during the year."

NAPA MAY ORGANIZE BUILDERS' EXCHANGE

Formation of a Builders' Exchange as a division of the Napa Chamber of Commerce is to be considered at a meeting of building contractors and material dealers Friday night. It is proposed to model the exchange after the chamber merchants' committee.

Fifty permits totaling \$65,230 were issued during April by Building Inspector R. V. Lotz of San Jose, according to a report submitted to the city council.

STATE AWARDS \$36,841,315 BAY SPAN CONTRACTS

Six Low Bidders Authorized to Proceed with Work

SACRAMENTO, April 28.—State Director of Public Works Earl Lee Kelly today awarded contracts to five San Francisco firms authorizing them to construct six major units of the San Francisco-Oakland Bay Bridge at a cost of \$36,841,315.48. The contracts all were awarded to low bidders.

Accompanied by Harrison S. Robinson, President of the Financial Advisory Committee, Director Kelly addressed the assembled contractors and awarded them their respective contracts. He then admonished them to build well and faithfully, and to consider unemployment relief and labor welfare as of prime importance. "This bridge is to be built of all American materials and by American citizens; each employee thereon must be a voting American citizen," Director Kelly declared.

Robinson said: "This bridge, which will bind Oakland and San Francisco, has progressed cleanly and every detail thus far has followed the highest principles of public spirited citizens and officials. Let us keep it so. The State Department of Public Works is to be commended upon its strict adherence to all business and governmental ethics in the handling of the business of this project."

Contracts will be executed within the next eight days and construction, Director Kelly asserted, will start not later than the first week in June.

Chief Engineer Purcell is closing financial arrangements and will return from Washington inside of a week.

Among those present at the award of bids yesterday were: E. J. Schneider of the Columbia Steel Corp., C. C. Horton of Healy-Tibbits Const. Co., Henry J. Kaiser of Bridge Builders, Inc., Albert Huber of the Clinton Const. Co., and Alan MacDonald of the Transbay Const. Co.

The contracts awarded yesterday were:

Contract 2—Substructure, West Bay Crossing, Transbay Construction Company, \$6,957,100.68.

Contract 4—Substructure, East Bay Crossing, Bridge Builders, Inc. \$4,495,854.00.

Contract 6—Superstructure, West Bay Crossing, Columbia Steel Co., \$13,732,471.80.

Contract 7—Superstructure, East Bay Crossing, Columbia Steel Co., \$8,798,096.50.

Contract 5—Yerba Buena Tunnel and Construction, Clinton Const. Co., \$1,821,292.50.

Contract 3—San Francisco Anchorage, Healy-Tibbits Const. Co., \$1,036,500.00.

PERMITS AND CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
240	Venn	Jones	2000
241	Barry	McCarthy	4000
242	Biglieri	Owner	30000
243	Huckins	Lindgren	25000
244	Haase	Owner	8000
245	Legallet	Owner	4000
246	Creamer	Owner	4000
247	Willbe	Owner	5000
248	Grahn	Owner	3000
249	Wilson	Owner	30000
250	Serpo	Coburn	1700
251	El Portal	Mullen	1750
252	Lange	Moore	3750
253	Kenneally	Pratt	2900
254	DeMartini	DeBenedetti	6500
255	Solomon	Liebman	3000
256	Christensen	Owner	6000
257	Vowinkel	Owner	3500

ALTERATIONS

(240) NO. 972 MARKET ST. Alter restaurant.

Owner—W. S. Venn, 972 Market St., San Francisco.

Architect—Not Given.

Contractor—W. C. Jones, 1132 Guerrero St., San Francisco. \$2000

ALTERATIONS

(241) NO. 689 FOURTEENTH ST. Alter flat and store.

Owner—Mr. Barry, % Contractor. Plans by Owner.

Contractor—R. McCarthy, 1363 14th Ave., San Francisco. \$4000

APARTMENTS

(242) E PARKER AVE 150 N Geary St. Three-story and basement frame (12) apartments.

Owner—G. Biglieri, % Architect.

Architect—Irvine & Ebbets, 2048 Market St., San Francisco.

Engineer—R. R. Irvine, 2048 Market St., San Francisco. \$30,000

ADDITION

(243) SE SUTTER AND POWELL. One-story Class A addition to Sir Francis Drake Hotel.

Owner—Huckins-Newcomb Hotel Co., Premises.

Architect and Engineer—W. P. Day, Financial Center Bldg., S. F.

Contractor—Lindgren & Swinerton, 225 Bush St., S. F. \$25,000

PENTHOUSE

244) NW TURK AND MASON STS. Penthouse addition to hotel.

Owner—A. Haase, Oxford Hotel, San Francisco.

Architect—Grimes & Schoening.

Engineer—W. Adrian, 417 Market St., San Francisco. \$8000

STOREROOM

(245) SW GRIFFITH and Quesada; three-story frame storeroom.

Owner—Legallet & O'Neill, Quesada and Griffith Sts.

Architect—H. G. Stoner, 310 Ulloa St. \$4000

DWELLING

(246) E FAIROAKS 125 S Twenty-third St. One-story and basement frame dwelling.

Owner—D. J. Creamer, 1447 Valencia St., San Francisco.

Plans by Owner. \$4000

DWELLING

(247) S LAS PALMAS 10 W Rockdale. Two-story and basement frame dwelling.

Owner—A. J. Wilbe, 950 Monterey Blvd., San Francisco.

Architect—H. Stoner. \$5000

DWELLING

(248) E TOCOLMA 248 N Blanken. One-story and basement frame dwelling.

Owner—W. H. Grahn, 2965 Mission St., San Francisco.

Architect—C. F. Strothoff, 2274 15th St., San Francisco. \$3000

ALTERATIONS

(249) NO. 1164 MARKET ST. Alterations and addition to lofts and stores.

Owner—A. W. Wilson, % Architect.

Architect—C. A. Meussdorfer, 785 Market St., San Francisco. \$30,000

REPAIRS

(250) NO. 1690 McALLISTER. Repair fire damage to flats.

Owner—F. Serpo, % Contractor. Architect—Not Given.

Contractor—I. W. Coburn, 2048 Market St., S. F. \$1700

ALTERATIONS

(251) NW EIGHTH AVE AND FULTON ST. Alter market for restaurant.

Owner—El Portal Cafe, Premises.

Plans by Contractor.

Contractor—Mullen Mfg. Co., 60 Rausch St., S. F. \$1750

DWELLING

(252) N HERNANDEZ AVE. 242 W Laguna Honda Blvd. One-story and basement frame dwelling.

Owner—Wm. F. Lange, 1735 Van Ness Ave., San Francisco.

Architect—G. E. McCrea, Hearst Bldg., San Francisco.

Contractor—Moore & Roberts, 693 Mission St., S. F. \$3750

DWELLING

(253) E MIGUEL 60 N Arlington St. One-story and basement frame dwelling.

Owner—J. and M. Kenneally, 298 Arlington St., San Francisco.

Architect—H. E. Harris, 815 Balboa St., San Francisco.

Contractor—C. A. Pratt, 233 Clayton St., San Francisco. \$2900

FLATS

(254) E POWELL 62 S Greenwich St. Two-story and basement frame (2) flats.

Owner—L. DeMartini, 671 Greenwich St., San Francisco.

Architect—Not Given.

Contractor—A. De Benedetti & Sons, 22 Cotter St., S. F. \$6500

STORES

(255) N CHESTNUT ST. 72 W Pierce St. One-story frame stores.

Owner—A. Solomon, 516 21st Ave., San Francisco.

Architect—F. Quandt, 2800 Filbert St., San Francisco.

Contractor—P. Liebman, 3348 Broderick St., S. F. \$3000

DWELLINGS

(256) E TWENTY-FIRST AVE. 25 S Kirkham. Two one-story and basement frame dwellings.

Owner—H. Christensen, 1422 27th Ave., San Francisco.

Plans by Owner. \$3000 each

REPAIRS

(257) NO. 351 GROVE ST. Repair fire damage to apartments.

Owner—H. Vowinkel, 350 Hayes St., San Francisco.

Architect—Not Given. \$3500

ALAMEDA COUNTY

131	Starr	Knight	4000
132	Terrill	Fox	3000
133	Cow	Owner	2800
134	Carroll	Franzen	1150
135	Oakland	Moore	1176
136	Wachs	Mueller	1500
137	Johnson	Owner	1600
138	Pfrang	Owner	5000
139	Searle	Moen	3500
140	Foulkes	Owner	1000
141	McLaughlin	Reimers	7000
142	Carlson	Owner	3500
143	Gardner	Owner	1000
143	Tavares	Owner	1500
144	Warren	Owner	3600
145	Pleitner	Watson	4000
146	Favero	Anderson	6900

BUILDING

(131) NO. 2437 ROOSEVELT DRIVE, ALAMEDA. Building.

Owner—Emily Starr.

Architect—Not Given.

Contractor—Harry C. Knight, 315 15th St., Oakland. \$4000

DWELLING

(132) SE COR. ASCOT DRIVE and Camelford Place, OAKLAND; 2-story 4-room dwelling.

Owner—Joe Terrill.

Architect—Not Given.

Contractor—Fox Bros., 1478 University Ave., Berkeley. \$3000

ADDITION

(133) 3629 GROVE ST., OAKLAND; addition to store.

Owner and Builder—Cow Bell Dairy Stores, 3629 Grove St., Oakland.

Architect—Not Given. \$2800

ALTERATIONS

(134) 889 54th ST., OAKLAND; alterations.

Owner—M. J. Carroll, 889 54th Street, Oakland.

Architect—Not Given.

Contractor—Carl H. Franzen, 883 54th St., Oakland. \$1150

REPAIRS

(135) 1346 SEVENTH Street, OAKLAND; fire repairs.

Owner—Oakland Copper & Brass Co., 7th and Kirkham Sts., Oakland.

Architect—Not Given.

Contractor—John J. Moore Co., 354 Hobart St., Oakland. \$1176

ALTERATIONS

(136) NO. 1301 WASHINGTON ST., OAKLAND. Alterations.

Owner—Wachs Realty Co., Bank of America Bldg., Oakland.

Architect—Not Given.

Contractor—F. A. Mueller, Syndicate Bldg., Oakland. \$1500

DWELLING

(137) NO. 7569 STERLING DRIVE, OAKLAND. One-story three-room dwelling.

Owner—Jeannie C. Johnson, 5240 Belvedere St., Oakland.

Architect—Not Given. \$1600

DWELLING

(138) NO. 585 AILEEN ST., OAKLAND. Two-story six-room dwlg

Owner—C. J. Pfrang, 6300 Claremont Ave., Oakland.

Architect—Not Given. \$5000

DWELLING

(139) NO. 504 E-TENTH ST., OAKLAND. Two-story brick dwelling and shop.

Owner—D. F. Searle, 202 E-12th St., Oakland.

Architect—Not Given.
Contractor—Ole Moon, 2660 74th Ave., Oakland. \$3500

ALTERATIONS
(140) NO. 419-423 FIFTEENTH ST., OAKLAND. Alterations.
Owner—Edward T. Foulkes, 357 12th St., Oakland.
Architect—Not Given. \$1000

RESIDENCE
(141) NO. 355 HILLSIDE AVENUE, PIEDMONT. Two-story 6-room frame residence and garage.
Owner—D. McLaughlin, 565 Kenmore St., Oakland.
Architect—Not Given.
Contractor—Irwin H. Reimers, 565 Kenmore Ave., Oakland. \$7000

RESIDENCE
(142) NO. 845 EUCLID AVE., BERKELEY. Residence.
Owner—Oscar E. Carlson Jr., 659 Santa Barbara Road, Berkeley.
Architect—Paul Anderson, 3836 E-14th St., Oakland. \$3500

STATION
(143) NO. 1928 HIGH STREET, ALAMEDA. Service station.
Owner—Gardner Bros., 1429 High St., Alameda.
Architect—Not Given. \$1000

ALTERATIONS
(143) NO. 3814 E-TWELFTH ST., OAKLAND. Alterations and addition.
Owner—J. M. Tavares, 3814 E-12th St., Oakland.
Architect—Not Given. \$1500

DWELLING
(144) NO. 3526 BRIGHTAN AVE., OAKLAND. One-story six-room dwelling.
Owner—W. H. Warren, 3502 Foothill Blvd., Oakland.
Architect—Not Given. \$3600

DWELLING
(145) NO. 1624 CENTINI AVENUE, OAKLAND. One-story six-room dwelling.
Owner—H. A. Pleitner, 4020 E-14th St., Oakland.
Architect—Not Given.
Contractor—Wm. Watson, 4750 Mel-don Ave., Oakland. \$4000

FLATS
(146) NO. 536-538 PRINCE ST., OAKLAND. Two-story 11-room flats.
Owner—F. Favero, 787 Mandana Blvd. Oakland.
Architect—Not Given.
Contractor—W. A. Anderson, 531 Van Buren Ave., Oakland. \$6900

DWELLING
(53) LOT 4 BLK 2918 Map Laguna Honda Park. All work for one-story and basement wood frame dwelling.
Owner—William F. and Zelma Lange, 1735 Van Ness Ave., S. F.
Architect—G. E. McCrea, Hearst Bldg. San Francisco.
Contractor—Moore & Roberts, 693 Mission St., San Francisco.
Filed May 2, '33. Dated May 1, '33.
When completely framed and sheathed and all plumbing rough in and all sewers & water pipes in and concrete except paving completed
Froof completed
Upon completion
Usual 35 days.....
TOTAL COST, \$4340
Bond, \$4340. Surety, The Fidelity & Casualty Co. of New York. Limit, 100 days. Forfeit, none. Plans and specifications filed.

ALTERATIONS
(54) NO. 507-509 VALENCIA ST. NE Cor. Sixteenth and Valencia Sts. All work for alterations.
Owner—James J. Lee Inc., 513 Valencia St., San Francisco.
Architect—John B. McCool, 381 Bush St., San Francisco.
Contractor—Fred Lindgren, 225 Bush St., San Francisco.
Filed May 2, '33. Dated Apr. 26, '33.
When completed\$300
45 days after completion..... 300
75 days after completion..... 330
TOTAL COST, \$930
Bond, none. Limit, 30 days. Forfeit, plans and specifications, none.

BUILDING CONTRACTS

ALAMEDA COUNTY
No. Owner Contractor Amt.
20 Alaska Kitchen 32770

ALTERATIONS
(20) ENCINAL TERMINALS, Alaska Packers Assn., Alameda. All work for reconstruction of floors. Units A and B, Encinal Terminals of Alaska Packers Assn.
Owner—Alaska Packers Association, 111 California St., San Francisco.
Engineer—Phillip L. Bush, 101 California St., San Francisco.
Contractor—A. W. Kitchen & Co., 110 Market St., San Francisco.
Filed May 3, '33. Dated April 28, '33.
On 10th of each month..... 75%
36 days after..... 25%
TOTAL COST, \$32,770
Bond, \$32,770. Surety, Fidelity & Casualty Co. Limit, 90 days. Forfeit, none. Plans and specifications filed.
s 210ecArchitectnoAGS.hCmao

St.; contractor, E. Whissell, 3828 Balboa St.
STUCCO front of dwelling, \$25; 203 Hale St.; owner, J. Mecla, 203 Hale St.
ALTER dwelling, \$100; 3573 18th St.; owner, A. Kilsura, 3573 18th St.; contractor, Sunset Concrete Co., 847 47th Ave.
ALTER apartment house, \$200; 299 21st Ave.; owner, V. Johnson, 299 21st Ave.; contractor, J. B. Gauley 299 22nd Ave.
ALTER restaurant, \$75; 98 Embarcadero; owner, Madison & Burke, % 98 Embarcadero.
SIGN, electric, \$145; 728 Great Highway; owner, Whitney Bros., 728 Great Highway; contractor, Neon sign Service Co., 1707 Folsom St.
SIGN, electric, \$300; 482 Sutter St.; owner, Crazy Water Co., premises; contractor, Neon Sign Service Co., 1707 Folsom St.
SIGN, electric, \$265; 1207 Golden Gate Ave.; owner, Schindler's Kosher Restaurant, 1207 Golden Gate; contractor, Neon Sign Service Co., 1707 Folsom St.
SIGN, electric, \$105; 116 Mason St.; owner, Cozy Hotel, Prem.; contractor, Neon Sign Service Co., 1707 Folsom St.
SIGN, electric, \$300; 529 Post St.; owner, Young's Cafe, Premises; contractor, Brumfield, 965 Folsom.
ALTER flats, \$500; 282 Castro St.; owner, A. Huber, 282 Castro St.
SIGN, electric, \$360; 1101 Valencia St.; owner, F. Samuels, 1101 Valencia contractor, Neon Sign Service Co., 1707 Folsom St.
SIGN, electric, \$300; 4687 Mission St. owner, J. Schneur, Prem.; contractor, Brumfield Electric Co.; 965 Folsom St.
ADD to dwelling, \$200; 1026 Clay St.; owner, S. K. Sai, 1026 Clay St.
BARBER pole, \$10; 645 Hyde St.; owner, J. Londons, 645 Hyde St.; contractor, National Elec. Co.
SIGN, electric, \$200; 4929 Mission St.; owner, Pacific Poultry Co., 4929 Mission St.; contractor, Brumfield Elec. Co., 965 Folsom St.
SIGN, electric, \$300; 488 Sutter St.; owner, G. Chriss, Premises; contractor, Brumfield Elec. Co., 965 Folsom St.
REPAIR fire damage to apartments, \$400; 227 Sanchez St.; owner, Mrs. Dierke, 129 Julian Ave.
ALTER lunch room, \$350; SE 18th and Capp Sts.; owner, G. Ratto, 106 Eureka St.

ALAMEDA COUNTY UNDER \$1000

GARAGE, 1-story, \$250; 5108 Manila Ave., Oakland; owner, Francis A. Coles, 5108 Manila Ave., Oakland; contractor, T. D. Courtright, 5098 Manila Ave., Oakland.
SIGN, electric, \$200; 1718 E 12th St., Oakland; owner, Adams Brothers; contractor, Radiant Neon Co., 2561 San Pablo Ave., Oakland.
ALTERATIONS, \$55; 1669 Oxford St., Berkeley; owner and contractor, J. C. Brown, 1669 Oxford Street, Berkeley.
ADDITION, \$65; 1442 Excelsior Ave., Oakland; owner, Mrs. Mary Morgan, Premises; contractor, L. E. Van Ness, 4920 Park Blvd.
ADDITION, \$110; 1460 Allman St., Oakland; owner, Jens Smith, 1460 Allman St.; contractor, L. E. Van Ness, 4920 Park Blvd.
ALTER, \$135; 2689 Fruitvale Avenue, Oakland; owner and contractor, A. G. Frazer, 2679 Fruitvale Ave., Oakland.
SHED, 1-story, \$100; 4464 Reinhardt Drive, Oakland; owner and builder, Mrs. R. Beare, 4464 Reinhardt Drive, Oakland.
REPAIRS, \$200; 1816 8th Ave., Oakland; owner, J. B. Henninger, 1816 8th Ave.

SAN FRANCISCO UNDER \$1000

ALTER shop, \$200; 881 Folsom St.; owner, S. Ran, 877 Folsom St.; contractor, E. Rosemont, 176 Duboce Ave.
ADDITION to dwelling, \$400; 4332 Kirkham St.; owner, J. M. Cambridge, 4620 Irving St.
SIGN, electric, \$25; 2162 Market St.; owner, Parameunt Hotel, 2163 Market; contractor, QRS Neon Corp., 690 Potrero Ave.
ALTER public garage, \$490; 351 Valencia St.; owner, H. S. Filibello, % 151 Sutter St.; engineer, Ellison & Russell, 712 Pacific Bldg.; contractor, Barrett & Hilt, 918 Harrison St.
ALTER restaurant, \$—; 5298 3rd St.; owner, J. Ragone, 312 Bowdoin St.
ALTER flats for apartments, \$350; 49 Noe St.; owner, E. C. Lyman, 49 Noe St.
ALTER restaurant, \$400; 3417 18th St.; owner, H. Basin, 2204 Mission

BUILDING CONTRACTS

52 Pacific	Dinwiddie	52167
53 Lange	Moore	4340
54 Lee	Lindgren	930

ADDITIONS
(52) SW BUSH and Larkin Streets; two-story and basement additions of an ultimate 5-story and basement addition to existing building known as Graystone Exchange
Owner—Pacific Telephone & Telegraph Co., 140 New Montgomery St.
Bldg. Engineer—E. V. Cobby (equipment and Bldg. Engr., R. I. Blake Chief Engineer, G. H. Senger), 140 New Montgomery St.
Contractor—Dinwiddie Const. Co., Crocker First National Bank Bldg.
Filed Apr. 28, '33. Dated April 14, '33.
First of each month.....75%
On completion75%
40 days after completion.....25%
TOTAL COST, \$62,167
Bond, \$62,167. Sureties, Pacific Indemnity Co. Limit, 55 days. Plans and specifications filed.

BUILDING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

- | | |
|---------------------------------|---|
| 1.—Apartments | 11.—Ice and Cold Storage Plants |
| 2.—Bonds | 12.—Fever Plants |
| 3.—Churches | 13.—Public Buildings, Fire Houses and Jails |
| 4.—Factories and Warehouses | 14.—Residences |
| 5.—Flats | 15.—Schools |
| 6.—Garages and Service Stations | 16.—Banks, Stores and Offices |
| 7.—Federal Buildings | 17.—Theatres |
| 8.—Club Buildings | 18.—Wharves & Docks |
| 9.—Hospitals | 19.—Misc. Const. |
| 10.—Hotels | 20.—Misc. Supplies & Materials |

1—APARTMENTS

Contract Awarded.
APTS. & STORES Cost, \$6509
SAN FRANCISCO. 14th St. (south of Market).

Two-story frame and stucco apartments and stores (two apts.; one store) Pabco roof, Arcola heating system, canvas walls, hardwood floors, etc.

Owner—Mr. Barry.

Plans by Owner.

Contractor—Robt. McCarthy, 1363 14th Avenue.

Sub-bids will be asked in one week.

Painting Contract Awarded.
REMODEL APTS. Cost, \$12,000
SAN FRANCISCO. NE Bush St. and Powell Street.

Remodel five-story and hasement concrete apt. building (new plumbing, wiring and heating, tile work, painting, hardwood floors, linoleum ranges, etc.)

Owner—Samuel Gerson.

Architect—S. Heiman, 655 Market St.

Painting—A. A. Zelinsky, 4420 California Street.

Other awards reported April 5.

Preliminary Plans Being Prepared.
ALTERATIONS Cost, \$—
SAN FRANCISCO. Ellis Street near Laguna Street.

Alterations to five-story Class C concrete apartments (work involves cement plaster, painting, tile work, wrought iron, etc.)

Owner—Developments, Inc., Russ Bldg., San Francisco.

Architect—Henry H. Gutterson, 526 Powell St., San Francisco.

Bids will be taken in about three weeks.

Segregated Bids Being Taken.
REMODEL Cost, \$39,000
SAN FRANCISCO. No. 1164 Market Street.

Remodel four-story concrete loft building for apartments (add one story, 30 2-room apts., 4 store).

Owner—A. W. Wilson.

Architect—C. A. Meussdorffer, Humboldt Bank Bldg., San Francisco.

3—CHURCHES

Taking Segregated Bids.
REBUILD Cost, \$8500
SAN FRANCISCO. No. 2475 California Street.

Rebuild structure recently destroyed by fire for frame gymnasium.

Owner—St. Paul's Episcopal Church (Rev. Leslie C. Kelly, Pastor).

Architect—Arnold Constable, 530 Market St., San Francisco.

Segregated bids will be taken on

crapentry and lumber, plumbing, electric, roofing sheet metal, etc.

2—BONDS

SAN DIEGO, Cal.—City council has accepted the bid of the Reconstruction Finance Corp. for the first \$240,000 El Capitan Dam bonds. The next requisition is to be for \$610,000.

4—FACTORIES & WAREHOUSES

Sub-Contracts Awarded.
LAUNDRY Cost, \$—
LOS GATOS, Santa Clara Co., Cal.
One-story concrete laundry (26x60 ft.) tar and gravel roof, etc.

Owner—J. Libante.

Architect—H. C. Baumann, 251 Kearny St., San Francisco.

Contractor—Vannucci Bros., 1875 San Bruno Ave., San Francisco.

Lumber—Sudden Lumber Co., Evans and Quint Sts., San Francisco.

Reinforcing Steel—W. C. Hauck Co., 280 San Bruno Ave., San Francisco

Sub-bids are being taken on other portions of the work with the exception of the plumbing, which will be let within a day or so.

Sub-Contracts Awarded.
PACKING HOUSE Cost, \$22,201
SAN JOSE, Santa Clara Co., Calif.
Fifth and Market Streets.

One-story brick and frame packing house (Summerbell trusses, built-up roof, cement floors, etc.) irregular shape. One section (30x60 ft. 60x96 ft.; 96x96 ft.).

Owner—Barron-Gray Packing Co.
Architect—Chas. McKenzie, Twohy Bldg., San Jose.

Contractor—John S. Newell, 838 Minnesota St., San Jose.

Roofing—Fred Hayden, 369 Stockton Ave., San Jose.

Brick Work—Frank Filben, 1140 Martin Ave., San Jose.

Plumbing—H. J. Pascoe, 208 W. Santa Clara St., San Jose.

LOS ANGELES, Calif.—Santa Fe Brewery Co., care of Robt. A. Horowitz, 448 S Hill St., has incorporated with a capital stock of \$1,000,000 and proposes erecting a brewery, the location of the plant and other details to be announced later. Directors of the company, in addition to Mr. Horowitz, are: Frank J. Kashare, Marion C. Johnson, Max Seiff and Al Horowitz.

Reinforcing Steel Bids Being Taken.
PLANT Cost, \$50,000
SAN FRANCISCO. Washington St.
Two-story reinforced concrete printing plant.

Owner—Edward Barry Co., 32 Clay St. San Francisco.

Architect—H. A. Minton, 525 Market St., San Francisco.

Engineer—L. H. Nishkian, 525 Market St., San Francisco.

Contractor—David Paganini, 519 California St., San Francisco.

Structural Steel Bids Being Taken.
WAREHOUSE Cost, \$—
PITTSBURG, Contra Costa Co., Cal.
One-story steel and corrugated iron warehouse (80x120 ft.)

Owner—Great Western Electro-Chemical Co., 9 Main St., San Francisco and Pittsburg, Calif.

Engineer—Leland Rosener, 233 Sansome St., San Francisco.

Structural steel bids are being taken but work will be done by owner's own forces.

Contract Awarded.
PLANT Cost, \$2300
ALAMEDA, Alameda Co., Cal. Buena Vista Ave. near Webster St.

One-story concrete and brick veneer printing plant (30x60 ft.); wood joists, shingle roof.

Owner—Alameda Printing Co., Eagle and Webster Sts., Alameda.

Plans by W. W. Dixon, 1844 Fifth Ave., Oakland.

Contractor—A. E. Waldman, 4001 Nevil St., Oakland.

Planned.
MALT FACTORY Cost, \$200,000
SEATTLE, Wash. Site not selected.

Malt factory (large grain elevator, machinery and equipment).

Owner—Coast Malting Co. (Represented by K. C. Davis, Arctic Bldg., Seattle).

Architect—Not Given.

Plans Being Completed.

BREWERY Cost, \$250,000 incl. equip.
SACRAMENTO, Sacramento Co., Cal. Sixteenth St. (7 acre track).

Four and five-story brew house (120x90 ft.) three-story cellar, one-story bottling house (80x100 ft.) all of reinforced concrete and steel construction, brick curtain walls.

Owner—Fort Sutter Brewing Co. (Wm. Dreher, President), 509 N. Tenth St., Sacramento.

Plans by Gay Engineering Co., 2650 Santa Fe Ave., Los Angeles.

Bids will be taken in about three weeks by owner.

Contract Awarded.
SHOP & RESIDENCE Cost, \$4000
OAKLAND, Alameda Co., Calif. Fifth Avenue and E 10th Street.

Two-story brick and frame shop and residence (4-room residence) flat roof, wood floors, steel sash, etc.

Owner—E. F. Searle.

Architect—L. F. Hyde, 705 25th St., Oakland.

Contractor—Ole Moen, 2660 74th Ave., Oakland.

SAN FRANCISCO.—Bids are being received by O. Litsinger, The Emporium, 835 Market Street, for elevator work, painting, wood shelving and three conveyors in connection with the one-story Class A warehouse under construction on Mission St. bet. 4th and 5th. K. E. Parker Co., 135 South Park, general contractor.

Planned.
FACTORY Cost, \$200,000
STOCKTON, San Joaquin Co., Calif. Oak and Aurora Streets.

Modern milk products plant.

Owner—Borden Co. of California, New York City.

Plans by Engr. Dept. of Owner.

Miscellaneous Iron Contract Awarded.
ALTERATIONS Cost, \$8000
SAN FRANCISCO. Mission St. bet. Fourth and Fifth.

Alterations to Hulse Bradford warehouse.

Owner—The Emporium, 835 Market St., Berkeley.

Engineer—V. H. Poss, 2929 Russell St., Berkeley.

Contractor—Monson Bros., 475 6th St.

Miscellaneous Iron—Star Ornamental Iron Works, 1271 Folsom St.

As previously reported, structural steel awarded to Western Iron Works, 141 Beale Street.

Plans Being Completed.
WAREHOUSE Cost, \$18,500
TRACY, San Joaquin Co., Cal.
 Warehouse.
 Owner—Holly Sugar Co. (W. H. Ziegler, Supt.), Tracy.
 Plans by Engineering Dept. of Owner.

Planned.
FACTORY Cost, \$—
PORTLAND, Oregon.
 New factory.
 Owner—Superheat Boilers, Inc., 275 Pine St., Portland, Oregon (Wm. E. Russell, General Mgr.)
 Architect—Not Given.

Plastering Contract Awarded.
WAREHOUSE, ETC. Cost, \$52,930
SAN FRANCISCO. Jessie Street bet. Fourth and Fifth Streets.
 One-story and basement Class A steel frame and conc. warehouse (100x160 ft.) concrete floors, etc., and two-story steel and wood bridge and certain alterations to adjoining existing building.
 Owner—The Emporium, 835 Market.
 Plans by Engr. Dept. of Owner.
 Contractor—K. E. Parker Co., 135 So. Park.
Plastering—A. Knowles, 982 Bryant Street.
 Other awards previously reported.

Additional Contracts Awarded.
REMODELING Cost, \$75,000
FRESNO, Fresno Co., Cal. No. 100 M Street.
 Remodel five-story concrete and brick brewery (steel frame and mill type construction addition with concrete floors).

Owner—Fresno Beverage Co. (D. H. Swan, W. I. Hollingsworth, et al) 100 M St., Fresno.
Architect—Chas. Butler, Cory Bldg., Fresno and Glikburg Bldg., Salinas
Contractor—Fisher & McNulty, Mattei Bldg., Fresno.

Piping and Ammonia Work—Valley Foundry & Machine Works, 710 H St., Fresno.
 Electrical bids will be opened today and painting bids will be taken within one week.

As previously reported, plumbing awarded to B. A. Newman, 320 H St., Fresno; lumber to C. S. Pierce Lumber Co., 403 North H St., Fresno; steel to Kyle & Co., 346 G St., Fresno.

Sub-Contracts Awarded.
DAIRY BLDGS. Cont. Price, \$44,900
TALMADGE, Mendocino Co., Cal.
 Group of dairy buildings (7 one-story reinforced concrete structures, asbestos shingle roof) creamery, milk barns, bull pen, dairy buildings.

Owner—State of California.
Architect—Geo. B. McDougall, state architect, Public Works Building, Sacramento.

Contractor—Oliver S. Ahnlie, 400 W Stephenson St., Ukiah.

Sheet Metal—Edgar W. Anderson Co., 3103 S San Pablo Ave., Oakland.

Masonry—W. R. House, Arcata.

Plastering—W. R. House, Arcata.

Miscellaneous Iron, Structural Steel—Schrader Iron Works, 1247 Harrison St., San Francisco.

As previously reported, plumbing and heating awarded to Hately and Hately, 1710 10th St., Sacramento; electrical to Eddy Electric Co., 309 E Weber St., Stockton; refrigeration to Cyclops Iron Works, 837 Folsom St., San Francisco.

Sub-Bids Being Taken.
STOREROOM Cost, \$4000
SAN FRANCISCO, SW Griffith and Quesada Streets.
 Three-story frame storeroom (135x70) tar and gravel roof, concrete and wood floors, etc.
 Owner and Builders—Legallet & O-

Nelli, Quesada and Griffith Sts.
Architect—Harold G. Stoner, 810 Ulloa Street.

5—FLATS

Sub-Contracts Awarded.
FLATS Cost, \$—
SAN FRANCISCO. Jefferson St. near Fillmore.

Two-story and basement frame and stucco flats (2 6-room flats) tile roof, gas hot air heating system, electric refrigeration, hardwood floors, etc.

Owner—John Ferrari.
Architect—Farr & Ward, 68 Post St.
Contractor—J. Del Favero, 666 Mission Street.

Reinforcing Steel—W. S. Wetenhall, 17th and Wisconsin Streets.

Plumbing—M. Desiano, 3117 Fillmore Street.

Concrete—Progress Tile Co., 354 28th Avenue.

Electric—Martinez Electric Co., 42 Toledo Way.

FLATS Cst, \$—
SAN FRANCISCO. Jefferson St. near Fillmore Street.

Two two-story and basement frame and stucco flats (2 6-room flats each) tile roof, gas hot air heating, electric refrigeration; canvas walls, etc.

Owner—J. Campanelli.
Architect—Farr & Ward, 68 Post St., San Francisco.

Contractor—J. Del Favero, 666 Mission St., San Francisco.

Reinforcing Steel—W. S. Wetenhall, 17th and Wisconsin Sts.

Plumbing—M. Desiano, 3117 Fillmore St., San Francisco.

Concrete—Progress Tile Co., 354 28th Ave., San Francisco.

Electric—Martinez Electric Co., 42 Toledo Way, San Francisco.

Contract Awarded.
FLATS Cost, \$7000
SAN FRANCISCO. W Leavenworth St. S North Point St.

Two-story and basement frame and stucco flats (2 5-room flats) tile and composition roof, hardwood floors, tiled baths, etc.

Owner—Withheld.
 Plans by L. Dallorso, 32 Jansen St.
Contractor—A. Sangiacomo, 422 Ninth Avenue.

Plans Being Figured.
FLATS Cost, \$7000
SAN FRANCISCO. S North Point St. E Webster.

Two-story and basement frame and stucco flats (two five-room flats) concrete basement, tile and composition roof, hardwood floors, tiled baths, etc.

Owner—Withheld.
 Plans by L. Dallorso, 32 Jensen St.

Contract Awarded.
FLATS Cost, \$—
SAN FRANCISCO. E Powell St. 62 S Greenwich St.

Two-story and basement frame and stucco flats (2 flats).

Owner—L. DeMartini, 671 Greenwich St., San Francisco.

Architect—Not Given.

Contractor—A. DeBenedetti & Sons, 22 Cotter St., San Francisco.

6—GARAGES & SERVICE STATIONS

April 28, 1933
 To Ask Bids In One Week.
SERVICE STATION Cost, \$16,000
SACRAMENTO, Sacramento Co., Cal. Sixteenth and L Streets.
 Service station.
 Owner—Shell Oil Co., Shell Bldg., San Francisco.

Plans by Engr. Dept. of Owner.
Lessee—F. E. Kraus, 2030 23rd St., Sacramento.

Contract Awarded.
SERVICE STATION Cost, 4000
SANTA CLARA, Santa Clara Co., Cal. NW Grant and Benton Streets.
 Steel service station.
 Owner—Santa Clara Council No. 1, S. E. S.
Architect—Not Given.
Contractor—Frank Nevis, Santa Clara

Sub-Contracts Awarded.
SERVICE STATION Cost, \$5000
BERKELEY, Alameda Co., Cal. NW Ashby Ave. and Sacramento St.
 Super-service station.

Owner—Sue J. Irwin, % Board of Education, Berkeley.

Plans by General Distributing Co., Oakland.

Contractor—E. G. Hildebrand, Prem. Brick—A. Hallert, 2500 65th Avenue, Oakland.

Plumbing—Suendermann Plumbing Co., 921 University Ave., Berkeley
Electric—T. L. Rosenberg Co., 411 Webster St., Berkeley.

Steel Work—Judson-Pacific Co., Foot of Park Ave., Emeryville.

(171) 1st report April 12, 1933
SAN FRANCISCO—Faggioni Co., 160 South Park, awarded contract by the Capital Company for painting two flats at 1021 Greenwich street.

7—FEDERAL BUILDING

WASHINGTON, D. C.—Bostwick-Goodell Co., Norwalk, Ohio, at \$227.52 submitted low bid to Division of Supply, Treasury Dept., for Venetian blinds for the U. S. post office at Monterey. Following bids received:
 Bostwick - Goodell, Norwalk.....\$227.52
 W. F. McCrea, Oakland (2% 10 days) 232.82
 Holmes Dept. Store, Pacific Grove, Calif. 237.30
 Yardley Screen & Weatherstrip Co., Columbus, Ohio..... 264.94
 E. C. Dehn & Co., S. F..... 283.80
 Watson Mfg. Co., Jamestown, New York 322.00
 Acme Screen Co., Ft. Worth, Texas (1% 10 days)..... 379.40
 Burlington Venetian Blind Co., Burlington, Vt. 381.00
 Higgins Mfg. Co., Newport, Kentucky 459.00
 Hough Shade Corp., Chicago.... 600.00
 Raymond Porch Shade, Janesville, Wis. (2%, 10 days)..... 630.40
 Bids held under advisement.

REDLANDS, San Bernardino Co., Cal.—North-Moller Co., 120 W Cortland St., Jackson, Michigan, awarded the following additional sub-contracts in connection with the construction of the U. S. post office in Redlands:

Composition and Tile Roofing, Insulation, Membrane Waterproofing & Dampproofing—Angelus Roofing Co., Los Angeles.

Steel Sash—Campbell Metal Window Corp., Detroit, Michigan.

Terrazzo—Consolidated Terrazzo Co., Inc., Los Angeles.

Hardware—P. & F. Corbin Co., New Britain, Conn.

Glass and Glazing—W. P. Fuller Co., San Bernardino.

Conduit, Wiring and Fixtures—Industrial Electric Co., Stockton.

Unit Wood Block, Strip Wood Block and Maple Floors—B. F. McCall, Los Angeles.

Granite Corner Stone—Riverside Monumental Co., Riverside.

Mill Work—Patten-Blinn Lumber Co., Redlands.

ALAMEDA, Alameda Co., Calif.—Until May 18, 2 P. M., bids will be received by C. H. Sweetser, District

Engineer, U. S. Bureau of Public Roads, Sheldon Bldg., 461 Market St., San Francisco, for furnishing all labor and materials required for the construction of a part of Unit 3, approximately 2050 lineal feet of chain link boundary fence at Government Island, Alameda. Plans and specifications available from above office upon deposit of \$10.00.

Sketches Completed.

POST OFFICE Cost, \$175,000
SALINAS, Monterey Co., Calif.
United States post office.
Owner—United States Government.
Architect—O'Brien Bros. and W. D. Peugh, 333 Montgomery St., San Francisco.

SAN FRANCISCO—Adriano Ramazzotti, 1473 Vallejo St., at \$4146 awarded contract by Constructing Quartermaster for four heating plants to be installed in officers' quarters at the Presidio. James Currie, 1100 Peninsula Ave., Burlingame, awarded contract for preparing basement for the installation work.

WASHINGTON, D. C.—Glover and Boyington, Pampa, Texas, submitted low supplemental bids to the Treasury Department for construction of U. S. post office at Silver City, New Mexico. The building will be a two-story and basement structure, 75x98 ft. in area, with limestone or terra cotta exterior and tile roof. The following bids were received:

(1) limestone; (2) terra cotta.
Glovey Boyington, Pampa, Texas
.....(1) \$86,068
.....(2) 83,386
R. E. McKee, El Paso.....(1) \$87,050
.....(2) 88,125
Rosen & Fischel, Chicago.....(1) \$89,294
.....(2) 97,605
R. Butke, Omaha.....(1) \$96,500
.....(2) 93,425

Bids held under advisement.

SUNNYVALE, Santa Clara Co., Cal.—Until May 9, 11 A. M., bids will be received by Public Works Officer, Twelfth Naval District, 100 Harrison St., San Francisco, for screens, window shades, and curtain and drapery rods, the work to include the provision and installation of metal screens for windows and transoms, wood frame screens for exterior doors and transoms, wood slatted blinds for windows and guides, window shades and guides and curtain and drapery rods for windows and doors at the Naval Air Station, Sunnyvale. Specification No. 7198. Specifications available from above office upon deposit of \$5.

SAN FRANCISCO—Until May 16, 11 A. M., bids will be received by Constructing Quartermaster, Fort Mason, for extending sewers, water mains, roads and sidewalks and electric pole line for eleven double Non-Commissioned Officers' quarters at Fort Winfield Scott.

FORT BARRY, Marin Co., Cal.—Until May 9, 11 A. M., bids will be received by the Constructing Quartermaster, Fort Mason, for painting five buildings at Fort Barry.

HAMILTON FIELD, Marin Co., Cal.—Until May 11, 2 P. M., bids will be received by the Constructing Quartermaster, Hamilton Field (Marin Meadows) Bombing Base, San Rafael, for furnishing and installing linoleum in kitchens and pantries of twelve company officers' quarters at Hamilton Field. Specifications may be obtained from above office.

WASHINGTON, D. C.—Until June 9, 3 P. M., bids will be received by Treasury Department for waterproofing exterior walls, pointing and patching stonework at the Federal and Territorial Building at Juneau, Alaska. Plans and specifications available from above office.

FORT BAKER, Marin Co., Cal.—Until May 9, 11 A. M., bids will be received by the Constructing Quartermaster, Fort Mason, for painting two buildings at Fort Baker.

SAN FRANCISCO—Following contractors and others have procured plans from Constructing Quartermaster, Fort Mason, for extending sewers, water mains, roads and sidewalks and electric pole line for eleven double Non-Commissioned Officers' Quarters at Fort Winfield Scott, bids for which will be opened May 16 at 11 A. M.:

James Currie, 1100 Peninsula Ave., Burlingame.
A. G. Raisch, 46 Kearny Street.
P. L. Burr, 320 Market Street.
Eaton & Smith, 715 Ocean Ave.
H. S. Tittle, 85 Columbia Square.
Butte Electric & Equip Co., 2014 Folsom Street.
Lynn & Heffernan, 114 Ashton Ave.
F. W. Snook, 595 Clay Street.
City Const. Co., 108 Ray Bldg., Oakland.
G. M. Gest, 2423 Magnolia St., Oakland.

T. R. Smith, 1483 Palm Ave.
O'Mara & Stewart, 218 Clara St.
Skelly & Kohlar, 1342 9th Ave.
Scott Co., 243 Minna St.
A. Ramazzotti, 1473 Vallejo St.
N. C. Nicklussen Electric Co., 517 Downey Street.
E. J. Treacy, 309 Call Bldg.
Oakland Sewer Const. Co., 9915 Walnut St., Oakland.
E. Walters, 34 Alvarado St.
J. S. Heilmann, 2703 21st St.

Additional Prospective Bidders.
HDQTRS. BLDG. Cost, \$40,000
SAN RAFAEL, Marin Co., Cal. Hamilton Field.

Concrete and hollow tile headquarters building (177 ft. long, 2-story center tile roof, Spanish Mission style.)

Owner—United States Government.
Plans by Constructing Quartermaster, Hamilton Field.

Following are additional prospective bidders. Bids open May 15:

R. W. Littlefield, 337 17th St., Oakland.
Reed & Reed, Hearst Bldg., San Francisco.
Alfred W. Parker, Oakland.
Morley Const. Co., 1643 Bellview, Kansas City, Mo.
Reilly & Grace, 703 Market St., San Francisco.

Barrett & Hilp, 918 Harrison St., San Francisco.

Russell & Erwin, New Britain, Conn.
Palace Hardware Co., 581 Market St., San Francisco.

Gayle & Towney, Stanford, Conn.
George Petersen, 1841 Bancroft, San Leandro.

E. H. Mellencamp, 648 Beacon St., Oakland.

Schuler & McDonald, 1723 Webster St., Oakland.

George J. Maurer, 50 York Drive, Oakland.

W. G. Thompson, 331 Church St., San Francisco.

Mangrum - Holbrook Co., 1235 Mission St., San Francisco.

Soule Steel Co., 1750 Army St., San Francisco.

Pacific Coast Steel Corp., 20th and Illinois Sts., San Francisco.

M. G. McGowan, 74 New Montgomery St., San Francisco.

T. J. Strand, 471 Colon Ave., San Francisco.

Butte Electric Engr. Co., 2014 Folsom St., San Francisco.

Asbestos Quantity Bureau, 216 Pine St., San Francisco.

Wm. Spivock, Hobart Bldg., San Francisco.

N. C. Nicklussen Electric Co., 517 Downey St., San Francisco.

G. H. Armstrong, 2890 Howard St., San Francisco.

Fire Protection Products Co., 1101 16th St., San Francisco.

Chas. Nelson Co., 230 California St., San Francisco.

Plans and specifications are on file in the office of Daily Pacific Builder and may be inspected by those interested.

WASHINGTON, D. C.—Tucker McClure, Ancon, Canal Zone, at \$124,480 submitted low bid for item 1 and E. E. Black, Honolulu, T. H., at \$119,320 submitted low bid for item 1, to Bureau of Yards and Docks, Navy Department, Washington, D. C., for Facilities Building at the Navy Yard, Pearl Harbor, T. H. Specification No. 7074. Two low bids follow:
Tucker McClure, Ancon, Canal Zone(1) \$124,480
.....(2) 122,980

E. E. Black, Honolulu, T. H.
.....(1) \$133,220
.....(2) 119,320

Complete list of bids will be published shortly.

SAN FRANCISCO—Alta Roofing Co., 976 Indiana St., at \$227 submitted low bid to Public Works Officer, 12th Naval District, for repairs and replacements to the roofing on Building No. 74 at the U. S. Naval Receiving Ship Station, Yerba Buena Island, San Francisco. Specification No. 7034. Following bids received:

Alta Roofing Co.....\$227
Malott & Peterson.....229
J. W. Bender Roofing & Pav. Co. 259
United Roofing Co.....280
Bids held under advisement.

Additional Sub-Contracts Awarded.
HOSPITAL BUILDINGS

Contract Price, \$898,810
SAN FRANCISCO. Fort Miley.

Six-story reinforced concrete hospital (300 beds) 3-story concrete administration bldg., nurses' home, garage, storehouse, laundry, etc. (prepared roof).

Owner—United States Government.
Plans by U. S. Veterans' Administration, Veterans' Hospital, Palo Alto Contractor—Herbert M. Baruch Corp., 625 S Olive St., Los Angeles.

Cast Stone—Western Artificial Stone Co., 666 Brannan St.

Sound Deadening—Plant Rubber and Asbestos Co., 537 rBannan St.

Metal Covered Doors and Frames—California Fireproof Door Co., Los Angeles.

Cut Stone—Rocklin Granite Co., Rocklin, Calif.

Metal Lath—Los Angeles Lime Co., Los Angeles.

Scales—Fairbanks, Morse Co., Spear and Harrison Streets.

Metal Weatherstrip—Bay Weatherstrip Co.

Other awards previously reported.

8—CLUB BUILDINGS

Planned.
IMPROVEMENTS Cost, \$—
HEALDSBURG, Sonoma Co., Calif.
Move and remodel clubhouse, new tennis courts, etc.
Owner—Women's Improvement Club.
Architect—Not Given.

Plans Being Completed.
LODGE Cost, \$—
HOLLISTER, San Benito Co., Calif.
SW Sally and 7th Sts.
Lodge bldg. (kitchen, banquet room and retiring rooms).

Owner—The Union Benefica de Hollister.
Plans by E. C. Griffin, care Frank Sparling, 720 Powell St., Hollister.
Agent—E. E. Holbrook Co., Hollister.
Bids will be asked shortly.

Bids Opened.
MEMORIAL HALL Coast, \$16,000
RED BLUFF, Tehama Co., Cal.
Remodel school for Veterans Memorial (brick construction, 60 by 80 feet) stucco exterior, maple flooring, hot air heating system, composition roof.

Owner—County of Tehama.
Architect—Dragon & Schmidts, Mercantile Bank Bldg., Berkeley.
Low Bidder—A. Frederick Anderson, 1093 Longridge Road, Oakland.

Following is a complete list of bids:
General Work
A. F. Anderson, Oakland.....\$13,467
Liston Ehorn, Red Bluff..... 14,880
C. M. Norgrove, Berkeley..... 14,975
T. B. Goodwin, San Francisco.. 15,340
Rolla Arbuckle, Anderson..... 15,640
S. O. McDonald & Son, Oakland 16,500
N. H. Sjoberg, San Francisco... 16,842
J. P. Brennan, Redding..... 18,400
F. H. Nielsen..... 19,840

Plumbing and Heating
Jack Allen, 656 Main St., Red Bluff\$2759
Woodland Plumbing & Supply Co., Woodland 2897
Electric
Cox Electric Co., 609 Walnut St., Red Bluff.....\$1690
Thackery's Elec. Shop, Red Bluff 1782
Scott-Buttner Co., Oakland..... 1869
Bids held under advisement until May 8.

Contract Awarded.
CLUBHOUSE Cost, \$—
LOMPOC, Santa Barbara Co., Cal. East Ocean Avenue.
Wood frame and stucco clubhouse (auditorium, kitchen and dressing rooms).
Owner—Alpha Club (Mrs. Chas. L. Poulsen, Chairman).
Architect—Not Given.
Contractor—E. A. Peterson, Lompoc.

9—HOSPITALS

Plans Completed.
ADDITION Cost, \$—
JUNEAU, Alaska.
Three-story reinforced concrete addition to hospital (78x40) X-ray laboratory, surgery rooms, ultra-violet ray laboratory, etc.
Owner—Sisters of St. Anns, Juneau.
Architect—F. A. Naramore and C. J. Brady, associated, Central Bldg., Seattle.

ELDRIDGE, Sonoma Co., Calif.—Standard Fence Co., 1940 San Bruno Ave., San Francisco, at \$27,72 awarded contract by State Purchasing Department, Sacramento, for wire window guards at the State Hospital at Eldridge.

AGNEW, Santa Clara Co., Calif.—Standard Fence Co., 1940 San Bruno Ave., San Francisco, at \$156 awarded contract by State Purchasing Department, Sacramento, for wire window guards at the Agnew State Hospital.

PHOENIX, Ariz.—Until Friday, May 12, bids will be received by the Superintendent, Phoenix Indian Sanatorium, Phoenix, for one heavy duty gas range, consisting of two units with spreader plate between them, each unit to be approx. 30½ inches long, 27½ inches deep by 33½ inches high.

SAN FRANCISCO—Venor Co., 36 Sacramento St., submitted low bid to Regents of the University of California for floor coverings in the Medical

Building, Third and Parnassus Aves., San Francisco. Following bids received:

(1) Linoleum;
(2) Linoleum over felt;
(3) Mastic tile.
Venor Company (1) \$6740
..... (2) 6527
..... (3) 7190
D. N. & E. Walter (1) \$6796
..... (2) 769;
Van Fleet Freear Co..... (1) \$7142
..... (2) 7247
..... (3) 6087
J. H. Higgins Lumber Co..... (1) \$7547
..... (2) 7908
*Western Asbestos Magnesla Co.
..... (3) \$6064 to \$8272

April 28, 1933

Preparing Plans.
ALTERATIONS Cost, \$—
SAN FRANCISCO. Potrero Ave. and Twenty-second St.
Certain alterations in the San Francisco Hospital.
Owner—City and County of San Francisco.
Plans by the Bureau of Architecture, City Hall.

SAN FRANCISCO—W. F. McCrea Co., 731 E 8th St., Oakland, submitted low bid to the Regents of the University of California for window covers for the Medical Bldg., Third and Parnassus Avenues, San Francisco. The following bids received:
(1) shades and blinds (comb. bid);
(2) shades;
(3) blinds.

W. F. McCrea, Oakland....(1) \$2,518.39
.....(2) 832.39
.....(3) 1,786.00
D. N. & E. Walter, S. F....(1) \$2,554.20
.....(2) 819.55
.....(3) 1,734.55
American Seat. Co., S. F....(1) \$2,572.00
.....(2) 974.00
.....(3) 1,583.50
A. J. Ruhlman, S. F.....(1) \$3,064.31
.....(2) 806.02
.....(3) 2,258.29
E. C. Dehn & Co., S. F....(3) \$1,849.00
Western Venetian Blind Co., San Francisco(3) \$2,897.00
Bids held under advisement.

10—HOTELS

Planned.
REBUILD Cost, \$—
KEDDIE, Plumas Co., Cal.
Rebuild inn recently destroyed by fire (hotel, restaurant and store).
Owner—Joseph Gerrick & Co., et al, 74 New Montgomery Street, San Francisco.
Architect—Not Selected.

Ventilating Bids Being Taken.
IMPROVE HOTEL Cost, \$30,000
STOCKTON, San Joaquin Co., Cal. E Weber Street.

Improvements to hotel (re-decorate entire building, new cooling system, all 30 new shower baths).
Owner—McDonough Estate, % Baldwin & Howell, 318 Kearny St., San Francisco.

Plans by Owner.
Ventilating bids are being received by McDonough at 318 Kearny Street. Date of opening not yet set. Bids on other portions of the work will be taken early in June.

11—ICE AND COLD STORAGE PLANTS

Sph-Contracts Awarded.
EXTENSION Cost, \$8097
SAN FRANCISCO. Third and Berry Streets.
Extension to State refrigeration terminal (Unit 3) extend insulation and refrigeration machinery in concrete building (approx. 27,000 sq. ft. of floor space).

Owner — State of California (Harbor Commission).
Engineer — Frank G. White, Ferry Bldg., San Francisco.
Contractor—Fred J. Early Jr., 367 Pine St., San Francisco.
Reinforcing Steel—Gunn Carle Co., 20 Potrero Ave., San Francisco.
Steel Rolling Doors—O. P. Shelly, Call Bldg., San Francisco.
Roofing—J. W. Bender Roofing and Paving Co., 18th and Bryant Sts.
Plumbing—George Rehn, 1919 Mission Ct., San Francisco.
Brick—A. J. Tole, 124 Rice St., San Francisco.
Painting—John Provoo, 3024 Webster St., San Francisco.
Plastering—B. Damico, 3024 Webster St., San Francisco.
As previously reported, machinery awarded to Pelton Water Wheel Co., 2929 19th St., at \$24,806.

12—POWER PLANTS

SEATTLE, Wash.—Until May 10, 1933 A. M., bids will be received by G. W. Roberge, Secretary, Board of Public Works, Room 511, County-City Bldg., Seattle, to construct:

Power house and tail race at the Diablo Power site;
Transmission line between Diablo Power Plant and Gorge Power Plant;
Assemble, erect and adjust power house apparatus previously purchased for Diablo Power Plant;
Purchase and install additional apparatus and equipment at the Diablo Power Plant.

Certified check 5% payable to City Comptroller required with bid. Specifications on file in above office and may be examined by those interested.
Bidders must agree as part of proposal, to purchase at par and accrued interest Municipal Light and Power bonds for \$2,354,000. Bidders shall state rate of interest not to exceed 6% per annum. Deposit of \$25 required for plans and specifications; check payable to H. L. Collier, city treasurer.

13—PUBLIC BUILDINGS FIRE HOUSES & JAILS

Plans Being Prepared.
LIBRARY Cost, \$75,000
EVERETT, Washington, SW Hoyt and Everett Avenues.
Two-story library (concrete or mill faced with brick).
Owner—City of Seattle (Mrs. D. B. McIlravy, President of Library Trustees).
Architect—Eebb & Gould, Hoge Bldg., Seattle, Wash.

FRESNO, Cal.—Until Friday, May 26, bids will be received by the Fresno County Supervisors for painting the Fresno County Courthouse.

Bids Wanted—To Close May 8, 8 P. M.
FIRE HOUSE Cost, \$—
HAYWARD, Alameda Co., Cal. Redwood Road.
One-story frame fire house.
Owner—Redwood County Fire Protection District.
Architect—Not Given.

Plans and specifications available from Marshall A. Ewing, Clerk of the Board of Commissioners of the Redwood County Fire Protection District, Route 1, Box 1512, Redwood Canyon, Hayward, upon deposit of \$5.00.

Additional Prospective Bidders.
CITY HALL Cost, \$5000
CLOVERDALE, Sonoma Co., Calif.
One-story reinforced concrete city hall (40x46) composition and tile roof, hot water heating system, pine floors, etc. (to house chief

of police, justice court, jail with two cells, council chambers and courtroom, etc.) space for 2 fire trucks.

Owner—City of Cloverdale.
Architect—William Herbert, Rosenberg Bldg., Santa Rosa.

Following are additional contractors who have procured plans. Bids open May 9:

- Fred. Howe, Santa Rosa.
- H. H. Larsen, 64 South Park, San Francisco.
- J. E. Bentley, Cloverdale.
- W. F. Bohn, Santa Rosa.
- D. Downie, Sebastopol.
- Thomas Doyle, 1527 17th Ave., San Francisco.

JAIL Cost, \$490,090
SNEATH RANCH, San Mateo Co.
Plumbing, Mechanical and Electric work for 7-story men's jail building and 2-story women's jail bldg. (Class B reinforced concrete construction, tar and gravel roof, concrete floors, mastic finish in cell block, steel cells, steel sash, steam heat, ventilating system, laundry, kitchen, sewage disposal plant farm group).

Owner—City and County of San Francisco.
Architect—Albert F. Roller, Crocker First National Bank Building and Dodge Riedy, Pacific Bldg., San Francisco.

Low Bidder—Alta Electric & Mechanical Co., 467 O'Farrell Street.
Following is a complete list of bids:

Mechanical and Plumbing
(1) deduct if certain stack and breeching be constructed of steel plates in place of wrought iron.
(2) deduct if heating system for green house be omitted.
(3) deduct if kitchen flue is omitted.

(4) deduct if certain room thermostats and one compressor motor and starter are omitted.

(5) add or deduct for vitrified tile pipe in place of C. I. for all rain water and sewer mains.

(6) add or deduct for installing galvanized wrought iron pipe in place of brass or copper for inside cold water lines.

(7) add or deduct for BB "Noverflow" toilet bowls in place of those specified.

Alta Electric & Mechanical Co.	\$137,940
.....(1)	1,272
.....(2)	2,465
.....(3)	290
.....(4)	974
.....(5)	400
.....(6)	500
.....(7)	4,000

Anderson & Rowe	\$139,650
.....(1)	1,683
.....(2)	2,439
.....(3)	308
.....(4)	839
.....(5)	2,256
.....(6)	2,070
.....(7)	3,335

James A. Nelson, Inc.	\$140,770
.....(1)	960
.....(2)	2,780
.....(3)	327
.....(4)	1,027
.....(5)	2,256
.....(6)	2,070
.....(7)	3,368

Herman Lawson	\$143,500
.....(1)	600
.....(2)	2,200
.....(3)	325
.....(4)	1,000
.....(5)	2,200
.....(6)	1,700
.....(7)	3,600

Mechanical Contracting Co.	\$143,880
.....(1)	832
.....(2)	2,400
.....(3)	290
.....(4)	1,050

.....(5)	2,308
.....(6)	3,326
.....(7)	4,053
F. W. Snook	\$146,984
.....(1)	1,339
.....(2)	2,300
.....(3)	350
.....(4)	953
.....(5)	2,000
.....(6)	2,750
.....(7)	4,300
Lohman Brothers	\$148,000
.....(1)	1,600
.....(2)	2,620
.....(3)	310
.....(4)	1,050
.....(5)	3,060
.....(6)	4,280
.....(7)	3,560
Scott Company	\$149,817
.....(1)	1,100
.....(2)	2,920
.....(3)	397
.....(4)	1,028
.....(5)	2,350
.....(6)	2,840
.....(7)	3,269

Electrical Work

Alta Elec. & Mechanical Co.	\$57,690
Globe Electric Co.	60,443
S. M. Radelfinger	61,000
Victor Lemoge	68,777
W. B. Baker, Inc.	73,850

Bids held under advisement.

Bids Opened.
ALTERATIONS Cost, \$15,000
SAN FRANCISCO, Municipal Auditorium.

Remodel 3rd and 4th floors of the Municipal Auditorium (house offices of the Board of Education).

Owner—City and County of San Francisco.

Plans by Bureau of Architecture (Charles Sawyer, Architect) City Hall.

Low Bidder—O. Monson, 475 Sixth St., San Francisco.

Following is a complete list of bids:

O. Monson	\$12,897
J. Harold Johnson	12,979
H. L. Petersen	13,163
A. H. Vogt	13,869
MacDonald & Kahn	13,979
Valentine Franz	13,981
F. C. Amoroso	14,215
H. H. Larsen	14,473
Thomas Jones	14,479
Building Repair Dept. D.P.W.	14,598
William Spiveck	14,965
Jacks & Irvine	15,000
Reilly & Grace	15,265
A. P. Brady	15,673
Larsen & Larsen	15,680

Bids held under advisement.

14—RESIDENCES

Contract Awarded.
RESIDENCE Cost, \$7000
PIEDMONT, Alameda Co., Cal. No. 355 Hillside Avenue.

Two-story and basement frame and stucco residence (6 rooms).

Owner—D. McLaughlin, 565 Kinmore Ave., Oakland.
Architect—Not Given.

Contractor—Irwin H. Relmars, 565 Kenmore Ave., Oakland.

Plans Being Figured.
RESIDENCE Cost, \$10,000
PIEDMONT, Alameda Co., Cal. St. James Wood.

Two-story and basement frame and stucco residence (9 rooms and 3 baths); hot air heating system, slate roof, steel sash, hardwood floors, tiled baths, etc.

Owner—Withheld.
Architect—W. E. Schirmer, Financial Center Bldg., Oakland.

Contract Awarded.
RESIDENCE Cost, \$—
LIVERMORE, Alameda Co., Calif. L Street.

One-story frame and stucco residence six rooms).

Owner—Dr. Geo. Hector, Livermore.
Architect—Not Given.

Contractor—Stahl & Andersen, Livermore.

Lumber and Mill Work—Livermore Lumber Co., Livermore.

Contract Awarded.
RESIDENCE Cost, \$7000
REDWOOD CITY, San Mateo Co., Cal. Hooper Property.

One-story and basement frame and stucco residence.

Owner—Richard tum Suden, et al, 625 Market St., San Francisco.
Architect—Not Given.

Contractor—F. J. Storey, et al, 307 Hillview Ave., Redwood City.

Preparing Working Drawings.
RESIDENCE Cost, \$8000
SANTA ROSA, Sonoma Co., Cal.

Two-story and basement frame and stucco residence (7 rooms and 2 baths) shingle roof, hot air heating system, steel sash, hardwood floors, etc.

Owner—George Garrett, Santa Rosa.
Architect—Russell Guerne DeLappe, 374 17th St., Oakland.

Bids will be asked shortly.

Contract Awarded.
ADDITION Cost, \$5300
PALO ALTO, Santa Clara Co., Cal. No. 1729 Emerson Street.

Frame addition to residence.
Owner—Douglas Clark, 317 Tennyson St., Palo Alto.

Architect—Not Given.
Contractor—George B. Moore, 531 Stanford St., Palo Alto.

Plans Being Prepared.
FARM HOUSES Cost, \$—
COTTONWOOD, Tehama Co., Cal.

Group of frame farm buildings (superintendent's residence, alterations and additions to owner's residence equipment shed, etc.)

Owner—Rancho Rio Alto, Cottonwood
Architect—Albert Schroeffer, 681 Market St., San Francisco.

Plans will be completed in 1 week and work will be done by day's labor by owner.

Contract Awarded.
RESIDENCES Cost, \$5250 each
VALLEJO, Solano Co., Cal. Fleming Tract.

Two one-story and basement frame and stucco residences (six rooms each) tile and composition roof, gas heat, hardwood floors, tiled baths, etc.

Owner—Lt. Commander J. G. McPherson.

Plans by Contractor.
Contractor—Mutual Home Builders' Assn., 831 Sonoma St., Vallejo.

Sub-Bids Being Taken.
RESIDENCE Cost, \$4000
SAN FRANCISCO, S 15th Street 115 W Beaver Street.

One-story and basement frame and stucco residence.

Owner and Builder—J. T. Quigley, 450 36th Avenue.
Architect—Chas. Strothoff, 2274 15th Street.

Contract Awarded.
RESIDENCE Cost, \$7500
OAKLAND, Alameda Co., Cal. Rockridge District.

One-story frame and brick veneer residence (7 rooms, 2 baths) hot air heating system, hardwood floors, tile roof, etc.

Owner—Mr. Hauerbach.
Architect—E. L. Snyder, 2101 Addison St., Berkeley.

Contractor—F. W. Confer, 5730 Keith St., Oakland.

Sub-Contracts Awarded.
RESIDENCE Cost, \$7500
SACRAMENTO, Sacramento Co., Cal.
 Lot 341 W & K Tract.
 Two-story frame and stucco residence
 Owner—A. G. Kassiss, 2800 Y Street,
 Sacramento.
 Architect—Not Given.
 Contractor—John C. Shreek, 2536 27th
 St., Sacramento.
Excavation—I. J. Renatti, 3277 B St.,
 Sacramento.
Concrete—Carl P. Smith, 2417 26th St.,
 Sacramento.
Plastering—J. E. Falltrick, 3648 19th
 Ave., Sacramento.
Lumber and Mill Work—Brunette and
 Sons, 11th and C Sts., Sacramento
Plumbing—F. A. McIntyre, 2922 35th
 St., Sacramento.
**Heating, Ventilating and Sheet Metal
 Work**—McLaughlin Sheet Metal
 Works, 1914 I St., Sacramento.
Brick Work—Geo. Townsend, 3994 4th
 Ave., Sacramento.
Terra Cotta—Cannon & Co., North
 Sacramento.
Tile Work—Fischer Tile & Marble Co.
 1219 J St., Sacramento.
Roofing—Bush Roofing Co., 1912 K St.,
 Sacramento.
Steel Sash and Roller Screens—Geo.
 C. Smith, 1305 Jay St., Sacramento
Revolving Cooler—R. H. Dampier, Co.,
 San Jose.
Electric—C. S. Donley, 1019 J Street,
 Sacramento.
Ornamental and Miscellaneous Iron—
 Alling Iron Works, 2415 5th St.,
 Sacramento.

Sub-Bids Wanted.
RESIDENCE Cost, \$6500
BERKELEY, Alameda Co., Cal. North
 Cragmont District.
 Two-story frame and stucco residence
 (6 rooms) tile roof, hot air heat-
 ing system, hardwood floors, tiled
 baths, electric refrigeration, etc.
 Owner—George Dallas.
 Architect—E. L. Snyder, 2102 Addison
 St., Berkeley.
 Contractor—W. A. Netherby, 3853 Ly-
 man Road, Oakland.
 Sub-bids are wanted on steel sash,
 plastering, brick work, sheet metal,
 inside trim, doors, etc., floors, tile
 floors, finish cement, sewer, painting,
 hardware, etc.

Plans Completed.
PENT HOUSE Cost, \$10,000
SAN FRANCISCO, Turk and Mason
 Streets.
 Class A concrete and steel pent house
 (6 rooms, 1 bath); tile roof, steam
 heating system from main plant,
 extend elevator, hardwood floors,
 etc.
 Owner—Arnold Haase, Hotel Oxford,
 Turk and Mason Sts., San Fran-
 cisco.
 Architect—Grimes & Schoening, Bal-
 ovich Bldg., Third Ave., San
 Mateo.
 Engineer—W. Adrian, 417 Market St.,
 San Francisco.

Low Bidder.
RESIDENCE Cost, \$7500
OAKLAND, Alameda Co., Cal. Rock-
 ridge District.
 One-story frame and brick veneer res-
 idence (7 rooms, 2 baths) hot air
 heating system, hardwood floors,
 tile roof, etc.
 Owner—Mr. Hauerbach.
 Architect—E. L. Snyder, 2101 Addi-
 son St., Berkeley.
 Low Bidder—F. W. Confer, 5730
 Keith St., Oakland.

Preparing Preliminary Plans.
RESIDENCE Cost, \$10,000
HILLSBOROUGH, San Mateo Co., Cal
 Two-story frame residence (11 rooms,
 4 baths) Colonial type.
 Owner—Withheld.
 Architect—Willis Polk Co. (Angus Mc-

Sweeney, architect) 277 Pine St.,
 San Francisco.

POINT LOBOS, Cal.—M. J. Mur-
 phy, Carmel, submitted low bid to the
 State Department of Public Works,
 Division of Architecture, at \$3395, for
 construction of a caretaker's lodge
 at Point Lobos.

Contract Awarded.
RESIDENCE Cost, \$20,000
MONTEREY, Monterey Co., Cal. 17
 Mile Drive.
 One and one-half-story frame and
 stucco residence (10 rooms and 4
 baths); tile roof, gas heating sys-
 tem, hardwood floors, tiled baths,
 etc. (Spanish type).
 Owner—Withheld.
 Plans by Ernest W. Urch.
 Contractor—Ernest W. Urch, 1924
 50th Ave., Oakland.

Contract Awarded.
RESIDENCE Cost, \$10,000
OAKLAND, Alameda Co., Cal. Oak-
 more Highlands.
 Two-story frame and stucco residence
 (9 rooms and 3 baths) Spanish type,
 tile roof, gas heating system,
 hardwood floors, tiles baths, etc.
 Owner—Mrs. Leit.
 Architect—Not Given.
 Contractor—Ernest W. Urch, 1924 50th
 Ave., Oakland.
 Construction will start shortly.

Contract Awarded.
RESIDENCES Cont. Price, \$4,950
MILL VALLEY, Marin Co., Cal. Bly-
 thedale Terrace.
 Two one-story and basement frame
 and stucco residences (five rooms
 each) tile roof, gas heating sys-
 tem, colored tile baths and kitch-
 ens, colored stucco walls, canvas
 walls and ceilings, etc.
 Owner—F. C. Sheffauer, Eldridge St.,
 Mill Valley.
 Architect—Walter Falch, Heart Bldg.,
 San Francisco.
 Contractor—Melvine H. Klyce, 25 Eu-
 gene St., Mill Valley.

Plans Being Figured.
RESIDENCE Cost, \$—
HAYWARD, Alameda Co., Cal. Niles
 Road.
 One and one-half-story frame and
 stucco residence (six rooms) tile
 roof, gas heating system, hard-
 wood floors, tiled bath, electric
 refrigeration, etc.
 Owner—Withheld
 Architect—Geo. P. Simonds, 261 Main
 St., Hayward.
 Bids are being taken from a selected
 list of Hayward contractors.

Plans Being Prepared.
RESIDENCE Cost, \$—
SAN FRANCISCO, Forest Hill.
 One and three-story frame and stucco
 residence (6 rooms).
 Owner—Withheld.
 Architect—Morrow & Morrow, de
 Young Bldg., San Francisco.
 Bids will be taken in about two
 weeks.

Contract Awarded.
RESIDENCE Cost, \$4500
SAN FRANCISCO, Hernandez Ave.
 near Laguna Honda Blvd.
 One-story and basement frame and
 stucco residence (5 rooms) tile
 and composition roof, gas heating
 system, hardwood floors and trim,
 stucco interior walls, etc.
 Owner—Wm. F. Lange.
 Architect—George McCrea, Hearst
 Bldg., San Francisco.
 Contractor—Moore & Roberts, 693
 Mission St., San Francisco.

15—SCHOOLS

Preparing Working Drawings.
HIGH SCHOOL Cost, \$25,000
ALBANY, Alameda Co., Cal. Ra-
 mona and Garfield Streets.
 Two-story and basement reinforced
 concrete high school (8 classrooms
 1st unit); to be known as Herbert
 Hoover High School.
 Owner—City of Albany.
 Architect—P. L. Dragon and C. R.
 Schmidts, 3016 Telegraph Ave.,
 Berkeley.
 Bids will be asked in about 28 days

Planned.
REPAIRS Cost, \$2500
ALBANY, Alameda Co., Cal. Marin
 Avenue.
 Repairs to grammar school.
 Owner—City of Albany.
 Architect—P. L. Dragon and C. R.
 Schmidts, 3016 Telegraph Ave.
 Berkeley.
 State Department has been asked to
 make an examination as to what re-
 pairs should be done at this time.

SAN FRANCISCO—Plans and spec-
 ifications are being prepared by the
 Bureau of Architecture, City Hall,
 for the installation of new floors in
 the Redding School, High School of
 Commerce, Washington Irving School
 and the reconstruction of the audi-
 torium of the Glen Park School. Bids
 will be asked some time in June.

CROCKETT, Contra Costa Co., Cal.
 —Thompson Mfg. Co., 2251 E 7th St.,
 Los Angeles, awarded contract by
 John Swett Union High School Dis-
 trict to furnish heads and valves thru
 the Walworth California Company in
 connection with the installation of a
 lawn sprinkling system for the John
 Swett Union High School at Crockett.
 Work will involve approximately 90
 sprnkler heads, 500 feet of 1/2-in. first
 quality wrought iron galvanized pipe,
 200 ft. 3/4-in. pipe and smaller amounts
 of 1-in., 1- and 1-1/2-in., and 2-in. pipe,
 and extensive necessary fittings.

Low Bidders.
SCHOOL Cost, \$135,000
FAIRBANKS, Alaska.
 Three-story reinforced concrete school
 (75x150 feet) kindergarten rooms,
 manual training dept., classrooms,
 gymnasium and auditorium.
 Owner—Fairbanks School District.
 Architect—Tourtellotte and Hummel,
 Postal Bldg., Portland.
 Low Bidder—Warrack Const. Co., Mc-
 Dowell Bldg., Seattle.
 Following are three low bidders:
 Warrack Const. Co., Seattle...\$126,000
 Jonson Bros., Inc., Seattle... 133,000
 Western Const. Co., Seattle... 143,000
 Hastorf, Inc., Portland, submitted
 low bid on mechanical work at \$35,897.
 Bids held under advisement.

May 2, 1933
 Commissioned To Prepare Plans.
SCHOOL Cost, \$25,000
SEATTLE, Washington.
 New school building.
 Owner—Pacific and Algona School
 Districts.
 Architect—William Mallis, Lyon Bldg.,
 Seattle.

SAN FRANCISCO—Fire destroyed
 the Fremont School, located at Mc-
 Allister and Broderick Streets April
 27. Damage estimated at \$30,000.

OAKLAND, Cal.—Until May 9, 4
 P. M., bids will be received by John
 W. Edgemon, Secretary of the Board
 of Education, Room 104, Administra-
 tion Bldg., Oakland, for general sup-
 plies, electric energy and gas, fuel
 oil, coal, painting materials, petro-
 leum products, etc. Specifications
 available from above office.

Contract Awarded.
SCHOOL Cont. Price, \$35,973
LA GRANDE, Oregon.
 Reconstruct 2-story school (replastering, new floors of white maple, new stairs and corridor walls, new heating system, circulating air, electric clocks, plumbing, wiring, etc.)

Owner—School Dist. No. 1, La Grande
 Architect—C. B. Millerd, La Grande.
 Contractor—A. Ritchie, Baker, Oregon.
 Following bids received:

General Work
 A. Ritchie, Baker, Oregon.....\$35,973
 H. J. Settergren, Seattle..... 37,400
 A. F. Mowat, Seattle..... 38,938

Plumbing and Heating
 Fred Spaeth, La Grands, Ore.
 (plumbing).....\$1723
 (heating)..... 1537

Electric
 H. & S. Elec. Co., La Grande.....\$2003
 W. H. Grasel Co., Portland..... 2662

Blackboards
 Caton Printers, Caldwell, Idaho.....\$1257
 Northern School Supply Co.,
 Portland.....\$472
 W. H. Bohnenkarm Co., La Grande 481
 Sudweeks Co., Spokane..... 651

Time Clocks
 International Time Co., Spokane..\$1195
 H. & S. Elec. Co., La Grande..... 1335

Thermostatic Controls
 Johnson Service Co., Portland...\$1436

VALLEJO, Solano Co., Cal.—Heineman Scenic Studio, 333 Mason Street, San Francisco, at \$2,147.90 submitted low bid to Vallejo High School District for furnishing and installing stage equipment for the new Vallejo Junior High School. Following bids received:

Heineman Studio, S. F.....\$2,147.90
 B. F. Shearer, S. F..... 2,255.00
 Fred. Turner, S. F..... 2,393.00
 Levee's Dept., Store, Vallejo.... 2,640.54
 Theatrical Prod. Co., S. F..... 3,300.00
 Bids held under advisement until May 9.

SACRAMENTO, Sacramento Co., Cal.—White Bros, 5th and Brannan Sts., San Francisco, awarded contract by Sacramento Board of Education for furnishing and delivering 16,000 board feet of Japanese oak and Philippine mahogany wood suitable for the making of furniture, said wood to be F.A.S. grade and quality and dimensions in conformity with the specifications and general conditions shown (1106) 1st report April 5, 1933

SAN FRANCISCO—M. J. Lynch, 473 30th St., at \$2849 submitted low bid to Department of Public Works for yard work at the Horace Mann Junior High School, 23rd and Valencia Sts. Following bids received:

M. J. Lynch.....\$2849
 MacDonald & Kahn..... 2955
 Eaton & Smith..... 3150
 F. C. Amoroso & Sons..... 3193
 T. Cohn..... 3226
 O. Monson..... 3431
 Empire Constr. Co..... 3700
 Alfred H. Vogt..... 3723
 H. L. Petersen..... 3763
 H. H. Larsen..... 4173
 Fay Improvement Co..... 4335
 Bids held under advisement.

16—BANKS, STORES AND OFFICES

Contract Awarded.
STORE Cost, \$4000
SAN FRANCISCO. N Chestnut St. 72
 W Pierce St.

One-story frame store.
 Owner—A. Solomon, 516 21st Ave.,
 San Francisco.

Architect—F. Quandt, 2800 Filbert St.
 San Francisco.

Contractor—P. Leibmann, 3548 Broderick St., San Francisco.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$1500
OAKLAND, Alameda Co., Cal. NW
 Thirteenth and Washington Sts.
 Alterations to first floor of three-story
 building for store.
 Owner — Grayson's Inc., New York
 City, New York.

Plans by Owner.
 Contractor — F. A. Muller, Syndicate
 Bldg., Oakland.

Fixtures—Cowan Fixture Co., Los
 Angeles.

Plastering—Wm. Makin, 2141 Living-
 ston St., Oakland.

Lumber—E. K. Wood Lumber Co.,
 Frederick and King Sts., Oakland
Electric—Scott Buttner Co., 19 Grand
 Ave., Oakland.

Plumbing—Max Finzel, 2025 Hopkins
 St., Oakland.

Elevator Contract Awarded.
ALTERATIONS Cost, \$—
SAN FRANCISCO. 101 Post Street.

Alterations to four-story stores and
 lofts.

Owner—Samuel Lowe.
 Architect—Hyman & Appleton, 68 Post
 St., San Francisco.

Contractor—Jacks & Irvine, 74 New
 Montgomery St., San Francisco.

Elevator—Otis Elevator Co., 1 Beach
 St., San Francisco.

As previously reported, painting
 awarded to D. Zelinsky, 165 Grove St.
 tile wall units to Gladding, McBean
 & Co., 660 Market St.; heating and
 plumbing to J. H. Pinkerton, 927
 Howard St.; electric to Central Elec.
 Co., 179 Minna St.

Sub-Contracts Awarded.
ADDITION Cost, \$65,000
SAN FRANCISCO. Bush and Larkin
 Streets.

Two-story structural steel and rein-
 forced concrete addition to tele-
 phone building (Class A construc-
 tion).

Owner—Pacific Telephone & Telegraph
 Co., 140 New Montgomery Street.
 Plans by Engr. Dept. of Owner (E. V.
 Cobby, engineer).

Contractor—Dinwiddie Const. Co.,
 Crocker Building.

Granite—Victor Wickman, Rocklin,
 Calif.

Lathing and Plastering—Wm. Makin,
 2141 Livingston St., Oakland.

Sheet Metal—Guilfoyle Cornice Works,
 1234 Howard Street.

Roofing—Alta Roofing Co., 976 Indi-
 ana Street.

Windows—Fire Protection Prod. Co.,
 1101 16th Street.

Glass—W. P. Fuller Co., 301 Mission.

Rolling Shutters—O. P. Shelley, Call
 Building.

Painting—D. Zelinsky, 165 Grove St.

As previously reported, electric con-
 tract awarded to Radelfinger Bros.,
 544 Natoma St.; reinforcing steel to
 Truscon Steel Co., Call Bldg.; hard-
 ware to Palace Hardware Co., 581
 Market Street.

April 29, 1933
 Plans Being Completed—Contract
 Awarded.

ALTERATIONS Cost, \$50,000
SAN FRANCISCO. No. 867-871 Mar-
 ket Street.

Alterations to four-story and base-
 ment store (130,000 sq. ft. of floor
 space).

Owner—Lincoln Realty Co., Mills
 Bldg., San Francisco.

Lessee—J. C. Penney Co., 330 W. 34th
 St., New York City, N. Y.

Plans by Engineering Dept. of Lessee
 Contractor—J. B. Oswald, 433 Cali-
 fornia St., San Francisco.

Bids Opened.
ALTERATIONS Cost, \$70,000
SEATTLE, Wash. Second and Pike
 Streets.

Extensive alterations to Eltel Bldg.
 (work includes terra cotta trim,
 new elevators, entrance, terrazzo
 work, partition and office changes
 etc.)

new elevators, entrance, terrazzo
 work, partition and office changes
 etc.)
 Owner—Eitel Building, Seattle.
 Architect—C. W. Voorhees, Lloyd
 Bldg., Seattle.

General Work
 West Coast Const. Co., Lloyd
 Bldg., Seattle.....\$54,125

Johnson Brothers..... 54,800
 Western Const. Co..... 54,927
 J. W. Bailey Const. Co..... 54,927
 Walter Const. Co..... 57,100
 Neil McDonald..... 59,850
 Hedeon Const. Co..... 59,900
 Peder Gjarde..... 60,696
 Sylliaasen & Sando..... 61,495
 William Wills..... 61,700
 Pacific States Const. Co..... 63,996

Plumbing and Heating
 University Plbg. & Heating Co.,
 3939 University Way Seattle..\$5,622
 Hellenthal Plb. & Htg. Co..... 5,656
 Betts Plb. & Hgt. Co..... 5,964
 Rautman Plb. & Htg. Co..... 6,085
 Sullivan Brothers..... 6,456

Elevators
 Otis Elevator Co., 2200 4th St.,
 Seattle.....\$10,672
 Moline Elevator Co..... 11,019
 Westinghouse Elevator Co..... 11,260
 Bids held under advisement.

Wrecking Contract Awarded.
STORE Cost, \$100,000
PHOENIX, Arizona.

Two-story brick and concrete store
 (75x175 ft.) brick and terra cotta
 or Arizona tufa stone facing, com-
 position roofing, structural steel,
 cement, hardwood and terrazzo
 floors, plate glass, metal fire doors
 ornamental iron, gas heating, etc.

Owner—S. H. Kress Co., 114 5th Ave.,
 New York City.

Plans by Engr. Dept. of Owner.
 Contractor—C. S. Lambie, Amarillo,
 Texas.

Wrecking—H. B. Finnell Wrecking &
 Lumber Company.

Contract Awarded.
ALTERATIONS Cost, \$2000
SAN FRANCISCO. NW 8th Ave. and
 Fulton Street.

Alterations to market for restaurant.
 Owner—El Portal Cafe, premises.
 Plans by Mullen Mfg. Co.
 Contractor—Mullen Manufacturing Co.,
 60 Rausch St.

Bids Wanted
FIXTURES Cost, \$—
SAN FRANCISCO. No. 835 Market
 Street.

Interior store fixtures for department
 store.
 Owner—The Emporium, 835 Market
 St., San Francisco.

Plans by Engineering Dept. of Owner.
 Bids are being received by Mr. Lit-
 singer, at the Emporium.

Plans Being Completed.
BUILDING Cost, \$15,000
BERKELEY, Alameda Co., Cal. Dur-
 rant and Bowditch Streets.

Two-story and basement frame and
 stucco building (single and com-
 position roof, gas hot air heat-
 ing system, etc.) will contain
 reading room, apartment, com-
 mittee room, auditorium to seat
 approximately 200.

Owner—Christian Science Society, U.
 S. 2215 Union St., Berkeley.
 Architect—Henry H. Gutterson, 526
 Powell St., San Francisco.

Bids will be asked shortly.

Contract Awarded.
REMODEL Cost, \$2000
RICHMOND, Contra Costa Co., Cal.
 No. 1224 Macdonald Avenue.

Remodel first floor for stores (two
 stores).
 Owner—West Coast Life Insurance Co
 Architect—Douglas D. Stone, 41 Euca-
 lyptus St., Oakland.

Contractor—E. J. Freethy, 1301 Roose-
 velt Ave., Richmond.

Sub-Contracts Awarded.
PUBLIC MARKET Cost, \$1,400,000
PORTLAND, Oregon. Front Street.
 Four-story and mezzanine fireproof public market (616x140-ft.)
 Owner—Public Market Co., C. L. Wilson, general manager.
 Architect—Lawrence, Holford, Allyn and Bean, Portland.
 Contractor—Ross B. Hammond, Public Service Bldg., Portland.
 Will contain quarters, 50x200 ft. for cold storage rooms and quarters, approximately 100x400-ft. for dry storage. Provision will be made for approximately 320 stalls.
Plumbing and Heating—De Temple Plumbing and Heating Co., 325 Couch St., Portland.
Electric—NePage-McKenny, 54 N 9th St., Portland.
Excavation—Bidwell Company.
Lumber—Eastern & Western Lumber Co., N 21st St., Portland.
Reinforcing Steel—Soule Steel Co., 1241 Linnon Road, Portland.

Roofing Contract Awarded.
STORE Cost, \$22,000
OAKLAND, Alameda Co., Cal. Broadway N 19th Street.
 One-story and basement and mezzanine reinforced concrete store (30 by 100 feet).
 Owner—Twentieth & Broadway Realty Co., 1175 Market St., San Francisco.
 Architect—Albert Evers, 525 Market St., San Francisco.
 Contractor—Lindgren and Swinerton, Inc., 225 Bush St., San Francisco.
 Lessee—Kushins Shoe Company.
Roofing—General Roofing Co., 3985 Beach St., Oakland.
 Other awards previously reported.

Contract Awarded.
STORE, BANK, ETC. Cost, \$100,000
LOS ANGELES, Los Angeles Co., Cal. No. 116-140 S. San Pedro Street.
 Two-story and basement brick store bank and office building, 13x129 ft.; 7 stores; 20 offices and bank; steel sash, wood roof trusses, steel frame, cast stone trim, ornamental iron, cement, terrazzo, wood and linoleum floors, electric elevator, gas radiator, Venetian Linds, flagpole, marble wainscotings, etc.
 Owner—Nichi-Bei Investment Co., Inc.
 Architect—Not Given.
 Contractor—Yos Hirose, 2607 Gleason St., Los Angeles.
 Yokahama Specie Bank, Ltd., have leased the bank.

Prospective Bidders.
STORE Cost, \$—
OAKLAND, Alameda Co., Cal. No. 3300 Lakeshore Avenue.
 One-story brick store (50x70 ft.) concrete floors, tar and gravel roof, tile work, etc.; 3 stores.
 Owner—Eureka Properties Co., 3615 E-14th St., Oakland.
 Plans by J. W. Oliver, 3615 E-14th St., Oakland.
 Following will submit bids. Bids open May 6, 2 P. M.
 J. B. Petersen, 4021 Agua Vista Ave., Oakland.
 C. W. Leekins, 1652 Hopkins St., Oakland.
 C. G. Hildebrand, 2164 Hearst Ave., Berkeley.
 W. C. Constable, 2526 Myrtle St., Oakland.
 Alex Wieben, 870 Longridge Road, Oakland.
 John Peacock, 2512 Chester St., Alameda.

Contract Awarded.
ALTERATIONS Cost, \$2500
SACRAMENTO, Sacramento Co., Cal. No. 1010 Tenth Street.
 Alterations for restaurant and beer establishment (partitian work,

booths, bar, change front, etc.)
 Owner—Fred Gianelli, 1608 W St., Sacramento.
 Plans by Charles Vanina.
 Contractor—Chas. Vanina, 2022 M St., Sacramento.

18—WHARVES & DOCKS

Contracts Awarded.
EXTENSION, ETC. Cost, \$45,000
ALAMEDA, Alameda Co., Cal. Encinal Terminal.
 Repairs to present dock and 115 foot extension (timber construction, some creosoted piling, repair floors etc.)
 Owner—Encinal Terminals, Alameda. (H. E. Van Horn, President).
 Plans by Engineering Department of Owner.
Extension—Duncanson Harrelson Co., deYoung Bldg., San Francisco.
Repairs—A. W. Kitchen, 110 Market St., San Francisco.

Sub-bids Being Taken.
EXTENSION Cont. Price, \$16,190
SAN FRANCISCO.
 Extension of wharf shed for Dock No. 2 (150x92 ft.) steel frame, 5 rolling doors, copper beaming, monitor sash, copper gutters, outside walls of reinforced concrete.
 Owner—United States Government.
 Plans by Constructing Quartermaster, Fort Mason, San Francisco.
 Contractor—Leo Epp, 4745 Geary St., San Francisco.

WASHINGTON, D. C.—R. E. Woolley, Honolulu, T. H., at \$1,279,000 submitted low bid to Bureau of Yards & Docks, Navy Department, Washington, D. C., for constructing pier and two quays of reinforced concrete construction, supported on concrete cylinders on wood piles and on concrete piles and includes a steel sheet pile bulkhead, timber fender systems, track work, piping and electrical conduits at Pearl Harbor, T. H. Spec. No. 7224. Following are two low bidders with alternate figures:
 Ralph E. Woolley, Honolulu
 T. H.(1) \$1,279,000
(2) 171,000
(3) 65,500
(4) 972,000
 W. P. Thurston Co., Richmond, Va.(1) \$1,284,000
(2) 145,000
(3) 63,000
(4) 1,034,000
 Complete list of bids will be published shortly.

19—MISC. CONSTRUCTION

ALBROOK FIELD, Canal Zone.—Plans and specifications in connection with the construction of a gasoline fueling system for the Air Corps at Albrook Field, Canal Zone, are available for distribution to prospective bidders from the Office of the Constructing Quartermaster, Ft. Mason, San Francisco. Bids will be opened June 16, 11 A. M., by the Department Quartermaster, Panama Canal Department, Quarry Heights, Canal Zone. Deposit of \$10.00 required for plans.

PASADENA, Cal.—B. F. DeLanty, superintendent, Municipal Light and Power Department, preparing specifications for a refuse incinerator to be built on a site adjoining the generating plant on East Glenarm St.
 The plant will have a capacity of 100 tons combustible material daily. Plans for the project propose to utilize the plant to develop steam for the generating equipment. Estimates place the steam as sufficient to develop 35,000 kw. per day. The equipment will include two conveyors of the overlap steel apron type convey-

or, with electric motor, gear drive.
 The superintendent was authorized by the board of directors to prepare specifications for alternative methods of taking bids, viz., on the work as a whole and on segregated contracts.

Sub-Bids Being Taken.
MORTUARY Cost, \$60,000
OAKLAND, Alameda Co., Cal. 38th St. and Telegraph Ave.
 Two-story and basement wood frame and brick veneer mortuary (100x 160 ft.) steel sash, steam heating system, tile floors, organ, 30-car garage.
 Owner—Truman Undertaking Co., 2935 Telegraph Ave., Oakland.
 Architect—Elaine and Olson, 1755 Broadway, Oakland.
 Contractor—E. T. Leiter and Son, 811 37th St., Oakland.

FORT LYON, Col.—Henry T. Bechtold, La Junta, Col., at \$2900, with no guaranty, submitted low bid April 21 to Veterans' Bureau, Veterans' Administration Bldg., Washington, D. C. for deep pool for the Veterans' Administration Bldg., at Ft. Lyon, Col. Only other bid submitted by Sewell Well Co., St. Louis, at \$3000, with additional bid of \$5 for (1a).

Construction Under Way.
DOG TRACK Cost, \$150,000
BAYSHORE, San Mateo Co., Calif.
 Dog racing track.
 Owner—Bayshore Kennel Club (Thos. Keene, J. Foppiano, et al), Belmont.
 Plans by Thomas Keene, Belmont.
 Mgr. of Const.—Thomas Keene.
 Work will be done on day's work basis, sub-bids being taken by Mr. Keene.

SAN FRANCISCO.—Standard Asbestos Magnesia Co., 744 Folsom St., at \$66 awarded contract by Department of Public Works for cover and painting steam pipe, etc., at the Health Center, San Francisco.

SAN FRANCISCO.—Otis Elevator Co., 1 Beach St., at \$151 awarded the contract by Department of Public Works for repairs to elevator cables in the City Hall, involving six 1/2-in. 6-strand steel cables.

Contract Awarded.
SLAB Cost, \$5000
AVON, Contra Costa Co., Calif.
 Reinforced concrete slab for the new cracking plant.
 Owner—Associated Oil Co., 79 New Montgomery St., San Francisco.
 Plans by Engr. Dept. of Owner.
 Contractor—Villadsen Bros., 417 Market St., San Francisco.

Sub-Contracts Awarded.
CREMATORIUM, ETC. Cost, \$15,000
SAN JOSE, Santa Clara Co., Calif. Oak Hill Cemetery.
 One-story frame and stucco crematorium and chapel.
 Owner—Oak Hill Cemetery, Monterey Road, San Jose.
 Architect—F. H. Slocombe, 131 Monte Cresta Ave., Oakland.
 Contractor—Henry Bridges, 1398 Lincoln St., San Jose.
Mill Work—Hubbard and Carmichael, 384 W Santa Clara St., San Jose.
Lumber—Southern Lumber Co., 1402 S 1st St., San Jose.
Iron—Hellig Iron Works, 577 W Santa Clara St., San Jose.
Steel Sash—Michel and Pfeffer Iron Works, Harrison and 10th Sts., San Francisco.

PEARL HARBOR, T. H. — R. G. Whinery, 398 Loma Drive, Los Angeles, awarded contract by the Bureau of Yards and Docks, Washington, D. C., at \$10,217, for construction of a telephone cable line at Pearl Harbor, T. H.

Contract Awarded.
TOWER & PENT HOUSE Cost, \$11,000
BERKELEY, Alameda Co., Cal. Sixth and Carlton Streets.

Steel frame and galvanized iron pent house and steel soap blowing tower.

Owner — Colgate Palmolive Peet Co., Sixth and Carlton Sts., Berkeley. Plans by Engineering Dept. of Owner. Contractor—Berkeley Steel Construction Co., Second and Camelia Sts., Berkeley.

Bids Opened.
CAMP Cost, \$1500
TUOLUMNE, Tuolumne Co., Calif. (near Groveland).

One-story frame dining room, kitchen and store room; single roof.

Owner—City of Berkeley. Plans by S. P. Koch, Chief Building Inspector, Berkeley.

Low Bidder—Frank A. Stead, 2326 Edwards St., Berkeley.

Following bids received:
Frank A. Stead, Berkeley.....\$1749
J. R. Armstrong..... 1964
T. D. Courtright, Oakland..... 2000
S. O. MacDonald, Oakland..... 2040
C. M. Norgrove, Berkeley..... 2050
W. V. Bernard, Oakland..... 2181
L. Ubels, Ripon..... 2285
E. M. Sorensen, Berkeley..... 2330
Clinton-Stephenson Constr. Co. San Francisco 2962
Bids held under advisement.

PEARL HARBOR, T. H.—As previously reported, I. Nekomoto, 1769 S. King St., Honolulu, T. H., at \$7450 awarded contract by Bureau of Yards and Docks, Navy Department, for cleaning and painting the coaling plant trestle, two coal hoisting towers and two coal chutes at the 14th Naval District (Naval Fuel Depot), Pearl Harbor, T. H. Specification No. 7236. Following is complete list of bids:

A. Nekomoto, Honolulu.....\$ 7,450.00
K. Hamada, Honolulu..... 10,479.00
Crozier Bros., Honolulu..... 11,918.00
Pacific Bridge Painting Co., San Francisco 14,572.80
T. R. Hanff, Philadelphia, Pa. 16,682.00
Arenz-Warren Co., L. A. 17,840.00
Hawaiian Contracting Co., Honolulu 20,989.00
E. K. Sugihara, Honolulu..... 22,832.00
Ozaki & Sakai, Honolulu..... 24,948.20
L. J. Feary, Oahu..... 26,000.00
D. Zelinsky & Sons, S. F. 33,730.00

MARE ISLAND, Cal.—Eureka Elec. Radio Co., 3469 Mission St., San Francisco, at \$10,900 submitted low bid to Public Works Officer, Mare Island Navy Yard, for furnishing and installing a six projector antennae, four double antennae and connecting transmission lines, including poles, arms, supports, anchors, wires, insulators and special fittings at the Naval Radio Station, Mare Island; Spec. No. 7304. Following bids received:
Eureka Elec. Radio Co., S. F.....\$10,900
Alta Elec. & Mech. Co., S. F. 11,680
West Coast Elec. Works, S. F. 12,775
Severin Elec. Co., S. F. 12,800
H. S. Tittle, S. F. 15,400
City Imp. Co., Berkeley..... 17,770
Bids held under advisement.

ALAMEDA, Alameda Co., Calif.—Until May 18, 2 P. M., bids will be received by C. H. Sweetser, District Engineer, U. S. Bureau of Public Roads, 416 Market St., San Francisco, to construct portions of Units 2, 3, 4 and 8, Government Island construc-

tion, Government Island, Alameda, involving:

- (1) 1000 cu. yds. excavation for sewer outlet ditch;
 - (2) street lighting system complete (lump sum);
 - (3) bridge lighting system complete (lump sum);
 - (4) 1300 lin. ft. resurface railroad track;
 - (5) 5600 lin. ft. comb. curb and gutter;
 - (6) 263 lin. ft. curb only;
 - (7) 13,700 sq. ft. valley gutters;
 - (8) 11,300 sq. ft. sidewalks;
 - (9) 1500 sq. ft. reinf. conc. driveways
 - (10) 5 each catchbasins;
 - (11) 150 lin. ft. lay Govt. furnished 6-in. pipe;
 - (12) 350 cu. yds. sand-clay material;
 - (13) 300 cu. yds. loam;
 - (14) 1000 cu. yds. unclass. excav.;
 - (15) 300 cu. yds. addn. base rock;
 - (16) 139 tons liquid asph. road material;
 - (17) 1800 sq. yds. prepare base for surface;
 - (18) 100 cu. yds. crushed rock, level course;
 - (19) 1860 tons asph. treated crushed rock surface;
 - (20) 130 tons screenings, seal coat.
- Specifications obtainable from the above, \$10 deposit.

20—MISC. SUPPLIES AND MATERIALS

SAN RAFAEL, Marin Co., Calif.—Standard Fence Co., 1940 San Bruno Ave., San Francisco, at \$399.72 awarded contract by State Purchasing Department, Sacramento, for fencing for the Highway Department at San Rafael.

LOS ANGELES, Cal.—Concrete Engineering Co., 1450 Mirasol St., submitted low bid to county supervisors May 1 at \$7735 to furnish reinforcing steel for the Outlet tunnel, San Gabriel Dam No. 1. The quantity of steel amounts to 520,000 lbs., to be furnished f.o.b. district yard, Azusa. The items are:

- (1) 105,000 lbs. 1-in. square deformed;
- (2) 225,000 lbs. 1-in. round deformed;
- (3) 180,000 lbs. ½-in. do;
- (4) 10,000 lbs. ¾-in. do.

The bids follow:
Concrete Engineering Co.—All items at .0148¾¢ per lb., total \$7735.

Soule Steel Co.—All items at .015¢ per lb., total \$7800.

Blue Diamond Corp.—All items at .0153¢ per lb., total \$7956.

Pacific Coast Steel Corp.—All items at .01545¢ per lb., total \$8033.94.

Truscon Steel Co.—All items \$1.55 per 100 lbs., total \$8060.

LOS ANGELES, Cal.—Rio Grande Oil Co. awarded contract by A. J. Holm, City Purchasing Agent, April 27, to \$161,950 (estimated total), for furnishing gasoline under items (1), (2) and (3), Specifications No. 3041. The quantities include: (1) 50,000 gals. Ethyl gasoline within the city, (2) 800,000 gallons highly volatile high octane gasoline for delivery within the city, (3) 800,000 gals third structure gasoline, same delivery. All bids were rejected on item (4), which called for furnishing 100,000 gallons gasoline, service station delivery on credit cards.

NORTH HOLLYWOOD, Los Angeles Co., Cal.—Kratz & McClelland, 522 Bryant St., San Francisco, at \$227.67 each submitted low bid to the State Purchasing Agent to furnish f.o.b. North Hollywood seven 100-gallon asphalt kettles with pressure type kerosene burners and 15-ft. spray hoses, mounted on 2-wheeled pneumatic tired trailers. Complete bids follow:

Kratz & McClelland.....	\$227.67
Standard Metal Prod. Co.....	230.00
Air Oil Burner Co.....	238.00
Smith, Booth, Usher (add \$7.75 for insulated hose).....	238.00
Harron, Rickard, McCone (deduct \$7.70 for non-insulated hose).....	240.22
A. L. Young Mach. Co.....	242.50
Brown-Bevis.....	270.00
Concrete Mach. & Supply Co., Los Angeles.....	278.50
Dutwiler Mach. Co., L. A.....	310.00
Associated Equip. Co.....	312.50
Spears-Wells Mach. Co.....	334.00
Essex Machine Co.....	339.00

DENVER, Colo.—As previously reported, California Portland Cement Co., Riverside Cement Co., Monolith Portland Cement Co. and the Southwestern Portland Cement Co., bidding jointly, submitted low bid to U. S. Bureau of Reclamation, Denver, Apr. 24 at \$1.55 per barrel, delivery Crestmore, Victorville, Colton and Monolith, Calif., to furnish 400,000 barrels of Portland cement for use in the construction of the Hoover Dam. Other bids follow:

Union Portland Cement Co., Denver (bid on 50,000 bbls, only) f.o.b. Devils Slide and Salt Lake City, Utah, at \$1.39.

Pacific Portland Cement Co., San Francisco, f.o.b. Redwood Harbor, Cal. at \$1.65 per barrel.

Calaveras Cement Co., San Francisco, f.o.b. Kentucky House, Calif., at \$1.65.

SAN FRANCISCO—Following bids submitted under Bid No. 998 to City Purchasing Agent, to furnish garden hose for the Park as follows:

- (1) 12000 ft. 1-in.;
- (2) 1000 ft. ¾-in.;
- (3) 60 ft. 1¼-in.

	(1)	(2)	(3)
Goodyear T & R.....	\$.126	\$.0911	\$.22
Baker-Hamilton.....	.21	.12	.36
Quaker City Rubber.....	.10	.0751	.23
U. S. Rubber Prod.....	.135	.081	.237
Pac. Coast Rubber.....	.1375	.124	.27
Pioneer Rubber Mills.....	.105	.081	.265
Hercules E. & R.....	.117	.0751	.22
Goodyear Rubber.....	.117	.0751	.22
Plant Rub. & Asbestos.....	.123	.072	.222
B. F. Goodrich Rubber (rejected—no check).			

Bids held under advisement.

LOS ANGELES, Calif.—Until 11 A. M., May 16, bids will be received by A. J. Holm, City Purchasing Agent, 107 City Hall, to furnish to Water and Power Department, f.o.b. warehouse at 257 E 3rd St., 35,650 ft. No. 12 AWG, 12-conductor, lead-covered rubber-insulated control cable on reels under Spec. No. 3062.

MONTEREY, Monterey Co., Calif.—Until May 6, 9:30 A. M., under Bid No. 668-33-14, bids will be received by the Quartermaster, Presidio of Monterey, to furnish miscellaneous supplies, including lumber, nails, paint, etc.

Specifications obtainable from the above office or on file in the office of DAILY PACIFIC BUILDER and may be inspected by those interested.

SACRAMENTO, Calif.—Until May 11, 3 P. M., under Circular Proposal No. 33-302, Specifications 5542/2064, bids will be received by U. S. Engineer Office, Sacramento to furnish miscellaneous castings.

Specifications obtainable from the above office or on file in the office of DAILY PACIFIC BUILDER, and may be inspected by those interested.

ENGINEERING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

- | | |
|-------------------------------------|-------------------------------------|
| 21.—Bridges | 30.—Reservoirs and Dams |
| 22.—Dredging, Harbor Works, Excava. | 31.—Pipe Lines and Wells |
| 23.—Irrigation Proj. | 32.—Sewers & Sewage Disposal Plants |
| 24.—St. Light. Systems | 33.—Water Works |
| 25.—Machinery and Equipment | 34.—Parks & Playgrounds |
| 26.—Railroads | 35.—Tunnels |
| 27.—Fire Alarm Sys. | |
| 28.—Fire Equipment | |
| 29.—Streets & Highways | |

21—BRIDGES

OAKLAND, Cal.—W. Vernon Bernard, 3045 Humboldt St., Oakland, at \$1935 submitted low bid to East Bay Municipal Utility District, Oakland, to construct Bear Creek Bridge near Orinda, Contra Costa County, consisting of one 40-ft. span and including 1000 ft. roadway approaches, involving:

(1) one 40-ft. span timber bridge complete, together with two 20-foot span timber approach sections, complete (lump sum);

(2) 1500 cu. yds. excavation. Complete bids follow:

W. Vernon Bernard, Oakland (1) \$1-560; (2) \$375.00.

Lee J. Immel, Berkeley, (1) \$1,665; (2) \$390.

Frank Legg, San Francisco, (1) \$1-370.10; (2) \$727.50.

W. H. Larson, Berkeley, (1) \$1,709; (2) \$525.00.

Herbert K. Henderson, Oakland, (1) \$1720; (2) \$600.00.

C. A. Bruce & Sons, Pleasanton, (1) \$1800; (2) \$525.00.

W. E. Lyons, Oakland, (1) \$1830; (2) \$570.00.

R. W. Littlefield, Oakland, (1) \$1-669; (2) \$750.00.

Hutchinson Co., Oakland, (1) \$1-953; (2) \$480.00.

A. Holyoake, Hayward (1) \$1833; (2) \$600.00.

Frank A. Stead, Berkeley, (1) \$1-865; (2) \$600.00.

J. B. Petersen & Sons, Oakland (1) \$1897; (2) \$600.00.

Robt. B. McNair, Oakland, (1) \$2100 (2) \$450.00.

Delta Dredging Co., Pittsburgh (1) \$2154; (2) \$450.00.

F. C. Stolte & Co., Oakland, (1) \$2-150; (2) \$525.00.

Martin Murphy, Berkeley, (1) \$1-822; (2) \$900.00.

E. T. Lesure, Oakland (1) \$1960; (2) \$840.00.

A. Cederborg, Oakland, (1) \$2320; (2) \$540.00.

Alfred J. Hopper, Oakland, (1) \$2-195; (2) \$675.

George Swanstrom, (1) \$2256; (2) \$825.00.

Garcia Const. Co., Irvington, (1) \$2-475; (2) \$900.00.

Schuler & McDonald, Oakland (1) \$2947; (2) \$645.00.

Bids held under advisement until May 3, 5:30 P. M.

ORANGE COUNTY, Cal.—C. H. Purcell, State Highway Engineer, is preparing plans for the reconstruction of the Anaheim Bay bridge. The state highway commission April 28 appropriated \$12,000 for this work. The bridge was damaged in the recent earthquake.

SAN FRANCISCO.—California Toll Bridge Authority, Earl Lee Kelly, State Director of Public Works, awarded contracts on all six divisions of the San Francisco-Oakland Bay Bridge to low bidders, as follows:

CONTRACT 2—Substructure, West Bay Crossing, Transbay Const. Co., \$6,957,100.68.

CONTRACT 3—San Francisco Anchorage, Healy-Tibbitts Const. Co., \$1,036,500.

CONTRACTS 4 and 4a—Substructure, East Bay Crossing, Bridge Builders, Inc., \$4,495,854.

CONTRACT 5—Yerba Buena Tunnel and Construction, Clinton Const. Co., \$1,821,292.50.

CONTRACTS 6 and 6a—Superstructure, West Bay Crossing, Columbia Steel Co., \$13,732,471.80.

CONTRACT 7—Superstructure, East Bay Crossing, Columbia Steel Co., \$8-798,096.50.

FAIRFIELD, Solano Co., Calif.—County supervisors grant permit to James L. Irvine to construct span across Dutchman's Slough, north of Mare Island. Bridge will be draw span 10-ft. above mean high tide, with 20-ft. opening to permit passage of vessels.

PORTERVILLE, Tulare Co., Calif.—Plans being completed to rebuild suspension bridge across the Big Kern River.

SANTA CLARA COUNTY, Cal.—N. M. Ball, 1889 Yosemite Road, Berkeley, at \$68,933.58 awarded contract May 4 by State Highway Commission to construct undergrade crossing under the tracks of the Southern Pacific Railroad near Madrone, consisting of two concrete abutments with wing walls, installing drainage system, and pumping equipment, and grading and paving approximately 0.74 mile roadway with Portland cement concrete.

SAN FRANCISCO—Moore Drydock Co., Balfour Bldg., awarded sub-contract by Transbay Construction Co., Financial Center Bldg., for caisson work in connection with the Substructure, West Bay Crossing, Transbay Bridge.

LOS ANGELES, Calif.—Until 2 P. M., May 22, bids will be received by the county supervisors to paint steel work of the 400-ft. bridge on Ocean Ave. across Alamitos Bay. The county will furnish the paint. W. D. Armstrong, County Bridge Engineer. M. E. Beatty, 501 Hall of Records, clerk of the board. 1

CAPITAL CITY TITLE COMPANY

J. C. PALEN,
Manager

914 Seventh Street
Sacramento :: California

22—DREDGING, HARBOR WORKS, EXCAVATION

PORT ALLEN, Kauai, T. H.—U. S. Engineer Office may call bids for a 1200-ft. breakwater on the east side of the bay; also dredging a harbor basin; estimated cost, \$880,000.

REDWOOD CITY, San Mateo Co., Cal.—County will determine at June 27 election whether harbor district is to be formed; involves election of 3 commissioners for district. District, if formed, may petition Reconstruction Finance Corporation for \$200,000 loan to build harbor. 2

SEATTLE, Wash.—Johnson Shlpbuilding Co., Seattle, at \$3447 submitted low bid to U. S. Engineer Office to construct 3 flat-bottomed wooden scows 22x50 ft. Maritime Boat & Engine Works second low at \$3591; Berg Shlpbuilding Co., third low at \$3882.

STOCKTON, San Joaquin Co., Cal.—Until May 9, 3 P. M., under Circular Proposal No. 33-301, Spec. No. 5428, bids will be received by U. S. Engineer Office, California Fruit Building, Sacramento, to remove a sunken barge from the easterly bank of the San Joaquin river just upstream from the Borden Highway Bridge, and about one mile west of Stockton. Specifications obtainable from above office.

SEATTLE, Wash.—Winslow Marine Railway Co., Seattle, at \$22,230.68 was awarded contract by U. S. Engineer's Office to dry dock and repair dredge "Culebra."

SAN FRANCISCO.—Bill introduced before House Committee, Washington, D. C., to clear the bar just outside the Golden Gate; appropriation \$500,000.

Other projects included in the same bill are:

Monterey harbor \$240,000; lower San Francisco Bay and Guadalupe River, \$300,000; Middle River, Turner Cut and Whiskey Slough, \$6,500; Napa River, \$62,500; Umpqua River, Ore., \$700,000; Columbia River at St. Helens, \$50,000; Columbia River, mouth of Willamette River to Vancouver, \$57,000; Young Bay and River, \$5,000, and Multnomah Channel, Ore., \$20,000.

24—ST. LIGHT. SYSTEMS

FRANCE FIELD, C. Z.—Until June 8, bids will be received by Quartermaster Office, Quarry Heights, C. Z., for night lighting system.

25—MACHINERY AND EQUIPMENT

LOS ANGELES, Cal.—Standard Steel Works, 5001 Boyle Ave., awarded contract by Board of Public Works, April 28, at \$5989, to furnish and install a rock and sand dryer and other miscellaneous work at the McPherson St. asphalt plant.

PORTLAND, Ore.—Northern Radio Co., Inc., 1422 Joseph Vance Bldg., Seattle, Wash., at \$1975 submitted lone bid to U. S. Engineer Office, Portland, to construct one radio transmitting

and receiving set and install it on U. S. Seagoing Dredge Col. P. S. Michie. Alternate of 110-v. storage battery at \$650; 2-k.w. Kohler Plant 110-v. D. C. at \$600.

KETCHIKAN, Alaska.—Until June 6 bids will be received by W. C. Dibrell, superintendent, 16th Lighthouse District, Ketchikan, to furnish two units of Diesel engine driven compressor units with accessories. Sixty-day delivery is wanted.

27—FIRE ALARMSYSTEMS

LOS ANGELES, Calif.—County supervisors authorized appropriation of \$3400 May 1 to purchase a fire truck for Rancho Los Amigos. H. E. Russell, county purchasing agent, 524 N Spring St., will advertise for bids soon.

30—RESERVOIRS & DAMS

PHOENIX, Ariz.—Maricopa County Municipal Water Conservation Dist. No. 1 granted loan by Reconstruction Finance Corp. to provide funds for the repair of the district's concrete dam across the Aqua Fria River, 18 mile west of Phoenix. The cost of the project will be about \$1,350,000.

ALTADENA, Los Angeles Co., Cal.—Plans for a reinforced concrete circular reservoir, to be built at 560 Poppy St., Altadena, for the Las Flores Water Co., will be issued about May 2 to a selected list of contractors. Plans prepared by Allin Bros., consulting engineers, 303 Kendall Bldg., 65 N. Raymond Avenue, Pasadena. The proposed reservoir will be 80 ft. in diameter, 13½ ft. in depth, with vertical reinforced walls. The reservoir will have a wooden roof supported by concrete columns, with composition covering.

The outlet pipe, involving 20 ft. cast iron pipe, one 10-in. and one 6-in. valve, will be purchased direct by the water company.

LOS ANGELES, Calif.—Until 2 P. M. May 8, bids will be received by County Supervisors to furnish 406,800 lbs. reinforcing steel and 60 ft. steel pipe for San Gabriel Dam No. 2, f. o. b. district freight yard at Azusa. The items are:

REINFORCING STEEL

- (1) 12,340 lbs. 1¼-in. square deformed
- (2) 50,000 lbs. 1-in. round deformed;
- (3) 100 lbs. ¾-in. do;
- (4) 30,000 lbs. ¾-in. do;
- (5) 20,000 lbs. ½-in. do;
- (6) 100 lbs. ½-in. square deformed;
- (7) 294,000 lbs. ½-in. round deformed;
- (8) 100 lbs. ¾-in. do;
- (9) 160 lbs. ¼-in. do.

STEEL PIPE

- (1) 600 lin. ft. 10-in. dia. standard steel pipe, unthreaded, in 10-ft. lengths.

E. C. Eaton, County Flood Control Engineer, 202 N Broadway. Mame B. Beatty, 501 Hall of Records, Clerk of the Board.

LOS ANGELES, Cal.—Case Const. Co., Inc., 1927 Thayer Ave., Westwood awarded subcontract by Maceo-Lewis Const. Co. for work at San Gabriel Dam No. 2, as follows:

- (1) Gunite facing slab and sub-slab on up stream face of dam;
- (2) Gunite work in main incline for feeder tunnel and transition into main tunnels.

MODESTO, Stanislaus Co., Cal.—J. F. Knapp, 916 Financial Center Bldg., Oakland, at \$7425 submitted low bid to city council to construct collapsible weir dam across the Tuol-

umne River at Modesto, involving:

- (1) dam complete;
- (2) furnish and drive all anchor piles, sheet piling and abutment piling, and furnish all stringers and bolts completely fastened to anchor & sheet piling;
- (3) furnish all materials for dam complete;
- (4) labor to construct dam complete;
- (5) furnish pile driver, mechanical shovel and one operator for each piece of equipment. Price per hr. Knapp also bid on item (5) \$6 per hour each for shovel and operator and for pile driver and operator.

Delta Dredging Co., Pittsburg, submitted only other bid on dam complete, at \$10,349.

Ground Lumber Co., Modesto, bid on lumber only at \$50 per MFBM for 10,000 bd. ft. redwood; \$23.50 MFBM for 1000 bd. ft. pine, and \$37.50 MFBM for 1000 bd. ft. creosoted pine.

Bids turned over to Frank J. Rossi, city engineer, and held under advisement until May 10, at which time award will probably be made to low bidder, as his equipment is located on the Tuolumne River at present.

BELLFLOWER, Los Angeles Co., Cal.—The Somerset Mutual Water Co. 458 Somerset Ave., Bellflower, has under consideration the construction of a reinforced concrete reservoir to replace a 50,000-gal. steel tank which was destroyed by the earthquake. E. R. Jones is the superintendent.

PHOENIX, Ariz.—The proposed improvements and repairs to the Lake Pleasant Dam across the Agua Fria River, 18 miles west of Phoenix, for the Maricopa County Municipal Water Conservation District No. 1, for which the Reconstruction Finance Corp. has granted a \$1,350,000 loan (as previously noted) will include correction of structural defects to make the dam capable of holding its full capacity as designed. The program as outlined by the Chief Engineer and General Manager, W. W. Lane, is as follows:

Raising of the dam spillways.

Construction of new distributing system structures.

Lining of a portion of the canal system.

The project now has 39,026 acres under cultivation and the proposed improvements will enable the district to provide for an additional 19,000 acres.

R. O. Beardsley is president; W. W. Lane, General Manager and Chief Engineer, and Nina McNulty, Secretary.

31—PIPE LINES & WELLS

PEARL HARBOR, T. H.—Until May 31, bids will be received by 14th Naval District, Pearl Harbor, T. H., under Spec. 7209 to construct 6-in. cast iron pipe water line approximately 3-736 ft. long with 3180 ft. to be submerged.

WALLA WALLA, Washington.—Until May 12, 2:30 P. M. (date postponed from May 5) bids will be received by the Supervising Superintendent of Construction, Veterans' Administration, Palo Alto, to drill, develop and test deep well at the Veterans' Administration Hospital Pumping Site No 2, at Walla Walla, Washington.

SAN DIEGO, Cal.—City council has authorized an extra work order on El Capitan Dam to provide for the drilling of seven wells for tests as to underground drainage. Cost is estimated at \$2500. H. N. Savage is the hydraulic engineer in charge.

BEVERLY HILLS, Los Angeles Co., Cal.—Until May 23, 8 P. M., bids will be received by city council to drill one 16-in. gravel encased envelope type well to a depth of from 350 to 450 ft. Specifications obtainable from the consulting engineers, Salisbury, Bradshaw & Taylor, 714 W 10th St., Los Angeles. E. J. Firminger, city clerk.

SEATTLE, Wash.—Puget Sound Machinery Depot, 322 1st St., Seattle, at \$337,323 awarded contract by city council to construct the Cedar River Pipe Line on the basis of steel pipe construction.

32—SEWERS & SEWAGE DISPOSAL PLANTS

LONG BEACH, Calif.—United Concrete Pipe Corp., 1347 W 208th Street, awarded contract by the city manager at \$4194.85 for furnishing 1315 ft. of 36-in. reinforced concrete pipe under Spec. No. R-742.

American Concrete & Steel Pipe Co. submitted a bid of \$4273.75.

LOS ANGELES, Cal.—L. W. Armstrong, City Storm Drain Engineer, has completed specifications for furnishing of 138 ft. of 33-in. centrifugal concrete pipe for use in the 6th Ave. and 52nd St. Improvement District. A call for bids will be issued through the office of A. J. Hohn, City Purchasing Agent.

MONTEREY PARK, Los Angeles Co., Cal.—All bids for furnishing vitrified sewer pipe, manhole brick, etc., for the Midwick View Estates sewers, opened April 24, rejected by the city council May 1. The engineer, C. H. Ellison, was authorized to purchase the material in the open market. The materials required are:

- 8,000 ft. 8-in. sewer pipe;
- 1,350 ft. 10-in. sewer pipe;
- 160 8x6 wyes;
- 13 10x6 wyes;
- 50,000 manhole brick;
- 36 manhole covers and rings.

SAN FRANCISCO.—Until May 17, 2:30 P. M., bids will be received by Department of Public Works, S. J. Hester, secretary, to construct a sewer in Blanken St. consisting of a wood box sewer, involving:

- (1) 964 lin. ft. 24x24-in., redwood box sewer, on earth;
- (2) 206 lin. ft. do on piles;
- (3) 1360 lin. ft. creosoted piles.

Specifications obtainable from office of John J. Casey, city engineer, third floor, City Hall. Estimated cost, \$4,600.

33—WATER WORKS

MODESTO, Stanislaus Co., Calif.—Kimball-Krogh Pump Co., 515 Harrison St., San Francisco, at \$1423 with a turn-in allowance of \$100 submitted low bid to city council to furnish one pump and motor complete. Either vertical turbine or horizontal centrifugal type, 1500-GPM at 177 ft. head, driven by 100-hp. 2300-volt, 3-phase, 60-cycle motor; f.o.b. Modesto. Bidder to show allowance on one 1400-GPM Bryon-Jackson pump and one 125-hp. 2300-volt, 3-phase, 60-cycle General Electric motor.

Complete bids follow:

- Kimball-Krogh, turbine, \$100; \$1423.
- Wintroath Pumps, Ltd., Alhambra, turbine, \$150; \$1600.
- John Bean, San Jose, turbine, \$254; \$1647.
- Sterling Pumps, Stockton, turbine, \$350 \$1800.
- Pomona Pump Co., turbine, \$75; \$1873
- Fairbanks-Morse, San Francisco, turbine, \$463.45; \$1885.

Hild Elec. & Mfg. Co., Stockton, cen. \$150; \$1996; turbine, \$150; \$1993.
 Byron-Jackson, Berkeley, cen. \$100; \$2134; turbine, \$100; \$1727.
 DeLaval, San Francisco, centrif. \$100 \$2195.
 Bids held under advisement until

WAPATO, Wash.—Mathews Lumber Co., Seattle, at \$665 awarded contract by U. S. Bureau of Reclamation to furnish 50,000 ft. cedar for construction on Unit No. 2, Wapato Project.

General Electric Supply Corporation awarded contract at \$199 for equipment for the power house.

PEARL HARBOR, T. H.—Until 11 A. M., May 31, bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., for 6-in. cast iron water pipe line approximately 3736 ft. long, with approximately 3180 ft. to be submerged, at the 14th Naval District, Pearl Harbor, T. H.; Spec. No. 7209. Plans may be obtained on application to the Bureau, to the Commandant, 14th Naval District, Navy Yard, Pearl Harbor, T. H., or to the Commandant, 12th Naval District, 100 Harrison St., San Francisco, upon deposit of check or postal money order for \$10, payable to the Chief of the Bureau of Yards and Docks.

SOUTH GATE, Los Angeles Co., Cal.—City Council has adopted a resolution ordering that the city apply to the Unified Rehabilitation Corp. for a loan of \$19,000 to provide funds for the reconstruction of an elevated steel tank which was destroyed by the earthquake. The proposed tank will have a capacity of 150,000 gallons and will be constructed on a 142-ft. tower. This application was recommended by W. S. Althouse, consulting engineer, in order that the city might be one of the first on the list. The engineer recently presented a report embodying this recommendation and other work totaling \$83,000, but to date the council has not considered the report as a whole.

Supply Co., 729 Brannan St., at \$5.30 for 3/4-in. and \$7.36 for 1-in., submitted low bid to City Purchasing Agent under Bid No. 996, to furnish (1) 35,000 ft. 3/4-in. standard wrought steel galv. water pipe.
 (2) 1000 ft. 1-in. do.

Twenty-three identical bids at \$5.48 for (1) and \$7.59 for (2) were submitted by:

- Woodin & Little.
- Turner Company.
- Sloss & Brittain.
- Olson & Heffernan.
- Petroleum Equipment Co.
- Tay-Holbrook Co.
- Richmond Sanitary Co.
- Dunham, Carrigan & Hayden.
- E. E. Newhall Co.
- Stephen H. McKay.
- C. J. Hengera Co.
- Steam & Plumbing Service Corp.
- Marshall-Newell Supply Co.
- P. E. O'Hair & Co.
- Gilmore Steel & Supply Co.
- Baker-Hamilton-Pacific Co.
- Pacific Pump & Supply Co.
- General Machinery & Supply Co.
- Walsworth-California Co.
- Crane Co.
- Grinnell Co. of California.
- A. J. Glesner Co.
- Federal Pipe & Supply Co.
- Viking Automatic Sprinkler Co., submitted a bid at \$5.52 for (1) and \$7.65 for (2). Bids held under advisement.

SANTA BARBARA, Cal.—Until 2 P. M., May 11, bids will be received by City Council to furnish pipe and valves for the Sheffield Reservoir project, involving:
 400 ft. 24-in. class B sand spun cast

iron pipe;
 1 12-in. valve;
 1 12-in. valve;
 Specifications obtainable from Victor H. Trace, City Water Superintendent. Carl Hesse, city purchasing agent.

SAN FRANCISCO—United Pipe & SAN FRANCISCO—Pacific States Cast Iron Pipe Co., Rialto Bldg., at \$.165 per ft. submitted low bid under Bid No. 994 to City Purchasing Agent to furnish 5000 ft. 2-in. cast iron B & S water pipe. Only other bid submitted by American Cast Iron Pipe Co. at \$.178 per ft.

TORRANCE, Los Angeles Co., Cal.—City council preparing preliminaries to issue \$400,000 bonds for municipal water system and making a study of the feasibility of constructing an entirely new plant rather than purchase the existing system. F. B. Leonard, city engineer, has prepared plans for the new system.

SAN FRANCISCO.—Western Pipe & Steel Co., 444 Market St., at \$1084 less 1/2% discount, awarded contract by U. S. Forest Service to furnish:

- (1) 1500 lin. ft. 12-in. corr. metal culvert;
 - (2) 750 lin. ft. 18-in. do;
- Complete bids follow:
- (A) Western Pipe & Steel Co., \$1,084.00.
 - (B) Golden State Culvert (no discount) \$1080.00.
 - (C) California Corrugated Culvert Co. \$1099.80.
- Unit bids follow:
- | | (A) | (B) | (C) |
|----------|-------|------|------|
| (1)..... | \$395 | \$39 | \$40 |
| (2)..... | .57 | .67 | .58 |

SAN FRANCISCO—P. L. Burr, 320 Market St., at \$1284 submitted low bid to Constructing Quartermaster, Fort Mason, for furnishing and installing two water meters in valve chambers at the Letterman General Hospital, San Francisco. Following bids received:

- P. L. Burr.....\$1284
 - Thos. R. Smith.....1300
 - A. Ramanzotti.....1390
 - Skelly & Kohler.....1417
 - James Currie.....1444
 - O'Mara & Stewart.....1475
 - Sett Company.....1547
 - Atlas Heating & Ventilating Co. 1618
 - Fred W. Snook.....1770
 - Baldwin & Butler.....1798
- Bids held under advisement.

BELLFLOWER, Los Angeles Co., Cal.—Western Pipe & Steel Co., 5717 Santa Fe Ave., Los Angeles, awarded contract by Bellflower Water Co., 458 Somerset Ave., Bellflower, at about \$2000 to construct a steel standpipe, 24 ft. in diameter and 41 ft. high, on concrete foundation, to replace the elevated steel tank destroyed in the recent earthquake. Jack Hammond is the superintendent.

29—STREETS AND HIGHWAYS

LASSEN & Sierra Counties, Cal.—C. F. Frederickson and Sons, Lower Lake, and Basalt Rock Co., Napa, at \$8772.33 submitted identical low bids to District Engineer State Highway Commission, Redding, to treat with asphaltic road oil as a dust palliative 40.4 mi. existing roadbed between 2-mi. west of Millford and Doyle and between Long Valley Creek and the Nevada State Line, involving 3387 bbls. asphaltic road oil. Complete bids follow:
 C. F. Frederickson & Sons, \$2.59; \$8772.33.
 Basalt Rock Co., Napa, \$2.59; \$8772.33
 Tiffany-McReynolds-Tiffany, San Jose, \$2.73; \$9246.51.

Oilfields Trucking Co., Bakersfield, \$2.95; \$9991.65.
 A. Teichert & Son, Sacramento, \$3.05; \$10,330.35.
 Dunn & Baker, Klamath Falls, Ore., \$3.90; \$13,209.30.

SAN FRANCISCO—E. J. Treacy, 309 Call Bldg., at \$5258.15 submitted low bid to construct 16-in. cast iron pipe line 19th Ave. to Ulloa St., involving:

- (1) 5700 lin. ft. excav. and backfill 30x48-in.;
- (2) 50 cu. yds. add. excav. and backfill;
- (3) 356 tons install pipe, fitting, gates
- (4) 3425 lin. ft. Mineralead joints, fitting.

- Complete bids follow:
- (A) E. J. Treacy, \$5258.15.
 - (B) Fay Improvement Co., \$5458.15.
 - (C) S. F. Water Dept., \$5569.25.
 - (D) H. E. Conner, Redwood City, \$6233.50.
 - (E) P. L. Burr, \$7957.20.
 - (G) Jos. Shea, \$7687.
- Unit bids follow:
- | | (A) | (B) | (C) | (D) | (E) | (F) |
|----------|-------|-------|-------|-------|-------|--------|
| (1)..... | \$.61 | \$.60 | \$.70 | \$.61 | \$.72 | \$.946 |
| (2)..... | 1.00 | .80 | 2.00 | 2.00 | 1.00 | 2.00 |
| (3)..... | 2.65 | 3.40 | 1.75 | 6.50 | 8.00 | 5.00 |
| (4)..... | .23 | .23 | .25 | .10 | .20 | .20 |

BUTTE, Nevada, Yuba, Sierra and El Dorado Counties, Calif.—Oilfields Trucking Co., Bakersfield, at \$8954.85 submitted low bid May 4 to District Engineer, State Highway Commission, Sacramento, to treat with asphaltic road oil as a dust palliative 61.3 miles of existing roadbed, involving:

- (1) 1285 bbls. asph. road oil, Loc. A;
- (2) 505 do, Location B;
- (3) 900 do, Location C;
- (4) 1065 do, Location D.

- Complete bids follow:
- (A) Oilfields Trucking Co., Bakersfield \$8,954.85.
 - (B) C. F. Frederickson & Sons, Lakeport, \$9,540.20.
 - (C) Ed. A. Forde, San Anselmo, \$10,701.75.
 - (D) Basalt Rock Co., Napa, \$11,646.05.
- Unit bids follow:
- | | (1) | (2) | (3) | (4) |
|----------|--------|--------|--------|--------|
| (A)..... | \$2.34 | \$2.49 | \$2.49 | \$2.30 |
| (B)..... | 2.72 | 2.20 | 2.99 | 2.20 |
| (D)..... | 3.30 | 2.54 | 3.62 | 2.69 |
| (C)..... | 2.85 | 2.85 | 2.85 | 2.85 |

WASHINGTON STATE—Until May 31, 10 A. M., bids will be received by L. V. Murrow, State Director of Highways, Olympia, to construct bituminous mat by plant mix method on the Touchet-Vansycle Canyon and the Wallula-Oregon State Line sections, State Road No. 3, Walla Walla Co., 15.6 mi. Specifications obtainable from above office on deposit of \$2.00. Certified check 5% payable to State Treasurer required with bid.

SAN JOSE, Santa Clara Co., Cal.—Until May 15, 11 A. M., bids will be received by Henry A. Pfister, County Clerk, to improve Cunningham St., involving 182,700 sq. ft. oil macadam. Specifications obtainable from Robert Chandler, County Surveyor, on payment of \$1, not returnable.

SAN JOSE, Santa Clara Co., Cal.—A. J. Raisch, 305 Burrell Bldg., San Jose, at \$4715 awarded contract by county supervisors to improve Fowler Road, Supervisor District No. 2, near Evergreen, involving 74,540 sq. ft. oil macadam. Complete bids follow:
 A. J. Raisch, San Jose.....\$4715.00
 Tyhon & Karstedt, San Jose.. 5608.00
 E. W. Heple, San Jose..... 5348.00
 Surveyor's Estimate 4800.00
 A. J. Raisch also awarded contract to improve Dixon Road, Supervisor District No. 3, from the Oakland Highway to the county line, involving 77,270 sq. ft. oil macadam. Complete bids follow

A. J. Ralsch, San Jose.....\$5084.00
 O. G. Ritchie, San Jose..... 5335.00
 E. W. Heple, San Jose..... 5675.83
 Tyson & Karstedt, San Jose..... 7129.30
 Surveyor's Estimate 4500.00

RIVERSIDE, Cal.—J. R. Elliott, Street Superintendent, has completed an estimate of the cost of resurfacing Central Ave., between the Santa Fe tracks and Victoria Ave., 3270 lin. ft., 16 ft. wide. The work will involve: 52,320 sq. ft. 2-in. rock and oil surfacing.

Engineer's estimate, \$2142.80.

SAN FRANCISCO—Eaton & Smith, 715 Ocean Ave., at \$2450 submitted low bid to Constructing Quartermaster, Fort Mason, for clearing and grubbing approximately 3.12 acres of land at the San Francisco National Cemetery. Following bids received:

Eaton & Smith.....\$2450
 P. L. Burr..... 2730
 James Currie..... 3200
 Severin Electric Co..... 3500
 Fay Investment Co..... 4985
 A. G. Ralsch..... 5400
 A. J. O'Neil..... 5800

MODOC COUNTY, Cal.—Until May 4, 2 P. M., bids will be received by F. W. Haselwood, District Engineer, State Highway Commission, Redding, to treat with fuel oil and asphaltic road oil as a dust palliative 46.5 mi. of existing roadbed between Hot Creek and Alturas and between the Junction of State Highway Routes 73 and 28 and the Oregon state line. Specifications obtainable from above office. Certified check 10% required with bid.

PLUMAS and Lassen Counties, Cal.—Until May 4, 2 P. M., bids will be received by F. W. Haselwood, District Engineer, State Highway Commission, Redding, to treat with fuel oil as a dust palliative 21 miles of existing roadbed between Beckwith and a junction with State Highway Route 29, near Chat. Specifications obtainable from above office. Certified check 10% required with bid.

INGLEWOOD, Los Angeles Co., Cal.—Arthur W. Cory, city engineer, prepared estimate of the materials to be used to improve Freeman Avenue between Redondo Blvd. and a point 300 ft. south of Arbor Vitae St. The engineer has not determined whether the paving will be rock and oil or Bitumuls. The preliminary estimate shows:

375 bbls. No. 80 oil;
 225 bbls. No. 90 oil;
 900 tons equal parts No. 2 and No. 3 rock;

375 tons equal parts No. 4 rock;
 100 tons sand.

The total area to be paved is about one mile in length, 40 ft. wide, including 22,273 sq. yds. surface.

The city also plans to pave the roadway of Prairie Ave. between Redondo Ave. and Regent St., about 420 lin. ft., involving 2240 sq. yds. surface. The estimate of required materials follows:

100 tons Nos. 2 and 3 rock;
 55 tons No. 4 rock;
 10 tons sand;

60 bbls., 80 and 90 road oil;

The sum of \$3450 for these projects has been appropriated by the county supervisors. 29

MODESTO, Stanislaus Co., Calif.—Modesto-Yosemite Highway Cut-off Association requests loan from Reconstruction Finance Corporation to finance construction of short-cut toll road to Yosemite Valley. Cost was estimated at \$1,724,550 in 1930, but Association now estimates that present cost would be 25 to 50% less.

SAN MATEO, San Mateo Co., Cal.

—San Mateo County Surveyor James S. James stated that proposed Ocean Shore route would be impractical because of slides near the old Pedro mountain railroad tunnel. Joint Highway District No. 9, San Mateo, San Francisco and Santa Cruz counties, may survey route in order to determine whether present plans should be followed.

BELL, Los Angeles Co., Cal.—Atlantic Lumber Co., 6337 Atlantic Blvd., Bell, awarded contract by City Council to furnish rock and sand for the resurfacing of Wilcox St., Salt Lake Ave., and other streets, involving: 660 tons No. 3 rock at \$1.50 ton.
 360 tons No. 4 rock at \$1.50 ton.
 180 tons sand at \$1.35 cu. yd.

BEVERLY HILLS, Los Angeles Co., Cal.—Booth & Tomei, 5922½ Estrella Ave., Los Angeles, submitted low bid to city council, April 25, at \$2.15 ton, for resurfacing and grading on N. Canon Dr., from Santa Monica Blvd. to Sunset Blvd., involving 216,300 sq. ft. 2-in. asphalt concrete resurfacing. The other bids were:
 Southwest Paving Co., \$2.33 per ton.
 Griffith Co., \$2.43 per ton.

The bids were taken under advise-

TULARE CO., Cal.—Hemstreet and Bell, Marysville, at \$237,010.40 awarded contract by State Highway Commission to complete grading and surfacing with crushed gravel or stone 8.4 miles between Lemon Cove and Three Rivers. Only other bid submitted by Valley Paving & Construction Co., Fresno, at \$241,315.40.

TUOLUMNE and Mariposa Counties, Cal.—C. F. Frederickson & Sons, Lower Lake, at \$7891 awarded contract by State Highway Commission to treat with fuel oil and asphaltic road oil as a dust palliative 26 miles of existing roadbed between Priest Hotel and Yosemite National Park.

SAN RAFAEL, Marin Co., Calif.—Following have procured plans for the purpose of submitting bids to the Constructing Quartermaster, at Hamilton Field, for paved aprons around the hangar and shop at Hamilton Field (Marin Meadows) Bombing Base, San Rafael, on May 24, 2 P. M.:

Leroy Building Service, 165 Jessie St., San Francisco.

Robert E. McKee, 108 W 6th St., Basalt Rock Co., Napa.

Chas. L. Harney, 74 New Montgomery St., San Francisco.

Eaton & Smith, 715 Ocean Ave., San Francisco.

W. E. Lyns, 354 Hobart St., Oakland.

Pacific States Const. Co., Call Bldg., San Francisco.

A. Nelson, Inc., 242 Ocean Ave., San Francisco.

Barrett & Hilp, 918 Harrison St., San Francisco.

Quantities of materials listed in issue of April 27.

PEARL HARBOR, T. H.—Until May 17, 11 A. M., under Spec. No. 7134, bids will be received by Public Works Officer, 14th Naval District, Pearl Harbor, for additional paving in vicinity of Seaplane hangar at the Fleet Air Base, Pearl Harbor. Specifications obtainable from above on deposit of \$5, check payable to Chief of the Bureau of Yards and Docks.

SAN FRANCISCO.—E. J. Treacy, Call Bldg., at \$5490.30 awarded contract by Department of Public Works to improve 19th, Yukon to Casell Sts.

OAKLAND, Cal.—Hutchinson Co., 1450 Harrison St., Oakland, at \$4817-

40 awarded contract by City Port Commission to pave Middle Harbor Road from the foot of Adeline St. to the new garbage wharf.

LOS ANGELES, Cal.—V. R. Dennis Construction Co., Box F, Station A, San Diego, at \$15,319 submitted low bid May 2, to Metropolitan Water District to construct 3.2 mi. roads for the Colorado River Aqueduct, in Berdoo Canyon, 7 mi. northeast of Indio.

Yglesias Bros., Inc., San Diego, second low at \$20,963; A. Teichert & Son, Sacramento, third low at \$23,511.50.

SHASTA COUNTY, Cal.—Forward Bros., Mantion, awarded sub-contract by E. C. Coats, Sacramento, to clear four miles Manzanita Lake National Forest Highway for which Coats was awarded contract Dec. 15, 1932.

MONTEREY, Monterey Co., Cal.—Granite Const. Co., Bin No. 9, Watsonville, at \$4394.14 awarded contract by Quartermaster, Presidio of Monterey, to construct asphaltic concrete roadways and concrete curbs at the Presidio.

LOS ANGELES, Cal.—J. J. Jessup, City Engineer, completed plans to improve Gracia St. and Hollydale Improvement District, involving:

grading (1624 cu. yds. cut, 551 cu. yds. fill);

489 sq. ft. concrete local depressions, 8-in.;

48,106 sq. ft. asphalt concrete wearing surface, 4-in.;

2,994 ft. unplastered light curb;

204 sq. ft. once-course sidewalk, 4-in. (driveway);

43,121 sq. ft. one-course sidewalk;

3,082 sq. ft. concrete gutter;

lump sum for remodeling manhole including service connections for water service complete 1 service connection;

Removals:

97 sq. ft. sidewalk;

110 sq. ft. driveway;

33 sq. ft. gutter;

13 sq. ft. brick pavement.

Action on this improvement has been deferred until a later date.

TRINITY COUNTY, Cal.—Tiffany-McReynolds-Tiffany Co., 535 N 7th St., San Jose, at \$7326.26 submitted low bid April 27 to District Engineer, State Highway Commission, Redding, to treat with fuel oil and asphaltic road oil as a dust palliative 26.5 miles between Weaverville and White's Bar Creek, involving:

(1) 1126 bbls. heavy fuel oil;

(2) 1277 bbls. asph. road oil.

Complete bids follow:

(A) Tiffany-McReynolds-Tiffany Co., \$7326.26.

(B) C. F. Frederickson & Sons, Lakeport, \$8195.18.

(C) Dunn & Baker, Klamath Falls, Ore., \$9769.90.

Unit bids follow:

	(A)	(B)
(1)	\$2.90	\$3.18
(2)	3.15	3.64
(3)	3.80	4.39

OAKLAND, Alameda Co., Cal.—Informal bids are being received by Secretary, City of Oakland Port Commission, for surface paving materials at the Air Port involving approximately 5000 square feet. Estimated cost \$700.

SAN FRANCISCO.—Fay Imp. Co., Phelan Bldg., at \$16,206.27 awarded contract by the Department of Public Works to improve Clement St., 40th to 45th Avenues, except south half of Clement, 40th to west line 42nd Ave. produced, and except crossing 43rd Ave. and Clement Sts.

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

IMP. SANTA BARBARA AVE. — LOS ANGELES

LOS ANGELES, Cal.—Southern California Roads Co., 2235 E. 25th St., submitted low bid to Board of Public Works, April 26 at \$51,472.88 to improve Santa Barbara Ave. and other streets in the Santa Barbara Ave. and Crenshaw Blvd. Improvement District under cash contract, involving:

- (1) grading complete, including removal of existing improvements;
- (2) 126,450 sq. ft. 8-in. Warrenite bitulithic pavement (2-in. Warrenite wearing surface on 6-in. concrete base);
- (3) 1856 sq. ft. 6-in. asphalt concrete pavement, 4-in. asphalt concrete base with 2-in. asphalt concrete wearing surface);
- (4) 011 sq. ft. asphalt concrete pavement (variable thickness, average 4 1/2 in.);

- (5) 10,939 sq. ft. Warrenite bitulithic wearing surface of variable thickness;
- (6) 22,823 sq. ft. 4-in. rock and oil roadway;
- (7) 1322 sq. ft. 8-in. concrete pavement, including local depressions;
- (8) 919 ft. unplastered heavy curb;
- (9) 1472 sq. ft. 3-in. concrete walk;
- (10) 508 sq. ft. 8-in. concrete gutter;
- (11) 427 sq. ft. 8-in. comb. gutter;
- (12) ornamental lighting system;
- (13) 4 manholes to be reset.

The total bids follow:

- (A) Southern California Roads, \$51,472.88.
- (B) Griffith Co., \$54,076.14.
- (C) Geo. H. Oswald, \$54,929.46.
- (D) J. L. McClain, \$58,510.61.
- (E) Engineer's estimate, \$51,945.63.

The unit bids were:

	(A)	(B)	(C)	(D)	(E)
(1).....	\$ 1,220.00	\$ 2,675.00	\$ 1,250.00	\$ 1,000.00	\$ 1,220.00
(2).....	.173	.18	.19	.21	.176
(3).....	.10	.11	.10	.13	.11
(4).....	.08	.10	.08	.10	.08
(5).....	.005	.07	.08	.10	.07
(6).....	.06	.075	.06	.075	.056
(7).....	.20	.20	.20	.20	.20
(8).....	.40	.40	.40	.50	.41
(9).....	.10	.12	.10	.10	.11
(10).....	.25	.24	.24	.20	.20
(11).....	.16	.18	.18	.20	.18
(12).....	24,500.00	24,000.00	25,500.00	25,900.00	24,500.00
(13).....	25.00	25.00	20.00	50.00	20.00

- (10) 250 cu. yds. open cut excavation loose material downstream portal tunnel No. 5;
- (11) 125 cu. yds. open cut excavation rock downstream portal tunnel No. 5;
- (12) 970 cu. yds. excav. tunnel No. 5;
- (13) 25 MEM timber in tunnels and adit;
- (14) 150 cu. yds. conc. lining in tunnel or adit;
- (15) 150 cu. yds. enlarge tunnels outside of neat lines;
- (16) extra payment for workmen's compensation, faithful performance bond and labor and material bond are required by city to be obtained of Pasadena agents;

The total bids were:

- (A) Bent Bros., Winston Bros. Co. and W. C. Crowell, \$32,605.25.
- (B) Robinson-Roberts Co. and H. M. Baruch Corp., Los Angeles, \$34,220
- (C) Floyd Shofner, Los Angeles, \$35,545.
- (D) J. F. Haddock, Ltd., \$41,802.50.

The unit bids were:

	(A)	(B)	(C)	(D)
(1).....	\$.65	\$ 1.00	\$.60	\$.50
(2).....	1.05	1.50	1.80	1.00
(3).....	8.15	8.45	8.75	10.50
(4).....	.65	1.00	2.00	1.00
(5).....	1.05	1.50	2.00	1.00
(6).....	8.15	8.30	8.50	8.50
(7).....	8.50	3.00	15.00	12.50
(8).....	8.50	3.00	15.00	12.50
(9).....	.65	1.00	.60	.50
(10).....	.65	1.00	.60	1.00
(11).....	1.05	1.50	1.80	1.50
(12).....	8.15	9.50	8.75	10.50
(13).....	60.00	70.00	60.00	35.00
(14).....	12.50	13.00	12.00	25.00
(15).....	8.50	3.00	10.00	12.50
(16).....	.....	.....	.....	.....

MUNI. POWER PLANT TRANSFORMERS — PASADENA

PASADENA, Cal.—Bids for furnishing transformers for the municipal power and light department opened by city directors April 21. The bids were taken as follows:

(1) Three 2000-KVA single - phase, 50-cycles, oil insulated, self - cooled, outdoor type, surgeproof transformers high voltage 16,500 to 2400 delta or 4150 "Y" low voltage, equipped for automatic tap changing under load, with conservator equipment. Said transformers shall be suitable for operation on 60 cycles frequency. Delivery shall be as follows:

(a) f.o.b. cars Pasadena, at the siding designated by the city;

(b) f.o.b. cars at bidder's factory with freight prepaid by the bidder to Pasadena;

(c) f.o.b. cars at bidder's factory. The freight on same will be paid by

the city;

(2) one 6000-KVA three-phase, 50-cycle oil insulated self-cooled outdoor type surge-proof transformer, high voltage 16,500 to 2400 delta or 4150 "Y" low voltage equipped with automatic tap changing under load, with conservator equipment. Said transformers shall be suitable for operation on 60 cycles frequency.

The bids were referred to Benj. F. Delanty, Superintendent of the Light & Power Department. The figures follow:

The bidders were:

- (A) Pennsylvania Transformer Co.
- (B) Westinghouse Elec. & Mfg. Co.
- (C) Wagner Electric Corporation.
- (D) Allis-Chalmers Mfg. Co.
- (E) General Electric Company.

The unit bids were:

	(1a)	(1b)	(1c)	(2a)	(2b)	(2c)	Shipment in Days
(A)	\$20,000	\$20,000	\$18,999	\$15,720	\$15,720	\$14,570	100
(B)	21,990	21,990	20,900	18,084	18,084	17,300	55
(C)	22,769	21,719	21,719	18,940	18,940	18,080	90
(E)	23,363	23,363	22,293	18,936	18,936	18,076	90
(D)	22,772	22,772	21,722	19,085	19,085	18,230	50

PASADENA, Cal.—Bent Bros., Winston Bros. Co. and W. C. Crowell, 418 Pecan St., Los Angeles, submitted low bid to city directors April 25, at \$32,605.25 to construct tunnel for conduit lines in the San Gabriel Canyon, four miles from Azusa, for the Pine Canyon Dam. The work will consist of driving an adit and two short tunnels, trimming exterior of tunnels and appurtenant work. The total length of adit and tunnels is 1955 feet. Section of tunnel is about 6 ft. 6 in. by 7 ft. 5 in. The quantities follow:

(1) 500 cu. yds. open cut excavation loose material, tunnel No. 4;

- (2) 100 cu. yds. open cut excavation rock, tunnel No. 4;
- (3) 1970 cu. yds. excav., tunnel No. 4, Sta. 26;
- (4) 50 cu. yds. open cut excavation loose material adit portal;
- (5) 50 cu. yds. open cut rock excav. adit portal;
- (6) 170 cu. yds. excav. adit at Sta. 00:00;
- (7) 100 cu. yds. trim and enlarge spillway adit and adit portal;
- (8) 20 cu. yds. enlarge exist. tunnel at Sta. 7 plus 07 and 12 plus 97;
- (9) 1200 cu. yds. open cut excavation loose material upstream portal tunnel No. 5;

LASSEN COUNTY, Cal.—Hein Bros. Basalt Rock Co. and E. A. Forde, P. O. Box 162, Petaluma, at \$17,134.75 submitted low bid May 4 to State Highway Commission, Sacramento, to surface with bituminous treated crushed gravel or stone (road mix method) 2 miles between Susanville and Johnstonville, involving:

- (1) 2490 cu. yds. crusher run base;
- (2) 2925 cu. yds. crushed gravel or stone (bit. treated surface);
- (3) 200 M. gals. water;
- (4) 115 bbls. heavy fuel oil;
- (5) 187 tons cut-back asph. (bit. tr. surf.);
- (6) 105 sta. mix cut-back asphalt and crushed gravel or stone;
- (7) 104 sta. finish roadway.

Complete bids follow:

- (A) Hein Bros. Basalt Rock Co., and E. A. Forde, Petaluma, \$17,134.75.
- (B) Harold Smith, St. Helena, \$17,479.25.
- (C) Tiffany, McReynolds, Tiffany, San Jose and E. B. Bishop, Sacramento, \$18,999.25.
- (D) Hemstreet and Bell, Marysville, \$19,347.50.

Unit bids follow:

	(A)	(B)	(C)	(D)
(1).....	\$2.15	\$2.15	\$2.45	\$2.50
(2).....	2.15	2.15	2.45	2.50
(3).....	1.50	2.00	1.25	1.50
(4).....	2.50	3.00	2.40	3.00
(5).....	19.00	20.00	19.50	19.00
(6).....	8.00	9.00	10.00	12.00
(7).....	5.00	4.00	5.00	3.50

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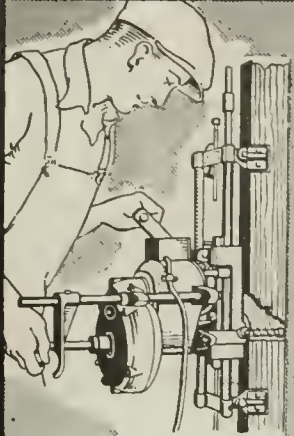
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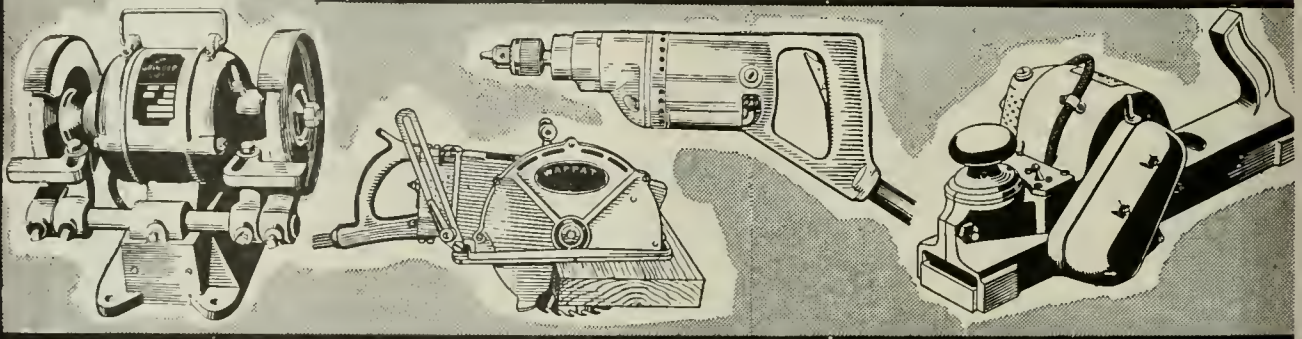
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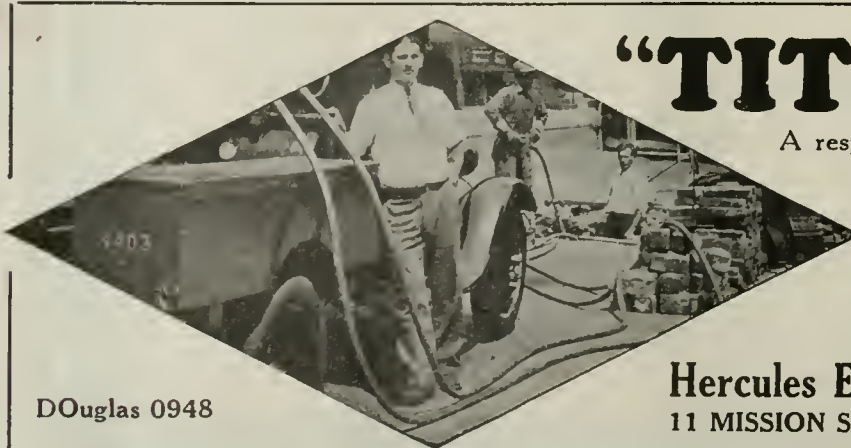
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SAM B. EUBANKS, Editor

Vol. XVI

SAN FRANCISCO, CALIF., MAY 13, 1933

No. 17

BRIDGE BOARD DELAYS \$404,000 STEEL PAYMENT

Name Committee of Engineers To Report on Availability of Local Plants

Following a stormy session at which labor and improvement club heads urged that McClintic-Marshall Corporation, holder of Golden Gate Bridge cable contracts, be compelled to fabricate a major portion of its steel in San Francisco shops, directors of the bridge and highway district yesterday voted to hold up a \$404,000 progress payment to the firm while a committee composed of bridge engineers, three directors, and City Engineer John J. Casey investigated facilities at the company's San Francisco and Alameda plants.

Report of the committee will be submitted at the next meeting of the directors.

Motion to delay the payment and appoint the committee was introduced by Director A. R. O'Brien, member of the district's auditing committee, and passed unanimously by the directors.

At the request of Stephen Malatesta, representative of the Central Council of Civic Clubs, the directors passed a resolution to cooperate with the clubs in attempting to secure as much of the work as possible for San Francisco.

Manager James Reed made public a telegram received yesterday from President G. H. Blakeley of the McClintic-Marshall Corporation, declaring that the Bryant street shop of the company is totally inadequate to fabricate the necessary steel, and that the Union Iron Works, owned by the Bethlehem Steel Company, parent company of the McClintic-Marshall organization, is being used for ship building.

In any event, Blakely said, steel for the towers must be fabricated in the East, and more than two years will elapse before any large volume of work can be done even at the Alameda plant. The latter plant is to be used mainly for storage, he said.

THE WEEK'S NEWS Highlights

UNDERPASS BIDS.—Construction of two grade separation structures in Northern California is ordered by the State Highway Commission. Bids will be received June 3 on the underpass at Goshen junction and underpass about 4 miles north of Bakersfield.

TRUCKS NEEDED.—United States Forest Service has issued a call for bids on rental of light trucks to be used at various points in Northern California in connection with the forest conservation camps.

BUILDING PERMITS.—On the Pacific Coast building permit totals for April were approximately the same as in March, the month's work being valued at \$5,039,510, according to the survey of principal cities by S. W. Straus & Co. Los Angeles and Long Beach were at the head of the list in that order.

JAIL AWARDED.—Low bidders on the general contract, MacDonald and Kahn, and on the mechanical and electrical, Alta Electric Company, were awarded contracts for construction of the San Francisco county jail at Sneath Ranch. Equipment award delayed pending further study of the bids.

STEEL PAYMENTS DELAYED.—While Golden Gate Bridge directors endeavor to persuade McClintic-Marshall company to do a larger share of the work on the structure in San Francisco, progress payments on the steel contract amounting to \$404,000 will be withheld, the directors voted.

START SURVEY TO ALLOCATE SCHOOL BONDS

Board of Education Will Recommend Institutions To Be Replaced

A Board of Education committee yesterday began a survey of San Francisco's wooden "firetrap" schools to determine which buildings are to be razed, following approval by the Board of Supervisors of a proposed \$3,500,000 bond issue to finance reconstruction.

The bond issue, action on which was precipitated by the recent \$100,000 fire which destroyed the antiquated Fremont school an hour after 500 pupils had left the building, will be submitted to voters at the state special election June 27.

Board of Education officials estimated that the sum necessary for the building program will be close to the \$3,500,000 maximum authorized by the supervisors. Funds allotted several years ago for replacing of frame school structures have been used for other expenses of the department.

The committee which is making the survey in conjunction with building inspectors and engineers comprises Philip Lee Bush, Ira W. Coburn and D. P. Hardy.

A detailed report on the work necessary will not be possible for several months, according to Hardy.

"There are 47 wood frame schools in the city," he said. "We have to determine which are the greatest fire hazards, narrowing our list down to about ten."

STEEL INDUSTRY GAINING RAPIDLY

The upward sweep of production, prices and purchases in the iron and steel industry has not yet been checked, with operations for the country at large averaging 31 per cent of capacity as against 29 per cent a week ago, the Iron Age summary points out.

Growing price strength is manifest in additional advances in scrap and pig iron and in the prospect of a general upward revision of quotations on finished steel products.

LIEN RIGHTS MAY VOID CLAIM ON SALES CONTRACT

Court Decisions Deny Right To Remove Building Fixtures

By HARRY C. WESTOVER

During the past year we have discussed from time to time the law of fixtures in their relations with the Mechanics' Lien Law. As a general proposition to entitle one to a lien, the thing for which the lien is asked must be affixed to the building or real estate in order to validate the lien. If the thing or material is not affixed so that it becomes a part of the real estate, then of course, no lien can be established as to the land.

The Appellate and Supreme Courts have been called upon several times during recent months to pass upon the question of fixtures relative to the Mechanics' Lien Law. The law of fixtures usually arises in a lien case when some materialman attempts to protect himself by selling merchandise upon a conditional sales contract, by which the title remains in the seller until the purchase price has been paid. However, when an owner allows his property to be incorporated into and become a part of a building or structure, he may find that later he will be stopped from reclaiming his property.

In the case of Hammel Radiator Corp. vs. Mortgage Guarantee Company, 72 C.A.D. 682, the radiator company sold to the contractor certain radiators upon a conditional sales contract, by which title was reserved in the seller until paid for, but the radiators were installed and attached to the building by means of the slip-joint threaded unions and flanges. The court held the radiator company had no right to remove the radiators upon failure of the buyer to pay the purchase price, and that the Mortgage Guarantee Company obtained a clear title to the radiators although the purchase price has not been paid.

Again in the recent case of Bancroft & Sons Company vs. Cullern et al, 85 C.D. 419, the Supreme Court decided that two steel buildings consisting of a service station which had been bolted down to a cement foundation by means of bolts and certain pipes and conduits embedded in the cement, became attached to the realty to such an extent that the conditional seller has no right to remove the buildings and exempt them from a lien filed upon the real estate, by one who had furnished labor and materials in the erection of the

MATERIALS PRICE INDEX IS RISING

Price averages for building materials and metals reached their highest level since the first of the year during the week ending April 29, according to statistics of the Department of Labor.

The building materials index stood at 70.5, compared with 70.2 the previous week and the metal products index at 77.6 compared with 76.8. The index is compiled from wholesale prices and compared with prices for the same commodities in 1926 taken as a base of 100.0.

GASOLINE TAX NETS \$514,000,000

California Income Ranks Second in National Totals

State gasoline and motor fuel taxes and licenses for the sale of gasoline yielded a total revenue of more than \$514,000,000 in 1932, according to reports collected from State authorities by the Bureau of Public Roads, U. S. Department of Agriculture. More than 14 billion gallons furnished power for motor vehicles. The tax was at an average rate of 3.6 cents per gallon. Consumption of gasoline declined 7.5 percent from the previous year. Delaware and Maryland were the only States reporting increased consumption.

The total revenue was allocated as follows: To State highways, \$301,788,231; to local roads, \$94,073,954; to State and county road bond payments, \$50,726,362; to city streets, \$16,776,050; to costs of collection and administration, \$2,832,820; and to other than highway purposes, \$47,941,483.

California reported \$36,128,854 income from a three-cent tax on 1,204,295,149 gallons. This is second only to New York's total of \$42,580,593 income from the same rate of taxation. The decline in California from 1931 consumption was 9.4 percent and in New York 2.8 percent.

SAN ANSELMO PERMITS

Building Inspector Chas. H. Cartwright reports two permits issued in San Anselmo during the month of April for work valued at \$3500.

M'DONALD - KAHN GIVEN \$359,000 JAIL CONTRACT

Electrical and Mechanical Also Awarded; Equipment Bids Held

MacDonald and Kahn yesterday were awarded the contract for construction of the San Francisco county jail at Sneath Ranch, San Mateo county.

Their bid was \$359,953, the low figure when proposals were opened for the second time last Friday after the original bids had been rejected.

Awards were made yesterday by the Board of Public Works also on the mechanical and plumbing contract at \$135,404 and electrical work at \$57,690. Both contracts were given to the Alta Electric and Mechanical Company, low bidder.

Bids on the equipment contract were held under advisement pending a final decision as to alternates to be selected.

SUPPLY PURCHASES FOR FOREST CAMPS MADE AT ISLE BASE

Location of the National Forest Service Supply Depot at Government Island will center \$2,000,000 in annual supply purchases in the bay district, it is estimated.

The purchasing headquarters of the forestry service formerly were located at Ogden, Utah. They are installed now in the new office building erected on Government Island. Warehouses also have been completed at the island.

Frank Haynie, supply office, who formerly was at Ogden is in charge of the purchasing department.

A substantial portion of the supplies for the forest service throughout the United States are purchased through Haynie's office. Bids are called here on all items that can be grouped for different forest areas. The orders are then placed for shipment to various points direct from the factory.

At present the headquarters is swamped with work in providing supplies for the forest conservation camps, including barbed wire, telephone wire and tools. Purchases through the Oakland office will be considerably expanded over the volume formerly handled at Ogden, Haynie said.

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COAST PERMIT TOTAL IN APRIL IS \$5,039,510

Building Activity at Level of Last Month, Straus Survey Shows

Building permit totals for the Pacific Coast in April were approximately the same as for March, according to the S. W. Straus & Co. compilation issued yesterday. This survey covers principal municipalities in the coast states, Arizona, Utah, Nevada and Idaho.

The total for April is \$5,039,510, compared with \$5,243,070 in March. The California total is \$4,511,314, compared with \$4,754,798.

The first five cities in order are:

Los Angeles	\$1,189,926
Long Beach	1,072,605
San Francisco	538,112
Beverly Hills	286,310
San Diego	194,622

Re-construction of earthquake damage at Long Beach accounted for this city's total. More individual permits were issued by Long Beach than any other city reporting, the total being 1695, compared with 1635 for Los Angeles. The city of Compton, where damage from the earthquake was very heavy, reported only \$67,357 in permits.

Totals in San Francisco and Oakland were about the same as in March.

GUNITE TRADE NAME UPHELD BY COURT

Cement Gun Company, Inc., of Allentown, Pa., has obtained a court order in Los Angeles county restraining Ed Westberg, plaster-in contractor, from designating a machine of his manufacture as a cement gun and its product as Gunite. Judge Leon R. Yankwich, who granted the injunction refused to give judgment against Stanton-Reed Company for damages because Westberg fulfilled a sub contract calling for Gunite.

FOREST SERVICE ASKS TRUCK BIDS

A call for bids on rental of trucks to be used at points throughout California in connection with the Federal Forest Conservation camps was issued yesterday by the United States Forest Service, San Francisco.

The forest service requirements will demand virtually all small trucks available for hire in the state, it was estimated. Bids are asked on 1/2-ton stake side trucks; 1/2-ton dump trucks and half-ton pick-up trucks. The proposals will be received up to May 19 at 2 P. M.

Awards to the Ford Motor Co. of contracts for purchase of 210 trucks of the same classes were announced yesterday. The awards aggregate approximately \$117,000.

SEEK LOAN FOR YOSEMITE ROAD

Modesto Association Would Build Toll Highway to Valley

Modesto-Yosemite Valley Cut-off Association has filed a new application with the Reconstruction Finance Corporation for a loan to finance the proposed cut-off toll road into the valley.

The association is a semi-public body, composed of business and professional men and civic leaders of Modesto, and supported by the Chamber of Commerce.

According to the engineering survey of the road made in 1930, the road would start in eastern Stanislaus county near La Grange and connect with the All-Year Highway in Mariposa county near Briceburg. At that time the estimated cost of the road was \$1,724,550.

A new factory building, 260 feet by 62 feet has been erected in Essex, England, by a large Czechoslovak shoe manufacturing company. Electric arc welding has been used throughout.

COAST SURVEY REPORTS NEW DATA ON QUAKE

Direction of Motion Studied by Engineers to Aid Designers

Studies of ground motions made by the United States Coast and Geodetic Survey during the Southern California earthquake of March 10 are to be published for the information of architects and engineers, it is reported in Washington.

Some previously unknown facts about the movement of the earth during a quake were learned from the records made on March 10, according to Frank Neumann of the coast survey.

The records show, Neumann said that there was a very strong up-and-down or vertical motion of the ground at Long Beach during the March 10 earthquake as well as a sidewise or horizontal motion. There were really two distinct vertical motions, one a slow rise and fall of the ground, and the other a very rapid up-and-down tremor. It is quite likely, he explained, that the fast tremors may have crumbled the mortar between the bricks of buildings so that the walls were more easily shaken down by later shocks, a possibility that is important to engineers.

The records also showed that engineers must strengthen buildings against the vertical motion of earthquakes as well as the horizontal motion, which up to now had been considered more important. It was found the vertical motion was comparable in intensity to the horizontal.

The ground moved in almost every direction before the earthquake was over, it was found, with the movement becoming increasingly complex, the longer the shock lasted.

MAY BUY PLANT

Galt chamber of commerce has appointed a committee to investigate the possibilities of a municipally-owned and operated light and power plant. The chamber also is considering plans for a municipal water system.

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ENGINEER'S CONSULTATION FREE

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AWARD TO SECOND BIDDER URGED BY L. B. EXCHANGE Elimination of Bid-Peddling Is Claimed by Advocates of Change

Award of contracts to the second lowest bidder is advocated in a resolution prepared and adopted by the Long Beach Builders' Exchange.

Following is the text of the resolution:

WHEREAS, Believing that the time has arrived for changes in building regulations in the State of California in order to provide a better class of construction adequate to meet and resist earthquake shocks and provide safety and protection to life and property, the Builders' Exchange of Long Beach advocates the adoption of every possible measure that will provide this protection, and

WHEREAS, Recent events demonstrate that forms of construction can be adopted that will provide a minimum of loss and damage with little additional costs in the use of proper forms and material in construction, and

WHEREAS, We not only favor and urge immediate action by changes in building codes and regulations to meet this ever present menace to life and property, but we urge changes in the present methods of awarding contracts that tend to demoralize the construction industry and foster cheap construction, and

WHEREAS, We believe that many of the evils existing in this industry and a higher standard of construction could be had by awarding contracts to the next to low bidder, thereby giving an incentive to contractors to bid jobs at their actual value and worth, and

WHEREAS, We believe the adoption of such a change in awarding contracts would not only result in better construction, but would give the property owner value received for his money and to a large degree prevent bid-peddling and many other unethical practices now existing, and

WHEREAS, We believe it is within the province of State, County and Municipal bodies to declare, in seeking competitive bids, that the next to low bid will be considered as the low responsible bid without the necessity of changing existing laws or ordinances to meet this requirement.

THEREFORE BE IT RESOLVED That we sponsor the adoption of such a change in the award of all contracts, both public and private and that copies of these resolutions be furnished the Press; The California State Builders' Exchange The State Architects Association; The Associated General Contractors; The Building Congress of the State Chamber of Commerce; The State Division of Architecture; The County Board of Supervisors; The State Board of Education; The American Society of Engineers and our local City Council and Board of Education.

Architects Institute Endorses Nashville Plan For Protection of Sub-Contractors

A plan to eliminate price cutting in the building industries, prepared by a joint committee of the American Institute of Architects and the Associated General Contractors, is announced by Frank C. Baldwin, secretary of the Institute.

Determined and co-operative action is the main requisite for success of the proposal, which is to be known as the Nashville plan, according to W. F. Creighton, chairman of the Building Contact Committee of the Associated General Contractors. Mr. Baldwin urges members of the American Institute of Architects to register approval or objections with William Stanley Parker of Boston, chairman of the Institute's committee on joint building practices.

The Nashville plan, Mr. Creighton discloses, has been successfully operated in the Nashville, Tenn., section for more than a year and "is satisfactory to buyer and seller." He declares it will be even more effective when business improves, pointing out that it would be "extremely simple" to effect organizations in cities, both large and small, to enforce the plan.

"We may not expect an increase in building construction until members of the industry and the public are convinced that building costs are stable," says Mr. Creighton. "It may seem that there is no demand for construction, but the past has shown that when capital is convinced that prices have reached bottom, it seeks investment."

The chief feature of the Nashville plan is that every general contractor must submit a sealed list of the names of the subcontractors he has used to some agency acceptable to both buyer and seller. No general contractor is excluded, all having equal opportunity.

"If the contractor submits the list," Mr. Creighton explains, "and agrees to other simple terms of their bidding practice, he is given every consideration. But if he will not agree, he does not receive a bid from any member of the subcontractors' organization. If he should secure the contract, none of them will accept any work from him.

"If the subcontractor cuts his price, or accepts work from a general contractor who does not subscribe to the plan, he is expelled from the organization and the general contractors do not request future bids from him."

The result of a year's operation of the plan in Nashville, according to Mr. Creighton, has shown the contractor that he must add a profit to his estimate, since he cannot earn a profit under the new regulations by trading and peddling sub-bids. The subcontractor must quote his best price because he will have no opportunity to reduce it.

"It does not interfere with the existing relationship between individual subcontractors and gen-

eral contractors," Mr. Creighton continues. "Since prices are not made public, a subcontractor is not bound to give every general contractor the same price.

"If he has learned from past experience that a general contractor co-operates with him in the execution of his work, pays him promptly, and is solvent, he may quote him a lower price than others. To prevent collusion between members of the trade, a joint committee is empowered to check prices which are excessive and has authority to require the trade involved to reduce the price to a proper figure, or permit the general contractor to take any steps he desires to do so."

Virtually all responsible subcontractors in the tested Nashville territory are members of the organization, and sales managers of many nationally used materials and specialties encourage their local representative to co-operate. Under these circumstances, Mr. Creighton finds, it is extremely difficult—if not impossible—to finish a commercial building of any magnitude without the help of the subcontractors.

"To reach any proper solution of the so-called bid peddling evil," Mr. Creighton concludes, "it should be realized that the seller, as well as the buyer, is responsible. To conclude that the general contractor, subcontractor, jobber, or manufacturer, is solely to blame; or that any single element of the building industry—including the architect—may correct this evil, is a mistake."



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Accidents Cost Painting and Decorating Industry \$1,090,640 In Five-year Period

The following article is published in cooperation with the California State Builders' Exchange committee on accident prevention which is sponsoring Safety Month for the construction industry.

By Edgar N. Goldstine
State Safety Engineer

No one wants to get hurt. Nor does a contractor care to have his men injured. Yet bosses and employees frequently do not realize what needs to be done in the interest of safety. It is true that an accident is an unforeseen occurrence insofar as those who get hurt are concerned. But experienced safety engineers and informed workmen could in many instances predict what was going to happen if they would closely inspect the working conditions.

The actual figures for losses paid for a single trade in the state of California for the years 1926 to 1930 inclusive bring out some interesting facts. In the workmen's compensation insurance classification of Painting—Shop, with payrolls of \$4,753,000 there was not a single serious injury (defined as one in which the compensation award exceeds \$12.50) and only 40 accidents with total incurred losses for compensation award and medical expenses of \$18,248. Under Painting and Decorating, with a payroll of \$42,305,300 there were 76 serious cases costing \$317,424; and 1539 additional for which compensation amounted to \$426,672 and medical expense \$346,544, a grand total of \$1,090,640. For each dollar of wages paid, the corresponding losses were nearly seven times as much for outside painting work as for that inside the shop.

It should be apparent that insofar as using the paint brush is concerned, there should be little difference between work in the shop and elsewhere. The real danger outside consists of falling from scaffolds and ladders, stumbling, stepping on nails, falling objects, and similar hazards which are seldom present in the shop. Men need to recognize how these perils may be minimized so that their tasks may be safely completed.

The source of greatest jeopardy on the average construction job is to be found in the scaffolding. The experienced safety engineer immediately observes that planks are usually placed on excessive spans for the loads to be imposed upon them, and are frequently of a very poor grade of lumber. Only too often a single plank is used when two should be the minimum. Back guard rails may not be needed frequently, but when a man loses his balance and finds one there to protect himself from a fatal drop, the cost of putting it in place is repaid ten thousand times over. Posts are frequently out of plumb and poorly scabbed. Insufficient bracing, inadequate post supports, and

ties to the building are almost the rule rather than the exception. There is no secret to understanding these things. A few simple rules explain most of them. The General Construction Safety Orders of the Industrial Accident Commission prescribe the requirements that should be followed.

Every worker on the building ought to know that the safe span in feet for a sound two inch plank in order to carry one man is equal to its width in inches. In other words, the maximum safe span with a load of one man for a 2x12 plank is 12 feet; for a 2x8 plank 8 feet. Yet all of us have seen 2x12 plank on a 20 foot span. That explains a large percentage of those 76 serious cases mentioned above, for which there were compensation awards that averaged more than \$4000 each. Every building mechanic and laborer ought to know that the safe load for a single nail is eight times its pennyweight size so that an 8-penny nail will carry 64 pounds safely, and a 16 penny nail exactly twice as much. With this information it is easy to check up on the scaffolds to see if they are well nailed.

Of course all ladders need to be amply strong, in good condition, well placed and carefully used. Every man using a hanging scaffold ought to know how to test it; how to recognize rotten rope; how to place the scaffold hooks safely; and have sufficient judgment to provide the necessary back railing.

A full appreciation of work hazards will automatically bring the correct solution of the safety problem. As a constant reminder, safety posters should be freely used. Foremen should give the required instructions and then follow thru with the supervision that will get their orders completed. There will be a reduction in the number and severity of accidents just as soon as everyone knows how their work may be planned for safety.

PHILIPPE NAMED VISALIA MANAGER

J. J. Philippe has been appointed city manager of Visalia, one of three new city officials named by the recently-elected council. Philippe was distribution manager for the Pittsburgh Plate Glass Company prior to engaging in ranching near Visalia, and later in business in the city.

N. A. Huth, civil engineer of Visalia and former deputy county surveyor, has been appointed city engineer.

\$22,000,000 BONDS POSTED BY BAY BRIDGE BUILDERS

Many Surety Companies Write Guarantees For Six Firms

Contractors on the six major sections of the construction of the San Francisco-Oakland Bay Bridge have successfully posted more than \$22,000,000 of surety bonds, it was announced Saturday by State Director of Public Works Earl Lee Kelly. This requirement was made in accordance with the rule that sureties must be posted within eight days of the award of contracts.

Almost every surety company permitted to do business in the State of California was represented on the six contracts. In some cases individual contracts had as many as ten sureties listed. Among the surety companies represented were:

Fidelity and Deposit Company of Maryland.

Hartford Accident and Indemnity Company.

United States Fidelity and Guaranty Company.

The Aetna Casualty and Surety Company.

Massachusetts Bonding and Insurance Company.

New Amsterdam Casualty Company.

Maryland Casualty Company.

Firemen's Fund Indemnity Company.

Indemnity Insurance Company of North America.

Standard Accident Insurance Company.

Standard Surety and Casualty Company of New York.

Glens Falls Indemnity Company.

Royal Indemnity Company.

Globe Indemnity Company.

American Surety Company.

Pacific Indemnity Company.

Fidelity and Casualty Company of New York.

Governor James Rolph, Jr. has called a meeting of the California Toll Bridge Authority for Monday afternoon.

Chief Engineer C. H. Purcell was delayed in Washington by further details relating to the requisition of first construction funds from the R. F. C. and is now scheduled to return to San Francisco in the middle of this week.

STOCKTON PAINTERS REDUCE PAY SCALE

Reduction in the union wage scale for a sixty-day period from May 1 has been effected in Stockton through an agreement between painting contractors and the union according to Joe Palmer, chairman of the painters' scale committee.

The new scale is \$6 per day. The former scale was \$8. An increase in employment is reported since the reduction was effected.

PERMITS AND CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
258	Hansen	Sangiaco	7000
259	Quinn	Barrett	4000
260	Elkington	Owner	2000
261	Battersby	Lindsay	2900
262	Gulsto	Frank	3350
264	Rainier	Lindgren	3000
263	Protestant Bishop	Owner	8000
265	Steen	Longfellow	1450
266	Lambertsen	Owner	2000
267	Sherman	Horn	4000
268	Bluett	Blincoe	4000
269	Mehlinger	Owner	4500
270	Roosevelt	Owner	2800
271	Moore	Mullen	1855
272	Padilla	Owner	1500
273	Johnson	Owner	4000
274	Bohemian	Dinwiddie	450000
275	Shasta	Coburn	1000

FLATS

(258) W LEAVENWORTH 82 S North Point St. One-story and basement frame (2) flats.
Owner—Mrs. K. Hansen, 736 Bay St., San Francisco.
Plans by L. Dallarso, 32 Jansen St., San Francisco.
Contractor—A. Sangiacomo and C. Ghezzi, 422 9th Ave., San Francisco. \$7000

STORE

(259) 634-636 HAIGHT ST. Store under flats.
Owner—F. J. Quinn, % Contractor.
Architect—W. E. Huson, 1913 Green St., San Francisco.
Contractor—Barrett & Hilp, 918 Harrison St., San Francisco. \$4000

FACTORY

(260) S SOUTH PARK 122 W Thrd. Two-story frame factory.
Owner—J. B. Elkington, % 1291 33rd Ave., San Francisco. \$2000
Architect—Not Given.

DWELLING

(261) E VIENNA 350 N Russia Ave. One-story and basement frame dwelling.
Owner—G. M. Batterby, 1731 San Jose Ave., San Francisco.
Architect—Not Given.
Contractor—B. C. Lindsay, 182 Oxford St., San Francisco. \$2900

DWELLING

(262) E ELLSWORTH ST. 25 S Eugenia. One-story and basement frame dwelling.
Owner—C. Gulsto, 197 Anderson St., San Francisco.
Architect—Not Given.
Contractor—C. Frank, 305 Bocana St., San Francisco. \$3350

ALTERATIONS

(261) TWELFTH and Bryant Sts.; alter brewery.
Owner—Rainier Brewery, 12th and Bryant Sts.
Engineer—L. Rosener, 233 Sansome.
Contractor—Lindgren and Swinerton, Inc., Standard Oil Bldg. \$3000

REPAIRS

(263) S CALIFORNIA ST., between Fillmore and Steiner Sts. Repair fire damage and alter church.
Owner—Protestant Episcopal Bishop of California, 2462 California St., San Francisco.
Architect—H. Constable, 580 Market St., San Francisco.
Engineer—K. Theill, 580 Market St., San Francisco. \$3000

ALTERATIONS

(265) 962 MARKET ST.; alter restaurant.
Owner—H. Steen and J. R. Davis, 962 Market Street.
Plans by L. Roselyn, 985 Monterey Blvd.
Contractor—Longfellow and Schuster, 280 Wawona. \$1450

DWELLING

(266) SE SILVER AVE. 58 N Dartmouth; one - story and basement frame dwelling.
Owner—V. Lambertsen, 525 Prentiss.
Architect—Not Given. \$2000

DWELLING

(267) W ALEMANY 85 S Cotter St. One-story and basement frame dwelling.
Owner—Dr. C. R. Sherman, 107-A Brazil St., San Francisco.
Architect—Not Given.
Contractor—J. Horn, 5044 Mission St., San Francisco. \$4000

DWELLING

(268) S NINTH AVE 66 W Mesa St. One-story and basement frame dwelling.
Owner—I. J. Bluett, 2663 15th Ave., San Francisco.
Architect—S. A. Colton, 544 Market St., San Francisco.
Contractor—C. O. Blincoe, 2663 15th Ave., San Francisco. \$4000

ALTERATIONS

(269) NO. 149 POWELL ST. Alter studio for cafe.
Owner—A. H. Mehlinger, 849 Mission St., San Francisco.
Architect—Not Given. \$4500

RESTAURANT

(270) NE FIFTH AND MISSION. Restaurant under hotel.
Owner—Roosevelt Coffee Co., Prem.
Architect—Not Given. \$2800

ALTERATIONS

(271) NO. 233 GEARY ST. Alter store.
Owner—F. Moore, 285 Geary St., San Francisco.
Plans by Contractor.
Contractor—Mullen Mfg. Co., 60 Rausch St., San Francisco. \$1885

ALTERATIONS

(272) NO. 1383 NINTH AVE. Alter store and dwelling.
Owner—R. Padilla, 458 Brannan St., San Francisco.
Architect—Not Given. \$1500

DWELLING

(273) W SEVENTEENTH AVE 33 N Wawona. One-story and basement frame dwelling.
Owner—S. F. Johnson, 2601 17th Ave., San Francisco.
Architect—F. Amandes, 1879 18th Ave. San Francisco. \$4000

CLUB BLDG.

(274) NE POST AND TAYLOR STS. Class A club building.
Owner—Bohemian Club.
Architect—L. P. Hobart, Crocker Bldg. San Francisco
Engineer—W. P. Day, Financial Center Bldg., San Francisco.
Contractor—Dinwiddie Construction Co., Crocker Bldg., S. F. \$450,000

REPAIRS

(275) NO. 2826 SACRAMENTO ST., Repair fire damage to apartments
Owner—Shasta Home Association. % Contractor.
Architect—Not Given.

Contractor—I. W. Coburn, 2048 Market St., San Francisco. \$1000

ALAMEDA COUNTY

148	Cole	Walker	5000
149	Alaska	Duncanson	11600
150	Alaska	Kitchen	42500
151	Auerbach	Confer	6500
152	Harwood	Owner	3800
153	Richfield	Early	2000
154	Murphy	Kopf	1490
155	Taylor	Owner	1000
156	Swanfeldt	Owner	2200
157	Grant	Owner	6000
158	Anderson	Waldman	3000
159	Williams	Smith	1200

DWELLING

(148) NO. 494 CRAGMONT AVE., BERKELEY. Seven - room one-family dwelling.
Owner—W. C. Cole, 611 Euclid Ave., Berkeley.
Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.
Contractor—J. M. Walker, 1709 Grove St., Berkeley. \$5000

WHARF

(149) NORTH END JAY ST., ALAMEDA. Construct timber wharf, 122x36 feet, wood piles and planking.
Owner—Alaska Packers Association, Premises.
Plans by Owner.
Contractor—Duncanson & Harrelson, deYoung Bldg., San Francisco. \$11,600

REPAIRS

(150) NORTH END JAY ST., ALAMEDA. Repair floor of dock.
Owner—Alaska Packers Association, Premises.
Architect—Not Given.
Contractor—A. W. Kitchen, 110 Market St., San Francisco. \$42,500

(151) 6150 MARGARIDO DR., OAKLAND; one-story 6-room dwelling.
Owner—M. Auerbach, City Hall, Oakland.
Architect—E. L. Snyder, 2100 Shattuck Ave., Berkeley.
Contractor—F. W. Confer, 5230 Keith Ave., Oakland. \$6500

DWELLING

(152) 3538 BRIGHTON AVE., OAKLAND; one-story 6-room dwelling.
Owner and Builder—Wm. P. Harwood 3514 Lyon Ave., Oakland.
Architect—Not Given. \$3800

GARAGE, ETC.

(153) W 46th AVE. 400 N Clement St., OAKLAND; one-story garage and loading rack and retaining walls.
Owner—Richfield Oil Co., 248 Battery St., San Francisco.
Architect—Not Given.
Contractor—Fred J. Early, Jr., 369 Pine St., San Francisco. \$1000 each

ADDITIONS

(154) NO. 2312 CENTRAL AVENUE, ALAMEDA. Additions to frame building.
Owner—G. W. Murphy, 2312 Central Ave., Alameda.
Architect—Not Given.
Contractor—Ben Kopf, 846 Pacific Ave. Alameda. \$1490

DWELLING
(155) NO. 4033 COOLIDGE AVENUE, OAKLAND. One-story four-room dwelling.
Owner—W. H. Taylor, 4033 Coolidge Ave., Oakland.
Architect—Not Given. \$1200

DWELLING
(156) NO. 6005-07 E-FOURTEENTH ST., OAKLAND. One story 5-room stores and dwelling.
Owner—A. Swanfeldt, 5029 E-14th St., Oakland.
Architect—Not Given. \$2200

DWELLING
(157) NO. 8653 THERMAL AVENUE, OAKLAND. Two-story 8-room 2 family dwelling.
Owner—James Grant, 11 Ramona Ave. San Francisco.
Architect—Not Given. \$5000

DWELLING
(158) NO. 1268 SEVENTY-THIRD AVE., OAKLAND. Two-story six-room dwelling.
Owner—J. W. Anderson, 1264 73rd Ave., Oakland.
Architect—Not Given.
Contractor—A. E. Waldman. \$3000

ADDITIONS
(159) NO. 131 ALVARADO ROAD, BERKELEY. Additions.
Owner—E. C. Williams, Premises.
Architect—Not Given.
Contractor—Geo. Smith, 835 51st St., Oakland. \$1200

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
55	Emperium	Nelson	5742
56	Giusto	Frank	3350
57	Depaoli	Lindsay	3150
58	Depoall	Lindsay	3150

ALTERATIONS
(55) LOCATION NOT GIVEN.. All work for furnishing and installing heating and ventilating equipment in connection with the construction of new warehouse building, new basement building and alterations and additions to present Hulse-Bradford and Red Cross Warehouse Buildings.
Owner—The Emperium, 835 Market St., San Francisco.
Engineers—Leland & Haley, 58 Sutter St., San Francisco.
Contractor—James A. Nelson, Inc., Tenth and Heward Sts., S. F.
Filed May 5, '33. Dated May 1, '33. On or about 1st of each month 75% Upon completion, such additional payments as will bring total payments up to..... 75% Usual 35 days..... 25%
TOTAL COST, \$5742
Bond, \$5742. Surety, United States Guarantee Co. Limit, June 1, 1933. Forfeit, none. Plans and specifications filed.

DWELLING
(56) E ELLSWORTH 75 S Eugenia Ave. E 70 x S 25; all work on 1-story frame structure containing six living rooms, main basement and sub-basement.
Owner—Caterina Giusto, 207 Ellsworth Street.
Architect—Not Given.
Contractor—Carl Frank Co., 305 Bohanna Street.
Filed May 5, '33. Dated May 4, '33.
When roof is on.....\$1000
When brown coated 1000
When building completed 1000
Usual 35 days 350
TOTAL COST, \$3350
Limit, 90 days. Plans and Specifications filed.

COTTAGE
(57) LOT 37 BLK 6795-C, Alemany Terraces. All work for five-room and breakfast room cottage with full basement.
Owner—L. and Josephine T. Depaoli, 550 Lake St., San Francisco.
Architect—Not Given.
Contractor—Claude T. Lindsay, 4363 26th St., San Francisco.
Filed May 10, '33. Dated Mar. 29, '33.
Tar and gravel roof on.....\$750
Brown plaster on..... 750
Notice of completion filed..... 750
Usual 35 days..... 900
TOTAL COST, \$3150
Bond, none. Limit, 75 days. Forfeit, none. Plans and specifications filed.

COTTAGE
(58) LOT 36 BLK 6795-O Alemany Terraces. All work for five-room and breakfast room cottage with full basement.
Owner—L. and Josephine T. Depaoli, 550 Lake St., San Francisco.
Architect—Not Given.
Contractor—Claude T. Lindsay, 4363 26th St., San Francisco.
Filed May 10, '33. Dated Mar. 23, '33.
Tar and gravel roof on.....\$750
Brown plaster on..... 750
Notice of completion filed..... 750
Usual 35 days..... 900
TOTAL COST, \$3150
Bond, none. Limit, 75 days. Forfeit, none. Plans and specifications filed.

ALAMEDA COUNTY

21 Foulkes Shearer 1220

REMODELING
(61) NO. 419-423 FIFTEENTH ST., Oakland. All work for remodeling building.
Owner—Edward T. Foulkes, 357 12th St., Oakland.
Plans by Owner.
Contractor—Edward Shearer, 402 37th St., Oakland.
Filed May 9, '33. Dated May 8, '33.
As work progresses..... 75%
Usual 35 days..... 25%
TOTAL COST, \$1220
Bond, \$1220. Surety, Fidelity & Deposit Co. Limit, 30 days. Forfeit, none. Plans and specifications filed.

SAN FRANCISCO UNDER \$1000

FLUES (4) patent, \$125; N West Portal 170 W 14th Ave.; owner, Mrs. F. Nelsen; contractor, G. A. Rege, 1609 Powell St.
ALTER flat, \$250; 1014 Masonic Ave.; owner, J. Pappas, 1016 Masonic.
SIGN, electric, \$250; Polk St. and Broadway; owner, Associated Oil Co., Premises; contractor, Elec. Products Corp., 255 Golden Gate.
ADDITION to flats, \$800; 925 Filbert St.; owner, F. Casella, 925 Filbert St.; contractor, Masarie & Cuneo, 1285 Union St.
BARBER pole, \$25; 731 Market St.; owner, M. Zimmler, 731 Market St.
SIGN, electric, \$250; 580 Market St.; owner, Finance Bldg., Premises; contractor, Elec. Products Corp., 255 Golden Gate Ave.
SIGN, electric, \$400; 972 Market St.; owner, R. A. Smith, Inc., 972 Market St.; contractor, Elec. Prods. Corp., 255 Golden Gate Ave.
ALTER store and dwelling, \$500; 1461 Grant Ave.; owner, A. Petri, 1010 Lombard St.; contractor, L. Franceschi, 127 Diamond St.
ALTER restaurant, \$250; 2092 Third; owner, Mrs. E. Aimo, Premises; contractor, G. Cappelletti, 1020 Florida St.
ALTER ice cream parlor, \$200; 2400 Bryant St.; owner, V. Sambada, 5 Somerset St.; contractor, G. Cappelletti, 1020 Florida St.
SIGN, cloth, \$20; 740 Market Street; owner, J. Harband, Premises;

contractor, L. Goldberg, 1085 Golden Gate Ave.
ALTER dwelling, \$400; 17 Abbey St.; owner, E. C. Squerl, 25 Abbey St.; contractor, J. Oliva, 542 Vienna St
GARAGE under dwelling, \$150; 1638 Oakdale; owner, F. Choino, % Contractor; contractor, E. Lombardi, 1218 Hollister St.
ALTER store, \$200; NE 24th and Hampshire Sts.; owner, C. McHornung, 295 Fell St.
ALTER market, \$400; SE Polk and Sutter Sts.; owner, Lester & Lester, 1161 Market St.
ALTER dwelling, \$500; 1529 Dolores St.; owner, J. P. Lyons, 1529 Dolores; contractor, P. J. Phelan, 1529 Dolores.
REPAIR fire damage to flats, \$110; 261 14th St.; owner, Mrs. Howard, 259 14th St.; contractor, I. W. Coburn, 2048 Market St.
ALTER store, \$325; 719 Golden Gate Ave.; owner, O. H. Curtaz, 5 Parnassus Ave.; contractor, C. S. Delaney, 1715 Eddy St.
ALTER garage, \$300; 8 Masonic Ave.; owner, E. Cavallero, Premises.
ALTER offices, \$250; 101 Post St.; owner, Harris Steinmeyer, % Contractor; contractor, E. Rosemont.

ALAMEDA COUNTY UNDER \$1000

SIGN, electric, \$250; NW E-14th and High Sts., Oakland; owner, Associated Oil Co.; contractor, Elec. Prod. Corp., 950 30th St.
SIGN, electric, \$75; 1405 23rd Ave., Oakland; owner, H. A. Schmidt; contractor, Ace Elec. Sign Co., 1243 E-12th St.
REPAIRS, \$156; 1909 100th Ave., Oakland; owner, Antonio Power, 1909 100th Ave.
ALTERATIONS, \$250; 2034 Broadway, Oakland; owner, R. H. Cross, Mills Bldg., San Francisco; contractor, C. E. Banks, 4129 Randolph Ave.
WRECK building, \$60; 364 24th St., Oakland; owner, V. Devincenzi, 566 Radnor Road; contractor, R. J. Barr, 596 Chetwood St.
SIGN, electric, \$75; 2430 San Pablo Ave., Oakland; owner, Nick Zetos contractor, Radiant Neon Display 2561 San Pablo Ave.
ALTERATIONS \$250; 2633 Regent St., Berkeley; owner, L. M. Grigsby, 2368 Le Conte Ave., Berkeley; contractor, C. E. Grigsby.
DWELLING, one-story 2-room, \$500; 3135 E-27th St., Oakland; owner, W. Osterman, 3468 Brookdale Ave.
ALTERATIONS, \$280; 2258 62nd Ave., Oakland; owner, S. Roach, 2258 62nd Ave.
SIGN, electric \$30; 3232 Lakeshore Ave., Oakland; owner, Lakeside Cafe; contractor, Imp Elec. Sign Co., 2228 Myrtle St.
GARAGE, 1-story, \$450; 6331 Chabot Road, Oakland; owner, G. Bannock, Premises; contractor, Leslie C. Dawe, 449 Coventry Road, Berkeley.
ALTERATIONS and addition, \$190; 4944 Mountain Blvd., Oakland; owner, Jenning Pierce, Prem.
ALTER store front, \$150; 2327 San Pablo Ave., Oakland; owner, J. P. Perte, 728 Lake Park Ave.; contractor, O. Legault, 96 Montell Avenue.
GARAGE, one-story, \$80; 534 E-17th St., Oakland; owner, M. Clausen, Premises.
ALTERATIONS, \$180; 2803 Woolsey St., Berkeley; owner, J. B. Barlow, Premises; contractor, W. H. Verbisia, Richmond.
ALTERATIONS, \$490; 1207 Fruitvale Ave., Oakland; owner, J. Meyer, 1207 Fruitvale Ave., Oakland; contractor, J. B. Petersen & Son, 4021 Agua Vista Ave., Oakland.
ALTERATIONS, \$200; 2724 College Ave., Berkeley; owner and contractor, L. Olsen, Concord.

BUILDING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

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| 1.—Apartments | 11.—Ice and Cold Storage Plants |
| 2.—Bonds | 12.—Power Plants |
| 3.—Churches | 13.—Public Buildings, Fire Houses and Jails |
| 4.—Factories and Warehouses | 14.—Residences |
| 5.—Flats | 15.—Schools |
| 6.—Garages and Service Stations | 16.—Banks, Stores and Offices |
| 7.—Federal Buildings | 17.—Theatres |
| 8.—Club Buildings | 18.—Wharves & Docks |
| 9.—Hospitals | 19.—Misc. Const. |
| 10.—Hotels | 20.—Misc. Supplies & Materials |

1—APARTMENTS

Sub-Contract Awarded.
APTS. & STORES Cost, \$10,000
SAN FRANCISCO. Fourteenth St. (south of Market St.)
 Two-story frame and stucco apartments and stores (4 apts.; one store) Pabco roof, Arcola heating system, canvas walls, hardwood floors, etc.
 Owner—Mr. Barry.
 Plans by Owner.
 Contractor—Robt. McCarthy, 1363 14th Ave., San Francisco.
Lumber—Sudden Lumber Co., Evans and Quint Sts.
Concrete—D. O'Connor & Son, 1367 25th Ave.

Bids are wanted on plumbing, heating (steam) plastering, sheet metal and electric wiring.

Lighting Fixture Contract Awarded.
REMODEL APTS. Cost, \$12,000
SAN FRANCISCO. NE Bush St. and Powell Street.

Remodel five-story and basement concrete apartment building (new plumbing, wiring and heating, tile work, painting, hardwood floors, linoleum, ranges, etc.)
 Owner—Samuel Gerson.

Architect—S. Helman, 655 Market St., San Francisco.

Lighting Fixtures—Incandescent Supply Co., 726 Mission St.
 Other awards previously reported.

2—BONDS

SAN MATEO, San Mateo Co., Cal.
 —Until May 15, 8 P. M., bids will be received by E. W. Foster, city clerk, for the sale of \$8726.30 in improvement bonds for Palm Ave. improvement. Certified check 10% required with bid.

3—CHURCHES

Planned.
CHURCH Cost, \$—
TURLOCK, Stanislaus Co., Cal. Third and A Streets.
 Reinforced concrete church (48x96-ft.) to seat 475.
 Owner—Pentecostal Mission Church (John C. Nelson, pastor) Turlock.
 Architect—Not Given.
 H. Johansen, chairman of building committee.

Contract Awarded.
SUNDAY SCHOOL Cost, \$10,000
TURLOCK, Stanislaus Co., Cal. South Broadway and A Street.
 One and one-half-story frame and stucco Sunday school and social hall (flat roof, part oak floors,

heating system; type not determined).
 Owner—Methodist Episcopal Church (Rev. Verne C. Brown, Pastor), Turlock
 Architect—G. N. Hilburn, 1312 I St., Modesto.
 Contractor—H. A. Hubbard, Turlock.

Contract Awarded.
CHURCH Cost, \$3000
RENO, Washoe Co., Nevada. No. 333 East Eighth Street.
 One-story frame and stucco church (45x35 ft.)
 Owner—Church of the Nazarene.
 Architect—Not Given.
 Contractor—Joe Tognoni, Reno.

Segregated Bids Being Taken.
REBUILD Cost, \$8500
SAN FRANCISCO. No. 2475 California Street.

Rebuild structure recently destroyed by fire for frame gymnasium.

Owner—St. Paul's Episcopal Church (Rev. Leslie C. Kelly, Pastor).
 Architect—Arnold Constable, 580 Market St., San Francisco.

Segregated bids are being taken as follows:

- Carpenter labor.
- Plastering.
- Plumbing and electrical work.
- Roofing and sheet metal.
- Painting.

4—FACTORIES & WAREHOUSES

May 11, 1933
 Contract Awarded.
PLANT Cost, \$2300
ALAMEDA, Alameda Co., Cal. Buena Vista Ave. near Webster St.
 One-story concrete and brick veneer printing plant (30x60 ft.); wood joists, shingle roof.
 Owner—Alameda Printing Co., Eagle and Webster Sts., Alameda.
 Plans by W. W. Dixon, 1844 Fifth Ave., Oakland.
 Contractor—L. Strong, 429 Haight Ave., Alameda.
 Contract was previously awarded to A. E. Waldman, 4001 Nevil Avenue, Oakland.

Sub-Contracts Awarded.
SHOP & RESIDENCE Cost, \$4000
OAKLAND, Alameda Co., Cal. Fifth Ave. and E-Tenth St.
 Two-story brick and frame shop and residence (4-room residence); flat roof, wood floors, steel sash, etc.
 Owner—E. F. Searle.
 Architect—L. F. Hyde, 705 25th St., Oakland.
 Contractor—Ole Moen, 2660 74th Ave., Oakland.

Lumber—Sunset Lumber Co., 400 High St., Oakland.
Brick—James Walker, 3001 Barrett Ave., Richmond.
Concrete—T. A. Ryan, 5215 Fleming Ave., Oakland.
Electric—E. L. Reed, 2541 Seminary Ave., Oakland.
Plastering—S. V. Meksa, 3818 Quigley St., Oakland.
Plumbing—K. Nelson, 2534 14th Ave., Oakland.
Tile—P. Kooyman, 4235 E-14th St., Oakland.

Steel Work—Herrick Iron Works, 18th and Campbell Sts., Oakland.

Steel and Insulating Cork Awards Made.

ADDITION Cont. Price, \$6800
STOCKTON, San Joaquin Co., Cal. No. 262 N. American Street.

Two-story steel and brick addition to brewery.

Owner—El Dorado Brewery, 626 N. American St., Stockton.
 Architect—Frank Mayo, 21 South San Joaquin St., Stockton.

Contractor—J. F. Shepherd, Shepherd Building, 108 E-Miner St., Stockton.

Steel—Independent Iron Works, 1820 Chase St., Oakland.

Insulating Cork—San Joaquin Lumber Co., Scotts Ave. and Madison St., Stockton.

Cork will be purchased from the Cork Insulation Co. of New York City.

Plans To Be Prepared.
BREW HOUSE Cost, \$80,000
STOCKTON, San Joaquin Co., Cal. No. 626 N. American St.

Concrete and brick brew house.
 Owner—Eldorado Brewing Co. (A. D. Rothenbush), 626 N. American St., Stockton.

Architect—Not Selected.
 The owners are awaiting the arrival of their engineer from the East.

Planned.
PLANT Cost, \$—
ROSEVILLE, Placer Co., Cal. Vernon Street.
 Plant (warehouse, store and office building; 45 ft. display window).
 Owner—Sterling Lumber Co., Roseville (H. F. Duncan, Mgr.)
 Architect—Not Given.

Bids Wanted.
PLANT Cost, \$45,000
VISALIA, Tulare Co., Cal. Ben Maddox Way.

One-story and basement walnut packing plant (120x90 ft.) several mezzanine floors, concrete foundations, basement floor and loading platform, wood frame construction, wood roof trusses, composition roofing, sheet metal, skylights, redwood siding, wood sash, factory grade maple main floor, toilets, etc.

Owner—Sequoia Walnut Growers' Association (Fletcher Ayres, President), Visalia.

Architect—Albert C. Martin, Higgins Bldg., Los Angeles.

Excavation—Orval Jeffers, Porterville

Preparing Preliminary Plans.
BREWERY Cost, \$—
LOS ANGELES, Los Angeles Co., Cal. Santa Fe Ave., bet. 15th and 16th Streets.

Three-story addition to brewery (140 by 160 feet).

Owner—Santa Fe Brewery Co., 518 Pershing Square Bldg., Los Angeles.

Architect—Merrill & Wilson, Petroleum Securities Bldg., L. A.

Plans Being Figured.
REBUILD Cost, \$50,000
MARTINEZ, Contra Costa Co., Cal. Rebuild portions of refinery recently destroyed by fire (bleacher house, steel construction, etc.)
 Owner—Shell Oil Co. (Mr. Day in charge), Martinez.

Plans by Engineering Dept. of Owner.
 Bids are being taken from a selected list of contractors.

Plans Being Prepared.
REMODEL Cost, \$10,000
SANTA ROSA, Sonoma Co., Cal. Remodel Class C winery (new roof, machinery and equipment).
 Owner—Grace Bros., Santa Rosa.
 Engineer—L. H. Nishkian, 525 Market St., San Francisco.

Machinery and equipment will bring the cost of improvements to \$40,000.

Lumber Contract Awarded.
EXTENSION Cont. Price, \$32,831
SAN FRANCISCO. Pier No. 35.
 Eighty-four foot shed extension to Pier No. 35 (wood construction, passenger gallery along side of existing shed; offices, etc.)

Owner—State of California (Harbor Commission).

Engineer—Frank G. White, Ferry Building.

Contractor—Frank J. Reilly, 6359 Fulton Street.

Lumber—Sudden Lumber Co., Evans and Quint Streets.

As previously reported, Kennerson Mfg. Co., 361 Brannan St., at \$5,411 awarded contract for steel rolling doors.

Plans Being Completed.

PLANING MILL Cost, \$—
EMIGRANT GAP, Placer Co., Cal.
 Planing mill, (mill frame construction, galvanized iron cover).

Owner—Tahoe Sugar Cane Pine Lumber Co., Monadnock Bldg., San Francisco.

Engineer—W. H. Beane, Klamath Falls, Oregon.

Construction will be started in about three weeks, by owner's forces.

Sub-Bids Being Taken.

PLANT Cost, \$50,000
SAN FRANCISCO. Washington St.
 Two-story reinforced concrete printing plant.

Owner—Edward Barry Co., 32 Clay St. San Francisco.

Architect—H. A. Minton, 525 Market St., San Francisco.

Engineer—L. H. Nishkian, 525 Market St., San Francisco.

Contractor—David Paganini, 519 California St., San Francisco.

SAN DIEGO, Cal.—San Diego Consolidated Brewing Co., J. H. Zitt, president, Foot of 32nd St., San Diego, has been granted permission by the state corporation commissioner to issue 2769 shares of stock. Funds obtained from the sale of the stock will be used mainly to purchase equipment and machinery to be installed in the company's brewery in San Diego. After improvements have been made the plant will have a capacity of 70,000 barrels of beer annually.

May 5, 1933

Carpentry Contract Awarded.
FACTORY Cost, \$2000
SAN FRANCISCO. S South Park 122 W Second Street.

One-story and mezzanine floor wood frame factory (25x100 ft.); brick veneer exterior, metal skylights, metal sash, cement floor, tar and gravel roof, etc.

Owner—Elkington-Helwig Mfg. Co., 621 Minna St., San Francisco.

Carpentry—George J. Elkington, 1291 33rd Ave., San Francisco.

(1221) 1st report April 18; 2nd April 25, 1933. 4

May 5, 1933

Contract Awarded.
ADDITION Cont. Price, \$6800
STOCKTON, San Joaquin Co., Cal.
 No. 626 N. American Street.

Two-story steel and brick addition to brewery.

Owner—El Dorado Brewery, 626 N. American St., Stockton.

Architect—Frank Mayo, 21 South San Joaquin St., Stockton.

Contractor—J. F. Shepherd, Shepherd Bldg., 108 E. Miner St., Stockton.

LOS ANGELES, Calif.—Gay Engr. Corp., 2650 Santa Fe Ave., is prepar-

ing plans for a new brewery to be erected on a 2½-acre site on Fletcher Dr. near San Fernando Road, for the Schmidt Brewing Co. The plant, which will have a capacity of 100,000 barrels of beer per year, will consist of a cellar building, a brew house and a bottling house. Cost is estimated at \$200,000. The Gay Engr. Corp. will have charge of construction. They are also designing breweries to be built by the Schmidt interests in Olympia, Wash., and in Salem, Ore. Officers of the Schmidt Brewing Co. are: F. W. Schmidt, president; F. T. Schmidt, vice-president; Henry F. Hagemann, treasurer and John B. Peyton, secretary.

Sub-Contracts Awarded.

LAUNDRY Cost. Approx. \$9000
SAN JOSE, Santa Clara Co., Cal. 14th and E-Santa Clara Streets.

One-story reinforced concrete laundry Owner—San Jose Hospital, Premises. Architect—Binder & Curtis, 35 W-San Carlos St., San Jose.

Contractor—Charles A. Thomas, 127 Clayton Ave., San Jose.

Heating, Plumbing and Sheet Metal—A. J. Peters, Tenth and Washington Sts., San Jose.

Electric—Roy M. Butcher, 1020 Sherwood St., San Jose.

Lumber and Mill Work—S. H. Chase Lumber Co., San Jose.

Structural Steel—Schrader Iron Wks. 1247 Harrison St., San Francisco.

Reinforcing Steel—Gunn, Carle & Co., 20 Potrero Ave., San Francisco.

Roofing—California Roofing Co., 72 Fourth St., San Jose.

Painting—Bud Gallichotte, 1077 Delno Court, San Jose.

Glass and Glazing—East Bay Glass Co., 418 S. Market St., San Jose.

Steel Sash—Harold Helwig, W. Santa Clara St., San Jose.

Miscellaneous Steel—Helwig Iron Works, Vine St., San Jose.

Concrete footings are in place. (1121) 1st report April 6; 2nd April 18, 1933. 4

ANAHEIM, Orange Co., Cal.—Lionel Linck, NW Corner of 52nd St. and Santa Fe Ave., Vernon, is preparing plans for alterations to the old Anaheim brewery, and new equipment to be installed in the plant, for the Orange County Brewing Co., A. L. Harlow, representative, Valencia Hotel, Anaheim. F. A. Linck, who is constructing the new brewery at 52nd St. and Santa Fe Ave., Vernon, for the Vernon Brewing Co., will act in an advisory capacity on the Anaheim project. Alterations to the building will cost approximately \$50,000 and the equipment, which will be entirely new, will cost an additional \$100,000. The plant will have a capacity of 200 barrels of beer daily.

Contracts Awarded.

ALTERATIONS Cost, \$15,000
SAN FRANCISCO. No. 5050 Mission Street.

Alterations to brewery. Owner—El Rey Brewing Co. (Mr. Preston).

Architect—Not Given. Tanks—George Windeler Co., Ltd., Eighth and Hooper Sts.,

Refrigerations—Cyclops Iron Works, 837 Folsom St.

Planned.

BREWERY Cost, \$1,250,000
SAN FRANCISCO. Pennsylvania and Army Streets.

Combination brewery, winery and bonded warehouse.

Owner—Thos. W. Costello, et al, San Francisco.

Architect—Not Selected.

Pile driving tests for depth now under way. Permanent offices will be established within one week, at which

time more definite information will be given.

LOS ANGELES, Cal.—Santa Fe Brewery Co., care of Robert A. Horowitz, 448 S Hill St., has incorporated with a capital stock of \$1,000,000 and proposes erecting a brewery, the location of the plant and other details to be announced later. Directors of the company, in addition to Mr. Horowitz are: Frank J. Kashare, Marion C. Johnson, Max Seiff and Al Horowitz. It is understood the company is considering the use of two existing buildings located on Santa Fe Ave. bet. 15th and 16th Sts., and the addition of a 3-story unit, 140x160 ft., to one of the structures.

Contract Awarded.

ALTERATIONS Cost, \$4000
SAN FRANCISCO. 12th and Bryant.

Alterations to brewery. Owner—Rainier Brewery, 12th & Bryant Streets.

Engineer—Leland Rosener, 233 Sansome Street.

Contractor—Lindgren and Swinerton, Inc., 225 Bush Street.

Structural Steel—Western Iron Works 141 Beale Street.

Electrical Contract Awarded.

REMODELING Cost, \$75,000
FRESNO, Fresno Co., Cal. 100 M St.

Remodel five-story concrete and brick brewery (steel frame and mill type construction addition with concrete floors).

Owner—Fresno Beverage Co. (D. H. Swan, W. I. Hollingsworth, et al) 100 M St., Fresno.

Architect—Chas. Butner, Cory Bldg., Fresno and Glikbarg Bldg., Salinas
 Contractor—Fisher & McNulty, Mattei Bldg., Fresno.

Electric—Electric Const. Co., 1323 Fulton St., Fresno.

As previously reported, piping and ammonia work awarded to Valley Foundry & Machine Works, 710 H St., Fresno; plumbing to B. A. Newman, 320 H St., Fresno; lumber to C. S. Pierce Lbr. Co., 403 N H St., Fresno; steel to Kyle & Co., 346 G St., Fresno.

Conveyor Contract Awarded.

MECHANICAL WORK, Etc.
SAN FRANCISCO. Mission St. bet. Fourth and Fifth Streets.

Plumbing, heating, wiring and sprinkler system in connection with warehouse under construction.

Owner—The Emporium, 835 Market. Plans by Engr. Dept. of Owner.

Contractor—K. E. Parker Co., 135 So. Park.

Conveyor—Lamson Co., 611 Howard. Bids are being taken for painting and floor coverings.

Additional Sub-Contracts Awarded.
WAREHOUSE, ETC. Cost, \$52,930
SAN FRANCISCO. Jessie Street bet. Fourth and Fifth Streets.

One-story and basement Class A steel frame and conc. warehouse (100x160 ft.) concrete floors, etc., and two-story steel and wood bridge, and certain alterations to adjoining existing building.

Owner—The Emporium, 835 Market. Plans by Engr. Dept. of Owner.

Contractor—K. E. Parker Co., 135 So. Park.

Glass—Habenicht & Howlett, 529 Clay Street.

Miscellaneous Iron—F. Kern & Sons, 517 6th St.

Elevator—Otis Elevator Co., 1 Beach Street.

Other awards previously reported.

OAKLAND, Alameda Co., Cal.—In-

formal bids are being received by G. B. Hegardt, Secretary, City of Oakland Port Commission, Grove Street Pier, for sheet metal partitions in

Hangar No. 1 at the Oakland Air Port. Date of opening bids not set. (1443) 4

Plastering Contract Awarded. PACKING HOUSE Cost, \$22,200 SAN JOSE, Santa Clara Co., Cal.—Fifth and Market Streets.

One-story brick and frame packing house (Summerbell trusses, built-up roof, cement floors, etc.) irregular shape. One section (30x60 ft. 60x96 ft.; 96x96 ft.)

Owner—Barron-Gray Packing Co. Architect—Chas. McKenzie, Twohy Bldg., San Jose.

Contractor—John S. Newell, 838 Minnesota St., San Jose.

Plastering—W. G. Newman, 1425 Glen Una, San Jose.

As previously reported. Roofing—Fred Hayden, 369 Stockton Ave., San Jose.

Brick Work—Frank Filben, 1140 Martin Ave., San Jose.

Plumbing—H. J. Pascoe, 208 W. Santa Clara St., San Jose.

Sub-Contracts Awarded. ALTERATIONS Cost, \$8000 SAN FRANCISCO, Mission St. bet. Fourth and Fifth Streets.

Alterations to Hulse Bradford warehouse.

Owner—The Emporium, 835 Market. Engineer—V. H. Poss, 2929 Russell St., Berkeley.

Contractor—Monson Bros., 475 6th St. Sheet Metal—Guilfooy Cornice Works, 1234 Howard Street.

Tile—Malott & Peterson, Harrison & 20th Streets.

As previously reported, miscellaneous iron awarded to Star Ornamental Iron Works, 1271 Folsom St., structural steel to Western Iron Wks 141 Beale St.

5—FLATS

May 5, 1933

Contract Awarded. FLATS Cost, \$8000 OAKLAND, Alameda Co., Calif. 535-33 Prince Street.

Two-story and basement frame and stucco flats (11 rooms).

Owner—F. Favero, 787 Mandana Blvd. Oakland.

Architect—Not Given. Contractor—W. A. Anderson, 531 Van Buren Ave., Oakland. (1394) 5

Prospective Bidders. FLATS Cost, \$7000 SAN FRANCISCO, S North Point St. E Webster St.

Two-story and basement frame and stucco flats (two five-room flats) concrete basement, tile and composition roof, hardwood floors, tiled baths, etc.

Owner—Withheld. Plans by L. Dallorso, 32 Jensen St., San Francisco.

Following is a partial list of the contractors who will submit bids: DeLuca & Son, 320 Market St. L. Murer, 1815 Mason St. A. Galli. Chas. Anderson, 150 Granville Way.

6—GARAGES & SERVICE STATIONS

Contract Awarded. GARAGE, ETC. Cost, \$— OAKLAND, Alameda Co., Cal. West 46th Ave. 400 N Clement St.

One-story garage, loading rack and retaining walls. Owner—Richfield Oil Co., 248 Battery St., San Francisco.

Plans by Engr. Dept. of Owner. Contractor—Fred. J. Early, Jr., 369 Pine St., San Francisco.

Bids Wanted—To Close May 25, 11 A. M.

GARAGES Cost, \$— SAN FRANCISCO, Presidio. Eleven brick garages (tile roofs, overhead doors, concrete floors). Owner—United States Government. Plans by Constructing Quartermaster, Fort Mason. Garages will be built in two groups of 7 and 4.

7—FEDERAL BUILDING

SAN FRANCISCO.—Until May 16th, 11 A. M., bids will be received by the District Public Works Officer, 12th Naval District, 100 Harrison Street, for painting and redecorating interior of Quarters Nos. 3 and 5 at the Naval Receiving Ship, Yerba Buena Island, San Francisco, Spec. No. 7312. Plans and specifications available from the above office upon deposit of \$5.00. (1402) 7

SAN FRANCISCO.—Until May 16th, 11 A. M., bids will be received by the District Public Works Officer, 12th Naval District, 100 Harrison Street, for wood and glass partitions and concrete work pit at the District Staff Headquarters, 12th Naval District, San Francisco. Specification No. 7313. Plans and specifications are available from above office upon deposit of \$5. (1400) 7

SUNNYVALE, Santa Clara Co., Cal.—Until May 16, 11 A. M., bids will be received by Public Works Officer, Twelfth Naval District, 100 Harrison St., San Francisco, for acoustical treatment of supply office in storehouse building No. 12 at the Naval Air Station, Sunnyvale. Specification No. 7269. Work includes wood furring, acoustic tile, painting wood building and electric work for ceiling. Plans and specifications available from above office upon deposit of \$10.

WASHINGTON, D. C. — Johnson Metal Products Co., 2537 Pennsylvania Ave., N.W., Washington, D. C., at \$4750 awarded contract by Treasury Department for furnishing and installing insect screens in the U. S. Marine Hospital, San Francisco, Cal.

WASHINGTON, D. C. — Following have procured plans for the purpose of submitting bids to the Treasury Department on June 9, for waterproofing exterior walls, pointing and patching stonework at the Federal and Territorial Building at Juneau, Alaska Smythe & Co., 1416 F St., N. W., Washington, D. C.

Highbridge International Co., Morris Heights Station, New York. Tioga Contracting Co., 211 W. Tloga St., Philadelphia, Pa. Universal Constr. Co., Medical Arts Bldg., Fort Wayne, Ind.

WASHINGTON, D. C.—As previously reported, Tucker McClure, Ancon, Canal Zone, at \$124,480 submitted low bid for item 1 and E. E. Black, Honolulu, T. H., at \$119,320 submitted low bid for item 2, to Bureau of Yards and Docks, Navy Department, Washington, D. C., for Facilities Building at the Navy Yard, Pearl Harbor, T. H. Spec. No. 7074.

Following bids received: (1) work complete (2) using alternate for type torpedo roek. Tucker McClure, Ancon, Canal Zone (1) \$124,480 (2) 122,980 E. E. Black, Honolulu (1) \$133,220 (2) 119,320 R. E. Woolley, Honolulu (1) \$137,200 (2) 122,300 J. L. Young Eng. Co., Honolulu (1) \$148,000

(2) 133,000 Gjarde & Wills, Seattle (1) \$156,956 (2) 146,956 Marks Const. Co., Honolulu (1) \$160,000 (2) 146,000 Hawaiian Const. Co., Honolulu (1) \$160,846 (2) 146,028 Walker & Olund, Honolulu (1) \$163,000 (2) 150,000 North - Moller Co., Jackson, Michigan (1) \$163,000 (2) 148,000 W. P. Thurston Co., Richmond, Va. (1) \$164,000 (2) 150,000 Henry Freitas, Honolulu (1) \$165,000 (2) 157,000 Moses Akiona, Honolulu (1) \$177,072 (2) 161,727 Wm. MacDonald Const. Co., St. Louis (1) \$229,700 (2) 204,000 Bids held under advisement.

DESTRUCTION ISLAND, Wash.—R. J. Hillstrom, Marshfield, Ore., at \$5,265 for item (1), water system only, awarded contract by U. S. Coast Guard Service in connection with fresh and soft water systems and improvements to buildings at Destruction Island, Wash., bids opened at Puget Sound under Spec. No. 6982. Complete bids follow: Earl Anderson, Hoquiam, Wash. \$7,448 R. J. Hillstrom, Marshfield, Ore. 7,825 (Item 1) 5,265 J. G. Wethers, Woodenville, Wash. 10,000

MARIN COUNTY, Cal.—R. P. Paoli, 3159 Fillmore St., San Francisco, at \$231 awarded contract for painting two buildings at Fort Barry, and Giampolini & Co., 1807 Grant Ave., San Francisco, at \$605 awarded contract for painting five buildings at Fort Baker by Constructing Quartermaster Fort Mason. Following is a complete list of the bids:

(1) Fort Baker; (2) Fort Barry. R. P. Paoli, S. F. (1) \$ 790 (2) 231 Giampolini & Co. (1) 605 (2) 320 George Calotte (1) 650 (2) 302 A. J. Mohr & Sons (1) 898 (2) 367 P. A. Bigotta (1) 935 (2) 494 *A. B. C. Painting Co. (1) 944 E. Anderson (1) 959 (2) 395 Faggioni Co. Studio (1) 968 (2) 395 T. W. Vickroy (1) 997 (2) 521 Elving Anderson (1) 1,250 (2) 400 W. G. Thompson (1) 1,275 (2) 470 *Pacific Painting & Dec. Co. (1) 1,448 Lee Dixon Painting Co. (1) 1,682 (2) 548 Patterson Bros. (1) 1,636 (2) 533 *M. Cohen Co. (1) 1,690 *M. Moore (1) 1,780 J. Chaban (2) 597 J. J. Burdon (1) 2,580 (2) 800 * Combined bid for items 1 and 2.

WASHINGTON, D. C.—Pittsburgh Des Moines Steel Co., Neville Island, Pittsburgh, Pa., at \$62,270 submitted low bid to Bureau of Yards and Docks, Navy Department, for additions and alterations to existing foam fire protection system and pump houses at the Naval Fuel Depot, Pearl Harbor, T. H. Specification No. 7068. Second low bid was submitted by E. E. Black, Honolulu, T. H., at \$63,465. Complete list of bids will be published shortly.

WASHINGTON, D. C. — Following are additional prospective bidders who have procured plans for the purpose of submitting bids to the Treasury Department on May 16 for furnishing and installing interior lighting fixtures at the U. S. Forest Service Building, Ogden, Utah.

Phoenix-Day Co., 729 Mission St., San Francisco.

Beardslee Chandelier Mfg. Co., 216 Jefferson St., Chicago.

Electrical Survey Co., 613 D St., N. W., Washington, D. C.

Maier Electric Co., 213 E Hennepin Ave., Minneapolis.

The Reading Chandelier Works, 603 Penn St., Reading, Pa.

F. Stoesberg, 90 Washington Street, Newark, N. J.

Bids Wanted.

BUILDING Cost, \$12,000
SAN FRANCISCO. Fort Mason.
 Two-story hollow tile field officers' quarters.

Owner—United States Government.
 Plans by Constructing Quartermaster, Fort Mason.

SUNNYVALE, Santa Clara Co., Cal.—Following bids received by Public Works Officer, Twelfth Naval District for screens, window shades, and curtain and drapery rods, the work to include the provision and installation of metal screens for windows and transoms, wood frame screens for exterior doors and transoms, wood slatted blinds for windows and guides, window shades and guides and curtain and drapery rods for windows and doors at the Naval Air Station, Sunnyvale. Specification No. 7198:

(1) Work complete; (2) shades, drapery and curtain rods; (3) screens and doors.

L. Lyon Sons, San Jose.....(2) \$2273.63

W. & J. Sloane, S. F..... 2) 2708.81

D. N. & E. Walter, S. F.....(2) 2818.52

Concrete Engr. Co., S. F.....(3) 4593.00

Automatic Tension Screen

Co., Los Angeles.....(3) 5795.00

Chamberlin Metal Weather

Strip Co., S. F.....(3) 6738.00

Bids held under advisement.

FORT SILL, Okla.—Until Thursday, June 1, bids will be received by the Constructing Quartermaster, Post Field, Fort Sill, Okla., for fireproofing hangar at Post Field. Plans may be obtained from the quartermaster on deposit of \$15.

POINT ARGUELLO, Cal.—Wilshire Decorating Co., 5225 Wilshire Blvd., Los Angeles, at \$325 submitted low bid to 11th Naval District, San Diego, for exterior painting of station buildings at the Radio Direction Finder Station at Point Arguello. Specification No. 7282. Following bids received:

Wilshire Decorating Co., Los Angeles, \$325; E. J. Green, Pasadena, \$535; A. B. C. Painting Co., San Francisco, \$542; Depew & Dewey, Los Angeles, \$582; W. S. Nielson, Los Angeles, \$616; N. P. Christensen, Santa Barbara, \$625; H. J. McKinley, Beverly Hills, \$649; Wm. Gelfan, Los Angeles, \$675; J. H. Conner, \$683; Tondro & Bowers, Covina, \$769; A. B. Sorenson, Lompoc, \$801; Alhambra Painting Co., Alhambra, \$964; Chris. Heinsbergen Jr., Los Angeles, \$1137; D. W. Herzog, Santa Barbara, \$1217; Ray Rasmussen, Los Angeles, \$1338. Bids held under advisement.

Additional Sub-Contracts Awarded.

POST OFFICE Cost, \$363,660

RENO, Washoe Co., Nevada. No. 21

Mill Street.

Three-story Class A Post Office (terra cotta and stone exterior finish, marble corridors, etc. 190x80 feet)

Owner—United States Government.

Architect — F. J. DeLongchamps, Gazette Bldg., Reno, Nevada.

Contractor — MacDonald Engineering Co., 14 California St., S. F.

Glass and Glazing — Toledo Plate & Window Glass Co., Toledo, Ohio.

Plastering — Chas. Terranova, 1212 Willard St., San Francisco.

Mill work and sheet metal contracts will be awarded within a few days.

Other awards previously reported.

8—CLUB BUILDINGS

Preparing Preliminary Sketches.

MEMORIAL Cost, \$50,000

WATSONVILLE, Santa Cruz Co., Cal.

Two-story reinforced concrete and structural steel Veterans' Memorial (100x180 ft.) will contain auditorium to seat 1500; club rooms, etc.; tile and composition roofing, steam heating system, hardwood and tile floors, etc.

Owner—County of Santa Cruz.

Architect—A. W. Story, Pajaro Valley Bank Bldg., Watsonville.

BUCKEYE, Ariz.—Buckeye Womans club contemplates erecting a new clubhouse in Buckeye. It will be a 3-room, frame and stucco structure, 26x60 feet in area.

Contracts Awarded.

MEMORIAL HALL Cost, \$16,000

RED BLUFF, Tehama Co., Cal.

Remodel school for Veterans Memorial (brick construction, 60 by 80 feet) stucco exterior, maple flooring, hot air heating system, composition roof.

Owner—County of Tehama.

Architect—Dragon & Schmidts, Mercantile Bank Bldg., Berkeley.

Contractor—Listen Ehorn, Red Bluff, at \$14,880.

Plumbing and Heating—Jack Allen, Red Bluff, at \$2759.

Electric—Cox Electric Co., Red Bluff at \$1690.

9—HOSPITALS

SAN FRANCISCO.—Clinton Stephenson Const. Co., 550 Montgomery St. awarded the following sub-contracts in connection with the construction of the deep therapy pavilion at the University Hospital, Third and Parnassus Aves., San Francisco:

Excavation—J. D. Neall, Lomita Pk. Lumber—Loop Lumber Co., Central Basin.

Reinforcing Steel—Gunn, Carle & Co., 20 Potrero Ave.

10—HOTELS

May 5, 1933

Construction To Start In Two Weeks. **HOTEL, ETC.** Cost, —

KEDDIE, Plumas Co., Calif.

Two-story frame hotel, restaurant and general store (to replace building recently destroyed by fire).

Owner—Joseph Gerrick & Co., et al, 74 New Montgomery Street, San Francisco.

Private Plans.

Work will be started in about two or three weeks on a day's labor basis.

11—ICE AND COLD STORAGE PLANTS

May 5, 1933

Insulation Contract Awarded.

EXTENSION Cost, \$—

SAN FRANCISCO. Third and Berry Streets.

Extension to State refrigeration terminal (Unit 3) extend insulation and refrigeration machinery in concrete building (approx. 27,000 sq. ft. of floor space).

Owner—State of California (Harbor Commission).

Engineer—Frank G. White, Ferry Building.

Contractor—Fred J. Early, Jr., 367 Pine Street.

Insulation—Mundet Cork Co., 440 Brannan St., \$21,000.

As previously reported, machinery contract awarded to the Pelton Water Wheel Co., 2929 19th St., at \$24,506.

(522) 1st report Jan. 27; 5th, April 14, 1933. 11

WASHINGTON, D. C.—Until May 22, bids will be received by Treasury Department, Washington, D. C., for refrigeration and terminal control equipment at the U. S. Public Health Service Laboratory at Hamilton, Montana.

SAN FRANCISCO — Pelton Water Wheel Company, awarded the air ducts and brine tank to the Ferry Sheet Metal Works, 980 Folsom St., in connection with the extension to the State refrigeration terminal (Unit 3) at Third and Berry Streets for the State of California (Harbor Commission). The Pelton Water Wheel Co. hold the contract for machinery, etc., at approximately \$24,806. Fred J. Early Jr., 367 Pine St., general contractor and Mundet Cork Co., 440 Brannan St., have the insulation.

12—POWER PLANTS

SAN FRANCISCO — Murray Iron Works, Burlington, Iowa, awarded contract by Constructing Quartermaster, Fort Mason, for one steam turbine generator and new turbine end for 200-kw. generator. Complete bids published April 22.

LOS ANGELES, Cal.—General Elec. Co. at \$36,600 for (1a) and \$61,000 for (1b) awarded contract by Metropolitan Water District to furnish transformers for the Construction Power System under Spec. No. 25, bids opened April 25.

Pennsylvania Transformer Co. at \$11,650 for (2a) and \$1165 for (2b), \$21,516 for (3a) and \$978 for (3b) awarded contracts under the same specifications.

FLACERVILLE, Eldorado Co., Cal.—Application made for permit to construct power project in Placer and Eldorado counties, consisting of a reservoir at French Meadows on Middle Fork, American River and a series of three power developments extending along Middle and North Forks of American River. F. M. Chrisman, 1023 Russ Bldg., San Francisco, filed the application.

PANAMA CANAL ZONE.—Until May 26, 10:30 A. M., under Schedule No. 2864, bids will be received by the General Purchasing Officer, Panama Canal Zone, Washington, D. C., to furnish three Diesel engine driven generators, d. c., 75-kw., each unit complete. Specifications are obtainable from above office.

MONTEBELLO, Los Angeles Co., Cal.—An injunction restraining the City of Montebello from expending funds for the construction of an electric generating plant and distributing system until a referendum election has been held, has been issued by Superior Judge Emmett Wilson.

FORT SILL, Okla.—Until May 16, bids will be received by the Quartermaster, Fort Sill, Okla., for extension to electric distribution and street lighting system transformer vaults, etc.; Circular 4.

LOS ANGELES, Cal.—The Los Angeles County Supervisors have appropriated \$309,520.40 to be expended for hospital equipment for the Acute Unit of the Los Angeles General Hospital, as follows: General ward furnishings, \$87,957.40; linens and blankets, \$24,263; nursing and ward utility equipment, \$36,125; dining room tables chairs and general seating equipment for wards and offices, \$14,715; library and records department, \$3000 furnishings for building entrances and lobbies, \$2500; admitting and business offices, \$2500; protection and safety equipment, \$3000; janitors' equipment, \$2500; laundry equipment, \$1500; internes' and nurses' quarters, \$7500; interlor transportalon equipment, \$6065; physiotherapy equipment, \$2500; pharmacy equipment, \$500; garage equipment, \$700; kitchen and dining room equipment, \$14,645; clinics and operating room equipment, \$36,000; pathological laboratory, \$15,000; X-Ray department, \$45,000; school of nursing, \$5000.

SAN FRANCISCO — West Coast Electric Works, 160 10th St., at \$2,786.67 awarded contract by Public Utilities Commission to replace No. 6 wire and repair certain pole structures on Millbrae-Crystal Springs Transmission Line.

SEATTLE, Wash.—Until May 24, 10 A. M. (postponed from May 10) bids will be received by G. W. Roberge, Secretary, Board of Public Works, Room 511, County-City Bldg., Seattle to construct power house and tall race at the Diablo power site; transmission line between Diablo Power Plant and Gorge Power Plant assemble, erect and adjust power house apparatus previously purchased for Diablo Power Plant purchase and install additional apparatus and equipment at the Diablo Power Plant.

**13—PUBLIC BUILDINGS
FIRE HOUSES & JAILS**

Bids Opened.

CITY HALL. Cost, \$—
CLOVERDALE, Sonoma Co., Cal.
One-story reinforced concrete city hall (40x46 ft.) composition and tile roof, hot water heating system pine floors, etc., to house chief of police, justice court, jail with two cells, council chambers and courtroom, etc.) space for two fire trucks, and one-story reinforced concrete printing plant (18 by 80 ft.)

- Following is a complete list of bids:
(1) City Hall. (2) Printing Plant.
Heitz & Winter, Healdsburg..(1) \$5194
(2) 2437
DeLuca & Son, S. F.....(1) 5200
(2) 1993
T. B. Goodwin, S. F.....(1) 5263
(2) 2104
L. Halvorsen, Santa Rosa....(1) 5374
(2) 2164
C. W. Hansen, Santa Rosa....(1) 5495
(2) 2309
J. E. Bentley, Cloverdale....(1) 5778
(2) 2227
H. H. Larsen, San Francisco..(1) 6600
(2) 2913
Fred Howe, Santa Rosa.....(1) 6634
(2) 2560
M. W. Palmgreen, Cloverdale..(1) 6764
(2) 2648
Thos. Doyle, San Francisco....(1) 6097
(2) 2187
D. Downie, Santa Rosa.....(1) 7075
(2) 3282

Bids held under advisement until May 23.

May 5, 1933
Commissioned To Prepare Plans.
FIREHOUSE Cost, \$14,000
SACRAMENTO, Sacramento Co., Cal.

L Street near Alhambra Blvd,
New firehouse (type of construction not determined.
Owner—City of Sacramento.
Architect—Charles De an , California State Life Bldg., Sacramento.
(1396) 13

SAN FRANCISCO.—MacDonald and Kahn, Financial Center Bldg. at \$359,953, awarded contract by Department of Public Works for the construction of a 7-story men's jail building and 2-story women's jail building of Class B reinforced concrete construction, tar and gravel roof, concrete floors, mastic finish in cell block, steel cells, steel sash, steam heating system, ventilating system, laundry, kitchen, etc. It will be erected at Sneath Ranch San Mateo County, for the City and County of San Francisco from plans prepared by Architects Albert F. Roller, Crocker First National Bank Bldg. and Dodge Riedy, Pacific Building. Following bids received:

Unit A—Excavation and backfill from natural grade to 4 ft. below:
(a-1) add for hand;
(a-2) add for shovel;
(a-3) deduct for hand;
(a-4) deduct for shovel.

Unit B—Excavation and backfill from natural grade to 8 ft. below:
(b-1) add for hand;
(b-2) add for shovel;
(b-3) deduct for hand;
(b-4) deduct for shovel.

Unit C—Excavation and backfill from natural grade to 12 ft. below:
(c-1) add for hand;
(c-2) add for shovel;
(c-3) deduct for hand;
(c-4) deduct for shovel.

Unit D—Excavation and backfill from natural grade to 16 ft. below:
(d-1) add for hand;
(d-2) add for shovel;
(d-3) deduct for hand;
(d-4-) deduct for shovel;
(e) Class A concrete, add;
(e-1) Class A concrete, deduct;
(f) Class B concrete, add;
(f-1) Class B concrete, deduct;
(g) Class C concrete, add;
(g-1) Class C concrete, deduct;
(h) reinforcing steel, per lb. add;
(h-1) do, deduct;
(i) 12 ft. wire fence, per lln. ft. add;

(i-1) do, deduct;
(j) Mastic flooring, per sq. ft., add
(j-1) do, deduct;
(k) do, equal to Duraflex "A", add;

(k-1) do, deduct;
(l) Mastic base, per lln. ft., add;
(l-1) do, deduct;
(m) 4-in. glazed terra cotta walls, per sq. ft., add;
(m-1) do, deduct;
(n) 2-in. do, add;
(n-1) do, deduct;
(o) setting 4-in. terra cotta walls, per sq. ft., add;
(o-1) do, deduct;
(p) setting 2-in. do, add;
(p-1) do, deduct.

(1) MacDonald & Kahn.....\$359,953
(2) Anderson & Ringrose..... 366,900
(3) K. E. Parker Co..... 376,940
(4) M. B. McGowan..... 334,449

Unit prices follow:

	(1)	(2)	(3)	(4)
(a-1)	\$ 1.00	\$.50	\$.75	\$.25
(a-2) ....	.30	.15	.15	.15
(a-3) ....	.50			
(a-4) ....	.15			
(b-1)	1.60	.75	1.00	.25
(b-2) ....	.30	.15	.15	.15
(h-3) ....	.90			
(b-4) ....	.18			
(c-1)	2.25	1.50	2.50	.40
(c-2) ....	.35	.25	.50	.20
(c-3)	1.25			
(c-4) ....	.18			
(d-1)	3.00	2.50	3.50	.50
(d-2) ....	.40	.30	.50	.20

(d-3)	1.00			
(d-4) .....	.18			
(e)	15.00	18.00	15.00	15.00
(e-1)	8.00	9.00	7.50	10.00
(f)	14.50	16.00	14.50	17.50
(f-1)	7.50	8.00	7.50	11.00
(g)	15.50	20.00	16.00	20.00
(g-1)	8.50	9.00	9.00	12.50
(h ) .....	.045	.06	.05	.03
(h-1) .....	.02	.02	.02	.02
(l)	2.70	3.00	2.50	3.00
(l-1)	2.00	1.75	1.30	2.53
(j ) .....	.25	.35	.17	.25
(j-1) .....	.10	.15	.14	.185
(k ) .....	.23	.30	.22	.25
(k-1) ....	.09	.12	.18	.0185
(l ) .....	.35	.35	.30	.35
(l-1) .....	.15	.18	.25	.25
(m ) .....	.80	.80	.73	1.00
(m-1) ....	.45	.45	.60	.75
(n ) .....	.75	.75	.73	.95
(n-1) ....	.45	.40	.60	.65
(o ) .....	.35	.30	.25	.25
(o-1) ....	.20	.20	.20	.15
(p ) .....	.35	.30	.25	.20
(p-1) ....	.20	.20	.20	.10

Bids held under advisement.
(8591) 1st report May 7, 1932; 9th, April 27, 1933. 13

SAN FRANCISCO.—C. J. Hillard, and Dinuba Steel Products Co., 129 21st Ave. at \$131,874 submitted low bid to Department of Public Works for furnishing and installing the jail equipment in County Jail at Sneath Ranch, San Mateo County. Albert F. Roller and Dodge Riedy, Crocker First National Bank Bldg., architects. Following bids received:

- (1) Deduct if mechanical unlocking and deadlocking device is furnished.
(2) Deduct if mechanical locking device is furnished.
(3) Deduct if all grating work originally specified to be of interlocking bars, be of 3/4-in. plain round bars.
(4) Deduct if all bunks are omitted.

C. J. Hillard and Dinuba Steel Products Co.\$131,874

.....(1)	2,800
.....(2)	1,800
.....(3)	518
.....(4)	3,120
Judson-Pacific Co.	\$151,500
.....(1)	43,250
.....(2)	68,000
.....(3)	560
.....(4)	2,850
*Pacific Elec. Mfg. Co.....	\$153,700
.....(1)	107,500
.....(2)	93,150
.....(3)	
.....(4)	2,728

* Bid submitted on alternates Nos. 1 and 2 did not specify add or deduct. May be total after deduction.

Bids held under advisement.

SAN FRANCISCO—Ace Sheet Metal Works, 444 Clementina St., at \$2061 awarded contract by the San Francisco War Memorial Trustees for furnishing and installing kitchen equipment for the Veterans' Building.

Contract Awarded.
ALTERATIONS Cont. Price, \$12,897
SAN FRANCISCO. Municipal Auditorium.

Remodel 3rd and 4th floors of the Municipal Auditorium (house offices of the Board of Education).
Owner—City and County of San Francisco.

Plans by Bureau of Architecture (Charles Sawyer, architect) City Hall.
Contractor—O. Monson, 475 6th St.

Plans To Be Prepared.
ALTERATIONS Cost, \$1500
ALBANY, Alameda Co., Calif.
Alterations to city hall (improve office facilities, library, etc.)
Owner—City of Albany.
Architect—Not Selected.
Local architects have been asked to submit preliminary sketches and ideas.

May 11, 1933

Preliminary Plans Awaiting Approval ALTERATIONS Cost, \$100,000 PORTLAND, Oregon. Reconstruction of interior of city hall. Owner—City of Portland. Architect—Doyle & Associates, Pacific Bldg., Portland. City council passed an emergency ordinance authorizing this work. City-County scrip to be used as the medium of payment.

Contracts Awarded. JAIL Cost, \$— SNEATH RANCH, San Mateo Co. Plumbing, Mechanical and Electric work for seven-story men's jail building and two-story women's jail building (Class B reinforced concrete construction, tar and gravel roof, concrete floors, mastic finish in cell block, steel cells, steel sash, steam heat, ventilating system, laundry, kitchen, sewage disposal plant farm group). Owner—City and County of San Francisco.

Architect—Albert F. Roller, Crocker First National Bank Building and Dodge Bldg., San Francisco.

Mechanical and Plumbing—Alta Electric & Mechanical Co., 467 O'Farrell St., at \$135,404.

Electric—Alta Electric & Mechanical Co., 467 O'Farrell St., at \$57,690.

Planned. COURTHOUSE Cost, \$1,000,000 SPOKANE, Washington. New courthouse. Owner—County of Spokane. Architect—Not Selected.

Architects Webb and Thomas and Rigg and Vantine have been asked to prepare preliminary plans. A tentative site has been chosen on Boone Ave. from Monroe to Howard Streets.

14—RESIDENCES

Plans Being Prepared. RESIDENCE Cost, \$5000 BERKELEY, Alameda Co., Cal. Hilldale Avenue.

One and one-half-story frame and stucco residence (5 rooms) composition and tile roof, gas hot air heating system, oak floors, etc. Owner—Withheld. Architect—E. L. Snyder and F. W. Confers, 2102 Addison St., Berkeley.

Sub-Contracts Awarded. RESIDENCE Cost, \$4500 SAN FRANCISCO. Hernandez Ave. near Laguna Honda Blvd. One-story and basement frame and stucco residence (five rooms) tile and composition roof, gas heating system, hardwood floors & trim, stucco interior walls, etc. Owner—Wm. F. Lange.

Architect—Geo. McCrea, Hearst Bldg. Contractor—Moore and Roberts, 693 Mission Street.

Lumber—Smith Lbr. Co., Fourth and Channel Streets. Concrete—Golden Gate Atlas Materials Co., 16th and Harrison Sts.

Plans Being Figured—Bids Close May 19th.

RESIDENCE Cost, \$— HILLSBOROUGH, San Mateo Co. Two-story and basement frame and stucco residence (11 rooms and 4 gas heat, hardwood floors, tiled baths); Colonial type, shingle roof, baths, etc. Owner—Mr. Milbank.

Architect—Willis Polk Co. (Angus McSweeney, architect), 227 Pine St., San Francisco.

Contract Awarded. RESIDENCE Cost, \$14,000 INVERNESS, Marin Co., Cal.

Two-story frame residence, rustic exterior, shingle roofing, oil burners, brick and stone fireplaces, etc. Owner—Bruce Johnstone, Chicago. Architect—W. C. Ambrose, 244 Keaney St., San Francisco. Contractor—A. F. Mattoek, 210 Clara St., San Francisco.

Sub-Contracts Awarded. RESIDENCE Cost, \$7500 OAKLAND, Alameda Co., Cal. No. 6150 Margarido Drive.

One-story and basement frame and brick veneer residence (7 rooms and 2 baths); hot air heating system, hardwood floors, tile roof, etc.

Owner—Mel Auerbach, Assistant City Engineer, Oakland.

Architect—E. L. Snyder, 2102 Addison St., Berkeley.

Contractor—F. W. Confer, 5730 Keith St., Oakland.

Lumber—Tilden Lumber Co., Oakland Concrete Work — J. H. Fitzmaurice, Oakland.

Excavation work is under way.

Contract Awarded. RESIDENCES Cost, \$3150 each SAN FRANCISCO. Alemany Terraces

Two one-story and basement frame and stucco residences (5 rooms and breakfast room).

Owner—L. and Josephine T. Depaell, 550 Lake St., San Francisco.

Architect—Not Given. Contractor—Claude T. Lindsay, 4363 26th St., San Francisco.

Sub-Bids Being Taken. RESIDENCE Cost, \$4000 MILLBRAE HIGHLANDS, San Mateo Co., Cal.

One-story and basement frame and stucco residence (6 rooms) tile and composition roof, gas heating system, hardwood floors and trim, canvas walls and ceilings, etc.

Owner & Builder—Chas. Hammer, 1524 Fleribunda St., Burlingame.

Architect—D. E. Jaekle, Call Bldg., San Francisco.

Sub-Contracts Awarded. RESIDENCE Cost, \$6200 SAN MATEO, San Mateo Co., Calif. Baywood Park.

Two-story and basement frame and stucco residence (10 rooms and 3 baths) tile roof, hot air heating system, oak floors, electric refrigeration, etc.

Owner—T. J. Duffy. Architect—C. H. Kirk, Los Angeles.

Contractor—Henry Voelker, 805 Winchester Drive, Burlingame.

Concrete Work—G. Bragato, San Mateo.

Rough Lumber—Loop Lbr. Co., San Francisco.

Millwork—Eureka Mills, San Francisco

Fireplace, Brickwork—Al. Meier, San Bruno.

Electric Work—Burlingame Elec. Co., Millbrae.

Painting—Chas. V. Olson, Burlingame

Plumbing—Young & Co., San Francisco.

Roofing—C. L. Frost Co., Palo Alto.

Ornamental Iron—San Mateo Forge, San Mateo.

Contract Awarded. RESIDENCE Cost, \$5000 BERKELEY, Alameda Co., Calif. 494 Cragmont Avenue.

Two-story frame and stucco residence. Owner—W. C. Cole, 611 Euclid Ave., Berkeley.

Architect—E. L. Snyder, 2102 Shattuck Ave., Berkeley.

Contractor—J. M. Walker, 1709 Grove St., Berkeley.

Contract Awarded. RESIDENCE Cent. Price, \$13,078 BAYWOOD, San Mateo Co., Cal.

Two-story and basement frame and

stucco residence (9 rooms and 3 baths) tile roof, gas hot air heating system, hardwood floors, tiled baths, electric refrigeration, etc. Owner—E. S. Hudson. Architect—Chester Trelchel, 1540 San Pablo Ave., Oakland. Contractor—A. F. Mattoek, 212 Clara St., San Francisco.

Sub-Contracts Awarded. RESIDENCE Cont. Price, \$8313 REDWOOD CITY, San Mateo Co., Cal.

Two-story and basement frame and stucco residence (8 rooms and 4 baths) tile roof, gas hot air heating system, oak flooring, two-car garage, tile baths and kitchen.

Owner—A. Fromme. Architect—Chester Trelchel, 679 Had-don Road, Oakland.

Contractor—Orton & Tunberg, 2249 El Camino, Palo Alto (3153).

Sheet Metal and Heating—Stanford Sheet Metal Works, Palo Alto.

Electric—Coast Electric Co., Redwood City.

Tile Work—Tanner Tile Co., Palo Alto

Steel Sash—Soule Steel Co., 1750 Army St., San Francisco.

Painting—Thomas & Strong, Palo Alto.

Plumbing—Victor Duppee, Redwood City.

CALIFORNIA RIVIERA, Los Angeles Co., Calif.—Architects Morgan, Walls & Clements, 1135 Van Nuys Bldg., Los Angeles, preparing sketches for a residence to be erected on the California Riviera for Oliver Garrett. The residence will contain a 2-story living room, entrance hall, library, studio, two bedrooms and two baths, kitchen, billiard room and maid's room and bath. Will be a wood frame structure with stucco exterior, wood shingle roof, wood sash, plastered interior walls, plank floors, tiled bathrooms, gas unit heating system, etc. A tennis court will be constructed on the grounds.

Contract Awarded. RESIDENCE Cost, \$3350 SAN FRANCISCO. E Ellsworth 75 S

Eugenia Street.

One-story and basement frame and stucco residence (6 rooms).

Owner—Caterina Giusta, 207 Ellsworth Street.

Architect—Not Given.

Contractor—Carl Frank Co., 350 Boscana Street.

May 8, 1933

Preparing Preliminary Plans. RESIDENCE Cost, \$— BERKELEY, Alameda Co., Cal. Cragmont District.

One- or two-story frame and stucco residence.

Owner and Builder—Milton Bonds, 296 Hilgard St., Berkeley.

Plans by W. W. Dixon, 1844 5th Ave., Oakland.

Sub-Bids Being Taken. RESIDENCE Cost, \$5000 SAN FRANCISCO. W Seventeenth

Ave. 33 N Wawona St.

One-story and basement frame and stucco residence (5 rooms); tile and composition roof, gas heat, tiled baths, hardwood floors, etc.

Owner and Builder—S. F. Johnson, 2601 17th Ave., San Francisco.

Architect—F. F. Amandes, 1879 18th Ave., San Francisco.

Completing Plans. PENT HOUSE Cost, \$10,000 SAN FRANCISCO. Turk and Mason

Streets.

Class A concrete and steel pent house (6 rooms, 1 bath) tile roof, steam heating system from main plant, extend elevator, hardwood floors, etc.

Owner—Arnold Haase, Hotel Oxford, Turk and Mason Streets.
 Architect—Grimes & Schoening, Balovich Bldg., Third Avenue, San Mateo.
 Engineer—W. Adrlan, 417 Market St., San Francisco.
 To ask bids in two or three days.

Plans Being Figured.

RESIDENCE Cost, \$6000
 BURLINGAME, San Mateo Co., Cal.
 One and one-half-story and basement frame and stucco residence (five rooms) tile and composition roof, gas heat, canvas walls, tile steps, hardwood floors, cement plaster.

Owner—N. Nichols.
 Architect—F. Amandes, 1879 18th Ave., San Francisco.

Contract Awarded.

RESIDENCE Cont. Price, \$5066
 SAN RAFAEL, Marin Co., Cal. Curtis Tract.

Two-story and basement frame and stucco residence (7 rooms and 2 baths); tile roof, gas heat, colored tile baths, etc.

Owner—O. R. Hartzell, Superintendent of Schools, San Rafael.
 Architect—N. W. Sexton, deYoung Bldg., San Francisco.

Contractor—M. Linggi, Sir Francis Drake Blvd., San Anselmo.

Contract Awarded.

RESIDENCE Cost, \$6425 incld extras
 VALLEJO, Solano Co., Cal. Lot 28, Vista De Vallejo.

Two-story frame and stucco residence (5 rooms) English type, shakes roof, gas heating system, hardwood floors, tiled baths, etc.

Owner—Curt Brodbeck, 633 Alabama St., Vallejo.

Architect—Office of Walter C. Clifford 3299 Washington St., San Francisco.

Contractor—Joseph Bettencourt, San Bruno.

Sub-Bids Being Taken.

RESIDENCE Cost, \$30,000
 WOODSIDE, San Mateo Co., Cal.
 Two-story brick veneer residence (16 rooms and 5 baths) slate roof, oil burning hot air heating system, ornamental iron grilles, oak paneling, tiled baths and kitchen, electric refrigeration, etc.

Owner—Mr. Beeter.
 Architect—Henry H. Gutterson, 526 Powell St., San Francisco.

Contractor—Frank Appelbe, 2405 Acton St., Oakland.

Sub-bids are wanted on all portions of the work.

Sub-Bids Being Taken.

RESIDENCE Cost, \$—
 SAN FRANCISCO. S Ninth Ave. 66 W Mesa St.

One-story and basement frame and stucco residence (6 rooms) Spanish type (social room, tile and composition roof, gas heating system, tiled bath, canvas walls, hardwood floors, etc.)

Owner—I. J. Bluett, 2663 15th Ave., San Francisco.

Architect—S. A. Colton, 544 Market St., San Francisco.

Contractor—C. O. Blincoe, 2663 15th Ave., San Francisco.

Plans Being Prepared.

RESIDENCE Cost, \$7000
 SAN FRANCISCO. Western Addition
 Two-story and basement frame and stucco residence (8 rooms and 2 baths); composition and slate or terra cotta tile roof, gas heating system, tiled baths, ornamental iron, canvas walls, oak floors, etc.

Owner—Withheld.
 Architect—F. F. Amandes, 1879 18th Ave., San Francisco.

Bids will be asked in about three weeks.

Plans Being Completed.

FARM HOUSES Cost, \$—
 COTTONWOOD, Tehama Co., Cal.
 Group of frame farm buildings (superintendent's residence, alterations and additions to owner's residence equipment shed, etc.)

Owner—Rancho Rio Alto, Cottonwood
 Architect—Albert Schroepfer, 681 Market St., San Francisco.

Construction will be started in about one week on a day's labor basis.

Plans Being Prepared.

RESIDENCE Cost, \$15,000
 SAN FRANCISCO. Marina Blvd. near Fillmore St.

Two-story and basement frame and stucco residence (9 rooms and 3 baths); tile and composition roof, gas hot air heating system, tiled baths, oak floors, electric refrigeration, ornamental iron, etc.

Owner—Capt. D. W. Thomsen.
 Architect—D. D. Stone, 110 Sutter St., San Francisco.

Bids will be asked in about two weeks.

Segregated Bids Being Taken.

RESIDENCE Cost, \$10,000
 MT. TAMALPAIS, Marin Co., Cal.
 Two-story frame and stucco residence (9 rooms and 3 baths) full tile roof, gas heating system, oak floors, tiled baths, ornamental iron, electric refrigeration, etc.

Owner—Withheld.
 Architect—D. E. Jaekle, Call Bldg., San Francisco.

Segregated bids are being received by the architect.

15—SCHOOLS

Contracts Awarded.

SCHOOL Cost, \$28,928
 LA GRANDE, Oregon.

Reconstruct 2-story school (replastering, new floors of white maple, new stairs and corridor walls, new heating system, circulating air, electric clocks, plumbing, wiring)

Owner—School Dist. No. 1, La Grande
 Architect—C. B. Millerd, La Grande.
 Contractor—A. Ritchie, Baker, Ore.

Electric—H. & S. Electric Co., La Grande, \$1,863.

Plumbing and Heating—Fred Spaeth, La Grande, \$3,159.

Skylights—J. Melville, La Grande, \$836
 Fire Alarm—H. & S. Electric Co., La Grande, \$495.

Sheet Metal—J. Melville, La Grande, \$2,090.

Thermostat Control—J. Melville, La Grande, \$1,436.

Window Shades—Fitzgerald Furniture Co., La Grande, \$394.

Commissioned To Prepare Plans.

SCHOOL Cost, \$—
 NORWALK, Los Angeles Co., Cal.
 New school building.

Owner—Norwalk School District.
 Architect—T. C. Kistner & Co., Architects' Bldg., Los Angeles.

Additional Sub-Contracts Awarded.

ADDITION Cont. Price, \$15,731
 DALY CITY, San Mateo Co., Calif.

Class C concrete addn. to high school (add six classrooms) wood joists, tile roof, wood and concrete floors, steam heating system, etc.

Owner—Jefferson Union High School District.

Architect—Resing & McGuinness, 488 Pine St., San Francisco.

Contractor—Frank J. Reilly, 6350 Fulton St., San Francisco.

Roofing—Slate Roofing Co., 97 Monte Cresta, Oakland.

Concrete—Bode Gravel Co., 235 Alabama St., San Francisco.

As previously reported, grading awarded to Devencenzi Bros. & Co., 150 Collins St., San Francisco; steel to Pacific Coast Steel Co., 20th and Illinois Sts., San Francisco; mill work

to Stockton Lumber Co., 311 California St., San Francisco; heating to O'Mara & Stewart, 218 Clara St., San Francisco; electric to Central Electric Co., 179 Minna St., San Francisco; hardware to J. H. Kruse, Treat Ave. and 23rd St., San Francisco.

SAN FRANCISCO—Until May 24, 2:30 P. M., bids will be received by S. J. Hester, Secretary, Department of Public Works, City Hall, for laying wood floors in the Redding School, Pine and Larkin Streets. Estimated cost \$2500.

May 11, 1933

Commissioned To Prepare Plans.

SCHOOL Cost, \$20,000
 LOS MOLINAS, Tehama Co., Cal.
 One-story frame and stucco high school (7 classrooms and shop); Main building (60x200 feet), shop (36x100 ft.); composition roof, hot air heating system, pine floors, blackboards, etc.

Owner—Corning High School District.
 Architect—W. E. Coffman, Forum Bldg., Sacramento.

16—BANKS, STORES AND OFFICES

SAN FRANCISCO—Fink & Schindler, 552 Brannan St., at \$1279 submitted low bid to Department of Public Works, for the installation of partitions in the City Engineer's Office, City Hall. Following bids received:

(1) add, if certain additional partitions are installed:	
Fink & Schindler.....	\$1279
Bureau of Building Repairs.....	(1) 634
J. Harold Johnson.....	(1) 1382
H. H. Larsen.....	(1) 221
O. Monson.....	(1) 1636
Valentine Franz.....	(1) 231
Alfred S. Gough.....	(1) 1713
Bids held under advisement.	(1) 243
	(1) 1762
	(1) 240
	(1) 1783
	(1) 249
	(1) 2263
	(1) 273

Contract Awarded.

STORE Cont. Price, \$6253
 OAKLAND, Alameda Co., Cal. No. 3300 Lakeshore Avenue.

One-story brick store (50x70 ft.) concrete floors, tar and gravel roof, tile work, etc.; 3 stores.

Owner—Eureka Properties Co., 3615 E-14th St., Oakland.

Plans by J. W. Oliver, 3615 E-14th St., Oakland.

Contractor—J. B. Petersen, 4021 Agua Vista Ave., Oakland.

Following bids received:

J. B. Petersen, Oakland.....	\$6253
C. W. Leekins, Oakland.....	6595
W. C. Constable, Oakland.....	6596
C. G. Hildebrand, Berkeley.....	6694
John Peacock, Oakland.....	6761
A. Wieben, Oakland.....	6800
W. I. Dice, Oakland.....	7550

Additional Sub-Contracts Awarded.

OFFICES Cost, \$10,000
 ALAMEDA, Alameda Co., Cal. Regent St. and Central Ave.

Two-story frame and stucco office building (40x70 feet).

Owner—Dr. J. Ohannesson, Alameda.

Architect—Not Given.
 Contractor—E. F. Henderson, 6433 Chabot Road, Oakland.

Plumbing—Walter Kennon, 1369 Hopkins St., Oakland.

Electric—C. W. Gates, 2214 Broadway, Oakland.

Painting—Leon Washburn, 2444 Central Ave., Alameda.

Screens—Hippolite Co., 4246 Holden St., Emeryville.

Plastering—J. Rinaldi, 836 52nd St., Oakland.

Contract Awarded.
STORE Cost, \$3338
MONTEREY, Monterey Co., Cal.
 One-story reinforced concrete store.
 Owner—Lulu R. Bussey, Pacific Grove
 Architect—A. McBain, 85 Second St.,
 San Francisco.
 Contractor—Harold C. Geyer, 946 Hel-
 lam St., Monterey.

Contract Awarded.
REMODEL Cost, \$1220
OAKLAND, Alameda Co., Calif. 419-
 423 15th Street.
 Remodel building.
 Owner—Edward Foulkes, 357 12th St.,
 Oakland.
 Plans by Owner.
 Contractor—Edward Shearer, 402 37th
 St., Oakland.

Additional Contract Awarded.
ALTERATIONS Cost, \$6000
SAN FRANCISCO. No. 347 Stockton
 Street.
 Alterations to studios.
 Owner—G. Hansen, % Architect.
 Architect—S. Heiman, 605 Market St.,
 San Francisco.
Elevator Work—Home Elevator Co.,
 319 Grant Ave.
Painting—D. Zelinsky, 165 Grove St.
Steam Heating—Wm. D. Cashel, 739
 Clementina St.
Glass—Habenicht & Mowlett, 529 Clay
Lighting Fixtures—Incandescent Sup-
 ply Co., 726 Mission St.
 Other awards previously reported.

FRESNO, Fresno Co., Cal.—M. B.
 Folsom, Merced, at \$14,373 submitted
 low bid to State High Department,
 Sacramento, for erection and com-
 pletion of an addition to the Dis-
 trict's Office Building at Fresno. The
 work comprises excavation, concrete
 and masonry work, carpentry and mill
 work, lathing and plastering, sheet
 metal work, steel sash, roofing, struc-
 tural steel, painting, plumbing, heat-
 ing, ventilating and electrical instal-
 lation. State will furnish Venetian
 blinds, window shades, laboratory
 hoists, refrigerated fountains and air
 washer.

Following bids received:
 (1) work complete (2) excavation,
 add or deduct (3) concrete, add or de-
 duct.
 M. B. Folsom, Merced..(1) \$14,373.00
 ..(2) .75
 (footings).....(3) 10.00
 (floors).....(3-a) 11.00
 (walls).....(3-b) 21.00
 Theo. Johanns, S. F.....(1) \$14,888.00
 ..(2) .75
 ..(3) 18.00
 Fisher & McNulty, Fres-
 no(1) \$14,998.00
 ..(2) .90
 ..(3) 12.00
 W. J. Ochs, San Jose.....(1) \$15,424.00
 ..(2) .75
 ..(3) 13.00
 W. T. Harris, Fresno.....(1) \$15,587.00
 ..(2) .72
 ..(3) 16.56
 Bids held under advisement.

Preparing Plans.
MARKET Cost, \$—
BAKERSFIELD, Kern Co., Cal. 18th
 and I Streets.
 One-story reinforced concrete market
 (60x110 ft.) steel roof trusses;
 parking area, 72x115 ft., etc.
 Owner—Mattson Bros.
 Architect—Edwin J. Symmes, Haber-
 felde Bldg., Bakersfield.
 Lessee—Scholar & Scholar.

Sub-Contracts Awarded.
STORE Cost, \$4000
SAN FRANCISCO. 634-36 Haight St.
 Frame and stucco store under flats
 (60x20) raise building, excavation
 work, etc.
 Owner—F. J. Quinn.

Architect—W. E. Huson, 1913 Green
 Street.
Contractor—Barrett & Hillp, 918 Har-
 rison Street.
House Moving—D. J. & T. Sullivan,
 1942 Folsom Street.
Plumbing—Dowd & Welch, 3558 16th
 Street.

Contract Awarded.
STORE Cost, \$100,000
BERKELEY, Alameda Co., Cal. No.
 2030 Shattuck Avenue.
 Two-story brick and concrete store
 (brick and terra cotta facing,
 composition roof, structural steel,
 cement, hardwood and terrazzo
 floors, plate glass, metal fire doors
 ornamental iron, gas heating, etc.)
 Owner—S. H. Krees Co., 114 5th Ave.,
 New York City.
 Plans by Engineering Dept. of Owner.
 Contractor—Dinwiddie Construction
 Co., Crocker Bldg., San Francisco.
 Construction will start immediately.

Carpentry Contract Awarded.
BEER GARDEN Cost, \$—
SANTA CRUZ, Santa Cruz Co., Cal.
 Beach St. and Leibbrandt Ave.
 Two-story frame and stucco building
 (beer garden, 3-room apt.) com-
 position built-up doof, cement
 floors and hardwood floors, etc.
 Owner—Henry Miller, 200 Leibbrandt
 Ave., Santa Cruz.
 Architect—Ryland, Esty & McPhetres,
 Alta Bldg., Santa Cruz.
Carpentry—Hamilton & Church, 383
 Ocean Ave., Santa Cruz, at \$4500.
 Mr. Miller is receiving bids on
 plumbing, electrical work, plastering,
 etc.

To Be Done By Day's Work.
ALTERATIONS Cost, \$5000
SAN FRANCISCO. No. 149 Powell
 Street.
 Alterations to studio for cafe.
 Owner—A. H. Mehlinger, 849 Mission
 St., San Francisco.
 Architect—Not Given.

To Be Done By Day's Work.
RESTAURANT Cost, \$3000
SAN FRANCISCO. NE Fifth and
 Mission Streets.
 Restaurant under hotel.
 Owner—Roosevelt Coffee Co., Pick-
 wick Hotel, 5th and Mission Sts.,
 San Francisco.
 Architect—Not Given.

18—WHARVES & DOCKS

Structural Steel Contract Awarded.
EXTENSION Cont. Price, \$16,190
SAN FRANCISCO.
 Extension of wharf shed for Dock No.
 2 (150x92 ft.) steel frame, 5 roll-
 ing doors, copper beaming, moni-
 tor sash, copper gutters, outside
 walls of reinforced concrete.
 Owner—United States Government.
 Plans by Constructing Quartermaster,
 Fort Mason, San Francisco.
 Contractor—Leo Epp, 4745 Geary St.,
 San Francisco.
Structural Steel—Golden Gate Iron
 Works, 1541 Howard St., S. F.

WASHINGTON, D. C.—As previous-
 ly reported, R. E. Woolley, Honolulu,
 T. H., at \$1,279,000 submitted low bid
 to Bureau of Yards and Docks, Navy
 Department, Washington, D. C., for
 constructing pier and two quays of
 reinforced concrete construction, sup-
 ported on concrete cylinders on wood
 piles and on concrete piles and in-
 cludes a steel sheet pile bulkhead,
 timber fender system, track work,
 piping and electrical conduits at Pearl
 Harbor, T. H. Spec. No. 7224.

Following bids received:
 (1) work complete; (2) add for west
 quay (3) add for east quay (4) deduc-
 tion.

R. E. Woolley, Honolulu..(1) \$1,279,000
 ..(2) 171,000
 ..(3) 65,000
 ..(4) 972,000
 W. P. Thurston Co., Rich-
 mond, Va.(1) \$1,284,000
 ..(2) 148,000
 ..(3) 63,000
 ..(4) 1,034,000
 Hawaiian Dredg. Co., Hon-
 olulu(1) \$1,328,282
 ..(2) 163,097
 ..(3) 61,377
 ..(4) 1,034,299
 Frederick Snare Corp., New
 York(1) \$1,377,945
 ..(2) 129,074
 ..(3) 55,273
 ..(4) 1,078,165
 E. E. Black, Honolulu....(1) \$1,415,500
 ..(2) 183,500
 ..(3) 75,000
 ..(4) 1,121,000
 Bids held under advisement.

Glass Contract Awarded.
EXTENSION Cont. Price, \$16,190
SAN FRANCISCO.
 Extension of wharf shed for Dock No.
 2 (150x92 feet) steel frame, 5 roll-
 ing doors, copper beaming, moni-
 tor sash, copper gutters, outside
 walls of reinforced concrete.
 Owner—United States Government.
 Plans by Constructing Quartermaster,
 Fort Mason.
 Contractor—Leo Epp, 4745 Geary St.
Glass—W. P. Fuller Co., 301 Mission
 Street.
 As previously reported, structural
 steel awarded to Golden Gate Iron
 Works, 1541 Howard St.

OAKLAND, Cal.—The Key System's
 Oakland Terminal, the ferry boat, Per-
 alta, thirty electric cars and approxi-
 mately 500 feet of trestle were de-
 stroyed by fire May 6. Damage is
 estimated at \$3,000,000. Plans for re-
 building will be announced by offi-
 cials of the company within 1 week.

19—MISC. CONSTRUCTION

Sub-Contracts Awarded.
SLAB Cost, \$5000
AVON, Contra Costa Co., Calif.
 Reinforced concrete slab for the new
 cracking plant.
 Owner—Associated Oil Co., 79 New
 Montgomery St., San Francisco.
 Plans by Engr. Dept. of Owner.
 Contractor—Villadsen Bros., 417 Mar-
 ket St., San Francisco.
Cement—Pacific Portland Cement Co.
 111 Sutter St., San Francisco.
Reinforcing Steel—W. S. Wetenhall,
 17th and Wisconsin Streets, San
 Francisco.
Cement Coloring—Horn Products Co.,
 557 Market St., San Francisco.
Expansion Joints—Jones Bros. Asbes-
 tos Co., 370 2nd St., San Fran-
 cisco.

Leveling Site.
DOG TRACK Cost, \$150,000
BAYSHORE, San Mateo Co., Calif.
 Dog racing track.
 Owner—Bayshore Kennel Club (Thos.
 Keene, J. Foppiano, et al) Bel-
 mont.
 Plans by Thomas Keene, Belmont.
 Mgr. of Const.—Thomas Keene.
 Sub-bids are being received by Mr.
 Keene. Track will be completed in
 about 50 days.

ALAMEDA, Cal.—Until June 1, 11
 A. M., bids will be received by Capt.
 Leander Larson, Constructing Quar-
 termaster, Benton Field Air Depot, 33
 Pacific Ave., Alameda, for construc-
 tion of approximately 4660 lineal feet
 of new fence at the Benton Field Air
 Depot, Alameda. Specifications avail-
 able from above office upon deposit
 of \$5.

ENGINEERING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

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| 21.—Bridges | 30.—Reservoirs and Dams |
| 22.—Dredging, Harbor Works, Excav. | 31.—Pipe Lines and Wells |
| 23.—Irrigation Proj. | 32.—Sewers & Sewage Disposal Plants |
| 24.—St. Light. Systems | 33.—Water Works |
| 25.—Machinery and Equipment | 34.—Parks & Play-grounds |
| 26.—Railroads | 35.—Tunnels |
| 27.—Fire Alarm Sys. | |
| 28.—Fire Equipment | |
| 29.—Streets & Highways | |

21—BRIDGES

STANISLAUS and San Joaquin Cos. Cal.—Until May 24, 2 P. M., bids will be received by State Highway Commission, Sacramento, to reconstruct a bridge across Stanislaus River 7.6 miles south of Manteca consisting of redecking the two 103-ft. earth filled arch spans and replacing timber trestle approach span with 23 44-ft. steel stringer spans with concrete decks on concrete pile bents, and grading and paving approaches with Portland cement concrete and bituminous treated crushed gravel or stone surfacing, involving:

- (1) 5 trees remove and dispose of;
- (2) 1 timber detour bridge;
- (3) 514 cu. yds. remove and dispose of Port. cem. conc. waste pile;
- (4) 4800 cu. yds. rdwy. excav., unclassified;
- (5) 160 cu. yds. struc. excav.;
- (6) 1100 cu. yds. excav. (arch filling);
- (7) 700 sta. yds. overhaul;
- (8) 4000 cu. yds. imp. borrow;
- (9) 1486 sq. yds. subgrade for pave.;
- (10) 1535 tons untreated crushed stone or gravel (detour & base course)
- (11) 154 tons crushed gravel or stone (bit. treated surf.);
- (12) 8 tons cut-back asphalt;
- (13) 16 bbls. light fuel oil (base course and borders);
- (14) 182 bbls. heavy fuel oil (detours)
- (15) 3810 lin. ft. reinf. conc. piles (including test piles);
- (16) 1240 cu. yds. Class A Portland cem. conc. (struc.);
- (17) 320 cu. yds. do (pave.);
- (18) 180,000 lbs. bar reinf. steel (pave. and struc.);
- (19) 827,000 lbs. struc. steel;
- (20) 4324 lbs. cast steel;
- (21) 84 lin. ft. 24-in. corr. metal pipe
- (22) 1 existing bridge to be removed;
- (23) .24 mile new property fence;
- (24) 1 14-ft. x 58-in. tubular steel gate
- (25) 2475 lin. ft. solid timber railing;
- (26) 170 cu. yds. salvage surfacing;
- (27) 90 M. gals. water apply to base, surfacing and borders;
- (28) 104 cu. yds. Port. cem. conc. in existing pave. to be removed;
- (29) 34 sta. finish roadway;
- (30) 7 monuments complete in place;
- (31) 1 lot misc. items of work.

State will furnish corrugated metal pipe.

See call for bids under official proposal section in this issue.

TULARE COUNTY, Cal.—Until June 3, 2 P. M., bids will be received by State Highway Commission, Sacramento, to grade and pave with asphaltic concrete about 4.2 miles bet. Plaza Garage and Goshen; and to construct an undergrade crossing under the tracks of the S. P. Co. near Plaza Garage, involving:

- (1) 25 sta. clear and grub right of way;
- (2) 38,000 cu. yds. rdwy. excav., unclassified;
- (3) 800,000 sta. yds. overhaul;
- (4) 5,900 cu. yds. struc. excav.;
- (5) 55,000 cu. yds. imported borrow;
- (6) 53,650 sq. yds. subgrade for pave.;
- (7) 24,000 tons asph. concrete;
- (8) 425 cu. yds. Class A Port. cem. conc. (slope paving);
- (9) 540 cu. yds. do (struc.);
- (10) 295 cu. yds. do (curbs & gutters)
- (11) 760 cu. yds. Class B do (abutments);
- (12) 95,000 lbs. bar reinf. steel (slope paving, struc., curbs & gutters)
- (13) 4200 lbs. cast steel;
- (14) 5500 tons crushed gravel or stone (bit. treated surf.);
- (15) 270 tons cut-back asphalt;
- (16) 800 tons crushed run base;
- (17) 750 bbls. light fuel oil;
- (18) 900 cu. yds. existing conc., remove and dispose of;
- (19) 1600 sq. yds. asph. paint binder;
- (20) 7400 M. gals. water;
- (21) 750 lin. ft. 8-in. corr. metal pipe
- (22) 925 lin. ft. 10-in. do;
- (23) 400 lin. ft. 12-in. do;
- (24) 42 lin. ft. 15-in. do;
- (25) 2716 lin. ft. 18-in. do;
- (26) 606 lin. ft. 24-in. do;
- (27) 152 lin. ft. 30-in. do;
- (28) 2300 lin. ft. 8-in. perf. underdrain
- (29) 650 lin. ft. 10-in. do;
- (30) 21 lin. ft. 10-in. cast iron pipe;
- (31) 784 lin. ft. 12-in. stand. reinf. concrete pipe;
- (32) 2912 lin. ft. 12-in. plain concrete pipe;
- (33) 35 conc. joints, pipe culverts;
- (34) 530 cu. yds. rock backfill under-drains and sidewalks;
- (35) 25 cu. yds. sand fill;
- (36) 220 sq. yds. waterproofing;
- (37) 14 lin. ft. pipe handrail;
- (38) 1 lot pumping equip. (2 units);
- (39) 75 cu. yds. drainage sumps;
- (40) 7.5 miles new property fence;
- (41) 50 fence gates;
- (42) 1.25 miles remove and dispose of existing fences;
- (43) .25 mile move and reset property fence;
- (44) 1350 lin. ft. laminated timber guard rail;
- (45) 222 sta. finish roadway;
- (46) 50 monuments complete in place. State will furnish corrugated metal pipe and perforated metal pipe.

HANFORD, Kings Co., Cal. — County Supervisors plan to construct new Alcorn (Brooks) bridge over the river 5 mi. north of Hanford. Bridge will be built by day labor under the direction of County Engineer Roy May; lumber to be bought by county purchasing agent Arthur Meldrin. Estimated cost \$7500; bridge will be 240 feet long.

CAPITAL CITY TITLE COMPANY

J. C. PALEN,
Manager

914 Seventh Street
Sacramento :: California

KERN COUNTY, Cal.—Until June 3, 2 P. M., bids will be received by State Highway Commission, Sacramento, to construct an undergrade crossing under the tracks of the Minkler branch of the A. T. & S. F. Railway about 4 mi. north of Bakersfield, consisting of a 49-ft. 5-in. steel girder beam span with creosoted timber deck supported by concrete abutments with wing walls, involving:

- (1) 425 cu. yds. struc. excav.;
- (2) 1260 cu. yds. struc. backfill;
- (3) 485 cu. yds. class B Portland cement concrete;
- (4) 190 cu. yds. class A do;
- (5) 16,500 lbs. bar reinf. steel;
- (6) 163,000 lbs. struc. steel;
- (7) 12,000 ft. b.m. creosoted Douglas fir timber select struc. grade;
- (8) 185 sq. yds. waterproofing;
- (9) 170 lin. ft. pipe handrail;
- (10) 1 lot misc. items of work.

22—DREDGING, HARBOR WORKS, EXCAVATION

SAN DIEGO, Cal.—Lipscomb & Arnett, San Diego, submitted low bid to the Public Works Officer, 11th Naval District, San Diego, May 5, at \$1286.56 for constructing moorings, dolphins and piles at the Naval Operating Base (Air Station), San Diego, Specifications No. 7305. The work includes the provision of new creosoted piles and the driving of six 3-pile dolphins and two single pile anchorages and the pulling of five old existing concrete piles and 24 old existing wood piles and includes disposal of the removed piles. DeWitt C. Webb, Captain (CEC), U.S.N., Public Works Officer, recommended that the contract be awarded the low bidder. The other bids were:

Charles and F. W. Steffgen, \$1747.
Oberg Bros., \$1889.

PORTLAND, Ore.—Guthrie McDougall Co., Portland, who submitted identical bid at \$24,150 with Kern & Kibbe, Portland, recommended for the award of contract by U. S. Engineer Office to restore The Dalles-Celilo Canal to project dimensions. Award was decided by toss of a coin.

23—IRRIGATION PROJ.

SAN DIEGO, Cal.—Until May 16, 11 A. M., bids will be received by Public Works Officer, 11th Naval District, San Diego, for improvements to electrical system, West Beach Hangars, at the Naval Operating Base (Air Station) San Diego.

The work consists of the following:

- (a) the relocation of existing flood-light, transformers, controller, etc.;
- (b) the removal of certain lighting panels and cabinets and cables;
- (c) the furnishing and installing of eight double and three single manholes, of conduits between new and existing manholes and to new flood light location, of 2300-volt and 600-volt light and power cables, telephone cables and firealarm and contactor cables, of distributing transformers and oil fuse cutouts and fuse boxes and miscellaneous equipment;
- (d) the furnishing and installing in five existing hangars, power and lighting panels and cabinets, main switches, power outlets and conduit and wiring.

Plans and specifications available from above office upon deposit of \$10.

HOLLISTER, San Benito Co., Cal.—Fairview and Ausaymas districts plan to incorporate with the Pacheco Pass Irrigation Co. to provide water for storage in underground reservoirs, involving construction to bring water from Pacheco Creek. To be financed by loan from the Reconstruction Finance Corp.

25—MACHINERY AND EQUIPMENT

SAN RAFAEL, Marin Co., Calif.—Until May 18, 2 P. M., bids will be received by Constructing Quartermaster, Hamilton Field (Marin Meadows) Bombing Base, for furnishing gas meters and regulators at Hamilton Field. Specifications obtainable from above office.

LOS ANGELES, Cal.—Westinghouse Electric & Mfg. Co. awarded contract by A. J. Holm, City Purchasing Agent May 2 at \$144,262.16 total, to furnish Water and Power Department with one only 60,000-kva. transformer bank equipped with inert gas apparatus, under Spec. No. 2996. The bids were opened March 13.

BOULDER CITY, Nevada.—Allis-Chalmers Mfg. Co., Milwaukee, Wis., at \$1,087,200 awarded contract by U. S. Bureau of Reclamation to furnish turbines for power plant, Boulder Canyon; bids opened March 10. Woodworth Governor Co., Rockford, Ill., at \$47,029 awarded contract to furnish governors for the same project.

SAN FRANCISCO—Ford Motor Co. awarded contract by U. S. Forest Service to furnish trucks at the following totals:

- 60 ½-ton pick-up trucks at \$25,551.47;
- 10 1½-ton dump trucks, \$6914.77;
- 140 1½-ton stake side trucks, \$84,733.49.

OAKLAND, Cal.—Until May 15, 11 A. M. (postponed from May 4) bids will be received by C. A. Luck, purchasing agent, City of Oakland Port Commission, to move garbage loaders and miscellaneous equipment from the foot of 14th St., Outer Harbor Terminal to the new wharf, foot of Adeline St., Oakland.

SAN FRANCISCO—U. S. Forest Service, Ferry Bldg., asking bids to close May 19, 2 P. M., for the rental of all available equipment for use all over the State of California in connection with the Forest Conservation Program. Bids are desired on trucks as follows:

- 1½-ton stake side trucks;
- 1½-ton dump trucks;
- ½-ton pick-up trucks.

BRENTWOOD, Contra Costa Co., Calif.—Enterprise Engine Co., 2949 18th St., San Francisco, at \$43,950 submitted low bid May 9 to East Contra Costa Irrigation District, Brentwood, Margaret Wallace Secretary, to replace present electric motors on pumps and appurtenant equipment with natural gas engines, under two plans of financing: (a) district to finance project; (b) manufacturer to finance project and to be repaid in five equal annual installments. Project involves:

Four 7.5-hp. units for driving priming compressors, hydraulic valve control equipment;

Three 5-hp. units for driving priming compressors, hydraulic valve control equipment;

Small engine to operate the present pump priming compressor;

Gas meter for each unit.

Duncanson-Harrelson Co., San Fran-

cisco, second low bidder at \$69,895. John Bean Co., bidding on Waukesha engines, third low at \$84,570.

Le Roi Engine Co., Milwaukee, Wis., Western Enterprise Engine Co., Los Angeles, and Hall-Scott Motor Co., San Francisco, also submitted bids. Bids were held under advisement.

30—RESERVOIRS & DAMS

LAKEPORT, Lake Co., Cal.—Until May 22, 8 P. M., bids will be received by R. E. Leeper, city clerk, to construct a roof for the new reservoir. Specifications obtainable from above office. Certified check 10% required with bid.

GLENDALE, Los Angeles Co., Cal.—P. Diederich, Plant Superintendent, has completed his estimates for the proposed roofing of the Chevy Chase Reservoir.

The cost of a creosoted timber roof would be \$27,000, involving the following material:

- 117,000 B. ft. structural grade, O. P.;
- 162,000 B. ft. common grade, O. P.;
- 44,000 B. ft. struc. grade redwood.

The cost of constructing a reinforced concrete roof, covering same with soil and landscaping, would be between \$85,000 and \$95,000, involving about 5,000 cu. yds. reinf. conc.

31—PIPE LINES & WELLS

ALAMEDA, Cal.—Until May 31, 11 A. M., under Bid No. W-6757-33-4, bids will be received by Constructing Quartermaster, Benton Field Air Depot, 33 Pacific Ave., Alameda, to drill and test 12-in. well and furnish and install on 180 GPM capacity deep well turbine pump with electric motor, control panel, etc., under Specification No. 9—OCQM. Specifications obtainable from above office on deposit of \$5, check payable to Treasurer of the U. S. Certified check 10% required with bid.

SAN FRANCISCO—E. J. Treacy, 309 Call Bldg., at \$5258.15 awarded contract by Public Utilities Commission to construct 16-in. cast iron pipe line 19th Ave. to Ulloa St.

LOS ANGELES, Cal.—Until 2 P. M., May 29, bids will be received by County Supervisors to drill and develop a well 200 feet deep and line it with No. 10 new red steel 18-in. double casing at Rancho Los Amigos (County Farm). Bids will be received as follows:

- (1) all work complete, including drilling and developing and installing casing therein to a depth of 200 feet;
- (2) price per foot for additional depth. Plans prepared by William Davidson, chief mechanical engineer, 1006 Hall of Records. Mame B. Beatty, clerk, 501 Hall of Records.

SONOMA, Cal.—City council will ask bids May 10 to drill two 10-inch wells in connection with municipal water system, depth between 200 and 300 ft., with an alternate of two 8-in. wells, same depth. Hussey & Belcher, Syndicate Bldg., Oakland, engineers.

MADERA, Madera Co., Calif.—Until June 5, 8 P. M., bids will be received by James Wakefield, city clerk, to drill an 18-in. gravel envelope well, 1500-gpm. capacity, depth less than 400 ft. An alternate bid will also be taken per lineal foot, 36-in. casing length. Hussey & Belcher, Syndicate Bldg., Oakland, engineers.

32—SEWERS & SEWAGE DISPOSAL PLANTS

LAKEPORT, Lake Co., Calif.—City council appoints Shoemaker-Hackett-McIntire, 420 Market St., San Francisco, as sanitary engineers for municipal sewage project. Engineers are to analyze samples of effluent from the town's septic tanks and make recommendations for a proposed purification plant.

LOS ANGELES, Cal.—M. Miller, 877 N Bunker Hill Ave., submitted low bid to board of public works May 3 at \$13,800 to construct Fish Harbor intercepting sewer in the right of way westerly from Ways St. bet. the alley south from Terminal Way and in a portion of Terminal Way, cash contract.

The other bids were:

- M. N. Guho, \$16,300.
- Martin Const. Co., \$13,880.
- Mlagenovich & Gillespie, \$24,621.75.
- Artukovich Bros., \$26,592.
- Culjak & Zelko, \$29,200.
- Chutuk, Kordich & Vukojevich, \$30,602.32.

Engineer's estimate, \$14,398.

ROCKWELL FIELD, Cal.—Garrett Plumbing Co., San Pedro, submitted low bid to the Constructing Quartermaster, Rockwell Field, Coronado, on May 8, at \$3168 to construct sewer lines connecting the sewer system to the new officers' quarters.

PALO ALTO, Santa Clara Co., Cal.—Bond election for \$90,000 for proposed sewage system, carried at municipal election May 9, and bids will be asked probably within a month. Project involves pumping and preliminary treatment plant, pipe line connecting with the Mayfield outfall and the new South Oregon Ave. tract sewers; intercepting sewer along Arroyo Road, and pipe carrying treated sewage to the Bay. The Stanford sewer line would enter the intercepting sewer on Arroyo Road, and Stanford University would bear a proportionate amount of the cost. J. F. Byxbee Jr., City Engineer.

CAPITOLA, Santa Cruz Co., Cal.—Until May 29, 7 P. M., bids will be received by H. E. Miller, county clerk, to construct outfall sewer system, involving:

- (1a) screening and pumping plant and septic tank struc. comp. in place;
- (1b) screening and pumping plant and separate sludge digestion tank structure complete in place;
- (2a) screening and pumping plant and septic tank equip. comp. in place;
- (2b) screening and pumping plant and separate sludge digestion tank equip. complete in place;
- (3) 27.68 cu. yds. Class A concrete in place reinforcement for present existing rock wall;
- (4) 153.5 cu. yds. Class B concrete in sea wall;
- (5) 12 cu. yds. struc. excav. for (3) and (4);
- (6a) 1000 lin. ft. 8-in. dia. extra heavy wrought iron pipe with concrete anchor block and 90 deg. cast iron ell at outlet end complete in place as specified for outfall sewer;
- (6h) 800 lin. ft. do;
- (6c) 700 lin. ft. do;
- (6d) 600 lin. ft. do;
- (6e) 1000 lin. ft. 8-in. stand. do;
- (6f) 800 lin. ft. do;
- (6g) 700 lin. ft. do;
- (6h) 600 lin. ft. do.

Estimated cost \$21,500; more than half of the bonds have been sold. Lloyd Bowman, county surveyor; Wm. Oliver, associate engineer. Specifications obtainable from above office.

33—WATER WORKS

LOS ANGELES, Cal.—Hearing on the proposed formation of County Water Works District No. 20 (vicinity of Florence) has been continued by the Los Angeles county supervisors until May 10. Wm. Davidson, county mechanical engineer, 10th floor Hall of Records. The cost is estimated at \$384,714 and covers several contracts as follows:

Drilling of three wells;
Installation of four pumps;
Erection of two 250-000-gallon steel tanks and towers on conc. foundations
Ditching, laying of pipe, backfill and resurfacing.

Piping involving:
12,300 ft. 4-in. C. I. pipe;
93,200 ft. 6-in. do;
41,881 ft. 8-in. do;
10,300 ft. 10-in. do;
2,450 ft. 12-in. do;
300 ft. 14-in. do;
165,000 ft. excav. and backfill;
resurfacing of trenches;
341 valve boxes;
175 fire hydrants;
2,200 water services.

KINGSBURG, Fresno Co., Calif.—City council awards contract to Pacific States Cast Iron Pipe Co. to furnish pipe to replace city water mains; contract for pipe fittings awarded to Tay-Holbrook Co. and the Vernon Foundry Co. Totals not available. Bids were opened April 17.

FRESNO, Cal.—County supervisors are considering the purchase and installation of a gasoline storage tank of 15,000 gallons capacity. J. S. McCain, county purchasing agent.

LYNWOOD, Los Angeles Co., Cal.—Until 8 P. M., May 23, bids will be received by city council to construct elevated steel tank with hemispherical bottom, 115 ft. in height, 100,000 gals. capacity, in accordance with specifications obtainable about May 8 from A. J. Bateman, city engineer.

KINGSBURG, Fresno Co., Cal.—Local citizens purchased \$8000 water-works bonds for replacements and improvements to municipal water system.

SAN FRANCISCO—P. L. Burr, 320 Market St., at \$1284 awarded contract by Constructing Quartermaster, Fort Mason, for furnishing and installing two water meters in valve chambers at the Letterman General Hospital, San Francisco.

YREKA, Siskiyou Co., Cal.—City council awards contract to Byron Jackson Pump Mfg. Co. at \$2500 (approximate total) to install new pumping equipment for the City Water Department.

MOUNTAIN VIEW, Santa Clara Co. Cal.—Until May 17, 8 P. M., bids will be received by B. L. Hays, city clerk, to furnish and install one deep well turbine pumping plant. Specifications obtainable from above office. Certified check 10% required with bid.

SAN FRANCISCO.—Until May 22, 3 P. M., under Bid No. 1000, bids will be received by T. A. Brooks, City Purchasing Agent, to furnish two 60-in. butterfly valves for Hetch Hetchy Project. Specifications are obtainable from above office.

MADERA, Calif.—City council will ask bids May 15 to furnish one Diesel engine and pump for proposed well, in connection with municipal water system. Hussey & Belcher, Syndicate Bldg., Oakland, engineers.

FRESNO, Fresno Co., Calif.—City council discusses with Jean L. Vincenz, Commissioner of Public Works, proposed budget for water system improvements; two alternate expenditures being proposed, allowing \$58,824 or \$35,789 for alterations and improvements ' present system.

OLIVE VIEW, Los Angeles Co., Cal.—William Davidson (chief mechanical engineer, Los Angeles County, 1006 Hall of Records, will request the Board of Supervisors to include in the 1933-34 budget, funds for pumping and piping equipment, also a pump house in connection with a well to be sunk at Olive View, bids for which will be received by the county supervisors on May 29.

FRESNO, Cal.—Jean L. Vincenz, Commissioner of Public Works, has introduced before city commission a proposal to construct a 500,000 gallon balancing tank in the northeastern part of the city for the water department. He proposes to divert \$25,000 from the water department surplus. The public works commissioner stated that the tank will mean an annual saving of \$1500 in power costs.

WILLIAMS, Ariz.—Weiland Engineering Co., Pueblo, Colo., has completed a survey of the town of Williams preliminary to proposed improvements to the water supply system. George S. Cowdery Jr., who made the survey, estimates the cost of the proposed improvements at \$137,000. This includes:
Construction of a dam costing \$86,800.

Head gates, valves, etc., \$2500.
Pipe line to town, involving cast iron pipe, \$12,420.
Pumping plant with electric motors, \$2500.

Concrete reservoir, \$10,000.
City distributing system, valves connections, etc., \$5000.
Water rights, land, etc., \$5000.
Engineering and legal expense, \$12,422.

SAN FRANCISCO.—Until May 19, 3 P. M., under Bid No. 1002, bids will be received by T. A. Brooks, City Purchasing Agent, 270 City Hall, to furnish approximately 304 tons of 30-in. cast iron pipe, involving 152 pieces 12-ft. lengths. Specifications obtainable from above office.

35—TUNNELS

LOS ANGELES, Cal.—Contracts for tunnel construction for the Metropolitan Water District have been signed by the contractors as follows:

Winston Bros. Co., 418 S Pecan St., for constructing the east portion of the Iron Mountain Tunnel, and the east and west portions of the Coxcomb Tunnel.

Utah Const. Co., San Francisco, for the construction of the west portion of the Iron Mountain Tunnel.

The contracts and bonds will be presented to the board of directors of the district today (May 5) for approval.

PASADENA, Los Angeles Co., Cal. Bent Bros., Winston Bros. Co. and W. C. Crowell, 418 Pecan St., Los Angeles, at \$52,605.25 awarded contract by city directors May 2 to construct tunnel for conduit lines in the San Gabriel Canyon 4 miles from Azusa, for the Pine Canyon Dam. The work will consist of driving an adit and two short tunnels, trimming exterior of tunnels and appurtenant work. Total length of adit and tunnels is 1955-ft. Section of tunnel is about 6 ft. 6 in. by 7 ft. 5 in. The bids were opened April 25.

LOS ANGELES, Cal.—J. B. Bond, Construction Engineer for the Metropolitan Water District, has announced that the Dravo Contracting Co. will start work on the Valverde Tunnel, May 15.

The engineer also announced that Hamilton & Gleason Co. has started work on the Bernasconi Tunnel.

The transmission line between Colton and Cabazon has been completed and is in use and the water line from Morongo east to Shaver's Summit has been completed and is also in use.

The testing laboratory at Banning will be completed within the next few days.

LOS ANGELES, Cal.—Specifications and drawings for the Colorado River, Copper Basin, Whipple Mountain, and Whitewater Tunnels, for which bids are to be received by the Metropolitan Water District at 10 A. M., June 12 (previously noted), released by F. E. Weymouth, General Manager and Chief Engineer. Copies obtainable from Room 1004, 306 West Third St., Los Angeles, in payment of \$5 per set. The list of schedules and quotations follows:

SCHEDULE 1

Construct Colorado River tunnel and appurtenant works, between Station 10+40 and Station 67+40. Tunnel length 5640 ft.

Note: No bid will be considered for less than all the items of a schedule.

- (1) Does not apply here;
- (2) 2100 cu. yds. excav. in approach cut;
- (3) 61,000 cu. yds. excav. in tunnel;
- (4) 40 cu. yds. excav. tunnel enlargement;
- (5) Does not apply here;
- (6) 15,900 cu. yds. conc. in tunnel;
- (7) 35 M. feet b.m. furnish and place permanent timbers in tunnel;
- (8) 10 tons erect steel support in tunnel;
- (9) 150 cu. yds. Gunite coat rock tunnel;
- (10) 80 connections for grouting;
- (11) 100 cu. yds. mix and place grout;
- (12) 50,000 lbs. place reinf. steel;
- (13) 5000 cu. yds. mi. overhaul conc. agg.;
- (14) 700 ton-mil. haul. steel;
- (15) 73,000 ton-mile overhaul cement;

SCHEDULE 2

Construct entire No. 1, and East portion No. 2, Copper Basin tunnels and appurtenant works, between Station 179+70 and Station 246+60. Tunnel length 6140 ft.

Note: No bid will be considered for less than all the items of a schedule.

- (1) Does not apply here;
- (2) 12,000 cu. yds. excavation in approach cut;
- (3) 66,800 cu. yds. excav. in tunnel;
- (4) 40 cu. yds. excav. for tunnel enlargement;
- (5) 560 cu. yds. concrete in approach section;
- (6) 17,400 cu. yd. concrete in tunnel;
- (7) 45 M. feet b.m. furnish and place permanent timbers in tunnel;
- (8) 10 tons erect steel support in tunnel;
- (9) 150 cu. yds. Gunite coat rock tunnel;
- (10) 80 connections for grouting;
- (11) 100 cu. yds. mixing and placing grout;
- (12) 175,000 lbs. placing reinforcing steel;
- (13) 6000 cu. yds. mi. overhaul conc. aggregates;
- (14) 1800 ton-miles hauling steel;
- (15) 80,000 ton-miles hauling cement

SCHEDULE 3

Construct West portion, Copper Basin No. 2 tunnel and appurtenant works, between Station 246+60 and Station 309+10. Tunnel length, 6140 feet.

Note: No bid will be considered for

less than all items of a schedule.

- (1) Does not apply here;
- (2) 4000 cu. yds. excavation in approach cut;
- (3) 66,800 cu. yds. excav. in tunnel;
- (4) 40 cu. yds. excav. tunnel enlarge;
- (5) Does not apply here;
- (6) 17,400 cu. yds. concrete in tunnel;
- (7) 25 M. feet b.m. furnish and place permanent timbers in tunnel;
- (8) 10 tons erecting steel support in tunnel;
- (9) 150 cu. yds. Gunite coat. rock in tunnel;
- (10) 80 connections for grouting;
- (11) 100 cu. yds. mix and place grout;
- (12) 40,000 lbs. placing reinforcing steel;
- (13) 6000 cu. yds. miles overhaul of concrete aggregates;
- (14) 400 ton-miles hauling steel;
- (15) 57,000 ton-miles hauling cement;

SCHEDULE 4
Construct East portion, Whipple Mountain tunnel and appurtenant works, between Station 350+90 and Station 452+70. Tunnel length 10,000 feet.

Note: No bid will be considered for less than all items of a schedule.

- (1) Does not apply here;
- (2) 7300 cu. yds. excav. in approach cut;
- (3) 109,800 cu. yds. excav. in tunnel;
- (4) 50 cu. yds. excav. for tunnel enlargement;
- (5) Does not apply here;
- (6) 28,600 cu. yds. concrete in tunnel;
- (7) 210 M. feet b.m. furnish and place permanent timbers in tunnel;
- (8) 20 tons erect steel support in tunnel;
- (9) 150 cu. yds. Gunite coat rock, tunnel;
- (10) 75 connections for grouting;
- (11) 100 cu. yds. mix and place grout;
- (12) 50,000 lbs. place reinforcing steel
- (13) 10,000 cu. yd. miles overhaul of concrete aggregates;
- (14) 600 ton-miles hauling steel;
- (15) 92,000 ton-miles hauling cement;

SCHEDULE 5
Construct Central portion, Whipple Mountain tunnel and appurtenant works, between Station 452+70 and Station 620+60. Tunnel length 16,790 feet.

Note: No bid will be considered for less than all items of a schedule.

- (1) tunnel access work (lump sum);
- (2) Does not apply here;
- (3) 185,400 cu. yds. excav. in tunnel;
- (4) 50 cu. yds. excav. for tunnel enlargement;
- (5) Does not apply here;
- (6) 48,200 cu. yds. concrete in tunnel
- (7) 350 M. feet b.m. furnish and place permanent timbers in tunnel;
- (8) 30 tons erecting steel support in tunnel;
- (9) 260 cu. yds. Gunite coat rock in tunnel;
- (10) 125 connections for grouting;
- (11) 150 cu. yds. mix and place grout;
- (12) 75,000 lbs. place reinf. steel;
- (13) 16,000 cu. yd. miles overhaul of concrete aggregates;
- (14) 900 ton-miles hauling steel;
- (15) 147,000 ton-miles hauling cement;

SCHEDULE 6
Construct West portion, Whipple Mountain tunnel and appurtenant works, between Station 620+60 and Station 676+10. Tunnel length 5400 ft.

Note: No bid will be considered for less than all items of a schedule.

- (1) Does not apply here;
- (2) 7300 cu. yds. excav. in approach cut;
- (3) 59,300 cu. yds. excav. in tunnel;
- (4) 40 cu. yds. excav. for tunnel enlargement;
- (5) 280 cu. yds. concrete in approach section;
- (6) 15,400 cu. yds. concrete in tunnel;
- (7) 110 M. feet b.m. furnish and place permanent timbers in tunnel;
- (8) 10 tons erect steel support in tunnel;
- (10) 40 connections for grouting;

- (11) 50 cu. yds. mix and place grout;
- (12) 25,000 lbs. place reinf. steel;
- (13) 5000 cu. yd. miles overhaul of concrete aggregates;
- (14) 120 ton-miles hauling steel;
- (15) 21,000 ton-miles hauling cement;

SCHEDULE 7
Construct Whitewater Nos. 1 and 2 tunnels and appurtenant works, bet. Station 9361+80 and Station 9787+70. Tunnel length 10,040 feet.

Note: No bid will be considered for less than all items of a schedule.

- (1) Does not apply here
- (2) 37,300 cu. yds. excav. in approach cut;
- (3) 123,900 cu. yds. excav. in tunnel;
- (4) 50 cu. yds. excav. for tunnel enlargement;
- (5) 1400 cu. yds. concrete in approach section;
- (6) 28,600 cu. yds. concrete in tunnel;
- (7) 870 M. feet b.m. furnish and place permanent timbers in tunnel;
- (8) 1150 tons erect steel support in tunnel;
- (9) 300 cu. yds. Gunite coat rock in tunnel;
- (10) 20 connections for grouting;
- (11) 25 cu. yds. mix and place grout;
- (12) 100,000 lbs. place reinf. steel;
- (13) Does not apply here;
- (14) 1850 ton-miles hauling steel;
- (15) 14,300 ton-miles hauling cement.

LOS ANGELES, Cal.—Plans for the Mono Basin Tunnel are being completed by the Engineering Department of the Bureau of Water Works and Supply, 222 N. Hill St., H. A. Van Norman, Chief Engineer. The plans will probably be ready within sixty days and will then await action by the board of water and power commissioners.

The proposed tunnel, which is one of the first projects to be undertaken under the \$8,000,000 bond issue, will consist of a 9-ft. wide horseshoe section, with concrete lining, 65,260 ft. in length, located about 122 miles north of Owenyo on the Southern Pacific Railway and approximately the same distance north from Lone Pine on the state highway. The lower portal is located about 345 miles north of Los Angeles. Narrow gauge railroads provide access from Benton and Laws. Construction roads have been built by the department to provide approach to the tunnel portal. Power will be supplied by a transmission line to be constructed from the Southern Sierras Power Co. plant No. 3 on Levinger Creek.

Construction will be worked from six headings and camps will be established at four points along the line of the tunnel. These camps are: a 90-man camp at the east portal, a 125-man camp at the west portal, and camps of 250 men each located at Nos. 1 and 2. Shaft No. 1 is 914 ft. in depth and Shaft No. 2 465 ft. The headings are listed as follows:

- No. 1, 15,322 ft. in length (West Portal).
- No. 2, 9558 ft. in length (Shaft No. 1).
- No. 3, 10,674 ft. in length (Shaft No. 1).
- No. 4, 10,674 ft. in length (Shaft No. 2).
- No. 5, 6624 ft. in length (Shaft No. 2).
- No. 6, 10,026 ft. in length (East Portal).

The basis upon which the estimate has been prepared fixes the excavation per lin ft. of tunnel at 3.677 cu. yds. and the concrete at 1.19 cu. yds. Estimated with 5% overbreak and 50% timbered, the total construction quantities amount to the following:

- 238,961 cu. yds. excavation;
- 77,660 cu. yds. concrete;
- 2,822,495 ft. B.M. timber.

The engineering department's test holes show about two-thirds of the material through which the tunnel is

to be driven as granite. Drilling operations will require a total of 1,632,000 lbs. of explosives.

The project will involve a water supply line of about 84,950 ft. of pipe, including air valves, vacuum valves, blow-off valves, gate valves and expansion joints and local distributing systems. The line consists of:

- 2,000 ft. 10 3/4-in. O. D. pipe;
- 29,350 ft. 7-in. O. D. pipe;
- 33,250 ft. 6-in. O. D. pipe;
- 20,350 ft. 5-in. O. D. pipe.

The transmission line to be built from the Southern Sierras Power Co. plant No. 3 on Levinger Creek will involve construction of 20.5 miles of 33,000-volt, 1/0 copper conductor, strung on 40-ft. creosoted poles, spaced 175 ft. apart.

The department engineers hope to get the supply line and transmission line completed and the tunnel work started before winter if authorization is obtained in the near future.

29—STREETS AND HIGHWAYS

LOS ANGELES COUNTY, Calif.—Until May 24, 2 P. M., bids will be received by State Highway Commission, Sacramento, to grade and pave with Portland cement concrete 1.3 mi. between Fullerton and Pemona at Berea Canyon Summit, involving:

- (1) 64 sta. clear and grub right-of-way;
 - (2) 64,000 cu. yds. rdwy. excav., unclassified;
 - (3) 310,000 sta. yds. overhaul;
 - (4) 1800 cu. yds. struc. excav.;
 - (5) 14,600 sq. yds. subgrade for pave.
 - (6) 3125 cu. yds. Class A Port. cem. conc. (pave.);
 - (7) 220 cu. yds. do. (struc.);
 - (8) 91,800 lbs. bar reinf. steel (pave. and struc.);
 - (9) 200 lin. ft. 8-in. corr. metal pipe
 - (10) 370 lin. ft. 24-in. do;
 - (11) 130 lin. ft. 30-in. do;
 - (12) 8 lin. ft. 36-in. do;
 - (13) 1700 M. gals. water;
 - (14) 80 tons broken stone (bit. macadam),
 - (15) 3.5 tons grade E asph. (bit. macadam);
 - (16) 2200 cu. yds. conc. remove from existing pavement;
 - (17) 14 culvert markers;
 - (18) 2 mi. type A property fence;
 - (19) 0.6 mile type B do;
 - (20) 6 fence gates;
 - (21) 69 sta. finish roadway;
 - (22) 14 monuments complete in place.
- State will furnish corrugated metal pipe and spillway assemblies.

LOS ANGELES, Cal.—Griffith Co., 502 Los Angeles Railway Building, awarded contract by board of public works May 2 at \$282,679.89 to extend Wilshire Blvd. from Figueroa St. to Park View St., using earth fill around the north end of the lake in Westlake Park. The award was based upon the lowest combination, using type 1 (vitrified) sewer and pre-cast ples.

LOS ANGELES, Cal.—V. R. Dennis Const. Co., Box F, Station A, San Diego, at \$15,318 awarded contract May 5, by Metropolitan Water District to construct 3.2 miles of roads for the Colorado River Aqueduct in Berdoo Canyon 7 miles northeast of Indio.

DALY CITY, San Mateo Co., Cal.—Plans completed by Geo. Kneese, engineer, for a section of the Mission Street Widening project; estimated cost on this portion, \$75,000. Bids will be called by the Daly City Council in the near future. Funds are available at the present time, partly provided by the State and partly by the City and County of San Francisco. The total estimated cost of the project is between \$700,000 and \$800,000.

SAN JOSE. Santa Clara Co., Cal.—A. G. Ralsch, 46 Kearny St., San Francisco, and San Jose, at \$9767 awarded contract by county supervisors to improve Cottle Ave. and Malone Road, in supervisor district No. 4, involving: Cottle Ave., 62,960 sq. ft. asphalt concrete surface; Malone Road, 54,450 sq. ft. asphalt concrete surface; a total of 117,410 sq. ft. asphalt concrete surface, 4½-in. Only other bid submitted by Union Paving Co., San Francisco, at \$15,800.

LASSEN COUNTY, Cal.—Hein Bros. Basalt Rock Co. and E. A. Forde, P. O. Box 162, Petaluma, at \$17,134.75 awarded contract by State Highway Commission, Sacramento, to surface with bituminous treated crushed gravel or stone (road mix method) 2 miles between Susanville and Johnstonville.

TRINITY COUNTY, Cal.—Tiffany-McReynolds-Tiffany Co., 525 N. 7th St., San Jose, at \$7326.26 awarded contract by State Highway Commission, to treat with fuel oil and asphaltic road oil as a dust palliative 26.5 miles between Weaverville and White's Bar Creek.

LASSEN & SIERRA COUNTIES, Cal.—Basalt Rock Co., Napa, at \$8,772.33 awarded contract by State Highway Commission, to treat with asphaltic road oil as a dust palliative 40.4 miles existing roadbed between 2 ml. west of Milford and Doyle and between Long Valley Creek and the Nevada State Line.

SAN DIEGO & IMPERIAL COUNTIES, Cal.—Matich Bros., Elsinore, at \$10,867.50 awarded contract by State Highway Commission, Sacramento, to treat with fuel oil 15.6 ml. between Tecate Divide and Boulder Park.

SAN FRANCISCO.—A complete list of the bids received by U. S. Forest Service to furnish trucks follows. Items involved are:

- (1) 60 ½-ton pick-up trucks;
- (2) 10 1½-ton dump trucks;
- (3) 140 1½-ton stake side trucks.

Bidders follow:

- (A) Ford Motor Company.
- (B) International Harvester Co.
- (C) Chevrolet Motor Car Co.
- (D) Earle C. Anthony, Inc.
- (E) White Company.
- (F) Dodge (J. E. French Co.)

Total bids follow:

	(1)	(2)	(3)
(A)	\$25,551.47	\$ 6,914.77	\$ 84,733.49
(B)	32,889.80	10,709.10	158,362.40
(C)	27,356.40	7,814.40	92,457.40
(D)	38,305.80		
(E)		12,681.50	173,517.40
(F)	33,697.08	9,095.70	118,097.00

Bids held under advisement.

LOS ANGELES COUNTY, Calif.—Until May 13, 10 A. M., bids will be received by S. V. Cortelyou, District Engineer, State Highway Commission 808 California State Office Bldg., Los Angeles, to treat with heavy fuel oil 2.3 miles of graded roadbed at San Gabriel Canyon, near Azusa, involving 2318 bbls. heavy fuel oil in place.

PLUMAS & LASSEN Counties, Cal.—C. F. Frederickson & Sons Co., Lower Lake, at \$7716.80 submitted low bid to District Engineer, State Highway Commission, Redding, to treat with fuel oil as a dust palliative 21 miles of existing roadbed between Beckwith and a junction with State Highway route 29, near Chat, involving 3710 bbls. heavy fuel oil in place. Complete bids follow:

C. F. Frederickson & Sons Co., \$2.08 \$7716.80.
Basalt Rock Co., Napa, \$2.09; \$7,753.90.

Tiffany - McReynolds - Tiffany, San Jose, \$2.28; \$8458.80.
Oilfields Trucking Co., Taft, \$2.45; \$9089.50.

Bids held under advisement.

SONOMA COUNTY, Cal.—Basalt Rock Co., 900 8th St., Napa, at \$2240 submitted low bid to District Engineer, State Highway Commission, San Francisco, to treat with fuel oil as a dust palliative 16 ml. existing roadbed shoulders between Lytton and Santa Rosa, involving 1600 lbs. light fuel oil. Complete bids follow
Basalt Rock Co., Napa, \$1.40; \$2240.
Pacific Truck Service, San Jose, \$1.47; \$2352.

Palo Alto Road Materials Co., Palo Alto, \$1.554; \$2486.

E. A. Forde, San Anselmo, \$1.64; \$2624.
Chas. Kupplinger, Lakeport, \$1.64; \$2624.

Hein Bros. Basalt Rock Co. and A. Hellwig, Sebastopol, \$1.74; \$2784.
C. F. Frederickson & Sons, Lower Lake, \$1.89; \$3024.

Bids held under advisement.

FAIRFAX, Marin Co., Calif.—City council postpones action on Manor Hill Section street improvement until June 9, 8 P. M. Project includes paving curb and gutters, and involves:

- (1) 15,104 cu. yds. grading;
- (2) 10,380 lin. ft. conc. curb and gutter;
- (3) 63,437 sq. ft. asph. pavement;
- (4) 206 ft. 10-in. metal pipe culvert;
- (5) 356 ft. 12-in. do;
- (6) 192 ft. 18-in. do;
- (7) 46 ft. 48-in. do;
- (8) 22 concrete catchbasins, c.i. grating;
- (9) 33 cu. yds. reinf. concrete retaining wall;
- (10) 250 lin. ft. 6-in. sanitary sewer;
- (11) 1 lamphole.

Estimated cost, \$30,000. J. C. Oglesby, city engineer.

STANISLAUS COUNTY, Cal.—Until May 19, 3 P. M., bids will be received by R. E. Pierce, District Engineer, State Highway Commission, Room 502, State Office Bldg., Sacramento, to grade and pave with asphalt concrete 0.3 miles at Modesto, involving:

- (1) 1,085 cu. yds. rdwy. excav., unclass.;
- (2) 53,500 sta. yds. overhaul;
- (3) 2,300 tons asph. concrete;
- (4) 3,030 sq. yds. subgrade for pave.;
- (5) 110 tons untr. cru. gravel or stone surf. (approaches);
- (6) 15 sta. finish roadway;
- (7) 53 cu. yds. salvaged surf. (sub-base);
- (8) 25 cu. yds. asph. conc. remove from existing pavement.

Specifications obtainable from above office. Certified check 10% required with bid.

SANTA ROSA, Sonoma Co., Cal.—All bids rejected by county supervisors and work will be done by day labor, to construct 7-mi. asphaltic oil surfacing from Salmon Creek to Russian River Bridge, 5th Supervisorial District.

E. A. Forde, San Anselmo, submitted low bid. Geo. P. Sanborn, county clerk; E. A. Peugh, county engineer.

INGLEWOOD, Los Angeles Co., Cal.—Until 8 P. M., May 22, bids will be received by City Council to furnish asphaltic road oil to improve Freeman Ave. and Prairie Ave., involving: 335 bbls. 80 per cent asphaltic road oil;
265 bbls. 90 per cent asphaltic road oil.

Arthur W. Cory, city engineer. Certified check, 10%. Otto H. Duellke, city clerk.

LOS ANGELES, Calif.—Until 10 A. M., May 24, bids will be received by board of public works to improve Las Palmas Ave. bet. Milner Road and Highland Ave., 396 ft. center line, involving:

- (1) grading (392 cu. yds. cut, 212 cu. yds. fill);
- (2) 29 sq. ft. 8-in. conc. local depressions;
- (3) 7383 sq. ft. 6-in. concrete paving;
- (4) 60 sq. ft. 4-in. conc. pave. (driveways);
- (5) 579 sq. ft. 4-in. asph. conc. wearing surface;
- (6) 48 sq. ft. asphalt conc. wearing surface (variable thickness);
- (7) 100 sq. ft. Class C resurfacing;
- (8) 80 sq. ft. Class D do;
- (9) 711 ft. reinf. integral curb;
- (10) 80 ft. unplastered light curb;
- (11) 9 ft. steel curb plate, ¼-in. thick;
- (12) 1265 sq. ft. 1-course sidewalk;
- (13) 196 sq. ft. 6-in. conc. gutter;
- (14) storm drain complete;
- (15) 561 sq. ft. 2-in. rock and oil rdwy.
- (16) 27 ft. ornamental iron railing;
- (17) sanitary sewer complete;
- (18) 99 ft. house connection sewers;
- (19) remodel manholes (lump sum);
- (20) water system;
- (21) reinf. conc. retaining wall;
- (22) one water service.

Remove: 49 ft. curb, 124 sq. ft. walk, 48 sq. ft. gutter, 48 sq. ft. wearing surface, 397 sq. ft. driveway, 14 concrete steps, 12 ft. side walls and bottom for open concrete storm drain, 5 ft. concrete wall, 29 sq. ft. concrete paving, one stone pillar, 129 ft. wire fence, 49 ft. lattice fence, one tree, 3 trees to be trimmed, one stump and one bridge.

Engineer's estimate, \$5784.67.

SISKIYOU COUNTY, Cal.—A. Teichert & Son, P. O. Box 1118, Sacramento, at \$15,077.34 submitted low bid May 10 to State Highway Commission, Sacramento, to treat with asphaltic road oil as a dust palliative 58.7 miles of existing roadbed between Weed and Dorris, involving 6642 bbls. asphaltic road oil. Complete bids follow:

A. Teichert & Son, Sacramento, \$2.27; \$15,077.34.

C. F. Frederickson & Son, Lower Lake, \$2.38; \$15,807.96.

Tiffany, McReynolds, Tiffany, San Jose, \$2.47; \$16,405.74.

Basalt Rock Co., Napa, \$2.61; \$17,335.62.

Oilfields Trucking Co., Bakersfield, \$2.88; \$19,128.96.

Pacific Truck Service, Inc., San Jose, \$2.89; \$19,195.38.

Dunn & Baker, Klamath Falls, Ore. \$2.94; \$19,527.48.

Bids held under advisement.

LOS ANGELES, Cal.—G. W. Jones, County Road Commissioner, preparing plans to improve S Figueroa St. bet. 190th St. and East Road, and of Brooklyn Ave. from Mednick St. east to Atlantic Ave. The proposed work will require 10,000 man days labor and material and equipment casting \$22,500.

The Figueroa St. improvement will be approximately 1.5 miles of 30-foot roadway, surfaced with disintegrated granite, involving 70,000 cu. yds. grading. The cost of materials is estimated at \$15,000.

The Brooklyn Ave. work will be 4600 lin. ft. of 30-ft. roadway, surfaced with disintegrated granite and involving 10,000 cu. yds. grading. The cost of materials is estimated at \$7500.

According to present indications the rights of way will be donated by owners.

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

BERDOO CAMP ROADS—MET. WATER DISTRICT

LOS ANGELES, Cal.—V. R. Dennis Const. Co., Box F, Station A, San Diego, (3911 5th Ave.) submitted low bid to Metropolitan Water District May 2 at \$15,318 to construct approximately 3.2 miles of roads for the Colorado River Aqueduct located in Berdoo Canyon about 7 miles northeast of Indio, Riverside County, from a point on the Coachella Valley Road up Berdoo Canyon to Berdoo Camp, involving:

- (1) 25,200 cu. yds. earth excav.;
- (2) 1700 cu. yds. rock excav.;
- (3) 35,000 sta. yds. excav. overhaul;
- (4) 550 cu. yds. struc. excav.;
- (5) 100 cu. yds. concrete;
- (6) 2200 lbs. reinf. steel;
- (7) 96 lin. ft. furnish and place 24-in. dia. corr. pipe culvert;
- (8) 150 cu. yds. hand-placed riprap;
- (9) 600 cu. yds. dumped riprap;
- (10) 60 M. gals. water embank.;
- (11) 135 M. gals. water subgrade;
- (12) 5600 cu. yds. furnish sel. material for subgrade and oil treat.;

- (13) 13,400 cu. yd. ml. haul sel. material;
- (14) 74,800 gals. road oil, haul and spread;
- (15) 39,900 sq. yds. prepare surface, mix, spread and finish oil-treated surface;
- (16) 500 cu. yds. stockpile oil-treated material.

The total bids were:

- (A) V. R. Dennis Const. Co., San Diego, \$15,318.
- (B) Yglesias Bros., San Diego, \$20,963
- (C) A. Teichert & Son, Sacramento, \$23,511.50.
- (D) Clark & Campbell and A. J. Callahan, Los Angeles, \$24,875.70.
- (E) Geo. Rowland, Los Angeles, \$26,169.20.
- (F) Morrison-Knudsen Co., Los Angeles, \$27,351.30.
- (G) Pearson & Dickerson, Riverside, \$28,239.10.

The unit bids were:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
(1)	\$.17	\$.30	\$.34	\$.355	\$.35	\$.50	\$.495
(2)	.60	.75	1.00	.90	1.00	1.00	.84
(3)	.005	.02	.01	.01	.03	.025	.01
(4)	.50	1.00	1.00	1.00	1.25	1.00	1.40
(5)	10.00	12.00	10.00	12.75	15.00	12.00	12.50
(6)	.08	.06	.045	.05	.075	.06	.04
(7)	1.50	2.00	2.00	1.50	2.50	1.80	1.60
(8)	2.00	2.50	2.50	2.50	3.00	2.50	2.80
(9)	1.00	1.00	1.00	1.00	2.00	1.00	1.40
(10)	1.00	3.00	1.50	3.00	5.00	2.50	1.90
(11)	1.00	3.00	2.50	2.50	3.00	2.50	3.40
(12)	.50	.60	.75	.60	.65	.68	1.07
(13)	.06	.10	.12	.17	.14	.12	.09
(14)	.0125	.01	.02	.014	.015	.01	.01
(15)	.05	.04	.04	.07	.063	.05	.035
(16)	1.25	1.50	1.50	2.00	1.00	1.00	1.10

- (E) Tiffany, McReynolds, Tiffany, San Jose, \$10,255.00.
- (F) C. F. Frederickson & Son, Lower Lake, \$12,012.75.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)
(1)....	\$2.46	\$2.15	\$2.70	\$2.66	\$2.50	\$3.00
(2)....	2.46	2.57	2.71	2.71	2.60	3.22
(3)....	2.96	3.07	3.15	3.31	3.00	3.83
(4)....	2.71	2.78	2.75	2.84	3.00	3.54
(5)....	2.71	2.90	2.77	2.89	3.60	3.57
(6)....	3.21	3.70	3.15	3.59	3.80	4.16

MERCED COUNTY, Calif.—N. M. Ball, 1889 Yosemite Road, Berkeley, and Willard, Biasotti & Lovatti, 40 W Clay St., Stockton, at \$32,040.65, bidding jointly, submitted low bid May 10 to State Highway Commission, Sacramento, to grade and pave with Portland cement concrete 0.8 mile of the Merced River Bridge approaches, involving:

- (1) 47 sta. clear and grub right-of-way;
- (2) 19,500 cu. yds. rdwy. excav., unclass.;
- (3) 360,000 sta. yds. overhaul;
- (4) 100 cu. yds. struc. excav.;
- (5) 9460 sq. yds. subgrade for pave.;
- (6) 2035 cu. yds. Class A Portland cement concrete (pave.);
- (7) 5 cu. yds. Class A do (struc.);
- (8) 41,850 lbs. bar reinf. steel (pave. and struc.);
- (9) 104 lin. ft. 8-in. corr. metal pipe
- (10) 92 lin. ft. 12-in. do;
- (11) 50 lin. ft. 18-in. do;
- (12) 190 bbls. light fuel oil;
- (13) 670 bbls. heavy fuel oil;
- (14) 1200 tons untreated crush. stone or gravel surf. (detours);
- (15) 1250 tons bit. treated crushed gravel or stone (borders);
- (16) 1800 M. gals. water;
- (17) 360 cu. yds. conc. remove from existing pave and dispose of;
- (18) 0.1 mile existing fences remove and dispose of;
- (19) 24 guide posts complete in place
- (20) 1406 lin. ft. laminated timber guard rail;
- (21) 47 sta. finish roadway;
- (22) 14 monuments complete in place.

Complete bids follow:

- (A) N. M. Ball, Berkeley, and Willard, Biasotti & Lovatti, Stockton \$32,040.65.
- (B) Valley Paving & Const. Co., and John Jurkovich, Fresno, \$32,053.49
- (C) Gogo & Rados, Los Angeles, \$35,407.10.
- (D) A. G. Ralsch, San Francisco, \$37,604.75.

Unit bids follow:

	(A)	(B)	(C)	(D)
(1).....	\$ 4.00	\$ 4.00	\$ 5.00	\$ 10.00
(2).....	.155	.15	.25	.25
(3).....	.003	.005	.005	.001
(4).....	.75	.60	.50	1.00
(5).....	.08	.08	.07	.07
(6).....	7.30	7.50	8.00	7.75
(7).....	20.00	15.00	20.00	20.00
(8).....	.035	.03	.04	.03
(9).....	.25	.20	.20	.25
(10).....	.30	.30	.30	.25
(11).....	.40	.40	.40	.30
(12).....	2.00	2.00	1.50	1.90
(13).....	2.20	2.00	1.60	2.10
(14).....	1.60	1.50	1.25	2.00
(15).....	3.12	3.00	3.07	5.00
(16).....	.50	.30	.54	.30
(17).....	1.30	1.50	1.50	1.50
(18).....	100.00	100.00	150.00	200.00
(19).....	2.00	2.00	2.50	2.00
(20).....	.75	.70	.80	.80
(21).....	5.00	5.00	3.00	3.00
(22).....	2.50	2.50	2.00	2.50

- (C) C. F. Frederickson & Sons Co., Lower Lake, \$12,215.05.
- (D) Tiffany, McReynolds, Tiffany, San Jose, \$13,133.53.
- (E) Peninsular Paving Co., San Francisco, \$14,744.58.
- (F) Dunn & Baker, Klamath Falls, Ore., \$19,969.

Unit bids follow:

	(1)	(2)
(A)	\$2.53	\$2.33
(B)	2.73	2.30
(C)	2.54	2.41
(D)	3.10	2.54
(E)	2.18	3.06
(F)	3.80	4.00

TUOLUMNE COUNTY, Calif.—Oilfields Trucking Co., Bakersfield, at \$9202.75 submitted low bid to District Engineer, State Highway Commission Sacramento, to treat with fuel oil and asphaltic road oil as a dust palliative 37.3 miles of existing roadbed between Stoddard Springs and the Sonora Pass grade, involving:

- (1) 750 bbls. light fuel oil, Loc. A;
- (2) 1100 bbls. heavy fuel oil, Loc. A;
- (3) 150 bbls. asph. road oil, Loc. A;
- (4) 750 bbls. light fuel oil, Loc. B;
- (5) 625 bbls. heavy fuel oil, Loc. B;
- (6) 150 bbls. asph. road oil, Loc. B.

Complete bids follow:

- (A) Oilfields Trucking Co., Bakersfield \$9,202.75.
- (B) Basalt Rock Co., Napa, \$9,352.50.
- (C) L. A. Briscoe, Arroyo Grande, \$9,744.75.
- (D) A. Teichert & Son, Sacramento, \$9,947.25.

SAN FRANCISCO.—J. B. Rogers, 110 Sutter St., submitted low bid to Constructing Quartermaster, Ft. Mason, to install a well, turbine pump and pump shelter at Lobos Creek, Presidio of San Francisco, involving:

- (1) well, to 60-ft.;
- (2) well, from 60- to 80-ft.;
- (3) dam construction
- (4) pump, etc.

Bidders follow:

- (A) J. B. Rogers;
- (B) A. Paulson;
- (C) Fairbanks-Morse Co.;
- (D) Simonds Machinery Co.;
- (E) Longtin & Larkin.

Unit bids follow:

	(1)	(2)	(3)	(4)
(A)	\$ 9.30	\$ 9.30	\$ 40.00	\$520.00
(B)	14.00	14.00	.....	.....
(C) .....	.....	.....	.....	684.00
(D) .....	.....	.....	.....	810.00
(E)	15.00	16.00	133.00	998.00

MODOC COUNTY, Calif.—Oilfields Trucking Co., Taft, at \$11,863.97 submitted low bid to District Engineer, State Highway Commission, Redding, to treat with fuel oil and asphaltic road oil as a dust palliative 46.5 mi. of existing roadbed between Hot Creek and Alturas and between the junction of State Highway Routes 73 and 28 and the Oregon state line, involving:

- (1) 732 bbls. asph. road oil, Loc. A;
- (2) 4297 bbls. heavy fuel oil, Loc. B.

Complete bids follow:

- (A) Oilfields Trucking Co., Taft, \$11,863.97.
- (B) Basalt Rock Co., Napa, \$11,881.46.

Paid

San Francisco, Calif.
Permit No. 3064

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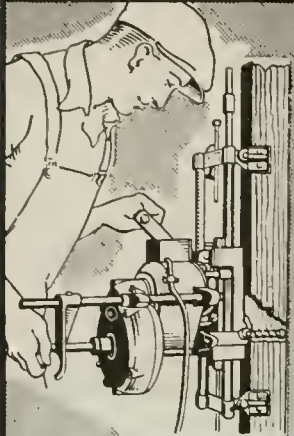
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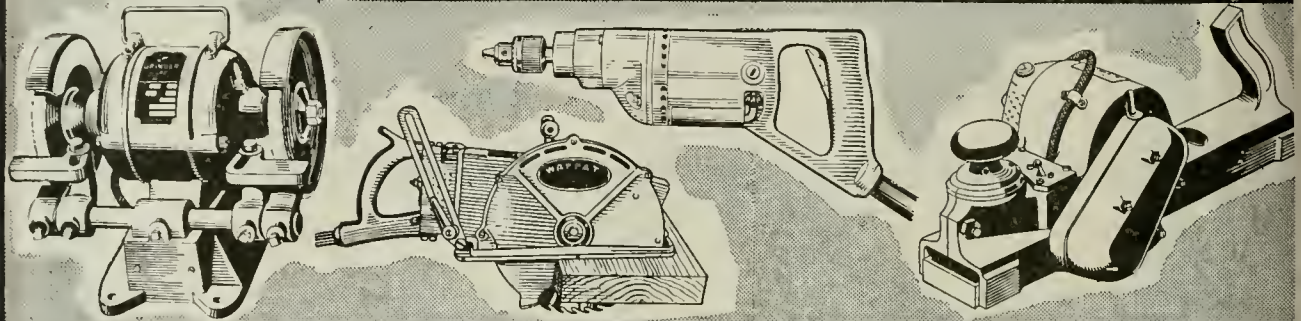
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SAM B. EUBANKS, Editor

Vol. XVI

SAN FRANCISCO, CALIF., MAY 20, 1933

No. 18

LUMBER ORDERS OVER 200 MILLION FEET FOR WEEK

**National Association Reports
New Business Highest
Since Fall**

For the first time this year or last, lumber orders booked at the mills exceeded 200,000,000 feet during the week ended May 6, 1933, and lumber production was highest since last fall, according to telegraphic reports to the National Lumber Manufacturers' Association from regional associations covering the operations of 643 leading softwood and hardwood mills. The gain in new business was shared by both hardwoods and softwoods. All production totaled 123,845,000 feet; orders 208,665,000 feet; shipments 149,544,000 feet.

Orders reported by Southern pine and Western pine mills did not reach the high levels of the previous week but those booked at West Coast, Northern pine and Southern hardwood mills showed large gains, accounting for the spectacular total. The big West Coast increase was due to gain in orders for domestic cargo delivery, although rail, export and local orders showed some advances. For the first time this year or last, West Coast orders exceeded 100,000,000 feet and Southern hardwood orders 20,000,000 feet. The week ended May 9, the former were 108,448,000 feet and the latter 26,330,000 feet. All regions showed excess of orders over production.

Compared with the corresponding week of last year, all regions reported substantial order gains except Northern hemlock. For all softwoods this gain was 57 per cent and for all lumber 62 per cent. Hardwood orders were more than twice those of the corresponding week of 1932. Total production was about the same as last year and shipments were 12 per cent above.

Forest products carloadings during the week ended April 29 were 18,749 cars, the highest record since October. They were lower by 1,187 cars than during the same week of 1932.

THE WEEK'S NEWS Highlights

LICENSE REDUCED. California legislators found time during the rush of last-minute law making to complete passage of the amendment to the Contractors' License Law, reducing the annual fee to \$5, effective July 1. The change was recommended by Registrar Huntington. It is the only major change in contractor legislation enacted.

CEMENT BIDS. Harold Ickes, new Interior Department secretary, ordered all bids rejected for 400,000 barrels low-heat cement for Boulder Dam. The secretary said the price was too high, and intimated that a cement company combination was attempting to increase prices to U. S. President Treanor, Riverside Portland Cement Company, firm that perfected manufacture of cement to Boulder Dam specifications, said Secretary Ickes was uninformed as to conditions, and expects controversy to be settled to satisfaction of all parties. (Page 5.)

EMPLOYMENT GAINS. Increasing industrial employment, including the construction industry, throughout the State of California, shown in the April report of State Division of Labor Statistics. Employees more than March by 14.4% and payrolls by 13.9% in the construction industry. Further gains are seen for this month. Ninth Army Corps, headquarters at S. F., will handle more than 85,000 of conservation army recruits, meaning big unexpected purchases of supplies in the local market. (Page 7.)

SCHOOL REPLACEMENT. San Francisco voters will be asked to ballot on June 27 on a replacement program for obsolete school buildings. Supervisors are expected to recommend approximately \$3,000,000 in bonds at request of Board of Education.

APRIL INCREASE IN CALIFORNIA PAYROLL 13.9%

Substantial Gain For Construction Industry Over March Reported

A gain of 14.4 per cent in the number of employes and an increase in the total weekly payroll of 13.9 per cent between March and April is reported for the construction industry in California by the State Division of Labor Statistics.

An increase of 5 per cent in employment for April compared with the same month a year ago also is reported.

San Francisco and Alameda counties show a gain of 22.2 per cent in number of employes compared with March and an increase in total payrolls of 17.8 per cent. In Los Angeles the increase is 8.3 per cent in employment and 8.4 per cent in payrolls. The area outside the metropolitan districts reports an increase of 22.1 per cent in employment and 29.7 per cent in payrolls.

The average per capita weekly earnings for the state are reported at \$18.47; Los Angeles, \$18.28; Alameda-San Francisco, \$19.73. The average decrease in weekly earnings for the state from April, 1932, is 23.7 per cent; Los Angeles, 17.7 per cent; Alameda-San Francisco, 23.9 per cent.

A general increase in employment in all industries in the state over March is reported by Commissioner Frank C. MacDonald. Employment increased 15.3 per cent and payrolls 9.4 per cent in April in 1206 reporting representative California manufacturing establishments. These firms employed 132,412 workers in April, compared with 114,881 in March. The total weekly payroll was \$2,726,980 in April and \$2,493,648 in March.

Figures compared with April last year show an increase of two-tenths of one per cent in employment and a decrease of 14.6 per cent in payrolls.

A preliminary meeting to discuss formation of a builders' exchange has been held by Martinez contractors and material dealers. The exchange would operate as a division of the Martinez Chamber of Commerce.

PRIZES AWARDED IN 1933 BRIDGE DESIGN CONTEST

Chicago Student Wins Cash Offered for Institute Problem Solution

George D. Recher, a student at the Atelier Adams-Nelson, Chicago won first prize in the 1933 annual bridge design competition held by the American Institute of Steel Construction. W. A. Smith, from the University of Alberta, Canada, won second prize. First Honorable Mention was given to W. M. Horowitz of the University of Illinois; Second Honorable Mention to Robt. G. Jahelka of Columbia University, and Third Honorable Mention to L. E. Palumbo of the New York Architectural Club.

The problem was to design a steel highway bridge, crossing a deep gorge with precipitous rock walls. In addition to giving the students engraved certificates of award the first prize this year carries a cash compensation of \$100 and the second prize a cash compensation of \$50.00

These awards were made from the ten best designs selected in a preliminary competition when 134 students from 41 different schools and colleges entered drawings. The Jury of Award consisted of Mr. Leon S. Moisseiff, Consulting Engineer of New York; Mr. Edward A. Byrne, Chief Engineer of the Department of Plant and Structures of the City of New York; Mr. Wm. F. Lamb, Architect of the firm of Shreve, Lamb & Harmon, New York; Mr. Kenneth M. Murchison, Architect of New York, and Mr. H. H. Saylor, Editor of "Architecture."

INCREASE ARIZONA GAS TAX ONE CENT

Arizona has increased the state gasoline tax from 4 cents to 5 cents a gallon by act of the legislature, now effective, according to the Association of Highway Users.

Revenue from the levy will be distributed six-tenths to state treasury, three-tenths to the several counties in proportion to sales within their boundaries and one-tenth to a special reconstruction fund to be expended under direction of the governor. Money distributed to the counties is to be used for construction, improvement and maintenance of county roads and bridges and for the retirement of outstanding county highway bonds and payment of interest thereon.

STATE LICENSE REDUCED TO \$5

SACRAMENTO, May 15—Reduction of the contractor's license fee to \$5 per year will become effective with the beginning of the fiscal year, July 1, under terms of an amendment to the state licensing act finally passed today by the legislature.

The bill goes to the governor for signature and, with an emergency clause attached to make it effective at once, will enable contractors to renew their license at half the current rate. The reduced rate was the only important change in the licensing system voted by the legislature. A proposal to lower the exemption limit to \$100 was defeated and the present exemption of \$200 will continue.

NAPA COUNTY SCALE ADOPTED

Supervisors Fix Wages To Be Paid On Public Work

The prevailing wage scale for Napa county was approved yesterday by the board of supervisors. The schedule will be effective for one year.

The scale follows:

Asbestos workers, \$6.80; Bricklayers, \$9; Bricklayers' hod carriers, \$6; Carpenters, \$6; Carpet linoleum workers, \$7; Cement finishers, \$6; Electrical workers, \$6; Elevator constructors, \$9.08; Elevator constructors' helpers, \$6.36; Engineers, hoisting, portable, quarries, tractors, over 58-hp., \$9; Engineers, rollers, mixers, asphalt, plants, stone, derricks, \$10; Engineers, bridge and structural, \$10; pile drivers, derrick barges, cableways, \$10; Engineers, firemen and apprentices, \$7; Glass workers, \$6; Granite setters, \$6; Granite cutters, \$6; Hardwood floormen, \$6; Housemovers, \$6.00; Housesmiths, architectural iron, \$8; Housesmiths reinforced concrete, \$9; Iron workers, bridge and structural \$9; Laborers, building and common, \$3.50; Laborers, cement, \$4.00; Lathers, Chanut iron, \$9; Lathers, wood, \$7.50; Marble workers, \$6; Marble workers' helpers, \$4.00; Millmen, planing mill dept., \$6; Millmen, sash and door, \$6; Millwrights, \$6; Model casters, \$8; Model makers, \$9; Painters, \$6; Plumbers, \$6; Sheet metal workers, \$6; Shovel Operators, \$10; Shovel operators, underground, \$11; Shovel cranesmen, \$8.50; Shovel cranesmen, un-

\$3,000,000 SET AS S. F. SCHOOL BOND MINIMUM

Board of Education Sends Recommendation To Supervisors

President Philip Lee Bush of the Board of Education this week recommended to the Board of Supervisors that the amount of the proposed bond issue for the replacing of San Francisco's wooden "fire-trap" school structures be set at \$3,000,000.

City Attorney John J. O'Toole was directed to prepare a resolution for the Board's approval, and it was expected that the measure would be passed without opposition.

The bond issue, authorized by the supervisors last week, will be submitted to voters at the state special election June 27.

Meanwhile, engineers and building inspectors, under the direction of the Board of Education, were making an intensive survey of school buildings to determine the exact amount of work necessary. Report of the engineers, according to D. P. Hardy, Deputy Superintendent of Schools, will not be ready for several months.

Action on the bond issue was urged upon the supervisors by Mayor Rossi and President Bush three weeks ago following the disastrous fire which destroyed the Fremont School.

AUTHORIZE ALTERNATE BIDS ON PAVEMENTS

The State Highway Commission is authorized to call for alternate bids on cement and asphalt type of pavement for state roads under terms of a measure introduced by Kern County legislators and passed by both houses. The act is not mandatory, according to its authors, but directs the commission to specify alternate bids when it is considered practical and might result in a saving on construction costs.

The bill was introduced by As-Wagy in the senate.

derground, \$9.50; Shovel firemen and watchmen, \$7; Shovel oilers, \$7; Sprinkler fitters, \$6; Steam fitters, \$6; Stone setters, \$6; Stone cutters, \$6; Stone derricks, \$6; Tile setters, \$8; Tile setters' helpers, \$5.

Legal holidays including Saturdays and Sundays where crafts work a five day work week and other overtime to be paid for at the rate of double time.

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BOULDER CEMENT BIDS REJECTED; INQUIRY ASKED

**Riverside Company President
Says Controversy Caused
By Misunderstanding**

A complaint has been filed with the Federal Trade Commission alleging an agreement among cement manufacturers to raise prices to the government by Secretary of the Interior Harold L. Ickes, following rejection of bids on 400,000 barrels of low-heat cement for Boulder Dam. The bids were opened April 24.

A joint bid was submitted by Riverside Cement Company, California Portland Cement Company, Southwestern Portland Cement Co. and Monolith Cement Co. These firms bid \$1.55 a barrel, which Mr. Ickes declared was an unwarranted increase in price over a bid of \$1.24 a barrel received last September.

It is understood that the complaint filed by the secretary with the trade commission was primarily in connection with bids to the state of Illinois for highway work. However, the complaint was made public after the Boulder Dam bids had been rejected.

Reclamation Service engineers estimated a five-cent increase in price due to the difference in manufacturing costs of low-heat cement and standard portland was justified. The cost of cement under the prices received would add \$1,500,000 to the cost of the dam compared with purchase at the price received in September.

Secretary Ickes declared he was prepared to order erection of a cement mill near the dam site unless lower prices are forthcoming from the private companies. This attitude is characterized as hasty and ill-advised by cement manufacturers. They point out that it is inconsistent with the policy of President Roosevelt to aid industries in controlling production and maintaining prices that will benefit capital, labor and the public mutually.

John Treanor, president of Riverside Cement Company, Los An-

geles, has issued the following statement:

"The recent bids were not upon ordinary portland cement but upon special low-heat cement to be furnished under exacting specifications peculiar to this job.

"My company has spent several years and many thousands dollars developing this special cement, and we placed complete information concerning it at the government's disposal without charge. These special low-heat specifications involve additional cost to manufacturer and considerable manufacturing and commercial risk not incurred in making ordinary portland cement. The specifications also require unusual and burdensome storage conditions peculiar to this job.

"Recent prices were not, as stated in the Ickes interview, identical or uniform but covered a wide range of both factory and delivered prices. The last prior bidding was not two months ago, as stated in the interview, but on September 26, 1932, and was for ordinary commercial portland cement. These bids likewise covered a wide price range. We are now furnishing somewhat similar low-heat cement to Pasadena for its Pine Canyon dam, but this cement is cheaper and easier to make than under the Boulder Dam specifications. The price to Pasadena, submitted July 26, 1932 was \$1.50 per barrel, at mill; the April 24 bid to the government on its more severe specification was \$1.55 at the mill.

"Further, the recent call for bids for Boulder Dam cement contained no time limit for taking the cement which might extend over many months, involving serious contingencies of increased manufacturing costs, especially in view of the government's inflation policy.

"We know from experience that the Boulder Dam engineers and the Reclamation Bureau desire to be fair and are always willing to take practical circumstances into consideration. A serious misunderstanding concerning the recent bids undoubtedly exists temporarily but I am convinced it will be satisfactorily cleared up."

DOUBLE STATE ROAD MILEAGE BY NEW LAW

**Legislature Puts 6600 Miles Of
Local Routes In High-
way System**

Addition of approximately 6600 miles of main county roads and through routes in cities to the state highway system has been voted by the legislature and is expected to receive the approval of the governor. The same bill provides for allocation of one-quarter of a cent of the gasoline tax to incorporated cities.

Director of Public Works Earl Lee Kelly announced that plans are being completed for the state to assume immediately the maintenance obligations now being borne by local taxpayers for the care of routes to be taken into the state system. State highway mileage will be nearly doubled.

The extension of the state highway system is in accordance with a plan sponsored by Senator Arthur H. Breed and supported by various groups, including the California State Automobile Association, League of California Municipalities, County Supervisors Association, California State Federation of Labor, State Chamber of Commerce, Redwood Empire Association and Highway Protective Committee.

These organizations will join in the campaign to defeat proposals for diversion of the gasoline tax revenues from the highway fund in order to protect the state's road system. The legislation decided yesterday to place the proposed diversion on the ballot for decision by the people at a state election.

SEEK APPOINTMENT

Candidates who have filed applications with the Santa Clara county board of supervisors for appointment as county purchasing agent include Lewis E. Downer, W. F. Herman, Arthur M. Grant, Thomas L. Carey, Allen Boomer, Walter M. Stevens, Lewis E. Richards, Louis A. Lopes, Joseph A. Amori and J. Haviland.

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STRESS CODE IS VOTED IN STATE EMERGENCY ACT

All Building To Be Governed By New Minimum Resistance Regulations

A state law to regulate construction of buildings in respect to resistance to horizontal forces, introduced by Assemblyman Harry B. Riley has been passed by the legislature, according to word received by Building Inspector John B. Leonard of San Francisco, last Saturday.

The bill carries an emergency clause which places it in effect as soon as it is signed by the governor.

Enforcement of the law is vested in the building department of incorporated cities and in the county authorities when the structure is located outside an incorporated area.

Principal provisions of the act are as follows:

Section 1. Every building of any character, and every part thereof which is hereafter constructed in any part of the State of California, including every incorporated city, incorporated city and county, and county except such buildings as are hereinafter expressly excepted from the operation of this act, shall be designed and constructed to resist and withstand horizontal forces from any direction of not less than either two (2) per cent of the total vertical design load or twenty (20) pounds per square foot wind pressure on the vertical projection of the exposed surface, the horizontal force used to be the one that produces the greater stresses in the building.

Sec. 2. For the purposes of computing the resistance of any building to such horizontal forces as required by section 1 hereof, the computed stresses resulting from the combined vertical forces and horizontal forces shall not exceed one and one-third (1 $\frac{1}{3}$) times the allowable working stresses as hereinafter provided.

Sec. 3. For the purposes of this act, allowable working stresses shall be those specified in the ordinances governing the erection and construction of buildings in the city or city and county in which the building is to be constructed or if in unincorporated territory then of the county where-in the work is done.

If no such ordinance is in effect at the place at which the work is done then the allowable working stresses shall be those specified by the Division of Architecture of the State Department of Public Works, which is hereby fully authorized and empowered to specify such allowable working stresses for the purposes of this act as to any city, city and county, or county in which no such ordinance is in effect.

Sec. 4. This act shall not apply to the following buildings:

a. Any building not intended primarily for occupancy by human

Revised Order for Masonry Construction Issued by Long Beach Building Inspector

As a result of the March 10 earthquake which wrecked many masonry walls in Long Beach buildings, C. D. Wailes, Jr., chief building inspector of the city, has issued a brief specification, whose effect is to revise masonry construction practices on all new and repair work in the city. Several important changes from the stipulations of the old building code are involved. The new order specifies portland cement mortar exclusively, allowing a small proportion of lime for workability; lime and lime-cement mortar, previously permitted, are eliminated. The new order requires one header course in every four courses as compared with one in six previously.

Whereas the old code required parapet walls on masonry buildings to be at least 30 in. high above the roof and when the height exceeded six times the thickness that they should be laterally supported (method not outlined), the new order states that all masonry parapet walls shall be not less than 18 in. and not more than 36 in. high above the roof and that a horizontal belt course tie of reinforced concrete shall be placed at the top of

all parapet walls; minimum reinforcement shall be a continuous $\frac{1}{2}$ in. square bar.

The ties must be not less than one course of brick deep and at least 8 in. wide.

All masonry parapet walls must be reinforced vertically with $\frac{3}{8}$ -in. round bars 12-in. on centers, extending into the belt course tie below and hooked around the horizontal reinforcing bar in the top tie. Such vertical bars shall be placed 4 in. from the roof side of the wall.

The order also requires horizontal belt course ties of concrete to be placed under the floor joists of each floor above the first and under the ceiling joists or roof rafters. The depth of such horizontal ties must be equal to at least four courses of brick and their width shall be at least equal to the wall thickness minus the width of a brick but in no case less than 8 in.

Lintels over openings more than 4 ft. wide which are of structural steel shall be encased over the top and sides with concrete.

Vertical ties are required at each corner of a building and not more than 50 ft. apart in the walls; they must not be less than 8 in. in any dimension and in no case less than 4 in. thinner than the wall.

Relative to workmanship the order requires full-shoved mortar joints and that all masonry units be thoroughly wetted not more than one hour before laying and that they shall be damp at the time of laying.

PROPOSED COPPER NAIL STANDARD

A proposed simplified practice recommendation covering copper wire nails has been mailed to all interests in the industry by the division of simplified practice, Bureau of Standards, for their consideration and written approval.

This recommendation, which was proposed and formulated by representatives of the industry, is concerned with the length designation and decimal equivalent, in inches, together with the gauge of common copper wire nails and copper wire slating nails.

INSPECTION FEES WILL BE REDUCED

Inspection fees for electrical installations in the city of Sacramento are reduced under the terms of an ordinance introduced in the city council. The minimum fee would be lowered from \$2 to 50 cents.

Fresno city council has ordered the fees for inspection of new gas appliance installations reduced from \$1 to 50 cents.

beings and no part of which is located within the limits of an incorporated city or incorporated city and county.

b. Any building designed and constructed for use exclusively as a dwelling for not more than two families and no part of which is located within the limits of an incorporated city or incorporated city and county.

c. Any building on which work has actually been commenced prior to the effective date of this act.



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DISTRIBUTION OF U. S. CONSTRUCTION SHOWN IN CENSUS

New Statistical Survey Locates Work Awarded and Contractors

The Bureau of the Census announces that a special study of the location and agencies of the construction industry in the United States has been issued. The statistics presented in this publication are derived from data gathered in 1930 as a part of the 15th decennial census.

The original census data presented in the individual State and United States summary reports gave the value and analysis of construction statistics classified according to the location of reporting contractors. They do not show the actual value of construction work done on projects within each State. Some part of the aggregate work of contractors of almost every State was done on construction projects located in other States. In the present study of the location and agencies of construction throughout the United States, the operations have been allocated to the State in which the work was actually done. In order to arrive at this presentation, an analysis and projection of the basic figures has been made, assembling the several projects done in each State by contractors of the home State and by outside contractors of every other State.

Some interesting phases of the analysis are brought out under the following topics: Comparability of projected totals with existing statistics of construction contracts awarded and building permits issued; the problem of outside competition; distribution of construction work throughout the United States per square mile and per capita; and the actual value of construction work in each State according to the location of the offices of executing establishments.

Of the aggregate volume of construction work actually executed within the United States, valued at \$5,759,774,790, 18 per cent was located in the State of New York, 8.5 per cent in Illinois, 8.4 per cent in Pennsylvania, 7.6 per cent in California, and so on throughout the list of States. From the point of view of the agencies by which this volume of work was done, the statistics show that contractors of New York State executed 18.6 per cent of the total; contractors of Illinois, 8.9 per cent; contractors of Pennsylvania, 9.3 per cent; contractors of California, 7.6 per cent, etc. Contractors of the New England, Middle Atlantic, East North Central and West North Central divisions did more construction than that which was actually executed within those localities, whereas the reverse was the case in the five southern and western geographic divisions. Omitting the District of Columbia, the greatest value of construction per square mile occurred in Rhode Island,

Emergency Forest Conservation Program To Employ 37,500 Workers in State

Thirty different kinds of conservation work, from the building of fire breaks and lookout houses to the digging out of poisonous forage plants and the control of insect infestations, will be done by the 37,500 forest workers in the 165 camps to be established in the national forests of California under the President's emergency conservation program, according to a statement made today by Regional Forester S. B. Show, chief of the U. S. Forest Service at San Francisco and regional coordinator of emergency conservation work for this State. The plans proposed are based on needed improvements for the protection and betterment of the national forests, previously prepared by the United States Forest Service, but never carried out because of the lack of Government appropriations.

"First in importance," said Mr. Show, "is the construction and maintenance of 6,350 miles of truck trails to open up inaccessible parts of the forests and to allow of the rapid transport of men to fires. Wide firebreaks, totaling 1000 miles in length, will also be built, principally in the chaparral forests of southern California, to break up large areas of inflammable brush and to aid the fire fighters in their battle against the flames. In the northern timbered forests, 800 miles of narrower fire lines will be constructed for the same purpose. An additional prevention measure will be the reduction of fire hazards through the falling of dead trees and snags and the cleaning up of inflammable material, particularly along 3,700 miles of roads and trails and on 77,000 acres of adjacent national forest lands. Another item of importance in fire fighting is telephone communication, and the plans call for the building of 1,000 miles of new line to tie in lookouts and guard stations with the forest rangers' and supervisors' headquarters, and the reconditioning of 1,400 miles of existing telephone lines.

"The vacation public," continued Regional Forester Show, "will be particularly interested in our plans to make the forests more attractive and accessible to recreationists and sportsmen. With this in mind, we will construct and improve 2,100 miles of foot and horseback trails into the inaccessible parts of the national forests, establish 725 new public camp grounds, and develop several hundred water systems. Additional pastures for tourist stock will also be fenced in some of the forests of the Sierra Nevada which are popular with camping parties.

"Of particular benefit to the owners of livestock who graze their cattle and sheep on the national forests will be the development of 325 new stock watering places, the building of 235 miles of drift fences to allow of better handling of stock on the range, and the clearing of 175 miles of new stock driveways

into the forests. The eradication of plants poisonous to livestock will be done on many areas, thus increasing the carrying capacity of the forest ranges.

"Insects, rodents and erosion are three very detrimental influences found in our forests," said Show. "These problems will receive special attention and we plan to make a thorough survey of existing conditions and start control work. Erosion will be combated by the building of check dams, reseeding barren areas, and by planting. Field projects to control the heavy timber losses occasioned by pine beetles will be undertaken on several hundred thousand acres. The control of rodents, which destroy the range and cause serious erosion in high mountain meadows, will be done in cooperation with the U. S. Biological Survey in practically all national forests.

"The planting of little seedling trees on burned and denuded areas, will have but a small part of the work program for the national forests of California. This is due to the fact that the spring planting season is already over and no planting can be done until after the fall rains. Also, the supply of young trees at the two Forest Service nurseries in this State is totally inadequate for a large planting program.

"Nearly 100 new lookouts will be established on high peaks as an aid to the detection of fires; 150 fire guard and ranger stations will be built at strategic points, and other much needed administration buildings constructed. Other special jobs that will be undertaken are: construction of airplane landing fields in the mountains; the improvement thinning of dense stands of young Christmas trees; research projects in fire and erosion control; the eradication of wild currants and gooseberries in sugar pine forests of the Sierra, to guard against future damage by the destructive blister rust fungus which is transmitted by these host plants. Blister rust has not yet been found in California but is advancing toward the State from the Pacific Northwest.

"When these many and varied jobs are accomplished by the President's emergency conservation workers," concluded Mr. Show, "we will have made the most forward step in the protection and administration of the national forests of California that has been taken since their creation in this State nearly thirty years ago."

AUTHORIZE VENTURA BUILDING EXPENDITURE

A bill authorizing the state expenditure of \$570,463 remaining in the fund previously allotted for major construction and equipment at the new state hospital in Ventura county has been passed by the senate.

PERMITS AND CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
276	Regal	Misslon	1300
277	Cereal	Forbes	2000
278	Ruggies	Owner	4750
279	Jorgensen	Sbarboro	7000
280	Padilla	Owner	1600
281	Nelson	Owner	3850
282	Temple	Hummer	4000
283	Liebes	Emanuel	5000
284	Pavllion	Owner	2500
285	Kahn	Westlund	1875
286	Wolfsohn	Owner	1000
287	Monaghan	Owner	3000
288	Montgomery	Owner	1500
289	Follioti	Owner	3750
290	Follioti	Owner	3750
291	Mascone	Ferrari	6000
292	Herzig	Owner	4000
293	Bordi	Owner	2750
294	Herzig	Owner	4000
295	Petterson	Andersen	1000
296	Bordi	Owner	2750
297	Joyce	Mullen	1500
298	Globe	Favero	4000
299	De Martini	Owner	2000
300	Whitney	Owner	7900
301	Masuro	Masarie	1000
302	Masuro	Masarie	5000

ALTERATIONS

(276) NO. 675 TREAT AVE. Alter brewery.

Owner—Regal Products Co., Premises Engineer—H. Soult, 17th and Wisconsin Sts., San Francisco.
Contractor—Mission Concrete Co., 272 Turk St., San Francisco. \$1300

ALTERATIONS

(277) SE FULTON AND WEBSTER Sts. Alter bottling plant.
Owner—Cereal Products Refining Co., 762 Fulton St., San Francisco.
Architect—Not Given.
Contractor—R. J. H. Forbes, Monadnock Bldg., S. F. \$2000

DWELLING

(278) E DOLORES ST. 61 S Twenty-third. Two-story and basement frame dwelling.
Owner—J. R. Ruggles, 414 Castro St., San Francisco.
Architect—Not Given. \$4750

FLATS

(279) N FRANCISCO 193 W Broderick. Two-story and basement frame (2) flats.
Owner—M. P. Jorgensen, 2225 North Point St., San Francisco.
Architect—Irvine & Ebbets, 2048 Market St., San Francisco.
Contractor—Sbarboro & Jorgensen, 2225 North Point St., San Francisco. \$7000

REPAIRS

(280) 1377 NINTH AVE.; repair fire damage to store and flats.
Owner—R. Padilla, 458 Brannan St.
Architect—Not Given. \$1500

DWELLING

(281) W 34th AVE. 50 N Wawona; one-story and basement frame dwelling.
Owner—A. Nelson, 242 Ocean Ave.
Architect—Not Given. \$3850

DWELLING

(282) E LATONA 76 S Bayview; 2-story and basement frame dwelling.
Owner—Temple Lutheran Church, Inc. Bayview and Latona.
Architect—Not Given.
Contractor—W. T. Hummer, 5811 Mission Street. \$4000

ALTERATIONS

(283) 218 POST ST.; alter store.
Owner—A. Liebes, 220 Post St.
Plans by Contractor.
Contractor—L. & E. Emanuel, Inc., 2665 Jones St. \$5000

ALTERATIONS

(284) SE SUTTER AND PIERCE Sts. Alter ice skating rink.
Owner—Pavllion Ice Rink, Inc., 140 Geary St., San Francisco.
Architect—Not Given. \$2500

ADDITION

(285) NW TWELFTH AVE AND D Lake St. Addition to dwelling.
Owner—L. Kahn, Premises.
Architect—Not Given.
Contractor—F. J. Westlund, 12th Ave., San Francisco. \$1875

ADDITION

(286) NO. 35 FLORENCE ST. Addition to dwelling.
Owner—Dr. Fred Wolfsohn, Premises.
Architect—Not Given. \$1000

DWELLING

(287) W HAMPSHIRE 150 N 19th St. One-story and basement frame dwelling.
Owner—C. Monaghan.
Architect—Not Given. \$3000

ALTERATIONS

(288) NO. 111 SUTTER ST. Alter office.
Owner—Montgomery-Sutter Bldg. Co., Premises.
Architect—W. C. Ambrose. \$1500

DWELLING

(289) NW CERVANTES AND AVILA. One-story and basement frame dwelling.
Owner—R. Follioti, 949 Filbert St., San Francisco.
Architect—Not Given. \$3750

DWELLING

(290) E CERVANTES 37 N Avila. One-story and basement frame dwelling.
Owner—R. Follioti, 949 Filbert St., San Francisco.
Architect—Not Given. \$3750

FLATS

(291) S FRANCISCO 143 W Divisadero. Two-story and basement frame (2) flats.
Owner—G. Mascone, 25 Mallorca Way, San Francisco.
Architect—Not Given.
Contractor—G. Ferrari & Son, 1966 Filbert St., S. F. \$600

DWELLING

(292) E TWENTY-FIRST AVE. 330 S Ocean Ave. One-story and basement frame dwelling.
Owner—A. J. Herzig, 635 Victoria St. San Francisco.
Architect—F. F. Amandes, 1879 18th Ave., San Francisco. \$4000

DWELLING

(293) E TWENTY-FIRST AVE 125 N Quintara St. One-story and basement frame dwelling.
Owner—Mrs. M. Bordi, 2674 McAllister St., San Francisco.
Architect—Not Given. \$2750

DWELLING

(294) E TWENTY-FIRST AVE. 250 S Ocean Avenue. One-story and basement frame dwelling.
Owner—A. J. Herzig, 635 Victoria St. San Francisco.

Architect—F. F. Amandes, 1879 18th Ave., San Francisco. \$4000

ALTERATIONS

(295) NO. 2301-2303 MARKET ST. Alter store front.
Owner—A. F. Petterson, 2 Diamond St., San Francisco.
Architect—Not Given.
Contractor—L. R. Andersen, 253 States St., San Francisco. \$1000

DWELLING

(296) E TWENTY-FIRST AVE. 125 N Quintara St. One-story and basement frame dwelling.
Owner—Mrs. M. Bordi, 2674 McAllister St., San Francisco.
Architect—Not Given. \$2750

ALTERATIONS

(297) NO. 799 MARKET ST. Alter store.
Owner—Mrs. J. Joyce, 799 Market St., San Francisco.
Architect—Not Given.
Contractor—Mullen Mfg. Co., 60 Rausch St., S. F. \$1500

ALTERATIONS

(298) NO. 1401-27 SANSOME ST. Alter shed.
Owner—Globe Brewing Co., Greenwich and Sansome Sts., San Francisco.
Architect—Not Given.
Contractor—J. Del Favero, 666 Mission St., San Francisco. \$4000

ALTERATIONS

(299) GREENWICH AND TELEGRAPH Hill Blvd. Alter apartments
Owner—M. De Martini, 436 Greenwich St., San Francisco.
Architect—Not Given. \$2000

DWELLINGS

(300) W 34th AVE. 245 S Kirkham; two 1-story and basement frame dwellings.
Owner—Whitny Inv. Co., 36th Ave. and Kirkham St.
Architect—Not Given. \$3350 ea.

ALTERATIONS

(301) SW 19th and HAMPSHIRE; alter dwelling.
Owner—M. Masuro, 2601 19th.
Architect—Not Given.
Contractor—Masarie and Cuneo, 2550 19th Ave. \$1000

FLATS

(302) W HAMPSHIRE 48 S 19th; 2-story and basement frame (two) flats.
Owner—M. Masuro, 2601 19th.
Architect—Not Given.
Contractor—Masarie and Cuneo, 2550 19th Ave. \$5000

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
160	Woolsey	Dildine	2000
161	Crosetti	Beckett	3850
162	Woolsey	Dildine	5000
163	Warner	Owner	5000
164	Taylor	Owner	4000
165	Gerlach	Grey	8500
166	Western	Sjoberg	1400

DWELLING

(160) 6005 SHAFTER AVE., OAKLAND; one-story 2-room dwelling.
Owner—Leon H. Woolsey, 6001 Broadway, Oakland.
Architect—John Geering, 975 Hillcroft Circle, Oakland.
Contractor—Dildine & McKibben, 350 63rd St., Oakland. \$2000

SERVICE STATION

(161) SE COR. EIGHTH Avenue and Park Blvd., **OAKLAND**; 1-story steel super-service station.
 Owner—Giacomo Crossetti, 1361 17th St., Oakland.
 Architect—Not Given.
 Contractor—Beckett and Wight, 224 Scenic Ave., Piedmont. \$3850

DWELLING

(162) 6007-09-11 SHAFTER Avenue, **OAKLAND**; one-story 9-room 3-family dwelling.
 Owner—Leon H. Woolsey, 6001 Broadway, Oakland.
 Architect—John Geering, 975 Hillcroft Circle, Oakland.
 Contractor—Dildine & McKibben, 350 63rd St., Oakland. \$5000

(163) 298 EUCLID AVE., **OAKLAND**; one-story 7-room dwelling.
 Owner and Builder—S. W. Warner, 280 Euclid Ave., Oakland.
 Architect—Not Given. \$5000

DWELLING

(164) NO. 733 BEATIE ST., **OAKLAND**. One-story 6-room dwelling.
 Owner—F. S. Taylor, P. O. Box 95, Fruitvale.
 Architect—Not Given. \$4000

RESIDENCE

(165) LOCATION OMITTED, **PIEDMONT**. Residence.
 Owner—H. H. Gerlach, 132 Palm Dr., Piedmont.
 Architect—Not Given.
 Contractor—J. F. Grey, 4718 Congress Ave., Oakland. \$8500

PLATFORM & SHED

(166) N THIRD ST., 29 E Madison St., **OAKLAND**; loading platform and shed.
 Owner—Western Pacific R. R., Mills Bldg., San Francisco.
 Architect—Not Given.
 Contractor—N. H. Sjoberg & Son, 632 Call Bldg., San Francisco. \$1400

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

60 S. P. Co.	Duncanson	5965
59 Emporium	Langlais	6485
61 Temple	Hummer	4000

RECONSTRUCTION

(60) BET. SLIPS KNOWN AS NOS. 9 and 10 at terminal of Southern Pacific Golden Gate Ferries, Ltd., at foot of Mission St. All work for reconstruction of outer cluster of spring line.
 Owner—Southern Pacific Golden Gate Ferries, Ltd., 65 Market St., San Francisco.
 Architect—Not Given.
 Contractor — The Duncanson-Harrelson Co., deYoung Bldg., San Francisco.
 Filed May 12, '33. Dated May 5, '33.
 At close of each month..... 75%
 Usual 35 days..... 25%
TOTAL COST, \$5965
 Bond, \$6000. Surety, United States Guarantee Co. Limit, 90 days. Forfeit none. Plans and specifications filed.

ELECTRICAL WORK, ETC.

(59) MISSION ST. bet. 4th and 5th; installation of all electrical work in connection with construction of new warehouse bldg., new basement bldg. and alterations and additions to present Hulse-Bradford Bldg. and Red Cross Bldg.
 Owner—The Emporium, 835 Market.
 Engineers—Leland & Haley, 58 Sutter Street.
 Contractor—Charles A. Langlais, 472 Tehama Street.
 Filed May 12, '33. Dated April 28, '33.

First of each month.....75%
 Completion payment to bring total payments up to 75% of contract price.
 Usual 35 days.....25%
TOTAL COST, \$6485
 Bond, \$6485. Sureties, U. S. Guarantee Co. Plans and Spec. filed.

DWELLING

(61) E LATONA 76 S Bayview St.; all work for 3-story frame dwelling and garage.
 Owner—Temple Evangelical Lutheran Church, Inc., E Latona 76 S Bayview St.
 Architect—Not Given.
 Contractor—William T. Hummer, 5811 Mission Street.
 Filed and Dated, May 13, 1933.
 When frame is up.....\$1000
 When plaster is on..... 1000
 When building is completed..... 1000
 Usual 35 days..... 1000
TOTAL COST, \$4000
 Limit, 90 days. Plans filed.

SAN FRANCISCO UNDER \$1000

ALTER flats, \$30; 2270 Bryant St.; owner, L. Sabel, 2270 Bryant St.
 SIGN, frame, \$18; 308 Columbus Ave.; owner, Tosca Cafe, Premises.
 SIGN, electric, \$250; 236 Leavenworth St.; owner, Frallicciardi & Voss, Premises; contractor, Elec. Products Corp., 255 Golden Gate
 SIGN, frame, \$20; 665 Howard St.; owner, H. R. Basford Co., Prem.
 ALTER dwelling, \$200; 1251 Tenth Ave.; owner, Mrs. R. Marquard, 1251 10th Ave.; contractor, Pacific Terrazzo Co., 2144 Lombard St.
 SIGN, frame, \$15; 446 Market Street; owner, H. Basford, 446 Market.
 SIGN, electric, \$300; 482 Sutter St.; owner, Crazy Water Co., Prem.; contractor, Neon Sign Service Co., 1707 Folsom St.
 UNDERPIN pier, \$150; NE Sacramento and Stockton Sts.; owner, R. S. Goldberg, New York; contractor, Geo. Wagner, 181 South Park.
 SIGN, electric, \$265; 1207 Golden Gate Ave.; owner, Schindler's Koshier Restaurant, 1207 Golden Gate Ave.; contractor, Neon Sign Service Co., 1707 Folsom St.
 SIGN, electric, \$250; 723 Vallejo St.; owner, J. Dutra, 723 Vallejo St.; contractor, Brumfield Elec. Sign Co., 965 Folsom St.
 SIGN, electric, \$400; 3069 16th St.; owner, Kreling's, Premises; contractor, Elec. Products Corp., 255 Golden Gate Ave.
 SIGN, electric, \$400; 164 8th St.; owner, Tom's Buffet, Premises; contractor, Brumfield; 965 Folsom
 STUCCO front of dwelling, \$190; 2823 Laguna St.; owner, A. Magliano, 2823 Laguna St.; contractor, L. Polidoro & Son, 780 Vallejo St.
 ALTER stores and hotel, \$600; 226 Sixth St.; owner, Miss G. Lewis, % Contractor; contractor, G. P. W. Jensen, 320 Market St.
 REPAIR fire damage to dwelling, \$676 92 Wheat St.; owner, E. Masso, 92 Wheat St.
 ALTER store front, \$150; 954 Market St.; owner, A. E. Perkins and J. H. Evans, 954 Market St.
 SIGN, electric, \$250; 2257 Fillmore St. owner, A. Schmidt, 2257 Fillmore contractor, Brumfield, 965 Folsom.
 SIGN, electric, \$175; 315 Eighth Ave.; owner, Terminal Coffee Shop, 315 8th Ave.; contractor, QRS Neon Corp., 690 Potrero Ave.
 FLUES (2) patent, \$50; S San Dreis 218 S San Anselmo; owner, A. B. Matthews; contractor, W. P. Gass 60 Geary St.
 REPAIR fire damage to flats, \$500; 1207 Sanchez St.; owner, R. Geib, 1207 Sanchez St.; contractor, J. Callaghan, 900 Clayton St.

ALTER flats, \$310; 816 Bay St.; owner, B. Berrocqua, Premises.
 SIGN, electric, \$100; 19th Ave. and Ortega St.; owner, B. Johnson, Premises; contractor, Brumfield 965 Folsom St.
 ALTER apartments, \$500; S Clay 204 W Larkin St.; owner, A. Parenti, 555 Hyde St.
 REPAIR fire damage to dwelling, \$494 1203 Sanchez St.; owner, Spencer, 1203 Sanchez; contractor, I. W. Coburn, 2048 Market St.
 REPAIR fire damage to garage, \$120; 696 12th Ave.; owner, Mrs. North, 696 12th Ave.; contractor, I. W. Coburn, 2048 Market St.
 ALTER dwelling, \$150; 825 Anza St.; owner, R. Bemej, 825 Anza St.
 ALTER flats, \$200; 2610 21st; owner, Baida & Co., 2610 21st.
 ADD to shop, \$500; 7 Zeno Place; owner, Hawley Forge & Mfg. Co., 7 Zeno Place.
 FLUES, 2 patent, \$50; N Filbert 30 W Webster; owner, Mr. Frascina 1666 Lombard St.; contractor, Bacigalupi & Dagneau, 1837 Union St.
 ALTER flats, \$250; 128-30 Downey; owner, J. Zycinski, 181 Downey.
 STUCCO front of apts., \$200; 1502 Florida; owner, C. Constantine, 3059 Army St.
 ALTER dwelling, \$50; 919 Central Ave. owner, Mrs. M. Naumoff, 919 Central Ave.

ALAMEDA COUNTY UNDER \$1000

ALTERATIONS, \$150; 2964 Magnolia St., Berkeley; owner, J. P. Ritchie, 2964 Magnolia, Berkeley; contractor, Alpine Wood & Sup. Co.
 ALTERATIONS, \$300; 1235 The Alameda; owner, R. M. Geiser, 1235 The Alameda; contractor, Carl M. Geiser, 1235 The Alameda, Berkeley.
 ALTERATIONS, \$75; 925 The Alameda Berkeley; owner and contractor, J. Pattinson, 925 The Alameda, Berkeley.
 REPAIRS, fire, \$250; 3061 Richmond Blvd., Oakland; owner, Geo. J. Holton, 3059 Richmond Blvd., Oakland; contractor, W. F. Lynn, 1037 Ashmount Ave., Oakland.
 GARAGE, 1-story, \$50; 3660 Laurel Ave., Oakland; owner and contractor, E. W. Winther, 3660 Laurel Ave., Oakland.
 SHED, 1-story, \$175; 4169 Piedmont Ave., Oakland; owner, Dr. Ray Moore, 4169 Piedmont Ave., Oakland; contractor, A. A. Haskill, 255 Ridgeway Ave., Oakland.
 ADDITION, \$175; 940 E 10th St., Oakland; owner and contractor, Al. Hanna, 1840 Irving Ave., Oakland.
 SIGN, electric, \$200; 3326 Grand Ave., Oakland; owner, L. H. Farr; contractor, Brumfield Elec. Sign Co., 965 Folsom St., San Francisco.
 ALTERATIONS, \$20; 530 8th St., Oakland; owner, C. P. Johnson, 712 Longridge Road.
 ALTERATIONS, \$750; 381 61st St., Oakland; owner, Paul Petri, Prem.
 ALTER for garage, \$200; 5211 Market St., Oakland; owner, Secondo Squarzano, 911 52nd St.
 REPAIRS, \$300; 2453 Hopkins St., Oakland; owner, Mary E. Strathern, 2417 E-28th St.
 SIGN, electric, \$150; 5640 Grove St., Oakland; owner, Grove Dairy; contractor, Imp Electric Sign Co., 2228 Myrtle St.
 SIGN, electric, \$80; 2910 Broadway, Oakland; owner, Weaver Motor Co.; contractor, Ace Elec. Sign Co., 1243 E-12th St.
 SIGN, electric, \$195; 3333 Lakeshore Ave., Oakland; owner, Hollywood Cleaners; contractor, Imp Elec. Sign Co.; 2228 Myrtle St.
 SIGN, electric, \$125; 1002 7th St., Oakland; owner, M. Delaney; contractor, Ace Elec. Sign Co., 1243 E-12th St.

BUILDING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

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| 2.—Bonds | 12.—Power Plants |
| 3.—Churches | 13.—Public Buildings, Fire Houses and Jails |
| 4.—Factories and Warehouses | 14.—Residences |
| 5.—Flats | 15.—Schools |
| 6.—Garages and Service Stations | 16.—Banks, Stores and Offices |
| 7.—Federal Buildings | 17.—Theatres |
| 8.—Club Buildings | 18.—Wharves & Docks |
| 9.—Hospitals | 19.—Misc. Const. |
| 10.—Hotels | 20.—Misc. Supplies & Materials |

1—APARTMENTS

Preliminary Plans Completed.
APARTMENTS Cost, \$45,000
SAN FRANCISCO. NW Nineteenth and Church Streets (60x70 ft.)
 Five-story apartment building (12 3-room apts.) two-story concrete garage and three-story frame and stucco apartment (canvas walls, steam heating system, gas fired boilers, hot water, flat roof, tile showers and baths, hardwood floors, mahogany trim, etc.
 Owner—George M. Eastman, 209 Mississippi St., San Francisco.
 Architect—S. Heiman, 605 Market St., San Francisco.
 Financing arrangements are now under way.

Wrecking Contract Awarded.
APARTMENTS Cost, \$—
CAPITOLA, Santa Cruz Co., Cal.
 Modern apartment.
 Owner—C. E. Blanchard, Santa Cruz.
 Architect—Not Given.
Wrecking—Dolan Wrecking Co., San Pablo Ave. and Ashby St., Oakland.
 Present building known as the Bay View Apartments will be razed and a modern apartment constructed at a later date.

Owner Taking Segregated Bids.
APARTMENTS Cost, \$20,000
SAN FRANCISCO. N Broadway East Hyde Street.
 Three-story and basement frame and stucco apartments (six three-room apts.) composition roof, gas hot air heating system, hardwood floors, tiled baths, etc.
 Owner—Jos. Vigil, 3110 Laguna St.
 Architect—R. R. Irvine, 2048 Market Street.

Plans Being Revised.
REMODEL Cost, \$30,000
SAN FRANCISCO. No. 1164 Market Street.
 Remodel four-story concrete loft building for apartments (add one story, 30 2-room apts., 4 stores).
 Owner—A. W. Wilson.
 Architect—C. A. Meussdorffer, Humboldt Bank Bldg., San Francisco.
 All bids previously taken were rejected and new bids will be asked shortly.

To Be Done By Day's Work.
ALTERATIONS Cost, \$2000
SAN FRANCISCO. Greenwich and Telegraph Hill Blvd.
 Alterations to frame apartments.
 Owner—M. De Martini, 436 Greenwich Street.
 Architect—Not Given.

2—BONDS

LOS ANGELES, Cal.—Until 2 P. M., May 29, bids will be received by County Supervisors for the purchase of bonds of County Street Opening District No. 95 in the sum of \$31,862.71. Bonds are dated March 11, 1933 and bear interest at 6%. Certified or cashier's check, 3%. Mame B. Zeatty, 501 Hall of Records, Clerk of the Board.

HUNTINGTON PARK, Los Angeles Co., Cal.—Huntington Park architects and designers have been invited to submit perspective and floor plans for the proposed new city hall to be erected in Huntington Park. Designer will be entered in competition and the plan decided to be most practical will be selected by the city council on May 22. Data regarding floor space and other information may be obtained in the office of the Huntington Park building department. An election will be held on June 6, at which time a \$100,000 bond issue, to provide funds for the new structure will be voted on.

3—CHURCHES

Plans Being Figured.
BUILDING Cost, \$15,000
BERKELEY, Alameda Co., Cal. Durant and Bowditch Streets.
 Two-story and basement frame and stucco building (shingle and composition roof, gas hot air heating system, etc); will contain reading room, apartment, committee room, auditorium to seat approximately 200.
 Owner—Christian Science Society, U. S., 2215 Union St., Berkeley.
 Architect—Henry H. Gutterson, 526 Powell St., San Francisco.

Planned.
CHURCH Cost, \$—
PITTSBURG, Contra Costa Co., Cal. Albers Ave. (50x186).
 New church.
 Owner—Ambrose Community Church.
 Contract Awarded.
 Edgar Hartsock, Pittsburg, chairman of the building committee.

4—FACTORIES & WAREHOUSES

Contract Awarded.
ALTERATIONS Cost, \$5000
SAN FRANCISCO No. 1401 Sansome Street.
 Alterations to shed.
 Owner—Globe Brewing Co., Greenwich and Sansome Sts., S. F.
 Architect—Not Given.
 Contractor—J. Del Favero, 666 Mission St., San Francisco.

Concrete Contract Awarded.
MFG. PLANT \$30,000 with equip.
MODESTO, Stanislaus Co., Cal. Kansas Avenue.
 One and two-story reinforced concrete and corrugated iron powdered milk manufacturing plant (70x60 feet); gravel roof tanks, cooling and refrigeration equipment, etc.
 Owner—Bordens Western Co. (J. B. Hunt, Mgr.), Kansas Ave., Modesto.
 Plans by Engineering Dept. of Owner.
Concrete—J. B. Hunt, Kansas Ave., Modesto.
 Contract for the building will be awarded within a few days.

Insulation Contract Awarded.
ALTERATIONS Cost, \$40,000
SAN JOSE, Santa Clara Co., Cal. The Alameda.
 Alterations and additions to brewery and malt house (piping and fittings equipment, etc.)
 Owner—Pacific Brewing & Malt Co., (Charles Clope et al), Russ Bldg., San Francisco.
 Architect—W. P. Day, Financial Center Bldg., San Francisco.
 Contractor—Cahill Bros., 206 Sansome St., San Francisco.
Insulation—Mundet Cork Corp., 440 Brannan St., San Francisco.
 Concrete work will be done by day's labor.

Contract Awarded.
SHED, ETC. Cost, \$1400
OAKLAND, Alameda Co., Cal. N Third St., 29 E Madison St.
 Loading platform and shed.
 Owner—Western Pacific Railroad Co., Mills Bldg., San Francisco.
 Plans by Engineering Dept. of Owner.
 Contractor—N. H. Sjoberg & Son, 632 Call Bldg., San Francisco.

SAN FRANCISCO—Chas. A. Langlais, 472 Tehama St., at \$6485 awarded contract by the Emporium for all electrical work in connection with the construction of the new warehouse building, new basement building and alterations and additions to present Hulse-Bradford Building and the Red Cross Building.

Wrecking Started.
ALTERATIONS Cost, \$40,000
SAN JOSE, Santa Clara Co., Cal. The Alameda.
 Alterations and additions to brewery and malt house (piping and fittings equipment, etc.)
 Owner—Pacific Brewing & Malt Co., (Charles Clope, et al), Russ Bldg., San Francisco.
 Architect—W. P. Day, Financial Center Bldg., San Francisco.
 Contractor—Cahill Bros., 206 Sansome St., San Francisco.
 Wrecking is being done by day's labor. Sub-bids will be awarded within one week.

Planned.
BREWERY Cost, \$—
OLYMPIA, Washington.
 New brewery.
 Owner—Schmidt Brewing Co., W. I. Hollingsworth Bldg., 6th and Hill Sts., Los Angeles.
 Architect—Not Given.
 Officers of the Schmidt Brewing Company are: F. W. Schmidt, Pres.; F. T. Schmidt, Vice-President; Henry F. Hagemann, Treasurer; John B. Peyton, Secretary.

BREWERY Cost, \$—
SALEM, Oregon.
 New brewery.
 Owner—Schmidt Brewing Co., W. I. Hollingsworth Bldg., 6th and Hill Sts., Los Angeles.
 Architect—Not Given.
 Officers of the Schmidt Brewing Company are: F. W. Schmidt, Pres.; F. T. Schmidt, vice-President; Henry F. Hagemann, Treasurer; John B. B. Peyton, Secretary.

Bids Opened.
WAREHOUSE, ETC. Cost, \$—
SAN FRANCISCO. 447-453 Broadway.
 Three-story Class C brick and steel warehouse, manufacturing factory hotel and three stores.
 Owner—E. Parducci and P. Domenici, 505 Sansome Street.

Architect—Irvine and Ebbets (R. R. Irvine, architect) 2048 Market St.
 Low Bidder—A. J. Novelli, 550 Montgomery Street.

Following is a complete list of bids:
 A. J. Novelli\$13,235
 U. Pera 14,005
 Deluca & Son 14,975
 Peter Sartorio 15,414
 E. Gall 15,450
 Wm. Spivock 15,915
 San Francisco Const. Co. 16,404
 L. M. Bruce 16,416
 A. Truffelli 16,810
 F. C. Amoroso & Sons 16,899
 C. Cicero 18,756
 Louie Sartorio 18,886
 Alternates may be seen at office of Daily Pacific Builder.

Bids held under advisement.

Contract Awarded.

REBUILD Cost, \$40,000
 MARTINEZ, Contra Costa Co., Cal.
 Rebuild portions of refinery recently destroyed by fire (bleacher house, steel construction, etc.)
 Owner—Shell Oil Co. (Mr. Day in charge) Martinez.

Plans by Engr. Dept. of Owner.
 Contractor—Judson Pacific Co., 18th and Campbell Sts., Oakland.

Contract Awarded.

CANNERY Cost, \$—
 SAN JOSE, Santa Clara Co., Cal.
 One-story steel frame cannery (105x179 ft.) corrugated iron sides and roof, steel trusses, wood floors and floor joists, concrete foundations, etc.

Owner—U. S. Products Co., Race St. and Moorpark, San Jose.
 Architect—Binder & Curtis, 35 W-San Carlos St., San Jose.
 Contractor—R. O. Summers, 17 N-First St., San Jose.

Plans Being Completed.

REMODEL Cost, \$10,000
 SANTA ROSA, Sonoma Co., Cal.
 Remodel Class C winery (new roof, machinery and equipment).
 Owner—Grace Bros., Santa Rosa.
 Engineer—L. H. Nishkian, 525 Market St., San Francisco.

Machinery and equipment will bring the cost of improvements to \$40,000. Plans will be completed within one week.

Preparing Preliminary Plans.

BREWERY Cost, \$200,000
 SAN BERNARDINO, Calif. Foothill Blvd. near Fifth St.
 Three-story reinforced concrete brewery (250x100) capacity of 400 barrels of beer daily.

Owner—San Bernardino Brewing Co.
 Plans by Gay Engr. Corp., 2650 Santa Fe Ave., Los Angeles.

Officers of the company, are: Frank J. Solt, president, San Bernardino; Ned Sparks, vice-president; Jos. H. Wilson, secretary and treasurer.

Preparing Plans.

BREWERY Cost, \$—
 IMPERIAL, Imperial Co., Cal.
 BREWERY (adobe walls and timber interior) capacity of 60 barrels daily).

Owner—Imperial Brewing Co. (Edward D. Moormeister and George L. Carls), 3016 Vernon Ave., Los Angeles.

Plans by W. Harry Hillier, 3016 Vernon Ave., Los Angeles.

Contract Awarded.

ALTERATIONS Cost, \$1500
 SAN FRANCISCO. No. 675 Treat Ave.
 Alterations to brewery.
 Owner—Regal Products Co., 675 Treat Ave., San Francisco.

Engineer—H. Soult, 17th and Wisconsin St., San Francisco.

Contractor—Mission Concrete Co., 272 Turk St., San Francisco.

Sub-Contracts Awarded.

LAUNDRY Cost, \$—
 LOS GATOS, Santa Clara Co., Cal.
 One-story concrete laundry (26x60 ft.) tar and gravel roof, etc.

Owner—J. Libante.
 Architect—H. C. Baumann, 251 Kearny St., San Francisco.

Contractor—Vannucci Bros., 1875 San Bruno Ave., San Francisco.

Plumbing—Berryman and Son, Los Gatos.

Electric—Roy Davenport, Los Gatos.
 Steel Sash—East Bay Glass Co., 621 Sixth St., Oakland.

Cement—Santa Cruz Portland Cement Co., Crocker Bldg., San Francisco
 Sub-bids are wanted on glass, roofing and mill work.

As previously reported, lumber contract awarded to Sudden Lumber Co., Evans and Quint Sts., San Francisco; reinforcing steel to W. C. Hauck Co., 280 San Bruno Ave., San Francisco.

Plans Being Figured

PLANT Cost, \$45,000
 VISALIA, Tulare Co., Cal. Ben Mad-dox Way.

One-story and basement walnut packing plant (120x90 ft.) several mezzanine floors, concrete foundations, basement floor and loading platform, wood frame construction, woor roof trusses, composition roofing, sheet metal skylights, red-wood siding, wood sash, factory grade maple main floor, toilets, etc.

Owner—Sequoia Walnut Growers' Association (Fletcher Ayres, President), Visalia.

Architect—Albert C. Martin, Higgins Bldg., Los Angeles

Bids are being received by the architect and owner from contractors located in the Visalia district.

As previously reported, excavation contract awarded to Orval Jeffers, Porterville.

Plans Being Prepared.

BREWERY Cost, \$350,000
 PORTLAND, Oregon.

Reinforced concrete brewery (100,000 barrel capacity per year); modern machinery, storage cellars, concrete fermenting tubs, etc. (20,000 barrels storage).

Owner—Oregon Breweries & Hop Farms, Affiliated, James E. Edmiston, President, American Bank Bldg., Portland, Oregon.

Plans by Engineering Dept. of Owner. Other officers of the company are C. H. Eisman, Secretary-Treasurer; Dane J. Purvis, Vice-President; Frederick Glatz and Frank E. Watkins, Directors.

Estimates Being Taken.

FACTORY UNIT Cost, \$—
 BERKELEY, Alameda Co., Cal.
 Eights, Ninth, Gilman and Camelia Streets.

Structural steel and corrugated iron factory unit for manufacturing of ventilating apparatus, etc.

Owner—B. F. Sturtevant Co., 2530 6th St., Berkeley (Mr. Dixon in charge), Monadnock Bldg., S. F.
 Private Plans.

Concrete Contract Awarded.

ALTERATIONS Cost, \$4000
 SAN FRANCISCO. Twelfth & Bryant Streets.

Alterations to brewery.

Owner—Rainier Brewery, Premises.
 Engineer—Leland Rosener, 233 Sansome St., San Francisco.

Contractor—Lindgren & Swinerton, Inc., 225 Bush St., San Francisco.

Concrete—Golden Gate Atlas Materials Co., 16th and Harrison Sts., S. F.

As previously reported, structural steel awarded to Western Iron Works, 141 Beale St.

SAN FRANCISCO—The Emporium awarded the following contract in connection with the construction of the Class A warehouse under construction on Mission Street, between Fourth and Fifth, for which K. E. Parker Company, 135 South Park, is general contractors.

Elevator—Otis Elevator Co., 1 Beach Street.

Conveyors—Lamson Company, 611 Howard Street.

Bids on steel shelving, painting, etc. will be awarded shortly.

OAKLAND, Alameda Co., Cal.—Golden Gate Sheet Metal Works, 1422 14th Ave., Oakland, at \$140 submitted low bid to City of Oakland Port Commission, for sheet metal partitions in Hangar No. 1 at the Oakland Air Port. Following bids received: Golden Gate Sheet Metal Works...\$140
 Melrose Sheet Metal Works..... 155
 Central Sheet Metal Works..... 183
 Bids under advisement.

5—FLATS

May 12, 1933

Contract Awarded.

FLATS Cost, \$8000
 SAN FRANCISCO. N Francisco 193 W Broderick St.
 Two - story and basement frame and stucco flats (2 flats).

Owner—M. P. Jorgensen, 2225 North Point Street.

Architect—Irvine & Ebbets, 2048 Market Street.

Contractor—Sbarboro and Jorgensen, 2225 North Point Street.

(1472) 5

May 12, 1933

Sub-Contracts Awarded.

FLATS Cost, \$8000
 OAKLAND, Alameda Co., Calif. 539-533 Prince Street.

Two - story and basement frame and stucco flats (11 rooms).

Owner—F. Favero, 787 Mandana Blvd. Oakland.

Architect—Not Given.

Contractor—W. A. Anderson, 531 Van Buren Ave., Oakland.

Rough Lumber—Chas. Lamb Co., Emeryville.

Plastering—J. Rinaldi, 836 52nd St., Oakland.

Plumbing—W. Lahr, 534 Westley Ave. Oakland.

Tile Work—Superior Tile & Products Co., 3743 Broadway, Oakland.

Sub-bids are being taken on hardwood floors, sheet metal, brick work, mill work, painting, roofing, concrete work and electric wiring. Forms are now being put in.
 (1394) 1st report May 5, 1933. 5

May 17, 1933

Contract Awarded.

FLATS Cost, \$6000
 SAN FRANCISCO. S Francisco St. 143 W Divisadero St.

Two-story and basement frame and stucco flats (2 flats).

Owner—G. Mascone, 25 Mallorca Way, San Francisco.

Architect—Not Given.

Contractor—G. Ferrari & Sons, 1966 Filbert St., San Francisco.

Contract Awarded.

FLATS Cost, \$5000
 SAN FRANCISCO. W Hampshire St. 48 S 19th St.

Two - story and basement frame and stucco flats (two flats).

Owner—M. Masuero, 2601 19th St.

Architect—Not Given.

Contractor—Masarie and Cuneo, 2550 19th Street.

6—GARAGES & SERVICE STATIONS

May 12, 1933
Bids Wanted—To Close May 25. 11 A. M.

GARAGES Cost, \$—
SAN FRANCISCO. Presidio.
Eleven brick garages (tile roofs, overhead doors, concrete floors).
Owner—United States Government.
Plans by Constructing Quartermaster, Fort Mason, San Francisco.

Garages will be built in two groups of 7 and 4.

Date to open bids previously reported as May 26, which was in error.
(1292) 1st report April 25; 2nd May 10, 1933. 6

Contract Awarded.
SERVICE STATION Cost, \$4000
OAKLAND, Alameda Co., Calif. SE 8th Ave. and Park Blvd.
One-story steel super-service station.
Owner—Giacomo Crossetti, 1361 17th St., Oakland.
Architect—Not Given.
Contractor—Beckett & Wight, 224 Scenic Ave., Piedmont.

Sub-Contracts Awarded.
SERVICE STATION Cost, \$4000
OAKLAND, Alameda Co., Cal. SE Eighth Ave. and Park Blvd.
One-story steel super-service station.
Owner—Giacomo Crossetti, 1361 17th St., Oakland.

Architect—Not Given.
Contractor—Beckett & Wight, 224 Scenic Ave., Piedmont.

Iron Work—Michel & Pfeffer Iron Works, Inc., Tenth and Harrison Sts., San Francisco.

Plumbing—J. A. Fazio, 402 Castro St., Oakland.

Concrete—Nat Lena, 1174 19th St., Oakland.

Electric—T. L. Rosenberg Co., 411 Webster St., Oakland.

Grading—Ariss-Knapp Co., 961 41st St., Oakland.

Plans Being Figured.
SERVICE STATION Cost, \$16,000
SACRAMENTO, Sacramento Co., Cal. Sixteenth and L Streets.
Service station.
Owner—Shell Oil Co., Shell Bldg., San Francisco.

Plans by Engineering Dept. of Owner.
Lessee—F. E. Kraus, 2030 23rd St., Sacramento.

Contract Awarded.
SERVICE STATION Cost, \$5000
SAN FRANCISCO. NE Seventeenth and Clayton Streets.
Steel service station.
Owner—Standard Oil Co., 255 Bush St., San Francisco.

Plans by Engineering Dept. of Owner.
Contractor—J. A. Grant, 82 Divisadero St., San Francisco.

Sub-Contracts Awarded.
GARAGE, ETC. Cost, \$4000
OAKLAND, Alameda Co., Cal. West 46th Ave. 100 N Clement St.
One-story garage, loading rack and retaining walls.

Owner—Richfield Oil Co., 248 Battery St., San Francisco.
Plans by Engineering Dept. of Owner.
Contractor—Fred J. Early Jr., 369 Pine St., San Francisco.

Miscellaneous Iron—Fair Mfg. Co. 617 Bryant St., San Francisco.

Reinforcing Steel—Gunn, Carle & Co., 20 Potrero Ave., San Francisco.

Lumber—Melrose Lumber Co., Melrose Hardware—Maxwell Hardware Co., 1320 Washington St., Oakland.

Ready-mix Concrete—Melrose Building Materials Co., Melrose.

Prospective Bidders.
GARAGES Cost, \$—
SAN FRANCISCO. Presidio.
Eleven brick garages (tile roofs, overhead doors, concrete floors).
Owner—United States Government.
Plans by Constructing Quartermaster, Fort Mason.

Garages will be built in two groups of seven and four.

Following have procured plans. Bids open May 25, 11 A. M.:

Charles Nelson Co., 230 California Street.

Leo Epp, 4745 Geary Street.

Pacific Mfg. Co., Monadnock Bldg.

D. Phillips, 228 Octavia St.

William Spivock, Hobart Bldg.

LeRoy Building Service, 165 Jessie Street.

Robert McCarthy, 1363 14th Ave.

Crane Co., 301 Brannan St.

A. Nelson, 242 Ocean Ave.

San Francisco Construction Co., 3159 Fillmore Street.

Reed & Reed, Hearst Building.

Schuler & McDonald, 1723 Webster St., Oakland.

T. B. Goodwin, 2950 Divisadero St.

T. I. Strand, 471 Colon Ave.

Frank J. Reilly, 666 Mission St.

7—FEDERAL BUILDING

WASHINGTON, D. C.—Custodian, Pasco, Washington, will ask bids shortly for seeding and planting at the U. S. Post Office at Pasco, Washington.

ALAMEDA, Alameda Co., Cal.—F. E. Turner, 557 Market St., San Francisco, at \$649 submitted low bid to Bureau of Public Roads, San Francisco, for furnishing and installing Venetian blinds on 79 windows in the Administration Building at Government Island, Alameda. Following bids received:

F. E. Turner, S. F.	\$649.00
W. F. McCrea, Oakland	658.15
(Fasteners)	15.80
D. N. & E. Walter Co., S. F.	694.55
E. C. Dehn, S. F.	745.00
Gunn, Carle & Co., S. F.	755.00
*American Seating Co., S. F.	809.00
	761.75

Western Venetian Blind Co., San Francisco 956.01

* Alternate bid including fasteners using materials other than those specified.

Bids held under advisement.
(1309) 1st report April 26, 1933. 7

WASHINGTON, D. C.—H. J. McKinley, 9305 Burton Way, Beverly Hills, Calif., at \$4182 submitted low bid to Treasury Department for painting plaster, etc., in the United States Post Office and Court House at Tucson, Arizona. Following bids received:

H. J. McKinley, Beverly Hills	\$4182
Bailey & McCay, Tucson, Ariz.	5949
Herbert F. Brown, Tucson, Ariz.	6290
Robert E. McKee, El Paso, Texas	6500
M. M. Sundt Co., Tucson, Ariz.	6795
Pima Pipe Co., Tucson, Ariz.	6950
Jay J. Garfield Bldg. Co., Tucson	7600

Bids held under advisement.
(1286) 1st report April 25, 1933 7

SAN RAFAEL, Marin Co., Calif.—W. & J. Sloane Co., 224 Sutter St., San Francisco, at \$359 submitted low bid to Constructing Quartermaster, Hamilton Field, for furnishing and installing linoleum in kitchens and pantries of twelve company officers' quarters at Hamilton Field (Marin Meadows) Bombing Base. Following bids received:

W. & J. Sloane Co., S. F.	\$359
Conklin Bros., S. F.	460
J. E. Higgins Lbr. Co., S. F.	474
Van Fleet-Freear Co., S. F.	477
D. N. & E. Walter Co., S. F.	515

Bids held under advisement.

Date Of Opening Bids Postponed Until May 24, 11 A. M.
HDQTRS. BLDG. Cost, \$40,000
SAN RAFAEL, Marin Co., Cal. Hamilton Field.

Concrete and hollow tile headquarters building (177 ft. long, 2-story center) tile roof, Spanish Mission style.

Owner—United States Government.
Plans by Constructing Quartermaster, Hamilton Field.

Prospective bidders previously reported. Plans and specifications are on file in the office of Pacific Constructor and may be inspected by those interested.

FORT LEWIS, Wash.—McDonald Bldg. Co., Tacoma, at \$31,624 awarded contract by Constructing Quartermaster, Fort Lewis, for ten additional structures to be erected at the Concurrent Training Camp at Fort Lewis. Work involves construction of one post exchange building, one storehouse, 1 officers' messhall and kitchen one headquarters building, one medical dispensary building, two officers' lavatories, and three enlisted men's lavatories. Construction is of concrete block walls, concrete floors and slate surfaced roofing.

WASHINGTON, D. C.—Custodian, Hoquiam, Washington, will ask bids shortly for waterproofing in connection with the U. S. Post Office at Hoquiam, Washington.

WASHINGTON, D. C.—Until June 5, 2 P. M., bids will be received by Treasury Department, Office of the Supervising Architect, Washington, D. C., for furnishing and installing interior lighting fixtures at the U. S. Post Office, etc., at Weiser, Idaho. Plans and specifications available from above office.

PETALUMA, Sonoma Co., Cal.—The Nielsen Furniture Company, 145 Kentucky St., Petaluma, awarded contract by Treasury Department, for furnishing and installing cloth shades in the new post office building in Petaluma.

LIVERMORE, Alameda Co., Cal.—Jos. J. Burdon & Sons, 1426 Macdonald Ave., Richmond, at \$1,593 submitted low bid to Construction Department, U. S. Veterans' Hospital, Livermore, for painting interior of three buildings at the Veterans' Hospital, Livermore. Following bids received:

J. J. Burdon & Sons, Richmond	\$1,593
A.B.C. Painting Co., S. F.	2,234
Anton Anderson, Palo Alto	2,295
Patterson Bros., Oakland	2,850
Pacific Painting & Decorating Co., San Francisco	2,888
R. A. Dehou, Oakland	2,913
M. A. Miller, Oakland	3,138
J. F. Ecker, Stockton	3,221
R. P. Paoli, S. F.	3,240
Gray & Burkhardt, Livermore	3,585
H. E. Shenk	4,248
Tondro & Bowers, Covina	4,533

Recommendation that contract be awarded to Jos. J. Burdon and Sons has been forwarded to Washington.

ALBUQUERQUE, New Mexico—Until May 26, 1 P. M., bids will be received by Reuben Perry, Superintendent, U. S. Indian Vocational School, Albuquerque, New Mexico, for roofing for superintendent's quarters and old club building at Albuquerque. Work involves

76 squares asbestos shingles;
376 asbestos ridge roll;
575 feet asbestos starter;
58 feet asbestos valley.

MERCED, Merced Co., Calif.—W. E. Cooper Lumber Co., 2035 East 15th

St., Los Angeles, awarded contract for floor covering to be installed in the U. S. post office under construction in Merced. North-Moller Co., general contractors; Allison & Allison, architects.

WASHINGTON, D. C.—Edwin F. Guth, Jefferson and Washington Aves., St. Louis, Mo., at \$1527 submitted low bid to Treasury Department, for furnishing and installing interior lighting fixtures at the U. S. Forest Service Building at Ogden, Utah. Complete list of bids will be published shortly.

EL RENO, Okla.—Murch Bros. Construction Co., 4111 Lindell Blvd., St. Louis, Mo., has been awarded a contract by the Treasury Department, at \$310,495 for the construction of cell block and utilities building at the U. S. Southwestern Reformatory, El Reno, Okla.

SAN RAFAEL, Marin Co., Calif.—J. C. Hemphill, 1775 O'Farrell St., San Francisco, can furnish figures for underground cable in connection with the headquarters building to be erected at Hamilton Field (Marin Meadows) Bombing Base, for which bids will be opened May 24.

Prospective Bidders.
BUILDING Cost, \$12,000
SAN FRANCISCO. Fort Mason.
 Two-story hollow tile field officers' quarters.
 Owner—United States Government.
 Plans by Constructing Quartermaster, Fort Mason.

Following have procured plans. Bids open May 25, 11 A. M.:
 Charles Nelson Co., 230 California Street.

Leo Epp, 4745 Geary Street.
 Pacific Mfg. Co., Monadnock Bldg.
 D. Phillips, 228 Octavia St.
 William Spivock, Hobart Bldg.
 LeRoy Building Service, 165 Jessie Street.
 Robert McCarthy, 1363 14th Ave.
 Crane Co., 301 Brannan St.
 A. Nelson, 242 Ocean Ave.
 San Francisco Const. Co., 315 9 Fillmore Street.

Reed & Reed, Hearst Building.
 Schuler & McDonald, 1723 Webster St., Oakland.
 T. B. Goodwin, 2950 Divisadero St.
 T. I. Strand, 471 Colon Ave.
 Frank J. Reilly, 666 Mission St.
 Val Franz, 666 Mission St.

PORTERVILLE, Tulare Co., Cal.—W. E. Cooper Lumber Co., 2035 E 15th St., Los Angeles, awarded contract for floor covering to be installed in the U. S. post office under construction in Porterville. Murch Bros. Const. Co., general contractor.

WASHINGTON, D. C.—Wilshire Decorating Co., 5225 Wilshire Blvd., Los Angeles, at \$325 awarded contract by Bureau of Yards and Docks for painting of station building at the Radio Direction Finder Station, Point Arguello; Spec. No. 7282.

WASHINGTON, D. C.—Until June 5, 2 P. M., bids will be received by Treasury Department, Office of the Supervising Architect, for a new entrance on First Ave. to the U. S. Federal office building at Seattle, Wash. Plans and specifications available from above office.

WASHINGTON, D. C.—The following are additional prospective bidders who have procured plans from Treasury Department for the purpose of submitting bids to that department on June 9 for waterproofing exterior walls, pointing and patching stonework at the Federal and Territorial

Building at Juneau, Alaska:
 Warrack Const. Co., Seattle, Wash.
 T. A. Kvale, Morris Bldg., Joliet, Illinois.
 Tricoal Products Co., 3215 Western Ave., Seattle, Wash.
 F. T. Crowe Corp., 216 Walker Bldg., Seattle, Wash.

REDLANDS, San Bernardino Co., Cal.—Until June 8, 2 P. M., bids will be received by Treasury Department, Office of the Supervising Architect, Washington, D. C., for furnishing and installing interior lighting fixtures at the U. S. Post Office, etc., at Redlands, Calif. Specifications available from above office.

WASHINGTON, D. C.—Until June 8, 2 P. M., bids will be received by Treasury Department, Office of the Supervising Architect, for furnishing and installing interior lighting fixtures at the U. S. Post Office at Oroville, Butte Co., Calif. Plans and specifications available from above office.

WASHINGTON, D. C.—Until June 5, bids will be received by Treasury Department, Office of the Supervising Architect, for insect screens for the U. S. Post Office and Court House at Sterling, Colorado. Specifications available from above office and from the Custodian of the building.

SAN FRANCISCO—E. T. Lesure, 87 Ross Circle, Oakland, at \$219 submitted low bid to Pacific Works Officer, Twelfth Naval District, for wood and glass partitions and concrete work pit at the District Staff Headquarters, Twelfth Naval District, San Francisco. Specification No. 7313. Following bids received:
 E. T. Lesure, Oakland.....\$219
 Joel Johnson, San Francisco..... 233
 M. E. Vukicevich, S. F..... 239
 Theo. Johans, S. F..... 248
 Denivelle & Duncan, S. F..... 269
 William Martin, S. F..... 272
 Clinton-Stephenson Con. Co., S. F. 284
 San Francisco Constr. Co., S. F. 290
 Bids held under advisement.

SAN FRANCISCO—A. B. C. Painting & Spray Co., 340 Guttenberg St., at \$344 submitted low bid to Public Works Officer, 12th Naval District, for painting and redecorating interior of Quarters No. 3 and 5 at the Naval Receiving Ship, Yerba Buena Island, San Francisco. Specification No. 7312. Following bids received:
 A. B. C. Painting & Spray Co.....\$344
 Pacific Painting & Decorating Co. 389
 R. P. Paoli 480
 Jos. J. Burdon..... 536
 Denivelle & Duncan..... 552
 Bids held under advisement.
 (1402) 1st report May 5, 1933 7

SAN FRANCISCO—Fred W. Snook, 596 Clay St., San Francisco, at \$830 for sewer extension and at \$1278 for water main extension submitted low bid May 16 to Constructing Quartermaster, Fort Mason, to extend sewers, water mains, roads and sidewalks and electric pole line for eleven double Non-Commissioned Officers' Quarters at Fort Winfield Scott. J. S. Heilmann, 2703 21st St., San Francisco, at \$3436 submitted low bid to construct road extension, sidewalks, etc. G. H. Armstrong Electric Co., 2890 Howard St., at \$474 submitted low bid to construct extension to electric pole line. Project involves:

- (1) construct sewer extension, etc., job complete;
- (2) construct water main extension, etc., job complete;
- (3) construct road extension, sidewalks, etc., job complete;
- (4) construct extension to electric pole line, etc., job complete;

(5) unit price for any additional sidewalk, per sq. ft.

- Bidders follow:
 (A) F. W. Snook, San Francisco *.
 (B) Pacific Pavements Co., San Francisco.
 (C) Oakland Sewer Construction Co., Oakland **.
 (D) Scott Co., San Francisco.
 (E) James Currie, Burlingame.
 (F) C. L. Harney, San Francisco.
 (G) A. Ramazzatti, San Francisco.
 (H) Hutchinson Co., Oakland.
 (I) G. M. Gest, San Francisco *.
 (J) William Spivock, San Francisco.
 (K) Herman Lawson, San Francisco.
 (L) Theo. Cohn, San Francisco.
 (M) Pay Improvement Co., San Francisco.
 (N) P. Donnelly, San Francisco.
 (O) Chas. B. Panacci.
 (P) E. J. Treacy, San Francisco.
 (Q) Shelly & Rohler.
 (R) P. L. Burr, San Francisco.
 (S) Thos. R. Smith, San Francisco.
 (T) J. S. Heilmann, San Francisco.
 (U) Sibley Grading Co.
 (V) A. G. Raisch, San Francisco.
 (W) G. H. Armstrong, San Francisco.
 (X) L. M. Radelfinger, San Francisco.
 (Y) Lynn & Heffernan, San Francisco.
 (Z) West Coast Electric Co., San Francisco.
 (AA) H. F. Haverkamp, San Francisco
 (BB) Globe Electric Co., San Francisco.
 (CC) H. S. Tittle Co., San Francisco
 (DD) N. C. Nicklassien, San Francisco.

* All or none.
 ** All or none—or sewer only.

	(1)	(2)	(3)	(4)	(5)
(A)	\$ 830	\$1278	\$—	\$—	—
(B)	1070	—	4850	—	.12
(C)	1080	1158	—	—	—
(D)	1100	1353	—	—	—
(E)	1150	1249	—	—	—
(F)	1160	—	5370	—	.15
(G)	1175	1575	—	—	—
(H)	1186	1310	6141	600	.125
(I)	1195	1390	5975	435	.12
(J)	1254	1587	4150	—	.20
(K)	1275	1440	—	—	—
(L)	1278	—	4850	—	—
(M)	1441	1287	4965	—	.15
(N)	1497	—	3984	—	.12
(O)	1576	—	—	—	—
(P)	1781	1553	4250	—	.125
(Q)	—	1339	—	—	—
(R)	—	1495	—	—	—
(S)	—	1600	—	—	—
(T)	1194	1280	3436	—	.12
(U)	—	—	4290	—	.15
(V)	—	—	4400	—	.16
(W)	—	—	—	474	—
(X)	—	—	—	—	525
(Y)	—	—	—	—	629
(Z)	—	—	—	—	630
(AA)	—	—	—	—	655
(BB)	—	—	—	—	780
(CC)	—	—	—	—	790
(DD)	—	—	—	—	1225

SUNNYVALE, Santa Clara Co., Cal.—Jones Bros. Asbestos Co., 370 Second St., San Francisco, at \$1314.83 submitted low bid to Twelfth Naval District, for acoustical treatment of supply office in storehouse building No. 12 at the Naval Air Station, Sunnyvale. Specification No. 7269. Work includes wood furring, acoustic tile, painting wood building and electric work for ceiling. Following bids received:
 Jones Bros. Asbestos Co., San Francisco\$1314.83
 Insulation Corp. of Calif..... 1520.00
 Western Asbestos Magnesia Co 1755.00
 Wayland Company 1790.00
 Plant Rubber & Asbestos Co. 1912.00
 Bids held under advisement.

ROCKWELL FIELD, Riverside Co., Calif.—Bannister-Field Co., 4101 Goodwin Ave., Los Angeles, submitted low bid to Constructing Quartermaster, Rockwell Field, at \$14,735 (hollow tile wall construction) for the erection of

one field officers' quarters at Rockwell Field. W. F. Wahrenberger, 9324 Henry St., San Diego, low on hollow concrete wall alternate. Will be a 1-story and part 2-story structure, 60x55 ft. in area, containing 9 rooms and 4 bathrooms; concrete foundations, clay or stone-tile walls or hollow monolithic concrete walls, stucco exterior, tile roof, marble and tile bathrooms, fireplace, waterproofing materials, oil-fired hot water heating system

8—CLUB BUILDINGS

SAN FRANCISCO—Venor Co., 36 Sacramento St., at \$6740 awarded contract by Regents of the University of California for floor coverings in the Medical Building, Third and Parnassus Aves., San Francisco.

Contract Awarded.
ADDITION Cost, \$4000
FRESNO, Fresno Co., Calif. 2136 Tu-lare Street.
Additions to lodge building.
Owner—B. P. O. E. premises.
Architect—Not Given.
Contractor—J. D. Shorb, 1295 Linden St., Fresno.

Bids Wanted—To Close May 27, 11 A. M.

CLUB HOUSE Cost, \$—
CHICO, Butte Co., Calif.
One-story frame club house.
Owner—Chico Art Club (Mrs. S. K. Troxel, chairman, building committee, 4030 4th St., Chico.)
Architect—Chester Cole, First National Bank Bldg., Chico.

Plans Being Figured — Bids Close May 26.

LODGE BLDG. Cost, \$45,000
FRESNO, Fresno Co., Cal. Tuolumne St. and Van Ness Ave.

Two-story stucco and tile lodge (auditorium to seat 800, 2 secondary lodge rooms, banquet hall to seat 300, clubrooms, ballroom, lighting and ventilating systems, etc. (replace lodge destroyed by fire).
Owner—Woodmen of the World (Jas. Nielsen, Clerk), Fresno.
Architect—Ernest J. Kump, Rowell Bldg., Fresno.

Building committee is headed by G. H. Ball, T. W. Patterson Bldg., Fresno.

Plans Being Prepared.
LODGE BLDG. Cost, \$—
SAN FRANCISCO. Fourteenth and Landers Streets (125x85 feet).

Two-story and mezzanine floor and basement Class B reinforced concrete lodge building (auditorium 55x100 ft.) handball and basketball courts, showers, banquet rooms, 7 lodge rooms, 2 card rooms and 2 committee rooms.
Owner—United Irish Societies.
Architect—John J. Foley, 770 Fifth Ave., San Francisco.

Bids will be asked about June 15 from a selected list of contractors.

9—HOSPITALS

Mill Work Bids Wanted.
HOSPITAL BUILDINGS

Contract Price, \$898,810
SAN FRANCISCO. Fort Miley.
Six-story reinforced concrete hospital (300 beds) 3-story concrete administration bldg., nurses' home, garage, storehouse, laundry, etc. (prepared roof).

Owner—United States Government.
Plans by U. S. Veterans' Administration, Veterans' Hospital, Palo Alto
Contractor—Herbert M. Baruch Corp., 625 S Olive St., Los Angeles.

10—HOTELS

Owner Taking Bids.
ALTERATIONS Cost, \$2000
VALLEJO, Solano Co., Cal. Sonoma and Capitol Streets.
Remodel swimming pool in hotel for supper club (dance floor, gallery, etc.)
Owner—Casa De Vallejo Hotel, Prem.
Architect—F. H. Slocombe, 131 Monte Cresta Ave., Oakland.
Bids are being taken from a selected list of contractors.

11—ICE AND COLD STORAGE PLANTS

Bids Wanted—To Close June 5th, 11 A. M.

REFRIG. PLANT Cost, \$—
SAN RAFAEL, Marin Co., Cal. Lucas Valley.

Refrigeration plant.
Owner—County of Marin (Rob. E. Graham, clerk, Board of Supervisors).

Plans by M. J. Lampert and L. W. Hunton, San Rafael.

All b'ds must be accompanied by a certified check, payable to the Chairman of the Board of Supervisors for not less than 10% of amount bid.

12—POWER PLANTS

LOS ANGELES, Cal.—The proposed county owned intercommunicating system under consideration by the Board of Supervision is estimated to cost, \$311,433.49. The unit costs are as follows:

Hall of Records, P.A.X., \$176,505.
County Hospital, P.A.X., \$74,829.
County Hospital, 24 P.B.X.'s, \$43,595.99.
Centralized tie line equipment, \$5,773.50.
Cable system, \$10,730.

SEATTLE, Wash.—Until May 25, 10 A. M. (date changed from May 24 as board of public works now meets on Thursdays instead of Wednesdays) bids will be received by G. W. Roberge, Secretary, Board of Public Works, Room 511, County-City Bldg., Seattle, to construct power house and tail race at Diablo power site; transmission line between Diablo Power Plant and Gorge Power Plant; assemble, erect and adjust power house apparatus previously purchased for Diablo Power Plant; purchase and install additional apparatus and equipment at the Diablo Power Plant.

Specifications obtainable from the above office. Certified check 5% payable to City Comptroller required with bid. Deposit of \$25 required for plans. Bidder must purchase at par and accrued interest, Municipal Light and Power bonds for \$2,354,000. Bidder shall state rate of interest not to exceed 6% per annum.

BRAWLEY, Imperial Co., Cal.—June 1 has been set as date for election to vote on the question of approving a contract between the city and the Municipal Engineering Co., Los Angeles, tentatively entered into between the parties for the construction of a municipal electric generating plant the cost to be paid from revenues.

13—PUBLIC BUILDINGS FIRE HOUSES & JAILS

Preparing Preliminary Plans.
ANNEX Cost, \$60,000
FRESNO, Fresno Co., Cal. Mariposa and M Streets.
Annex to county courthouse.
Owner—County of Fresno.

Architect—W. D. Coates, Jr., Rowell Bldg., Fresno.

Plans Being Prepared.
FIREHOUSE Cost, \$14,000
SACRAMENTO, Sacramento Co., Cal. L Street near Alhambra Blvd.
New firehouse (type of construction not determined).
Owner—City of Sacramento.
Architect—Charles De an, California State Life Bldg., Sacramento.

SAN JOSE, Santa Clara Co., Cal.—W. S. Dickey Clay Mfg. Co., 116 New Montgomery St., San Francisco, has been awarded the hollow tile contract by Dorsch and Thompson, Oakland, in connection with the construction of the one- and two-story reinforced concrete armory being erected in San Jose for the State of California. Plans prepared by the State Architect, Geo. B. McDougall, Public Works Bldg., Sacramento. Wm. Spivock, San Francisco, general contractor.

Iron Contract Awarded.
ALTERATIONS Cont. Price, \$12,897
SAN FRANCISCO. Municipal Auditorium.

Remodel 3rd and 4th floors of the Municipal Auditorium (house offices of the Board of Education).

Owner—City and County of San Francisco.

Plans by Bureau of Architecture (Charles Sawyer, Architect, City Hall).

Contractor—O. Monson, 475 Sixth St., San Francisco.

Iron—Rincon Iron Works, 55 Sterling St., San Francisco.

GRASS VALLEY, Nevada Co., Cal.—Until June 2, bids will be received by R. E. Deebie, Secretary, Board of Library Trustees, Grass Valley, for re-roofing of the Library Building in Grass Valley. Specifications available from above office.

14—RESIDENCES

Sub-Contracts Awarded.
RESIDENCE Cost, \$8000
KENTFIELD, Marin Co., Cal.

Two-story frame and shakes residence (7 rooms and 3 baths) shingle roof gas fired warm air heating system, pine floors, tiled baths, etc.
Owner—Roger Kent.

Plans by H. T. Howard, % Arthur Brown Jr., 251 Kearny St., San Francisco.

Contractor—Young & Horstmeyer, 461 Market St., San Francisco.

Lumber—Henry Hess, San Rafael.

Electric—North Bay Electric Co., San Rafael.

Plumbing—A. M. Justis, San Anselmo.

Contract Awarded.
RESIDENCE Cost, \$—
DALY CITY, San Mateo Co., Cal.

One-story and basement frame and stucco residence (6 rooms); Spanish type, tile and composition roof, gas hot air heating system, canvas walls, hardwall floors, tiled bath, etc.

Owner—Max Goldberg.
Architect—S. A. Colton, 544 Market St., San Francisco.

Contractor—G. J. Elkington & Sons, 330 Vicente St., San Francisco.

Plans Being Prepared.
RESIDENCE Cost, \$2500
BERKELEY, Alameda Co., Cal. Shasta Road.

One-story steel frame residence (4 rooms) composition and built-up roof, gas heating system, hardwood floors, wood panels, etc.

Owner—Withheld.
Architect—E. L. Snyder, 2102 Shattuck Ave., Berkeley.

Plans Being Prepared.
RESIDENCE Cost, \$6000
LOS ALTOS, Santa Clara Co., Calif.
 Two-story and basement frame and stucco residence (6 rooms and 2 baths) tile roof, gas heating system, hardwood floors, tile baths.
 Owner—Withheld.
 Architect—Farr & Ward, 68 Post St., San Francisco.
 Bids will not be taken for 2 months.

Contract Awarded.
RESIDENCE Cost, \$5000
SAN JOSE, Santa Clara Co., Cal. 709
 Riverside Avenue.
 Two-story frame and stucco residence (7 rooms).
 Owner—H. F. Fisher, 1088 Brace St., San Jose.
 Architect—Not Given.
 Contractor—George Kocher, Graphic Arts Bldg., San Jose.

Contract Awarded.
RESIDENCE Cost, \$5000
SACRAMENTO, Sacramento Co., Cal.
 1118 J Street.
 Reconstruct frame and stucco residence.
 Owner—A. C. Hulleman.
 Architect—Not Given.
 Contractor—Holdener Const. Co., 2608 R St., Sacramento.

Sub-Bids Being Taken.
RESIDENCE Cost, \$—
BERKELEY, Alameda Co., Cal. Cragmont District.
 One- or two-story frame and stucco residence.
 Owner and Builder—Milton Bonds, 296 Hilgard St., Berkeley.
 Plans by W. W. Dixon, 1844 5th Ave., Oakland.

Contract Awarded.
RESIDENCE Cost, \$5000
SACRAMENTO, Sacramento Co., Cal.
 1660 12th Avenue.
 Two-story frame and stucco residence (7 rooms).
 Owner—H. M. Struges.
 Architect—Not Given.
 Contractor—Watson and Bennie, 2719 Fifth Ave., Sacramento.

Contract Awarded.
PENT HOUSE Cost, \$10,000
SAN FRANCISCO. Turk and Mason Streets.
 Class A concrete and steel pent house (6 rooms, 1 bath) tile roof, steam heating system from main plant, extend elevator, hardwood floors, etc.
 Owner—Arnold Haase, Hotel Oxford, Turk and Mason Streets.
 Architect—Grimes & Schoening, Balovich Bldg., Third Avenue, San Mateo.
 Engineer—W. Adrian, 417 Market St.
 Contractor—Cahill Bros., 206 Sansome Street.
 Call for bids was rescinded.

Specifications Being Written.
RESIDENCE Cost, \$8000
SANTA ROSA, Sonoma Co., Cal.
 Two-story and basement frame and stucco residence (7 rooms and 2 baths) shingle roof, hot air heating system, steel sash, hardwood floors, etc.
 Owner—George Garrett, Santa Rosa.
 Architect—Russell Guerne DeLappe, 374 17th St., Oakland.
 Bids will be asked shortly.

Owner To Take Sub-Bids Next Week.
FARM HOUSES Cost, \$—
COTTONWOOD, Tehama Co., Cal.
 Group of frame farm buildings (superintendent's residence, alterations and additions to owner's residence equipment shed, etc.)
 Owner—Rancho Rio Alto, Cottonwood
 Architect—Albert Schroeffer, 681 Market St., San Francisco.

Plans Being Prepared.
RESIDENCE Cost, \$6500
WALNUT CREEK, Contra Costa Co.
 One-story frame and stucco residence (8 rooms and 2 baths) asbestos shingle roof, oil burning heating system, hardwood floors, tiled baths, etc.
 Owner—Withheld.
 Architect—Ray Keefer, 770 Wesley Ave., Oakland.
 Plans will be completed in about two weeks.

To Ask Bids Within One Week.
RESIDENCE Cost, \$5000
EMERALD LAKE, San Mateo Co.
 Two-story wood frame residence (five rooms, 2 sleeping porches) shake exterior walls, crushed granite roof, brick chimney, etc.
 Owner—Miss Mary Cook, % Architect.
 Architect—Chas. Strothoff, 2274 15th St., San Francisco.

Contract Awarded.
RESIDENCE Cost, \$7000
HILLSBOROUGH, San Mateo Co., Cal.
 Two-story and basement frame and stucco residence (7 rooms and 3 baths) shakes roof, gas air heating system, tile showers, oak floors terracing, etc.
 Owner—W. E. Jason Jr., % Architect.
 Architect—Farr & Ward, 68 Post St., San Francisco.
 Contractor—L. N. Pollard, 232 Franklin St., Redwood City.

Contract Awarded.
RESIDENCE Cost, \$8500
PIEDMONT, Alameda Co., Cal.
 Two-story and basement frame and stucco residence.
 Owner—H. H. Gerlach, 132 Palm Dr., Oakland.
 Architect—Not Given.
 Contractor—J. F. Grey, 4718 Congress Ave., Oakland.

Contracts Awarded.
RESIDENCE Cost, \$14,000
INVERNESS, Marin Co., Cal.
 Two-story frame residence, rustic exterior, shingle roofing, oil burners, brick and stone fireplaces, etc.
 Owner—Bruce Johnstone, Chicago.
 Architect—W. C. Ambrose, 244 Kearny St., San Francisco.
 Contractor—A. F. Mattock, 210 Clara St., San Francisco.
Road Work—G. Guibiani, Inverness.
Water Tank—Pacific Tank & Pipe Co., 230 California St., San Francisco.

Segregated Bids Being Taken.
ALTERATIONS Cost, \$3000
BERKELEY, Alameda Co., Cal. Location Withheld.
 Alterations and additions to two-story frame and stucco residence (interior tile work, plastering, tile roofing, brick work, exterior plaster, hardwood flooring, etc.)
 Owner—Alice Dibble.
 Architect—Wm. Rich, Orinda.
 Segregated bids on plumbing, heating, roofing, electrical work, plastering, brick work, etc., are being received by the architect.

Sub-Bids Being Taken.
RESIDENCE Cost, \$—
OAKLAND, Alameda Co., Cal. No. 1268 73rd Avenue.
 One-story and basement frame and stucco residence (shingle roof, plaster interior, etc.)
 Owner—J. W. Anderson, 1264 73rd Ave., Oakland.
 Architect—Not Given.
 Contractor—A. E. Waldman, 4001 Nevil St., Oakland.

Contract Awarded.
RESIDENCE Cont. Price, \$8179
PALO ALTO, Santa Clara Co., Cal.
 Two-story frame and stucco residence (7 rooms).
 Owner—F. Hapgood, Palo Alto.

Architect—Birge M. Clark, 310 University Ave., Palo Alto.
 Contractor—Wells P. Goodenough, 310 University Ave., Palo Alto.
 Following is complete list of bids
 Wells P. Goodenough, Palo Alto, \$8179
 Ed. Schmalling, Palo Alto, 8474
 Ralph Knight, Mountain View, 8516
 Henry A. Hoyt, Palo Alto, 8570
 G. W. Williams Co., Burlingame 8749
 Clinton-Stephenson Co., S. F., 8855
 L. E. Kingham, Palo Alto, 9788

Contract Awarded.
RESIDENCE Cont. Price, \$5590
PALO ALTO, Santa Clara Co., Cal.
 Two-story frame and stucco residence (6 rooms and 2 baths) tile roof, gas heating system, tiled baths, hardwood floors, etc.
 Owner—Robert V. Jones, Palo Alto.
 Architect—Chas. K. Sumner, Decker-road Bldg., Palo Alto.
 Contractor—E. J. Schmalling, 863 Melville Ave., Palo Alto.
 Following bids received:
 E. J. Schmalling, Palo Alto, \$5590
 J. W. Cabbage, Palo Alto, 5724
 Henry A. Hoyt, Palo Alto, 6036
 Ralph Knight, Mountain View, 6190
 Whiteside Bros., San Jose, 6435
 George E. Moore, Palo Alto, 6442
 Ralph W. Follmer, Palo Alto, 6535

Preparing Sketches.
RESIDENCE Cost, \$10,000
SAN JOSE, Santa Clara Co., Cal.
 Two-story and basement frame and stucco residence (7 rooms and 2 baths) tile roof, gas heating system, hardwood floors, tiled baths, electric refrigeration, etc.
 Owner—Withheld.
 Architect—W. E. Higgins, 19 N. Second St., San Jose.

Contract To Be Awarded.
RESIDENCE Cont. Price, \$4676
BURLINGAME, San Mateo Co., Cal.
 One and one-half-story and basement frame and stucco residence (five rooms) tile and composition roof, gas heat, canvas walls, tile steps, hardwood floors, cement plaster.
 Owner—N. Nichols.
 Architect—F. Amandes, 1879 18th Ave., San Francisco.
 Contractor—Aetna Constr. Co., 166 Miramar St., San Francisco.

Sub-Contracts Awarded.
RESIDENCE Cost, \$7000
OAKLAND, Alameda Co., Cal. No. 6007-09-11 Shafter Avenue.
 One-story frame and stucco residence (9 rooms) 3-family dwelling.
 Owner—Leon H. Woolsey, 6001 Broadway, Oakland.
 Plans by John Geering, 975 Hillcroft Circle, Oakland.
 Contractor—Dildine & McKibben, 350 63rd St., Oakland.
Lumber—Sunset Lumber Co., 400 High St., Oakland.
Millwork—Oakland Planing Mill Inc., 2nd and Washington Sts., Oakland
Concrete—Schnoor Bros., 6016 Claremont Ave., Oakland.
Electric—Kerr & Clifford, 3525 East 14th St., Oakland.
Plumbing—L. J. Kruse, 6427 College Ave., Oakland.

Segregated Bids Being Taken.
RESIDENCE Cost, \$5000
EMERALD LAKE, San Mateo Co.
 One and one-half-story frame and stucco residence (5 rooms); tile roof, gas heating system, steel sash, hardwood floors, etc.
 Owner—L. B. Bingley, 811 Howard St., San Francisco.
 Plans by Mr. Dolphin.
 Bids are being received by the owner.

Owner Taking Bids.
RESIDENCE Cost, \$3000
NILES, Alameda Co., Cal.

One-story and basement frame and stucco residence (five rooms) tile roof, furnace, hardwood floors, tiled bath, etc.

Owner—C. A. Tausack, % Mr. Dixon. Plans by W. W. Dixon, 1844 5th Ave., Oakland.

Sub-Bids Wanted.

RESIDENCE Cost, \$6425 incld. extras VALLEJO, Solano Co., Cal. Lot 28, Vista De Vallejo.

Two-story frame and stucco residence (five rooms) English type, shakes roof, gas heating system, hardwood floors, tiled baths, etc.

Owner—Curt Brodbeck, 633 Alabama St., Vallejo.

Architect—Office of Walter C. Clifford 3299 Washington St., San Francisco.

Contractor—Joseph Bettencourt, San Bruno.

Sub-bids are wanted on stone work, concrete work, plastering, plumbing, glazing, roofing, tile work, sheet metal and heating.

Sub-Contracts Awarded.

RESIDENCE Cost, \$4500 SAN FRANCISCO. Hernandez Ave. near Laguna Honda Blvd.

One-story and basement frame and stucco residence (five rooms) tile and composition roof, gas heating system, hardwood floors & trim, stucco interior walls, etc.

Owner—Wm. F. Lange.

Architect—Geo. McCrea, Hearst Bldg. Contractor—Moore and Roberts, 693 Mission Street.

Plumbing—Scott Co., 243 Minna St. Heating—Atlas Heating & Ventilating Co., 557 4th St.

As previously reported, lumber contract awarded to Smith Lumber Co., 4th and Channel Sts.; concrete to Golden Gate Atlas Materials Co., 16th and Harrison Sts.

Contract To Be Awarded.

RESIDENCE Cost, \$10,000 BERKELEY, Alameda Co., Cal. Oakmore Highlands.

Two-story and basement frame and stucco residence (10 rooms and 3 baths) shakes roof, gas hot air heating system, colored tile baths.

Owner—D. H. McKay Pier, 2206 Hopkins St., Oakland.

Architect—E. L. Snyder, 2102 Shattuck Ave., Berkeley.

Contractor—Geo. Windsor, 928 Kings-ton Ave., Piedmont.

Contract Awarded.

RESIDENCE Cost, \$— PALO ALTO, Santa Clara Co., Cal.

Two-story frame and stucco residence (6 rooms and 2 baths) tile roof, gas heating system, tiled baths, hardwood floors, etc.

Owner—Robert V. Jones, Palo Alto. Architect—Chas. K. Sumner, Decker-road Bldg., Palo Alto.

Contractor—E. J. Schmalling, 863 Melville Ave., Palo Alto.

Contract Awarded.

RESIDENCE Cost, \$5000 SAN FRANCISCO. E Latona 76 S Bayview St.

Two-story and basement frame and stucco residence.

Owner—Temple Lutheran Church, Bayview and Latona Sts.

Architect—Not Given. Contractor—W. T. Hummer, 5811 Mission Street.

Plans Being Completed.

RESIDENCE Cost, \$15,000 SAN FRANCISCO, Marina Blvd near Fillmore St.

Two-story and basement frame and stucco residence (9 rooms and 3 baths); tile and composition roof, gas hot air heating system, tiled baths, oak floors, electric refrigeration, ornamental iron, etc.

Owner—Capt. D. W. Thomsen.

Architect—D. D. Stone., 110 Sutter St., San Francisco.

Bids will be asked in about two weeks.

Electrical Contract Awarded.

RESIDENCE Cost, \$— SAN RAFAEL, Marin Co., Cal.

One-story wood frame residence (shingle exterior, eight rooms and four baths).

Owner—Mr. McCarthy.

Architect—Wm. I. Garren, 233 Post St., San Francisco.

Contractor—Moore & Roberts, 693 Mission St., San Francisco.

Electric—Coast Electric Co.

As previously reported:

Mill Work—Brannan Street Planing Mill, 560 Brannan St., S. F.

Tile—Progressive Tile Co., 1216 Powell St., San Francisco.

Painting—W. G. Thompson, 336 Church Street, San Francisco.

Lumber—Christensen Lumber Co., 5th and Hooper Sts., S. F.

Plumbing—A. L. Nelson, San Rafael.

Plastering—Wm. J. Coneeny, 74 Molte St., San Francisco.

Flooring—Regal Floor Co., 620 4th St. San Francisco.

Contract Awarded.

RESIDENCE Cost, \$7000 OAKLAND, Alameda Co., Calif. 6007-09-11 Shafter Avenue.

One-story frame and stucco residence (9 rooms) 3-family dwelling.

Owner—Leon H. Woolsey, 6001 Broadway, Oakland.

Plans by John Geering, 975 Hillcroft Circle, Oakland.

Contractor—Dildine & McKibben, 350 63rd St., Oakland.

Plans Being Completed.

RESIDENCE Cost, \$6000 SAN FRANCISCO. Location Omitted

One-story and basement frame and stucco residence (six rooms) tile and composition roof, gas heating system, hardwood floors, etc.

Owner—Withheld.

Architect—Chas. Strothoff, 2274 15th Street.

Bids will be asked in one week.

Contract Awarded.

RESIDENCE Cost, \$5000 WILLOW GLEN, Santa Clara Co.

One-story and basement frame and stucco residence (6 rooms); tile roof, gas heating system, plaster interior walls, oak floors, tiled baths, etc.

Owner—A. Caparelli.

Architect—Chas. McKenzie, Twohy Bldg., San Jose.

Contractor—Thomas H. Herschbach, Twohy Bldg., San Jose.

Bids Wanted—To Close May 22.

RESIDENCE Cost, \$— MODESTO, Stanislaus Co., Cal. McHenry Road.

One-story & basement dipped shingle residence (7 rooms and 2 baths); shingle roof, stucco interior, tiled baths, oak floors, gas heating system, electric refrigeration, etc.

Owner—G. B. Pierrou.

Architect—G. N. Hilburn, 1312 I St., Modesto.

Low Bidders.

RESIDENCE Cost, \$— HAYWARD, Alameda Co., Cal. Niles Road.

One and one-half-story frame and stucco residence (six rooms); tile roof, gas heating system, hardwood floors, tiled bath, electric refrigeration, etc.

Owner—Withheld.

Architect—Geo. P. Simonds, 261 Main St., Hayward.

Low Bidder—H. S. Shaln, 54 Arlette Ave., Hayward, at \$3685.

Second low bid was submitted by

Clyde Schwartz, Hayward, at \$3790.

Bids held under advisement.

Contract Awarded.

RESIDENCE Cost, \$7000 PALO ALTO, Santa Clara Co., Cal.

Two-story frame and stucco residence (7 rooms).

Owner—F. Hapgood, Palo Alto.

Architect—Birge M. Clark, 310 University Ave., Palo Alto.

Contractor—Wells P. Goodenough, 310 University Ave., Palo Alto.

Contract Awarded.

ALTERATIONS Cost, \$— SAN FRANCISCO. No. 230 Rodeo Street.

Alterations to two-story frame residence (raise portions of building; concrete work, add two additional rooms, rustic exterior, new stairs, stucco plaster interior, hardwood floors, etc.

Owner—Withheld, % Contractor.

Plans by L. O. Berg, 675 Corbett Ave., San Francisco.

Contractor—L. R. Anderson, 253 State St., San Francisco.

Plans Being Completed.

RESIDENCE Cost, \$— SAN FRANCISCO. Forest Hill.

One- and 3-story frame and stucco residence (6 rooms).

Owner—Withheld.

Architect—Morrow and Morrow, de-Young Bldg.

Bids will be asked in about 1 week.

15—SCHOOLS

Low Bidders.

SCHOOL Cost, \$135,000 FAIRBANKS, Alaska.

Three-story reinforced concrete school (75x150 feet) kindergarten rooms, manual training department, classrooms, gymnasium and auditorium

Owner—Fairbanks School District.

Architect—Tourtelotte & Hummel, Postal Bldg., Portland.

Low Bidder—McDonald Building Co., St. Louis, Mo., at \$122,800.

Mechanical Work—Sherman Plumbing Co., Seattle, Wash., at \$24,600.

Following opening of bids on April 26 it was found that the Warrack Construction Co. of Seattle was low. At that time the McDonald Building Co. of St. Louis was reported as having submitted a bid for \$154,000, but the bid did not state whether mechanical work was included. New revised figures were opened and McDonald Building Co. reduced its general contract figure to \$122,800, which put that firm below the Warrack Construction Company's bid of approximately \$126,000.

SANTA ROSA, Sonoma Co., Cal.—

Until June 26, bids will be received by Edwin Kent, County School Superintendent, Santa Rosa, for furnishing and supplying school supplies for the fiscal year.

SAN FRANCISCO—M. J. Lynch,

478 30th St., at \$2849 awarded contract by Department of Public Works, for yard work at the Horace Mann Junior High School, 23rd and Valencia Streets. Complete list of bids published May 4.

SAN FRANCISCO—Until May 24,

2:30 P. M., bids will be received by S. J. Hester, Secretary, Board of Public Works, City Hall, for laying wood floors in the Washington Irving School, Broadway and Sansome Sts. Estimate cost \$3000.

SAN FRANCISCO—Until May 31,

2:30 P. M., bids will be received by S. J. Hester, Secretary, Department of Public Works, City Hall, for new wood floors in the High School of Commerce. Estimated cost, \$3500.

May 17, 1933

Plans Being Completed.
SCHOOL Cost, \$20,000
LOS MOLINAS, Tehama Co., Cal.
 One-story frame and stucco high school (7 classrooms and shop); main building (60x200 feet); shop (36x100 ft.); composition roof, hot air heating system, pine floors, blackboards, etc.
 Owner—Corning High School District.
 Architect — W. E. Coffman, Forum Bldg., Sacramento.
 Bids will be asked in about one week.

Plans Being Completed.
HIGH SCHOOL Cost, \$25,000
ALBANY, Alameda Co., Cal. Ramona and Garfield Streets.
 Two-story and basement reinforced concrete high school (8 classrooms 1st unit); to be known as Herbert Hoover High School.
 Owner—City of Albany.
 Architect — P. L. Dragon and C. R. Schmidts, 3016 Telegraph Ave., Berkeley.

Plans will be forwarded to the State Department of Architecture, Sacramento, for approval within a few days.

KINGSBURG, Fresno Co., Cal.—Architect W. D. Coates Jr., Rowell Bldg., Fresno, is conducting an investigation at the request of the school board to determine what should be done about improving the Roosevelt Elementary School.

VALLEJO, Solano Co., Calif.—Fred. E. Turner, 557 Market St., San Francisco, at \$2,201 awarded contract by Vallejo High School District for furnishing and installing stage equipment for the new Vallejo Junior High School.

16—BANKS, STORES AND OFFICES

Contract Awarded.
BUILDING Cost, \$2000
SANTA CLARA, Santa Clara Co., Cal. E. Gilroy N Pacheco Pass.
 One-story frame and stucco building.
 Owner—O'Connell Bros., 197 N 6th St., San Jose.
 Architect — William Higgins, 19 N. Second St., San Jose
 Contractor—M. W. Reese, Willow Glen

Plans Being Revised.
ALTERATIONS Cost, \$5000
SAN FRANCISCO, 1738-1748 Fillmore Street.
 Alterations to first floor for market (new show windows, tile work, carpentry, painting, terrazzo flooring, refrigeration, cabinets, ice boxes, etc.)
 Owner—H. M. Labataille, 2013 Broderick Street.
 Architect—Resing & McGuinness, 488 Pine Street.
 Owner will take new bids shortly.

Contract Awarded.
STORE Cost, \$6000
MENLO PARK, San Mateo Co., Cal.
 One-story reinforced concrete store (3 stores).
 Owner—Duff Corp., 160 California St., San Francisco.
 Plans by Frank W. Moore, 1132 Glen Ave., San Jose.
 Contractor—John Morey, Menlo Park.

Contract Awarded.
REPAIRS Cost, \$5000
SACRAMENTO, Sacramento Co., Cal. 907-915 Third Street.
 Repairs to building.
 Owner—A. Wong, premises.
 Architect—Not Given.
 Contractor—Chas. Vanina, 1500 40th St., Sacramento.

Contract Awarded.
ALTERATIONS Cost, \$5,000
SAN FRANCISCO, 218 Post Street.
 Alterations to store.
 Owner—A. Liebes, 220 Post Street.
 Plans by Contractor.
 Contractor—L. & E. Emanuel, Inc., 2665 Jones Street.

Contracts Awarded.
BEER GARDEN Cost, \$—
SANTA CRUZ, Santa Cruz Co., Cal. Beach St. and Leibbrandt Ave.
 Two-story frame and stucco building (beer garden, 3-room apt.) composition built-up roof, cement floors and hardwood floors, etc.
 Owner—Henry Miller, 200 Leibbrandt Ave., Santa Cruz.
 Architect—Ryland, Esty & McPhetres, Alta Bldg., Santa Cruz.
 Contractor—Hamilton & Church, 333 Ocean Ave., Santa Cruz.
Electric—Farmer's Exchange, Santa Cruz.
Plumbing—Byrne Bros., Santa Cruz.
Plastering—R. C. Crabtree, Santa Cruz.

Fixture Contract Awarded.
FIXTURES Cost, \$—
SAN FRANCISCO, No. 835 Market Street.
 Interior store fixtures for department store.
 Owner—The Emporium, 835 Market St., San Francisco.
 Plans by Engineering Dept. of owner Fink & Schindler Co., 552 Branman St., awarded contract for fixtures on Fourth Floor and Ostlund & Johnson, 1901 Bryant St. awarded contract for fixtures for First Floor.

Plans Being Prepared.
STORE Cost, \$5000
SAN LEANDRO, Alameda Co., Cal.
 One-story store (brick walls, steel trusses, plate glass front, cement floors, etc.; 45x67 feet).
 Owner—Withheld.
 Architect — Ray Keefer, 770 Wesley Oakland.
 Bids will be asked in about ten days

Plans Being Figured.
ALTERATIONS Cost, \$—
SAN FRANCISCO, Market St. near Fifth St.
 Alterations to Lincoln Building.
 Owner—The Emporium, 835 Market.
 Plans by Engr. Dept. of Owner.

Completing Plans.
REPAIRS Cost, \$100,000
LOS ANGELES, Calif. Spring and 6th Streets.
 Repairs to six-story store and office building (new lobby way, new elevator enclosures, cabs, doors, painting, decorating, etc.)
 Owner—Gross Building.
 Architect—Aleck Curlett, Union Bank Bldg., Los Angeles.
 Bids will be asked at a later date.

Lumber Contract Awarded.
STORE Cost, \$4000
SAN FRANCISCO, 634-36 Haight St.
 Frame and stucco store under flats (60x20) raise building, excavation work, etc.
 Owner—F. J. Quinn.
 Architect—W. E. Huson, 1913 Green Street.
 Contractor—Barrett & Hilp, 918 Harrison Street.
Lumber—Loop Lbr. Co., Central Basin.

As previously reported, house moving awarded to D. J. & T. Sullivan, 1942 Folsom St.; plumbing to Dowd & Welch, 3558 16th St.

SAN FRANCISCO — Until May 31, 2:30 P. M., bids will be received by S. J. Hester, Secretary, Department of Public Works, City Hall, for remodel-

ing rooms 282, 285, 287 and 289 in the City Hall for use of Public Utilities Commission. Estimated cost \$3500.

Contract Awarded.
BUILDING Cost, \$2500
SANTA CRUZ, Santa Cruz Co., Cal. SW Vine and Locust Sts.
 One-story reinforced concrete office building (dental offices and laboratory).
 Owner — Dr. Clyde C. Carmean, 38 Pacific Ave., Santa Cruz.
 Plans by Hamilton & Church.
 Contractor—Hamilton & Church, 333 Ocean Ave., Santa Cruz.

FRESNO, Fresno Co., Cal.—M. B. Folsom, Merced, at \$14,375 awarded contract by State Highway Department, Sacramento, for the construction of an addition to the District's Office Building at Fresno. Work consists of excavation, concrete and masonry work, steel sash, carpentry and mill work, lathing and plastering, sheet metal, roofing, structural steel, painting, plumbing, heating, ventilating and electrical installation. State will furnish Venetian blinds, window shades, laboratory hoists, refrigerated fountains and air washer.

18—WHARVES & DOCKS

Reinforcing Steel Contract Awarded.
EXTENSION, ETC. Cost, \$32,000
ALAMEDA, Alameda Co., Calif. Encinal Terminal.
 Repairs to present dock and 115 ft. extension (timber construction, some creosoted piling, repair floors, etc.)
 Owner—Encinal Terminals, Alameda, (H. E. Van Horn, President).
 Plans by Engr. Dept. of Owner.
 Contractor—A. W. Kitchen, 119 Market St., San Francisco.
Reinforcing Steel—Soule Steel Co., 1750 Army St., San Francisco.

SAN FRANCISCO—Until May 29, 11 A. M., bids will be received by the District Public Works Officer, Twelfth Naval District, 100 Harrison St., San Francisco, for repairs to Key Route Wharf end of water line, including replacing of approximately 600 feet of 5 inch pipe, together with a supporting structure of creosote treated piles and a five-pile protecting dolphins. Specification No. 7316. Plans and specifications available from above office upon deposit of \$5.

WASHINGTON, D. C.—R. E. Finlayson, 430 Lewers Road, Honolulu, T. H., at \$2,420 submitted low bid to 14th Naval District, Pearl Harbor, T. H. for water and electric service at West Loch Wharf at the Naval Ammunition Depot (West Loch) Oahu, T. H.; Spec. No. 7137. Second low bid was submitted by E. E. Black, Honolulu, at \$3,129. Bids held under advisement.

SAN LUIS OBISPO, Cal.—All bids rejected and project abandoned to construct wharf extension at San Luis Obispo for U. S. Lighthouse Service, Custom House, San Francisco. Bids were received as follows:
 Duncanson-Harrelson, S. F. \$6974
 Healy-Tibbitts Co., S. F. 7500
 M. B. McGowan, S. F. 9987

19—MISC. CONSTRUCTION

ALAMEDA, Alameda Co., Cal.—Until June 8, 11 A. M., bids will be received by Constructing Quartermaster, Benton Field Air Depot, 33 Pacific Ave., Alameda, for a 50-foot steel flag pole at Benton Field Air Depot, Alameda.

ENGINEERING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

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| 21.—Eridges | 30.—Reservoirs and Dams |
| 22.—Dredging, Harbor Works, Excava. Works, Irrigation Proj. | 31.—Pipe Lines and Wells |
| 23.—Irrigation Proj. | 32.—Sewers & Sewage Disposal Plants |
| 24.—St. Light. Systems | 33.—Water Works |
| 25.—Machinery and Equipment | 34.—Parks & Playgrounds |
| 26.—Railroads | 35.—Tunnels |
| 27.—Fire Alarm Sys. | |
| 28.—Fire Equipment | |
| 29.—Streets & Highways | |

21—BRIDGES

EUREKA, Humboldt Co., Cal.—County supervisors plan to paint bridges over Redwood Creek at Pons ranch and over the Trinity River near Willow Creek. Bids will be called shortly.

KERN COUNTY, Cal.—Until May 31, 2 P. M. (instead of June 3, as reported in our issue of May 9), bids will be received by State Highway Commission, Sacramento, to construct an undergrade crossing under tracks of the Minkler Branch of the A. T. & S. F. Ry. about four miles north of Bakersfield, consisting of a 49-ft. 5-in. steel girder beam span with creosoted timber deck supported by concrete abutments with wing walls.

TULARE COUNTY, Cal.—Until May 31, 2 P. M. (instead of June 3, as reported in our issue of May 9), bids will be received by State Highway Commission, Sacramento, to grade and pave with asphaltic concrete about 4.2 miles between Plaza Garage and Goshen; and to construct an undergrade crossing under tracks of the S. P. Co. near Plaza Garage.

PARKER, Ariz.—The Santa Fe Railway has under consideration planing of its bridge across the Colorado river near Parker to provide a passageway for automobile traffic. The cost is estimated at \$25,000 and \$30,000. The railway company also has under consideration the establishment of a warehouse and yard base at Parker.

SAN BERNARDINO, Cal.—Until 11 A. M., June 5, bids will be received by County Supervisors for the moving of a steel span bridge from the old Mojave River bridge on the National Old Trails Highway, 2 miles from Oro Grande and reconstructing same across the Santa Ana River between Greenspot and East Highlands, 11 miles east of San Bernardino. The bridge will have a 250-ft. span and a 20-ft. roadway.

22—DREDGING, HARBOR WORKS, EXCAVATION

SAN DIEGO, Cal.—Lipscomb & Arnett, 4367 Florida St., San Diego, awarded contract by the Bureau of Yards and Docks, Navy Department, Washington, D. C., May 8, at \$1286.56 for constructing moorings, dolphins and piles at the Navy Operating Base (Air Station) San Diego; Spec. No. 7205.

PORTLAND, Ore.—Until June 1, 3 P. M., under Bid No. 33-351, bids will be received by U. S. Engineer Office, 321 Customhouse, Portland, for rock excavation and removal, reconstruction of miter sill and thrust walls, lock gate and timber fenders, construction of emergency dam and riprap for dike, all in Willamette river, in and between Lock No. 1 (lowest lock of locks at Willamette Falls, near Oregon City, Ore.) and a point about one mile downstream from Willamette Falls, involving:

- (1) lump sum, cofferdam;
 - (2) remove exist. lower lock gates;
 - (3) remove exist. timber fenders;
 - (4) 2700 cu. yds. rock excav., cofferdam;
 - (5) 2650 cu. yds. do, lock approach;
 - (6) 3400 cu. yds. do, Clackamas Reef
 - (7) 8100 cu. yds. riprap, Dike 25.0;
 - (8) 100 sq. ft. rock channeling;
 - (9) 1100 lin. ft. drill holes for anchors;
 - (10) 285 cu. yds. concrete;
 - (11) 36 MFBM Doug. fir, dense struc. grade;
 - (12) 85 MFBM do, No. 1 common;
 - (13) 8 MFBM oak;
 - (14) 43,000 lbs. struc. steel;
 - (15) 2900 lbs. steel, castings;
 - (16) 1300 lbs. steel, forgings, Class C
 - (17) 210 lbs. steel do, Class H;
 - (18) 4800 lbs. steel reinf. bars;
 - (19) 12,200 lbs. bolts;
 - (20) 83,300 lbs. iron castings;
 - (21) 90 lbs. bronze.
- Specifications obtainable from the above office; no deposit required.

SAN DIEGO, Cal.—Captain George A. McKay, assistant chief of the Bureau of Yards and Docks, has reported to the San Diego Chamber of Commerce that naval authorities favor the construction of two harbor projects at San Diego.

Project No. 1 is the proposal to dredge 13,300,000 cu. yds. material from the southeast side of the main channel and to fill 500 acres at North Island along 15,500 lin. ft. of bulkhead.

Project No. 2 is the proposal to dredge 7,618,000 cu. yds. material north of the mole pier and to dispose of same in the area between Lindberg Field and the marine base.

LOS ANGELES, Cal.—Until 2 P. M., May 29, bids will be received by the county supervisors for diamond core drilling at the west abutment of the Sierra Madre dam in Sierra Madre Canyon.

Bids will be received as follows:

- (1) approximately 16 1/4-in. diameter holes with diamond core drill, each hole about 60 ft. in depth (960 lin. ft.);
- (2) redrilling through grout in any

hole as specified (2400 lin. ft.)

E. C. Eaton, County Flood Control Engineer, 202 N Broadway, Mame B. Beatty, Clerk of the Board, 501 Hall of Records.

25—MACHINERY AND EQUIPMENT

SAN DIEGO, Cal.—Moore Electric Co., 321 W. Third St., Los Angeles, awarded contract at \$10,465, for improvements for night flying seaplane operations at the Naval Operating Base (Air Station), San Diego; Specification 7118. The work consists of a lighting system for the station pier, a lighting system for landing area adjacent to Buildings Nos. 29 and 68, and two flood light stations with timber shelters and auxiliary equipment.

FRANCE FIELD, C. Z.—Bid call cancelled and project will not be undertaken at all for night lighting system, bids to have been opened June 8 by Quartermaster Office, Quarry Heights, C. Z., estimated cost, \$6,297.

OAKLAND, Cal.—Until, May 24, bids will be received by Concrete Products Sales Co., 1522 Latham Square Bldg., Oakland, to furnish miscellaneous equipment, as follows:

- 4 5 h. p.;
- 10 10 h. p.;
- 20 20 h. p.;
- 4 30 h. p.;
- 6 40 h. p.;
- 6 60 h. p.

To be on alternates of plain bearings and anti-friction bearings; with starters and/or compensators; f.o.b. cars or delivered by truck on the Oakland waterfront.

An alternate bid is desired on 1200 or 1800 RPM.

12 concrete mixers—6 2-cu. yd. and 6 3-cu. yd. Power take off and clutch, but without motor; without tanks and without batch hoppers. F.o.b. cars 2500 lin. ft. conveyor belting, as follows—1000 ft. 24-in., 5-ply, 28-oz. duck, 1/4 and 1/8-in. cover; 1000 ft. 30-in. and 500 ft. 36-in., 6-ply, 32-oz. duck, 1/4 and 1/8-in. cover; an alternate bid desired on 7-ply. Quantities on this items may be doubled.

250 troughing rolls—125 24-in. belt, 100 30-in., and 25 36-in.

135 return rolls—50 24-in. belt, 75 30-in. belt, and 10 36-in. belt. Bids desired on plain and anti-friction bearings.

Further information obtainable from above office.

PETALUMA, Sonoma Co., Calif.—Until May 31, 8 P. M., bids will be received by A. F. Tomasini, secretary, Board of Education, Petaluma City High School District, City Hall, to furnish:

(1) school bus chassis, for a 60-passenger school bus body, to comply with all state regulations.

(2) 60-passenger school bus body to be built on above chassis.

Bids must be submitted on items separately. Certified check 10% required with bid.

OAKLAND, Cal.—Until May 26, 8 P. M., bids will be received by John H. Kimball, secretary, East Bay Municipal Utility District, 512 16th St., Oakland, to furnish one 5-passenger 8-cylinder 1933 model Dodge sedan. Specifications obtainable from above office.

CAPITAL CITY TITLE COMPANY

J. C. PALEN,
Manager

914 Seventh Street
Sacramento :: California

OAKLAND, Cal.—Until June 1, 9 P. M., bids will be received by W. W. Chappell, City Clerk, for three trucks.

27—FIRE ALARMSYSTEMS

OAKLAND, Alameda Co., Cal.—Crouse Hinds, Syracuse, New York, at \$716 awarded contract for timers and the General Electric Co., at \$432 awarded contract for signals by City Council to furnish and install 18 traffic signals and four timers.

28—FIRE EQUIPMENT

SANTA ROSA, Sonoma Co., Calif.—Until May 26, 12 M., to be opened at 1:30 P. M., bids will be received by George P. Sanborn, county clerk, to construct four miles of new road on Skaggs Springs-Stewarts Point road, Fifth Supervisorial District, involving (1) 66,000 cu. yds. excavation; (2) 1,000 ft. 12-in. culvert pipe; (3) 1,000 ft. 15- or 16-in. culvert pipe (4) 600 ft. 24-in. do; (5) 500 ft. 36-in. do; (7) 85 MFBM redwood timber; (8) 5,000 lbs. bolts, plates and dowels (9) 18 cu. yds. concrete; (10) 1,800 lbs. reinf. steel.

Specifications obtainable from the above office and from E. A. Peugh, county engineer.

WASHINGTON, D. C.—W. P. Thurston Co., Richmond, Va., at \$61,000 submitted late low bid to Bureau of Yards and Docks, Navy Department, for additions and alterations to existing foam fire protection system and pump houses at the Naval Fuel Depot, Pearl Harbor, T. H.; Spec. No. 7068.

Complete bids follow:

W. P. Thurston, Richmond	.....\$61,000
Pittsburgh Des Moines Steel Co.	
Pittsburgh, Pa.	62,270
E. E. Black, Ltd., Honolulu	63,465
C. C. Moore & Co., S. F.	63,642
Blake Palm Elec. Co., Wash- ington, D. C.	68,600
J. L. Cliff, Honolulu	73,932

30—RESERVOIRS & DAMS

MODESTO, Stanislaus Co., Calif.—J. F. Knapp, 1401 Park Ave., Oakland, at \$7425 awarded contract by the city council to construct collapsible weir dam across the Tuolumne river at Modesto.

CAMP VERDE, Ariz.—Foley Bros., Inc., St. Paul, Minn., tentatively awarded contract at approximately \$3,190,591 for the construction of a dam across the Verde River at Camp Verde for the Verde River Irrigation and Power District. The contract is contingent upon approval of an application to the Reconstruction Finance Cor. for a \$7,600,000 loan to finance a comprehensive development program. The proposed construction includes a diversion dam to cost \$319,350, and canals, laterals, etc., to provide an adequate supply of irrigation water for 99,520 acres. The main dam will have a height of 265 ft. above streambed. A bond issue of \$23,000,000 were voted 12 years ago but were never sold, due to litigation.

31—PIPE LINES & WELLS

SONOMA, Sonoma Co., Cal.—Until May 29, 8 P. M., bids will be received by H. W. Gottenberg, city clerk, to drill two 10-in. wells, complete to a depth of 200-ft., fully cased for entire depth, and pumped and tested by (a) a deep well turbine pump, or by (b) a shallow or low head turbine pump; also price per lin. ft. of depth below 200 ft.

Alternate bids will be taken as

above except for 8-in. wells.

Specifications obtainable from the above office. Certified check 10% required with bid. Edward K. Hussey, city engineer. 31

WALLA WALLA, Wash.—A. A. Durand, Walla Walla, at \$1998 submitted low bid to Supervising Superintendent of Construction, Veterans' Administration, Palo Alto, to drill, develop and test deep well at the Veterans' Administration Hospital Pumping Site No. 2, at Walla Walla. Only other bid submitted by Zalley Iron Works, Yakima, at \$4104.50. Bids held under advisement.

PEARL HARBOR, T. H.—Following have procured plans for the purpose of submitting bids to the 14th Naval District, Pearl Harbor, on May 31, in connection with the construction of a 6-in. cast iron pipe water line approximately 3,736 feet long with 3,180 ft. to be submerged:

- R. D. Wood & Co., 490 Chestnut St., Philadelphia.
- W. P. Thurston Co., P. O. Box 2089, Richmond, Va.
- Honolulu Iron Works, 165 Broadway, New York City.

SAN FRANCISCO.—J. B. Rogers, 110 Sutter St., at \$1264 awarded contract by Constructing Quartermaster Fort Mason, to install a well, turbine pump and pump shelter at Lobos creek, Presidio of San Francisco.

- Unit bids on Rogers' bid were:
- (1) well, to 60-ft., \$9.30
 - (2) well, from 60- to 80-ft., \$9.30
 - (3) dam construction, \$40
 - (4) pump, etc., \$520.

SAN FRANCISCO—Until May 31, 3 P. M., bids will be received by Public Utilities Commission, Felton Taylor, Secretary, to lay 16-in. cast iron pipe line on San Pablo, Yerba Buena and Plymouth Sts. from Portola Drive to Wildwood Ave., involving:

- (1) 5500 ft. excav. and backfill, trench
- (2) 50 cu. yds. additional do;
- (3) 340 sq. ft. additional pavement remove and replace, bitumen on concrete;
- (4) 333 tons install pipe and fittings;
- (5) 1850 ft. make joints;
- (6) 1 cu. yd. plain concrete;
- (7) 15,125 s. ft. repave, bitumen on concrete;

Specifications obtainable from San Francisco Water Department, Room 605, 425 Mason St., on deposit of \$10. Certified check 10% required with bid. Estimated cost \$11,710.

SAN FRANCISCO—Until May 29, 3 P. M., bids will be received by Public Utilities Commission, Felton Taylor, Secretary, to lay 16-in. cast iron pipe line through Forest Hill subdivision, involving:

- (1) 5500 ft. excav. and backfill of trench;
- (2) 50 cu. yds. oil macadam do;
- (3a) 300 sq. ft. oil macadam, additional pavement remove and replace;
- (3b) 40 sq. ft. bitumen on concrete, additional pavement remove and replace;
- (4) 372 tons install pipe and fittings;
- (5) 1970 ft. make joints;
- (6) 3 cu. yds. plain concrete;
- (7a) 9260 s. ft. oil macadam, repave;
- (7b) 815 sq. ft. bitumen on concrete repave.

Specifications obtainable from San Francisco Water Department, Room 605, 425 Mason St., on deposit of \$10. Certified check 10% required with bid. Estimated cost \$9900.

SAN FRANCISCO—Until June 2, 3 P. M., bids will be received by Public Utilities Commission, Felton Taylor,

Secretary, to lay 16- and 12-in. cast iron feeder mainst or Lakeview Hill, Daly City and Crocker-Amazon Districts, involving:

- (1a) 3910 ft. excav. and backfill for 16-in. pipe;
- (1b) 8100 lin. ft. do for 12-in. pipe;
- (2) 100 cu. yds. additional excavation and backfill;
- (3) 680 sq. ft. additional pavement, remove and replace, bitumen on concrete;
- (4) 538 tons install pipe and fittings;
- (5) 3510 lin. ft. make mineral lead joints
- (6) 1 cu. yd. plain concrete;
- (7) 28,575 sq. ft. replacement—bitumen on concrete.

Specifications obtainable from S. F. Water Department, Room 605, 425 Mason St., on deposit of \$10. Estimated cost, \$24,000.

SAN FRANCISCO—Until June 2, 3 P. M., bids will be received by Public Utilities Commission, Felton Taylor, Secretary, to lay 16- and 12-in. cast iron pipe line on Judah St. from 19th Ave. to 29th Ave. and on Ocean Ave. from Faxon to Phelan, involving:

- (1) excavate and backfill;
- (a) 3150 lin. ft. for 16-in. c. i. pipe;
- (b) 2500 lin.ft. for 12-in. do;
- (2) 50 cu. yds. additional excav. and backfill;
- (3) 340 s. ft. additional pavement, remove and replace, bitumen on concrete;
- (4) 280 tons install pipe and fittings;
- (5) 1950 lin. ft. make mineral lead joints
- (6) 14,163 sq. ft. repavement—bitumen on concrete;

Specifications obtainable from S. F. Water Department, Room 605, 425 Mason St., on deposit of \$10. Estimated cost \$9780.

32—SEWERS & SEWAGE DISPOSAL PLANTS

LOS ANGELES, Cal.—Bids will be taken in about three weeks for the construction of two sections of the Verdugo Wash storm drain project for which the county supervisors recently appropriated \$107,347.81. The work proposed involves:

Section of Verdugo Wash storm drain from the end of the present channel to Pacific St., about 2000 lin. ft., consisting of a reinforced concrete rectangular structure 50 ft. in width, 8 ft. high, with 8-in. walls.

Section of the Verdugo Wash storm drain adjacent to the grounds of the Oakmont Country Club, about 2,000 lin. ft., consisting of an open channel with sloping sides, of reinforced Gunite construction, 1- to 3-in. thickness. The channel section will be 40 feet wide at the bottom, 63 ft. at the top, with walls 6 ft. in height.

E. C. Eaton, 202 North Broadway, County Flood Control Engineer.

LOS ANGELES, Cal.—Plans for a reinforced concrete conduit in Ballona Creek (Venice Blvd.) between Rimpau Blvd. and La Brea Ave., were presented to the city council May 10 by E. C. Eaton, county flood control engineer, for approval as to jurisdiction. Action will be taken by the city council May 11. The work involves:

- (1) 6700 cu. yds. excavating;
- (2) 6700 cu. yds. backfill;
- (3) 3200 cu. yds. reinf. conc., Class A;
- (4) 2400 cu. yds. do, Class B;
- (5) 100 lin. ft. drilling dowel holes;
- (6) 1300 lbs. place corr. iron pipe;
- (7) 50 lin. ft. place tile drains.

The county will furnish materials as follows:

Cement and admixture, reinforcing steel and miscellaneous metal ware, except tie wire for reinf. steel, burlap for curing filler, expansion joints, corrugated metal pipe and drainage tile.

BAKER, Ore.—The city authorized at the election May 2 the construction of a sewage disposal plant to cost \$104,000.

TACOMA, Wash.—City council will seek \$3,500,000 loan from the Reconstruction Finance Corp. for construction of trunk sewer project.

LOS ANGELES, Cal.—A. K. Warren, chief engineer, County Sanitation District, 202 N Broadway, authorized by directors of Districts Nos. 1, 2, 5 and 8 May 10 to take soundings and other submarine surveys at a cost of \$10,000 of the route of the proposed ocean outfall at White's Point in connection with the outfall sewer line and tunnel through the Palos Verdes Hills from the treatment plant, 38,800 lin. ft. The ocean outfall is 5000 ft. in length.

OXNARD, Ventura Co., Cal.—The proposed repairs to the outfall sewer will be postponed indefinitely as the Reconstruction Finance Corp. has rejected the city's application for funds.

LOS ANGELES, Cal.—M. Miller, 877 N. Bunker Hill Ave., awarded contract by Board of Public Works, May 12, at \$18,800, to construct Fish Harbor intercepting sewer in the right-of-way westerly from Ways St., between the alley south from Terminal Way and in a portion of Terminal Way, cash contract.

BURLINGAME, San Mateo Co., Cal. City council tentatively approves plan for constructing sewers and drainage of flood waters from Burlingame Hills to California Drive, estimated to cost \$14,000, of which \$8000, to be appropriated by the city, would be used for materials and \$6,000, from unemployment relief funds, would be used for labor.

Materials will be purchased by F. A. Bloom, City Purchasing Agent.

MONTEREY PARK, Los Angeles Co., Cal.—Alva J. Smith (local representative for Black & Veatch, consulting engineers of Kansas City, Mo.) 810 Boylston St., Pasadena, preparing plans and estimates for the final application to the Reconstruction Finance Corp. for funds with which to construct the proposed sewage treatment plant for Monterey Park. Favorable consideration was given the city's preliminary application and the corporation asked for detailed data on the plant.

The plant, which is to be located on the Rio Hondo, will be of the activated sludge type, involving four units in one structure. These will be: Pre-aeration unit, preliminary settling tank, three aerators and final settling tanks. This structure will be 50x64 feet in size, of reinforced concrete construction.

The power house will be 32x28 feet, of brick construction, with concrete foundation and floors and composition roof.

The pumping equipment which will be housed in the power house will consist of:

One sewage pump of 500 to 700 G. P.M., centrifugal type.

One sludge pump to digestion tank, 500-700 G.P.M., also centrifugal type.

One return pump, centrifugal type, of 50 G.P.M.

The concrete digester tank will be 28x36 feet, of reinforced concrete construction, with reinforced concrete roof, and a steel or cast iron gas dome.

The sludge drying beds will be 40x50 feet, with a glass or greenhouse type roof. The roof will be of glass and light steel construction and have an area of approximately 2000 sq. ft.

Piping around the plant will involve 200 lin. ft. of 12-in. cast iron pipe, and a small amount of 8-in., 6-in and 4-in. cast iron pipe.

The estimated cost is between \$36,000 and \$40,000.

Bids will be taken on the construction of the plant as a unit.

A service charge to users will be made under the terms of Assembly Bill No. 980. This bill allows a city to construct a plant and sewer system and charge to users the cost of plant and interest on the investment under a service charge. This creates a self-liquidating project under the definition of the Reconstruction Finance Corp. regulations. The plant is being designed to serve a population of 4000.

The collection system and trunk lines will be built by city probably by force account. These lines will involve:

7,000 ft. 12-in. pipe for Newmark Ave. secondary trunk;
1,800 ft. 10-in. pipe;
100,000 ft. 8-in. collection mains;
63,000 ft. 8-in. house connections;
300 manholes.

33—WATER WORKS

SALEM, Ore.—H. C. Hastorf, Inc., 457 E. Morrison St., Portland, at \$11,997 submitted low bid to State Purchasing Agent to furnish one steam boiler for State Penitentiary.

FRESNO, Cal.—Jean L. Vincenz, Public Works Commissioner, has withdrawn his proposal to construct a 500,000-gallon tank at Blackstone Ave. and the Santa Fe Railway. Claude H. Weeks, Water Superintendent, states that the tank is not necessary.

HEBER, Imperial Co., Cal.—Plans for a water works system for the town of Heber, 6 miles southeast of El Centro, completed by Philip W. Knights, City Engineer of El Centro. The Heber Public Utility District has made application to the Reconstruction Finance Corp. for a loan of \$15,000 with which to construct the system. Bonds were voted January 13, 1931. The project will involve:

Pumping plant, housed in a corrugated iron pump house, 20x24 ft., with corrugated iron roof and concrete floor, with equipment as follows:

Two 3-in. centrifugal pumps, of 300 G. P. M. each, one driven by electric motor the other by gasoline motor as an auxiliary unit.

Tank and tower; one 16,000-gallon corrugated iron or sheet metal tank, with wood tower, 80 ft. to overflow.

Settling basin: involving 4500 cu. yds. excavation.

Distribution system involving:

1460 ft. 6-in. cast iron pipe;
2340 ft. 4-in. cast iron pipe;
1540 ft. 3-in. cast iron pipe;
5455 ft. 2-in. cast iron pipe,
with fittings, etc.

UPLAND, San Bernardino Co., Cal.—R. G. Manley, City Service Manager, is preparing specifications for between 1600 and 1700 lin. ft. of 4-in. steel pipe for which bids will be called within the next three weeks.

HUNTINGTON PARK, Los Angeles Co., Cal.—Until 7:30 P. M. June 5, bids will be received by city council for furnishing:

6000 ft. 6-in. Class B or 150, American made cast iron pipe.

Vaughn Wood, city engineer and water superintendent, W. P. Mahood, city clerk.

MODESTO, Stanislaus Co., Calif.—Hild Electric & Mfg. Co., Stockton, at \$1298 less \$50 turn-in awarded con-

tract by city council to furnish one centrifugal pump.

All bids for a motor were rejected.

SAN FRANCISCO.—Pacific States C. I. Pipe Co., Rialto Bldg., at \$1.165 per ft., awarded contract by the City Purchasing Agent under Bid No. 991 to furnish 5000 ft. 2-in. cast iron b&s water pipe.

RAYMOND, Wash.—Willapa Valley Water Co. will ask \$75,000 loan from Reconstruction Finance Corporation for community water system project which will serve Menlo, East Raymond and Willapa.

SAN RAFAEL, Marin Co., Cal.—Bigge Drayage Company, 1638 24th St. Oakland, at \$550 awarded contract by Constructing Quartermaster, Hamilton Field, for removing three large steel tanks from Mather Field to Hamilton Field. Only other bids was submitted by E. H. Baker, Santa Rosa, at \$717.

SAN FRANCISCO.—Meyer Rosenberg, 1755 San Bruno Ave., and J. H. Krumlinde & Co., 55 Pilgrim Street, awarded contracts by City Purchasing Agent under Bid No. 997 to haul cast iron pipe.

SAN FRANCISCO.—United Pipe & Supply Co., 729 Brannan St., at \$5.30 per lin. ft., awarded contract by City Purchasing Agent under Bid No. 996 to furnish standard wrought steel galvanized water pipe in ¾- and 1-in. lengths.

OAKLAND, Cal.—Until May 26, 8 P. M., bids will be received by John H. Kimball, secretary, East Bay Municipal Utility District, 512 16th St., Oakland to furnish:

(1) 73,000 lin. ft. 4-in. cast iron pipe;
(2) 30,000 lin. ft. 6-in. do;
(3) 24,000 lin. ft. 8-in. do;

Specifications No. LS-104, obtainable from above office.

OAKLAND, Cal.—Until May 26, 8 P. M., bids will be received by John H. Kimball, secretary, East Bay Municipal Utility District, 512 16th St., Oakland, to furnish 50,000 lin. ft. ¾-in. seamless copper tubing. Specifications No. LS-105, obtainable from the above office.

SONOMA, Sonoma Co., Cal.—City council accepts bid of Beatrice Bulotti, made through her son, Fred Bulotti, for the entire issue of \$33,000 municipal water bonds to finance construction of proposed new municipal water plant. An agreement was made with the buyer that she would sell back any bonds not needed or unused in the improvement and acquiring of the new system.

LOS ANGELES, Cal.—Until 11 A. M., June 1, bids will be received by A. J. Holm, City Purchasing Agent, 107 City Hall, to furnish the Department of Water and Power, all materials, labor, etc., for the Bouquet Canyon Reservoir inlet and outlet conduit pipe in accordance with specifications No. 3078 which are on file at the office of the Chief Engineer and General Manager of the Bureau of Water Works and Supply, room 705 207 S Broadway, Los Angeles. Copies may be obtained at above address or at 107 City Hall, upon deposit of \$10. Pipe is to be delivered f.o.b. department's Bouquet Canyon Reservoir Construction site, located approx. 16 miles north of Saugus, at respective delivery points designated in specification. The proposed work involves:

SCHEDULE NO. 1

Furnish and deliver electric fusion

welded steel water pipe, including reducers, bends, ring girders, bents or trestles, butt straps, and/or backup straps.

SCHEDULE NO. II

Furnish and deliver labor, materials, etc., for installation of welded steel pipe, including reducers, bends, bents or trestles, etc.

SCHEDULE NO. III

Furnish labor, materials, etc., for installation of reinforced concrete steel core pipe and appurtenances.

The lists of materials and quantities of work to be furnished follow:

SCHEDULE NO. 1

Furnish and deliver the following listed Electric Fusion Welded Steel Water Pipe, includ. reducers, bends, ring girders, bents or trestles, butt straps and/or back up straps, complete, in accordance with Department of Water and Power Specifications No. 3078, except that Paragraphs 53 to 62 inclusive, 64 to 79 inclusive and 107 to 146 inclusive of said specifications shall not apply, f.o.b. locations shown on Bureau of Water Works & Supply Drawing No. N 177, designated "Pipe Yard," as follows:

- I Plain End Pipe, as follows:
 - (a) 8006 ft. 94-in., 3/8-in. shell;
 - (b) 3759 ft. 94-in. 7/16-in. shell;
 - (c) 2174 ft. 94-in. 1/2-in. shell;
 - (d) 1474 ft. 94-in. 9/16-in. shell;
 - (e) 416 ft. 91-in. 5/8-in. shell;
 - (f) 386 ft. 91-in. 11/16-in. shell;
 - (g) 303 ft. 91-in. 3/4-in. shell;
 - (h) 394 ft. 86-in., 3/4-in. shell;
 - (i) 187 ft. 86-in. 13/16-in. shell;
 - (j) 238 ft. 86-in. 7/8-in. shell;
 - (k) 166 ft. 86-in. 15/16-in. shell;
 - (l) 182 ft. 86-in. 1-in. shell;
 - (m) 200 ft. 80-in. 1-in. shell;
 - (n) 240 ft. 80-in. 1 1/16-in. shell;
- II Bell End Slip Joint Pipe, as follows
 - (a) 8006 ft. 94-in., 3/8-in. shell;
 - (b) 3759 ft. 94-in. 7/16-in. shell;
 - (c) 2174 ft. 94-in. 1/2-in. shell;
 - (d) 1474 ft. 94-in. 9/16-in. shell;
 - (e) 416 ft. 91-in. 5/8-in. shell;
- III Plain End Butt Strap Pipe, as follows:
 - (f) 386 ft. 91-in. 11/16-in. shell;
 - (g) 303 ft. 91-in. 3/4-in. shell;
 - (h) 394 ft. 86-in., 3/4-in. shell;
 - (i) 187 ft. 86-in. 13/16-in. shell;
 - (j) 238 ft. 86-in. 7/8-in. shell;
 - (k) 166 ft. 86-in. 15/16-in. shell;
 - (l) 182 ft. 86-in. 1-in. shell;
 - (m) 200 ft. 80-in. 1-in. shell;
 - (n) 240 ft. 80-in. 1 1/16-in. shell;

- IV Beveled End Butt Strap Pipe, as follows:
 - (f) 386 ft. 91-in. 11/16-in. shell;
 - (g) 303 ft. 91-in. 3/4-in. shell;
 - (h) 394 ft. 86-in., 3/4-in. shell;
 - (i) 187 ft. 86-in. 13/16-in. shell;
 - (j) 238 ft. 86-in. 7/8-in. shell;
 - (k) 166 ft. 86-in. 15/16-in. shell;
 - (l) 182 ft. 86-in. 1-in. shell;
 - (m) 200 ft. 80-in. 1-in. shell;
 - (n) 240 ft. 80-in. 1 1/16-in. shell;
- V Beveled End Back Up Strap Pipe, as follows:
 - (f) 386 ft. 91-in. 11/16-in. shell;
 - (g) 303 ft. 91-in. 3/4-in. shell;
 - (h) 394 ft. 86-in., 3/4-in. shell;
 - (i) 187 ft. 86-in. 13/16-in. shell;
 - (j) 238 ft. 86-in. 7/8-in. shell;
 - (k) 166 ft. 86-in. 15/16-in. shell;
 - (l) 182 ft. 86-in. 1-in. shell;
 - (m) 200 ft. 80-in. 1-in. shell;
 - (n) 240 ft. 80-in. 1 1/16-in. shell;

- VI Tapered Slip Joint Pipe, as follows
 - (f) 386 ft. 91-in. 11/16-in. shell;
 - (g) 303 ft. 91-in. 3/4-in. shell;
 - (h) 394 ft. 86-in., 3/4-in. shell;
 - (i) 187 ft. 86-in. 13/16-in. shell;
 - (j) 238 ft. 86-in. 7/8-in. shell;
 - (k) 166 ft. 86-in. 15/16-in. shell;
 - (l) 182 ft. 86-in. 1-in. shell;
 - (m) 200 ft. 80-in. 1-in. shell;
 - (n) 240 ft. 80-in. 1 1/16-in. shell;
- VII Additional Cost of Bends, for a price per each round seam in bends, which shall include cutting and welding or any other extra cost required in fabricating or testing in addition to the price per foot in-

- cluded under Items I to VII inclusive, as follows:
 - 27 bends 94-in. 3/8-in. shell, 45 seams
 - 11 bends, 94-in. 7/16-in. shell, 21 seams;
 - 9 bends, 94-in., 1/2-in. shell, 16 seams
 - 7 bends, 94-in. 9/16-in. shell, 14 seams;
- VIII Additional Cost of Bends, Cont'd.
 - 1 bend, 91-in. 5/8-in. shell, 1 seam;
 - 2 bends, 91-in. 11/16-in. shell, 3 seams;
 - 2 bends, 86-in., 3/4-in. shell, 4 seams
 - 1 bend, 86-in., 13/16-in. shell, 1 seam
 - 1 bend, 86-in., 7/8-in. shell, 2 seams;
 - 1 bend, 86-in., 15/16-in. shell, 1 seam
 - 2 bends, 86-in., 1-in. shell, 2 seams;
 - 1 bend, 80-in., 1-in. shell, 2 seams;
 - 3 bends, 80-in., 1 1/16-in. shell, 7 seams;
- VIII Stress Relieving, as follows:
 - 91-in., 5/8-in. wall, 416 ft.;
 - 91-in., 11/16-in. wall, 386 ft.;
 - 91-in., 3/4-in. wall, 303 ft.;
 - 86-in., 3/4-in. wall, 394 ft.;
 - 86-in., 13/16-in. wall, 187 ft.;
 - 86-in., 7/8-in. wall, 238 ft.;
 - 86-in., 15/16-in. wall, 166 ft.;
 - 86-in., 1-in. wall, 182 ft.;
 - 80-in., 1-in. wall, 200 ft.;
 - 80-in., 1 1/16-in. wall, 240 ft.
- IX Ring Girders, for a price per lb. fabricated scale weight, as follows:
 - 94-in. O. D. pipe—est. total 501,800 pounds.
 - 91-in. O. D. pipe—est. total 61,500 pounds.
- X Bents or Trestles—structural steel frame for same—est. total 90,200 lbs. for a price per lb. fabricated scale weight;
- XI X-Rays or Radiographs of Welds, as follows:
 - 50 ft. up to 100 ft.;
 - 100 ft. up to 500 ft.;
 - 500 ft. up to 1,000 ft.;
 - 1,000 ft. up to 10,000 ft.;
 - 10,000 ft. up to 20,000 ft.

- Point of manufacture. The location of point of manufacture of pipe, etc. proposed to be furnished under Schedule I will be:
- SCHEDULE NO. II**
- Furnishing and delivering all labor, materials, services of equipment, etc. necessary for the furnishing, delivery and installation, complete, of the following listed Electric Fusion Welded Steel Water Pipe, including reducers, bends, ring girders, bents or trestles, butt straps, and/or back up straps, and appurtenances.
- I Plain End Pipe, as follows:
 - (a) 8006 ft., 94-in., 3/8-in. shell;
 - (b) 3759 f., 94-in., 7/16-in. shell;
 - (c) 2174 ft., 94-in., 1/2-in. shell;
 - (d) 1474 ft., 94-in., 9/16-in. shell;
 - (e) 416 ft., 91-in. 5/8-in. shell;
 - (f) 386 ft. 91-in. 11/16-in. shell;
 - (g) 303 ft. 91-in. 3/4-in. shell;
 - (h) 394 ft. 86-in. 3/4-in. shell;
 - (i) 187 ft. 86-in. 13/16-in. shell;
 - (j) 238 ft. 86-in. 7/8-in. shell;
 - (k) 166 ft. 86-in. 15/16-in. shell;
 - (l) 182 ft. 86-in. 1-in. shell;
 - (m) 200 ft. 80-in. 1-in. shell;
 - (n) 240 ft. 80-in. 1 1/16-in. shell;
- II Bell End Slip Joint Pipe, as follows
 - (a) 8006 ft., 94-in., 3/8-in. shell;
 - (b) 3759 f., 94-in., 7/16-in. shell;
 - (c) 2174 ft., 94-in., 1/2-in. shell;
 - (d) 1474 ft., 94-in., 9/16-in. shell;
 - (e) 416 ft., 91-in. 5/8-in. shell;
- III Plain End Butt Strap Pipe, as follows:
 - (f) 386 ft. 91-in. 11/16-in. shell;
 - (g) 303 ft. 91-in. 3/4-in. shell;
 - (h) 394 ft. 86-in., 3/4-in. shell;
 - (i) 187 ft. 86-in. 13/16-in. shell;
 - (j) 238 ft. 86-in. 7/8-in. shell;
 - (k) 166 ft. 86-in. 15/16-in. shell;
 - (l) 182 ft. 86-in. 1-in. shell;
 - (m) 200 ft. 80-in. 1-in. shell;
 - (n) 240 ft. 80-in. 1 1/16-in. shell;
- IV Beveled End Butt Strap Pipe, as follows:
 - (f) 386 ft. 91-in. 11/16-in. shell;
 - (g) 303 ft. 91-in. 3/4-in. shell;
 - (h) 394 ft. 86-in., 3/4-in. shell;
 - (i) 187 ft. 86-in. 13/16-in. shell;
 - (j) 238 ft. 86-in. 7/8-in. shell;
 - (k) 166 ft. 86-in. 15/16-in. shell;
 - (l) 182 ft. 86-in. 1-in. shell;
 - (m) 200 ft. 80-in. 1-in. shell;
 - (n) 240 ft. 80-in. 1 1/16-in. shell;

- V Beveled End Back Up Strap Pipe, as follows:
 - (f) 386 ft. 91-in. 11/16-in. shell;
 - (g) 303 ft. 91-in. 3/4-in. shell;
 - (h) 394 ft. 86-in., 3/4-in. shell;
 - (i) 187 ft. 86-in. 13/16-in. shell;
 - (j) 238 ft. 86-in. 7/8-in. shell;
 - (k) 166 ft. 86-in. 15/16-in. shell;
 - (l) 182 ft. 86-in. 1-in. shell;
 - (m) 200 ft. 80-in. 1-in. shell;
 - (n) 240 ft. 80-in. 1 1/16-in. shell;
- VI Tapered Slip Joint Pipe, as follows
 - (f) 386 ft. 91-in. 11/16-in. shell;
 - (g) 303 ft. 91-in. 3/4-in. shell;
 - (h) 394 ft. 86-in., 3/4-in. shell;
 - (i) 187 ft. 86-in. 13/16-in. shell;
 - (j) 238 ft. 86-in. 7/8-in. shell;
 - (k) 166 ft. 86-in. 15/16-in. shell;
 - (l) 182 ft. 86-in. 1-in. shell;
 - (m) 200 ft. 80-in. 1-in. shell;
 - (n) 240 ft. 80-in. 1 1/16-in. shell;
- VII Additional Cost of Bends, for a price per each round seam in bends, which shall include cutting and welding or any other extra cost required in fabricating or testing in addition to the price per foot in-

- cluded under Items I to VII inclusive, as follows:
 - 27 bends 94-in. 3/8-in. shell, 45 seams
 - 11 bends, 94-in. 7/16-in. shell, 21 seams;
 - 9 bends, 94-in., 1/2-in. shell, 16 seams
 - 7 bends, 94-in. 9/16-in. shell, 14 seams;
- VIII Additional Cost of Bends, Cont'd.
 - 1 bend, 91-in., 5/8-in. shell, 1 seam;
 - 2 bends, 91-in., 11/16-in. shell, three seams;
 - 2 bends, 86-in., 3/4-in. shell, 4 seams
 - 1 bend, 86-in., 13/16-in. shell, 1 seam
 - 1 bend, 86-in., 7/8-in. shell, 2 seams
 - 1 bend, 86-in., 15/16-in. shell, 1 seam
 - 2 bends, 86-in., 1-in. shell, 2 seams;
 - 1 bend, 80-in., 1-in. shell, 2 seams;
 - 3 bends, 80-in., 1 1/16-in. shell, 7 seams.
- VIII Stress Relieving, as follows:
 - 91-in., 5/8-in. wall, 416 ft.;
 - 91-in., 11/16-in. wall, 386 ft.;
 - 91-in., 3/4-in. wall, 303 ft.;
 - 86-in., 3/4-in. wall, 394 ft.;
 - 86-in., 13/16-in. wall, 187 ft.;
 - 86-in., 7/8-in. wall, 238 ft.;
 - 86-in., 15/16-in. wall, 166 ft.;
 - 86-in., 1-in. wall, 182 ft.;
 - 80-in., 1-in. wall, 200 ft.;
 - 80-in., 1 1/16-in. wall, 240 ft.;
- IX Ring Girders, for a price per lb. fabricated scale weight, as follows:
 - 94-in. O. D. pipe—est. total 501,800 pounds.
 - 91-in. O. D. pipe—est. total 61,500 pounds.
- X Bents or Trestles—structural steel for same—est. total 90,200 lbs., for a price per pound fabricated scale weight;
- XI 52,800 cu. yds. excavation, backfill and disposal, est. excavation;
- XII 11,100 cu. yds. concrete, estimated total.
- XIII 168,100 lbs. reinforcing steel, installed in place, estimated total.
- XIV 30 manholes, estimated total.
- XV Blow Off Valves:
 - (a) ten 8-in.;
 - (b) two 12-in.
- XVI 60 4-in. Pass Hole Fittings.
- XVII 20 ft. Venturi Tube, installed, only.
- XVIII 10 Air Valves, installed only.
- XIX 435,000 sq. ft. Painting or Enameling Pipe—Inside.
- XX 436,000 sq. ft. Painting or Enameling Pipe—Outside.
- XI 700 ft. Blow Off Pipe.
- XXII 435,000 sq. ft. est. Sandblasting, inside pipe Item I.
- XXIII X - Rays or Radiographs of Welds, as follows:
 - 50 ft. up to 100 ft.;
 - 100 ft. up to 500 ft.;
 - 500 ft. up to 1,000 ft.;

1,000 ft. up to 10,000 ft.;
10,000 ft. up to 20,000 ft.

SCHEDULE NO. III

Furnishing and delivering all labor, materials, services of equipment, etc. necessary for the furnishing, delivery and installation, complete, of the following listed Reinforced Concrete Steel Core Pipe.

I Reinforced Concrete Steel Core Pipe as follows:

- (a) 750 ft., 90-in., 200 ft. head;
- (b) 5592 ft., 90-in., 250 ft. head;
- (c) 5139 ft., 90-in., 300 ft. head;
- (d) 2889 ft., 90-in., 350 ft. head;
- (e) 1340 ft., 90-in., 400 ft. head;
- (f) 399 ft., 84-in., 450 ft. head;
- (g) 428 ft., 84-in., 500 ft. head;
- (h) 452 ft., 84-in., 550 ft. head;
- (i) 253 ft., 84-in., 600 ft. head;
- (j) 249 ft., 84-in., 650 ft. head.

II Reinforced Concrete Steel Core Pipe Continued.

- (k) 197 ft., 84-in., 700 ft. head;
- (l) 191 ft., 78-in., 750 ft. head;
- (m) 178 ft., 78-in., 800 ft. head;
- (n) 139 ft., 78-in., 850 ft. head;
- (o) 109 ft., 78-in., 900 ft. head.

III 157,800 cu. yds. Excavation, Backfill and Disposal;

IV 6425 cu. yds. Concrete, for appurtenant structures;

V 133,000 lbs. Reinforcing Steel, for appurtenant structures;

VI 30 Manholes, as follows, est. total;

VII 24 12-in. Blow Off Valves;

VIII 40 4-in. Pass Hole Fittings;

IX 25 Air Valves, installed only;

X 2400 ft. Blow Off Pipe, as follows.

29—STREETS AND HIGHWAYS

WASHINGTON STATE — Edwin Neary, 3207 33rd St., Seattle, at \$31,716 awarded contract by State Highway Commission to furnish in stockpiles 14,200 tons fine aggregate and 23,670 tons coarse aggregate for paving between the Upper and Middle Crossings of the South Fork of the Snoqualmie River, State Road No. 2, King County.

LOS ANGELES, Cal.—Hearing of protests on the improvement of Beverly Blvd., between Hilgard Ave. and Paseo Miramar, will be held by City Council May 16. Project involves:

- 18,000 cu. yds. grading;
 - 17,230 sq. ft. concrete pave., 6-in.;
 - 3,900 sq. ft. concrete pave., 8-in.;
 - 183,325 sq. ft. asphalt concr. pave., 6-in.;
 - 145,880 sq. ft. asphalt concr. pave., 7-in.;
 - 8,075 sq. ft. asphalt concr. pave., varying thickness;
 - 44,350 lin. ft. curb;
 - 44,080 sq. ft. gutter;
 - storm drain;
 - walls;
 - water system;
 - 69 water services.
- Engineer's estimate, \$140,397.77.

MERCED COUNTY, Cal. — N. M. Ball, 1889 Yosemite Road, Berkeley, and Willard, Biasotti & Lovatti, 40 W. Clay St., Stockton, at \$32,040.65 awarded contract on their joint bid by State Highway Commission, Sacramento, to grade and pave with Portland cement concrete 0.8 mi. of the Merced River Bridge approaches.

LOS ANGELES, Cal.—Griffith Co., Los Angeles Railway Bldg., submitted low bid to harbor department on May 10 at \$23,040 for paving various streets and transit shed floors at Los Angeles Harbor. Sully-Miller Co. submitted the only other bid at \$25,800.

LOS ANGELES, Cal.—Jones Bros., 9430 Santa Monica Blvd., Beverly Hills submitted low bid to board of public

works, May 10 at \$6130, for improving Ocean Front, between 23rd Ave. and 34th Ave., Venice, under cash contract.

MODOC COUNTY, Cal. — Oilfiled Trucking Co., Taft, at \$11,863.97 awarded contract by State Highway Commission to treat with fuel oil and asphaltic road oil as a dust palliative 46.5 miles existing roadbed between Hat Creek and Alturas and between the junction of State Highway Routes 73 and 28 and the Oregon state line.

PLUMAS AND LASSEN CO., Cal. —C. F. Fredericksen & Sons Co., Lower Lake, at \$7716.80 awarded contract by State Highway Commission to treat with fuel oil as a dust palliative 21 miles existing roadbed between Beckwith and a junction with State Highway route 29, near Chat.

WASHINGTON STATE—Until June 6, 10 A. M., bids will be received by L. V. Murrow, State Director of Highways, Olympia, for highway construction as follows:

KING COUNTY — 8.1 mi. Portland cement concrete paving State Road No. 2, Upper Crossing to Middle Crossing, South Fork, Snoqualmie River.

WAHIAKUM COUNTY—1.3 mi. grade and surface State Road No. 12, Svensen's Landing to Wilmi Slough (Deep River Bridge Approaches) involving:

- 25,720 cu. yds. excav.;
- 10,950 cu. yds. cru. stone surf.;
- 36 cu. ft. pipe culverts and other items.

Specifications obtainable from above on deposit of \$2. Certified check 5% payable to State Treasurer required with bid.

SAN RAFAEL, Marin Co., Calif.—Following are additional contractors who have procured plans for the purpose of submitting bids to the Constructing Quartermaster, Hamilton Field, on May 24, 2 P. M., in connection with the paved aprons around the hangar and shop at Hamilton Field (Marin Meadows) Bombing Base:

J. F. Heilmann, 2703 24th Street, San Francisco.

Rocca & Caletti, San Rafael.

Theo. Cohn, Russ Bldg., San Francisco.

ROCKWELL FIELD, Cal. — Weymouth Crowell Co., 2104 E. 15th St., Los Angeles, submitted low bid to the Constructing Quartermaster, Rockwell Field, Coronado, May 11, at \$36,200 to construct approximately 200,000 sq. ft. 6-in. reinforced concrete pavement, with driveways, storm sewers, etc., at Rockwell Field, Coronado. The proposed work will involve the paving of Wright Blvd., about 4000 ft. of 26-ft. roadway with 6-in. reinforced concrete pavement, with 5-in. curb. Incidental work will involve 4-in. walks, 8-6-8-in. R.C. pavement, 6-in., 8-in., 10-in. and 15-in. terra cotta pipe; 6-in., 8-in., 10-in., 12-in. and 15-in. concrete pipe; catch-basins, wire mesh reinforcement, 3/4 in. fiber electric conduit, 4-in. vitrified clay power duct, both with concrete covering.

The other bids were:

T. B. Penick & Son.....	\$36,923.14
Griffith Co., Los Angeles.....	40,900
J. A. Hunt.....	41,132
V. R. Dennis Constr. Co., San Diego.....	42,990
E. G. Carroll, San Diego.....	43,380
Walter Treptke.....	45,964
Nelson & Sloan.....	46,000
Miracle Co., San Diego.....	49,487
Daley Corp., San Diego.....	49,552.78

TORRANCE, Los Angeles Co., Cal. —F. B. Leonard, City Engineer, pre-

paring plans to improve Torrance-Redondo Blvd., between Madrona Ave. and the Redondo city limits, approximately 1.5 miles. The roadway will be graded to a width of 100 ft. and paved to a width of 40 ft. The estimated cost is \$34,000. Grading will be done by force account using R. F. C. labor. The pavement will be furnished and laid by the county road department. The work will involve: 316,800 sq. ft. 6-in. asphaltic concrete pavement.

SEATTLE, Wash.—Northwest Construction Co., Seattle, at \$14,505 was awarded contract by board of public works to pave Albro Place and other streets.

YAKIMA, Wash.—Until June 1, bids will be received by county commissioners to grade and gravel six miles of Glade Road. O. E. Brashears, is county engineer.

ALAMEDA, Cal. — Until June 15, 11 A. M., bids will be received by Constructing Quartermaster, Benton Field Air Depot, 33 Pacific Ave., Alameda, to place bituminous or concrete surfacing on roads and paved areas at Benton Field Air Depot, Alameda. Specifications obtainable from above office on deposit of certified check, 10, payable to Treasurer of the United States.

SONOMA COUNTY, Calif.—Basalt Rock Co., 900 8th St., Napa, at \$2249 awarded contract by State Highway Commission to treat with fuel oil as a dust palliative 16 miles of existing roadbed shoulders between Lytton and Santa Rosa.

ALAMEDA, Alameda Co., Cal.—Until June 15, 10 A. M., bids will be received by Constructing Quartermaster Benton Field Air Depot, 33 Pacific Ave., Alameda, to grade runways, place rock underfill, and construct extension to drainage system at Benton Field Air Depot, Alameda. Specifications obtainable from above office on deposit of certified check, \$10, payable to Treasurer of United States.

SAN JOSE, Santa Clara Co., Cal.—A. G. Raisch, 46 Kearny Street, San Francisco and San Jose, at \$9,276 was awarded contract by county supervisors to improve Cunningham Avenue from King road to White road in Supervisor District No. 2, involving 182,700 sq. ft. oil macadam. Complete bids follow:
A. G. Raisch, San Francisco.....\$9,276
O. G. Ritchie, San Jose.....11,295
Piazza & Greene, San Jose.....11,790

SAN JOSE, Santa Clara Co., Cal.—Until May 29, 11 A. M., bids will be received by Henry A. Pfister, county clerk, to improve Gilman, Dillon, Everett and part of Central Avenue, in Campbell, in Supervisor District No. 4, involving 52,560 sq. ft. oil macadam. Specifications obtainable from Robert Chandler, county surveyor, on payment of \$1, not returnable.

SAN GABRIEL, Los Angeles Co., Cal.—Bids for the paving of Santa Anita St. bet. Las Tunas Drive and Mission Drive will be called by city council as soon as funds have been assured by the Reconstruction Finance Corp. Application has been made for the loan. Grading will be done by local labor. C. N. Wright, city engineer, Pacific Electric Bldg., Los Angeles, has estimated the paving as follows:

- 38,000 sq. ft. 6-in. asph. conc. pave.;
 - 19,000 sq. ft. 2-in. oil macadam.
- The pavement will be 20 feet wide with a 10-ft. strip of oil macadam.

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

IMP. 51ST ST. AND WOODLAWN AVE.—LOS ANGELES

LOS ANGELES, Cal.—Associated Constructors, Inc., 1226 S. La Brea Ave., submitted low bid to Board of Public Works, May 10, at \$15,999.20, for improving streets in the 51st St. and Woodlawn Ave. Improvement District, under cash contract, involving:

- (1) grading (3027 cu. yds. excav.);
- (2) 115,107 sq. ft. 6-in. concrete pave;
- (3) 60 sq. ft. 8-in. concrete paving (local depressions);
- (4) 1955 sq. ft. rock and oil;
- (5) 20 tons asphalt concrete wearing surface;
- (6) 584 lin. ft. unplastered light curb;
- (7) 728 sq. ft. 4-in. concrete walk (driveway);
- (8) 99 sq. ft. 6-in. concrete walk (driveway);
- (9) 348 sq. ft. 3-in. walk;
- (10) 98 sq. ft. 8-in. concrete gutter;

- (11) sanitary sewer (consisting of frame and cover sets only);
- (12) 40 ft. vitrified house sewer connections;
- (13) 11 manholes to be reset.

Complete bids follow:

- (A) Associated Constructors, \$15,999.21
- (B) Southern California Roads, \$16,834.80.
- (C) J. L. McClain, \$16,882.30.
- (D) Geo. R. Curtis Paving Co., \$16,963.13.
- (E) George H. Oswald, \$17,140.17.
- (F) Arthur E. Pearson, \$17,329.24.
- (G) Griffith Co., \$17,402.68.
- (H) J. V. Morrison, \$17,595.62.
- (I) John Topich, \$17,693.51.
- (J) Bob Bosko, \$17,764.97.
- (K) J. E. Haddock, \$18,265.43.
- (L) George Nelson, \$19,347.52.
- (M) Engineer's estimate, \$17,210.52.

Unit bids follow:

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
(A)	1568.00	\$119	\$16	\$07	\$3.20	\$31	\$12	\$16	\$09	\$20	\$117.00	\$85	\$33.00
(B)	1950.00	.123	.20	.07	3.50	.33	.13	.17	.10	.25	80.00	.75	30.00
(C)	2250.00	.12	.18	.07	4.00	.40	.13	.17	.10	.18	.90.00	1.00	60.00
(D)	1850.00	.125	.18	.06	4.00	.31	.12	.16	.15	.20	100.00	.75	30.00
(E)	2070.00	.125	.165	.055	3.40	.33	.11	.165	.09	.235	75.00	.85	40.00
(F)	1940.00	.126	.20	.10	3.20	.35	.12	.20	.10	.20	150.00	1.25	44.00
(G)	1300.00	.133	.17	.07	2.50	.40	.12	.18	.10	.20	100.00	.70	44.00
(H)	1500.00	.134	.20	.04	3.50	.30	.16	.20	.12	.20	70.00	1.00	50.00
(I)	1250.00	.135	.20	.08	4.00	.45	.12	.20	.10	.20	165.00	1.00	22.00
(J)	1200.00	.137	.16	.08	3.00	.35	.12	.14	.11	.16	110.00	1.00	55.00
(K)	2600.00	.13	.16	.07	3.50	.31	.135	.145	.105	.205	100.00	1.50	44.00
(L)	2825.00	.136	.175	.105	3.50	.35	.10	.12	.09	.17	121.00	.75	16.50
(M)	1630.00	.129	.20	.06	2.75	.32	.15	.18	.12	.20	72.00	1.00	55.00

AMADOR, Alpine and El Dorado Counties, Cal.—Peninsula Paving Co., Standard Oil Bldg., San Francisco, at \$20,388 submitted low bid May 17 to State Highway Commission, Sacramento, to treat with oil and cutback asphalt as a dust palliative 73.8 miles of existing roadbed between Dew Drop Inn and Picketts Junction, between Picketts Junction and Alpine Junction and between Picketts Junction and Hangman's Bridge, near Markleeville, involving:

- (1) 250 bbls. light fuel oil, Loc. A;
- (2) 1850 bbls. heavy fuel oil, do;
- (3) 500 bbls. asph. road oil, do;
- (4) 500 bbls. light fuel oil, Loc. B;
- (5) 900 bbls. heavy fuel oil, do;
- (6) 800 bbls. light fuel oil, Loc. C;
- (7) 200 bbls. heavy fuel oil, do;
- (8) 1100 bbls. asph. road oil, do;
- (9) 400 bbls. light fuel oil, Loc. D;
- (10) 250 bbls. heavy fuel oil, do;
- (11) 250 bbls. asph. road oil, do;
- (12) 175 tons cut-back asph., do.

Complete bids follow:

- (A) Peninsula Paving Co., San Francisco, \$20,388.
- (B) Oilfields Trucking Co., Bakersfield \$21,540.
- (C) C. F. Fredericksen & Son, Lower Lake, \$21,807.50.
- (D) Basalt Rock Co., Napa, \$23,746.

Unit bids follow:

	(A)	(B)	(C)	(D)
(1)	\$ 1.71	\$ 2.12	\$ 1.85	\$ 2.46
(2)	1.79	2.12	2.12	2.46
(3)	2.72	2.62	2.65	2.96
(4)	2.29	2.42	2.60	2.67
(5)	2.21	2.42	2.60	2.67
(6)	2.55	2.62	2.76	3.06
(7)	2.55	2.62	2.76	3.06
(8)	3.00	3.12	3.08	3.61
(9)	2.75	2.82	2.45	2.64
(10)	2.75	2.82	2.45	2.64
(11)	3.27	3.33	2.77	3.20
(12)	21.40	21.00	23.00	21.80

SAN FRANCISCO.—Chas. L. Harney, 74 New Montgomery Street, at \$4653.60 submitted low bid May 17 to Department of Public Works to construct a sewer in Blanken Street consisting of a wood box sewer, involving:

- (1) 964 lin. ft. 24x24-in. redwood box sewer, on earth;
- (2) 206 lin. ft. do on piles;
- (3) 1360 lin. ft. creosoted piles.

Complete bids follow:

- (A) C. L. Harney \$4653.60
- (B) M. B. McGowan 4687.76
- (C) Healy-Tibbitts Co. 4761.40
- (D) A. W. Kitchen 4818.70
- (E) Pacific Pavements, Ltd. 4876.04
- (F) M. J. Lynch 5131.60
- (G) Daniel T. Ryan 5971.32
- (H) Eaton & Smith 6320.00

Unit bids follow:

	(1)	(2)	(3)
(A)	\$3.00	\$3.60	\$.75
(B)	2.67	4.98	.80
(C)	3.50	3.50	.49
(D)	2.84	5.09	.83
(E)	3.50	2.34	.75
(F)	3.25	3.10	1.00
(G)	3.38	6.70	.98
(H)	4.50	5.00	.70

Bids held under advisement.

SANTA BARBARA, Cal.—American Cast Iron Pipe Co., Los Angeles, was awarded contract by city council May 11 at \$1868.97 to furnish 400 ft. 24-in. Class 150 sand cast, cast iron pipe and fittings for the water department. Victor H. Trace, water superintendent. The bidders were:

- (A) American Cast Iron Pipe Co.
- (B) U. S. Pipe and Foundry Co.
- (C) Commercial Iron Works (fittings only).
- (D) Vernon Foundry Co., (fittings only).

Project involves:

- (1) 400 ft. 24-in. Class B pipe;

- (2) 400 ft. 24-in. Class 150 sand cast pipe;
- (3) 16x16x12-in. tee;
- (4) 12-in. adapter, 4-ft. long;
- (5) 10-in. adapter, 18-in. long;
- (6) 10-in. adapter, 18-in. long*;
- (7) 10x10x10-in. wye branch;
- (8) One 10-in. 45-deg. bend;
- (9) total for fittings;
- (10) grand total.

Unit prices follow:

	(A)	(B)	(C)	(D)
(1)	\$ 1958.40	\$	\$	\$
(2)	1740.00			
(3)	42.90		42.05	49.50
(4)	22.94		24.60	32.50
(5)	11.88		10.70	12.90
(6)	15.84		16.20	19.60
(7)	25.84		24.95	27.75
(8)	9.67		11.95	13.95
(9)		125.00	130.45	156.10
(10)	1868.97	2083.40		

*Flange and spigot end.

SAN FRANCISCO.—Chas. L. Harney, 74 New Montgomery Street, at \$1818.62 submitted low bid to Department of Public Works to improve Kirkham St. between 33rd and 34th Avenues, 34th Ave. between Kirkham and Lawton, Ortega between 39th and 41st Aves., were not improved, involving:

- (1) 200 ft. 6-in. V.C.P. side sewer;
- (2) 205 ft. unarmored concrete curb;
- (3) 32.5 ft. armored concrete curb;
- (4) 5312 sq. ft. asph. concrete pave.

Complete bids follow:

- (A) C. L. Harney \$1818.62
- (B) Union Paving Co. 1924.86

Unit bids follow:

	(A)	(B)
(1)	\$1.00	\$1.00
(2)	1.00	1.00
(3)	1.00	1.00
(4)	.26	.28

- (13) 33,786 sq. ft. asph. conc. pave.

Complete bids follow:

- (A) Chas. L. Harney \$9,132.71
- (B) Union Paving Co. 10,267.30
- (C) Eaton & Smith 10,755.60
- (D) Fay Imm. Co. 11,279.69

Unit bids follow:

	(A)	(B)	(C)	(D)
(1)	\$.15	\$.20	\$.23	
(2)	.12	.01	.02	
(3)	1.00	.65	1.40	1.10
(4)	1.00	1.15	1.00	1.25
(5)	2.00	1.70	1.50	1.75
(6)	1.00	1.00	1.00	1.00
(7)	.50	.58	.75	.65
(8)	70.00	67.00	70.00	82.00
(9)	65.00	67.00	70.00	82.00
(10)	1.00	.90	1.00	1.20
(11)	.50	.50	.50	.68
(12)	.12	.12	.11	.13
(13)	.19	.20	.20	.205

Bids held under advisement.

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\$70,000,000 FOR WESTERN ROADS IN
FEDERAL BILL

EDELMAN NEW PRESIDENT OF ARCHITECT
BOARD

SAN FRANCISCO SCHOOL BOND ISSUE
APPROVED

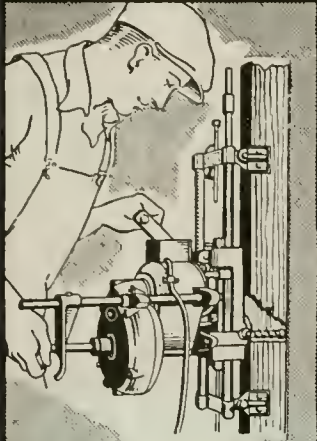
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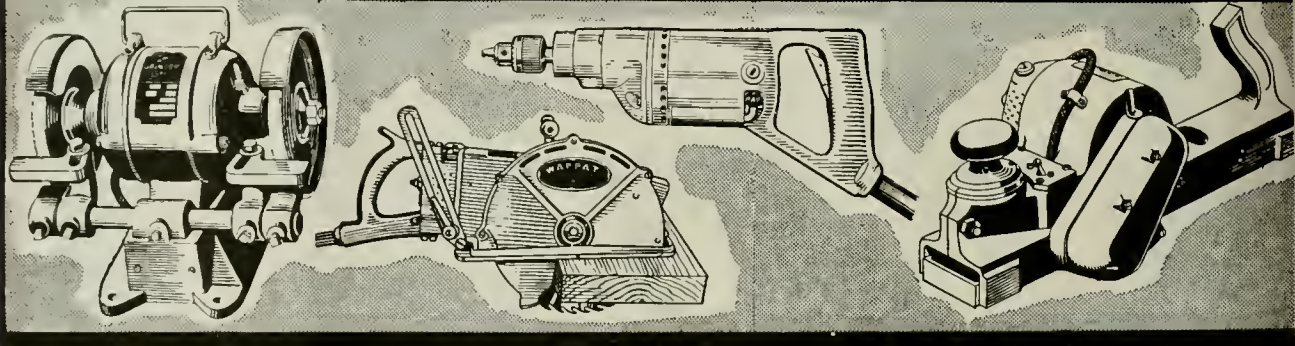
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SAM B. EUBANKS, *Editor*

Vol. XVI

SAN FRANCISCO, CALIF., MAY 27, 1933

No. 19

START STEEL ERECTION ON GATE BRIDGE

**Girders on Marin Pier Being
Set as Preliminary Con-
crete is Finished**

The first stage of pouring the concrete for the Marin pier of the Golden Gate Bridge was completed Tuesday night and the heavy work of setting in place the steel girders, that ultimately will tie in the tower to the pier, is under way, bridge engineers reported yesterday.

Beginning of this job, which will take the balance of the week to accomplish, marks the first major steel construction on the Gate span. Steel girders will extend up through the concrete pier to its ultimate surface and the tower members will be riveted and bolted to that.

According to Supt. James Graham, of the Pacific Bridge Company, pier contractors, the steel work will have progressed sufficiently to allow the resumption of concrete pouring next Monday, and the second stage of the pour will continue until the pier is completed.

The steel work now being set in place rests upon a concrete base rising to a height of ten feet above the solid rock bottom, except at the southwesterly corner of the pier where the excavation was sunk an additional 20 feet to gain a solid rock footing. At this point the concrete base is now 30 feet thick.

The first concrete for the Marin anchorage base block was poured the latter part of last week and pouring for the remainder of the base block will be commenced within a few days.

At Fort Point excavations for the anchorage are going ahead according to schedule and the protective seawall that will keep the waters of the Golden Gate back from the anchorage base is rapidly taking form.

Work of blasting out the rock bottom of the Golden Gate in preparation for setting the steel fender forms in place is progressing steadily although it will be several weeks before sufficient rock has been removed for actual work on the fender to commence.

THE WEEK'S NEWS Highlights

\$3,300,000,000 PROGRAM. Construction expects early revival of activity on a large scale as additional support is obtained at Washington for the Administration bill to appropriate \$3,300,000,000 for Federal public works. An early vote in Congress is anticipated, the government authorities having satisfied themselves that widespread expenditure in construction will be one of the surest means of stimulating business to normal speed. A preliminary list of road construction to be financed by Federal money when the new bill is adopted shows that eleven western states can expect \$70,000,000 for highway work alone. California would receive about \$16,500,000.

GAS REVENUES. California faces the prospect of virtual suspension of state highway extension in the biennium starting July 1 if lot June 27 are carried. A favor-proposals on the State election ballot vote on the gas tax diversion plan would encourage the legislature to proceed with its bills for shifting motorists' money on a wholesale scale toward paying the state's bills for fish hatcheries, etc. If the diversion plans now contemplated are finally adopted less than \$5,000,000 will be available for new construction in 1933-35, the state department of public works estimates.

NEW KEY PIER. Reconstruction of the Key System ferry terminal on San Francisco bay, destroyed by fire three weeks ago, will be undertaken at once with expenditure of \$200,000. Kent & Hass, architects.

WEST ALLOTTED \$70,000,000 IN HIGHWAY FUNDS

**California to Get \$16,302,000
From Federal Works
Appropriation**

Eleven western states will receive approximately \$70,000,000 for highway construction under allocations in the pending Federal public works bill, according to a telegram received yesterday by Floyd O. Booe, secretary-manager of the Northern California Chapter, Associated General Contractors.

The allotments are made on the basis of population and on the apportionment of road building money used in the present Federal highway act. It is not required that the states match the Federal appropriations, however, according to preliminary advices.

Under the Federal-aid plan one-third of the total appropriation was allowed to states in proportion to their population, one-third in proportion to postal road mileage and one-quarter in proportion to state area.

Under the allotment system proposed in the new bill one-half of the total appropriation will be allotted in proportion to state population, one quarter in proportion to postal road mileage and one-quarter in proportion to state area.

The administration has requested Congress to enact legislation appropriating \$3,300,000,000 for public works, of which, of which \$400,000,000 will be for highways; \$200,000,000 for military equipment and the balance for public buildings, rebuilding of slums, conservation of natural resources and loans to railroads for equipment maintenance.

Appropriations for road construction in western states are tentatively estimated as follows:

Arizona	\$ 4,761,000
California	16,302,000
Colorado	6,480,000
Idaho	4,134,000
Montana	6,761,000
Nevada	4,018,000
New Mexico	5,250,000
Oregon	5,767,000
Utah	3,882,000
Washington	6,538,000
Wyoming	4,036,000

EDELMAN IS NEW CHIEF OF STATE ARCHITECT BOARD

Examiners Conclude Meeting Here; To Publish Pamphlet of Regulations

The State Board of Architectural Examiners planned today to cooperate with the state association of architects in issuing a pamphlet embodying architectural laws and regulations.

The pamphlet is necessary, the board decided at its annual meeting here this week, especially in view of recent changes in earthquake ordinances.

The board changed the date of semi-annual examinations from January and July to December and June, the forthcoming examination to be held June 12, 13, 14, and 15.

A. M. Edelman, Los Angeles, was elected president of the board, succeeding Albert J. Evers, and C. J. Ryland was elected secretary-treasurer, succeeding Harold C. Chambers. Other board members present were Frederick H. Meyer, Warren C. Perry, Louis J. Gill, Harold E. Burket, and G. Stanley Wilson, A. J. Evers and Harold C. Chambers. This was the initial attendance of Harold E. Burket and G. Stanley Wilson, who were recently appointed by Governor Rolph, succeeding John C. Austin and John Parkinson.

The board held its business session here May 16. The meeting extended to May 17, at which time R. J. Reed, president, Henry D. Dewell, vice-president, H. M. Jones secretary, and other representatives of the Bureau of Registration of Civil Engineers met with the architects to discuss mutual problems and formulate co-operative plans for the coming year.

Col. Carlos W. Huntington, head of the department of professional and vocational standards, addressed the combined boards, urging co-operation in the interests of both professions.

State Certificates were issued by the board to the following holders of Provisional Certificates:

Northern District

Donnell E. Jaekle, Carl Frederick Gromme, Theodore Gottfried Ruegg, Edward R. French, Jr., David Hull Horn, Lloyd Ashley Rasmussen, Arthur L. Herberger, Arthur Veryan Jory, Theodore C. Bernardi, Chas. N. Coseboom, W. Elbert Manhart, Mario Francis Corbett, Elmore G. Ernst, David B. Clark.

CITY CALLS BIDS ON PIPE LAYING

San Francisco Public Utilities Commission issued calls for bids yesterday on four contracts to lay cast iron pipe in various sections of the city. The contracts will aggregate \$55,000, it is estimated.

The jobs include installations on San Pablo, Yerba Buena and Plymouth from Portola drive to Wildwood avenue, estimated at \$11,710; Forest Hill subdivision, estimated \$9,900; Lake View Hill, Daly City and Crocker-Amazon districts, estimated, \$24,000; Judah street from 19th Ave. to 29th Ave. and Ocean Avenue from Faxon to Phelan, estimated, \$9,780.

Bids will be opened May 29 and June 2.

SHOPS EXEMPTED IN 30-HOUR LAW FOR CALIFORNIA

Amendments to the 30-hour week bill adopted by the California legislature have eliminated provisions for a five-day week and six-hour day which the measure originally contained, local contractors have been advised.

A further modification of the act requires the director of the department of industrial relations to investigate and report on the feasibility of the 30-hour week on any public works project prior to its adoption by the awarding body.

The law is an emergency act and will expire by limitation on July 1, 1935.

Construction interests pointed out that enforcement of a five-day week and six-hour day was impractical on many projects and would add materially to the cost of public work.

The law as adopted conforms to the Federal 30-hour week law. It excludes shops and all manufacturing operations and also does not interfere with any work in progress or contracts pending award.

PALO ALTO SELLS \$90,000 BOND BLOCK

Bonds with which to finance construction of the Palo Alto municipal sewage disposal system were sold at a premium by the city council.

Nine bids were received for the \$90,000 block of securities. The highest bid was that of Weeden & Company, San Francisco, offering a premium of \$1067. The interest rate is 4½ percent.

S. F. SCHOOL BOND ISSUE APPROVED BY SUPERVISORS

Voters Will Decide Proposal for Replacement of Buildings

The San Francisco Board of Supervisors yesterday voted unanimously to submit the proposed \$3,000,000 school construction bond issue to voters June 27.

President Philip Lee Bush of the board of education, in a detailed report to the supervisors, declared that the issue could not be set at a lower figure than \$3,000,000.

The bonds are designed to finance replacement of wooden "fire-trap" school buildings. The issue was urged on the supervisors by Mayor Rossi and board of education heads following the \$100,000 fire which destroyed the Fremont School several weeks ago.

If the issue is approved by voters, a building program involving the employment of 1500 men will begin within four months, according to D. P. Hardy, deputy superintendent of schools.

Bush recommended the erection of seven new fireproof buildings, and the modernizing and fireproofing of three existing buildings. This represents the minimum required for safety of pupils and teachers, he said.

The schools included in Bush's report are:

Glen Park, Bosworth street and Prompton avenue; Starr King, 25th and Utah streets; Twin Peaks, Corbett avenue near Iron avenue; Visitation, Schwerin street and Visitation avenue; Buena Vista, Bryant street between 18th and 19th; Douglas, 19th and Collingwood streets; Francis Scott Key, 42nd avenue between Irving and Judah; Irving Scott, Tennessee near 22nd street; Patrick Henry, Vermont street between 18th and 19th; Fremont, McAllister street between Baker and Broderick.

Engineers of the department of public works, under the direction of the board of education, have made a comprehensive survey of the schools.

Meanwhile, engineers are still engaged in a study of San Francisco schools with special reference to probable resistance to earthquake shock.

OPEN CEMENT PLANT

The Salt Lake City plant of the Utah Portland Cement Company will resume operation on a full 24-hour basis June 1, it is announced by Ashby Snow, president. The plant was closed November 1.

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BOARD ORDERS GATE BRIDGE STEEL PAYMENT

Engineers Report Local Plants Not Available For Fabrication

Directors of the Golden Gate Bridge project yesterday authorized a \$400,400 progress payment to McClintic - Marshall Corporation, holder of major steel contracts. The payment had been held up by the directors on protest of labor groups and civic organizations, who claimed that the firm planned to fabricate steel in its Alameda plant rather than in San Francisco.

A committee of directors and engineers detailed to inspect the Alameda and San Francisco plants reported that there were no fabricating facilities at Alameda, and that the Union Iron Works plant of the Bethlehem Shipbuilding Corporation was not owned by McClintic-Marshall, but by Bethlehem Steel, "parent" corporation, and hence could not be used for the steel in question.

According to Supervisor Stanton chairman of the committee, the firm plans to fabricate all the steel in its Eastern shops, using the Alameda plant only for storage, with a crew of not more than 12 men.

The directors also approved the letting by Barrett & Hilp, anchorage contractors, of a subcontract to Joe Gerrick and Company, for steel I-bars and chains, in the amount of \$34,000 on the San Francisco side and \$27,000 on the Marin side.

Joseph Strauss, chief engineer of the project, was instructed to prepare a detailed map of the proposed re-routing of the Presidio approach road, for submission at the next meeting of the directors. The new road is to exit from the Presidio at the Palace of Fine Arts instead of at Marina Boulevard as originally planned. Protest of Marina Boulevard residents caused the change.

SWENSON LOW ON BRIDGE REBUILDING

SACRAMENTO, May 24—Carl N. Swenson, San Jose, submitted the low bid today to the State Highway Commission for reconstructing the Manteca bridge across the Stanislaus river. His bid was \$79,932. Neves and Harp, Santa Clara, were second low at \$81,422 and J. F. Knapp, Oakland, third at \$83,480.

The low bid for grading 1.3 miles of road in Los Angeles county between Fullerton and Pomona was that of C. O. Sparks Los Angeles, at \$43,218.

MEYER BROS. OFFER LOW BID ON FIELD WORK

Heafey - Moore First On Proposals For Laying Paved Aprons

Meyer Bros., San Francisco, at \$33,940 submitted the low bid on the general contract for erecting the Hamilton Field headquarters building. Bids were opened yesterday by Captain Howard Nurse, constructing quartermaster.

The building is to be of concrete and hollow tile, 177 feet in length with a two-story tower in the center.

Second and third low bids were submitted by George Petersen, San Leandro, at \$38,985, and Robt. E. McKee, Los Angeles, at \$39,350.

For laying paved aprons around the hangar and shop buildings at the Filed, the low bid was submitted by Heafey-Moore Co., Oakland, at \$53,375.

Second and third low bidders were W. E. Lyons, Oakland, at \$54,900, and V. Maggiora, Sausalito, at \$55,498.

Orders for range boilers in April totaled 43,422 units compared with 39,725 in March, manufacturers reported to the Department of Commerce.

SEVERIN BID ON S. F. BUILDING IS WITHDRAWN

Company Declines to Extend Time for Acceptance of Proposal

N. P. Severin Company, Chicago, low bidders on the general contract for the San Francisco Federal building, have withdrawn their bid, the company advised DAILY PACIFIC BUILDER in a communication received Saturday.

In view of changed business conditions the company decided to withdraw their offer shortly after expiration of the sixty-day period in which the government may accept the proposal, it was stated. Construction forces of the company are to be concentrated at St. Louis on the Federal court house building in that city which was awarded to Severin while the San Francisco contract was pending.

The Severin bid was \$2,548,000. Other low bids were those of Great Lake Construction Company, Chicago, \$2,597,952; Jacobsen Const. Co., Chicago, \$2,675,000; George Wagner, San Francisco, \$2,690,000.

The offices of Arthur Brown, Jr., architect for the building, said they had not received official advices yet as to the government's intention in respect to the bids.

TO READVERTISE JAIL EQUIPMENT CONTRACT

The department of public works yesterday rejected bids received May 5 for equipment for the new San Francisco county jail at Sneath Ranch.

Action was taken on the recommendation of City Architect Chas. Sawyer, who told Wm. H. Worden, Director of Public Works, that the bids received were "far too high," and recommended that the specifications be revised and the contract readvertised.

Worden and Sawyer recently visited San Quentin Prison to inspect types of cell-locking equipment in use there.

Contracts for all other units of the new jail have already been let.

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SEEK \$5,000,000 IN WASHINGTON RENOVIZE WORK

Bankers Association Creates Credit Pool to Finance Home Owners

Expenditures reaching \$5,000,000 for labor and materials by local property owners during the next six months, is the goal set by committee of business and civic leaders now actively sponsoring the Renovize Washington Campaign, according to the Home Modernizing Committee, Bureau of Standards.

The first announcements of the drive include a contest for choosing the best plans for completely modernizing and equipping a dilapidated house over 60 years of age. Practically every building trade will be utilized in the public demonstration of home remodeling in connection with the day to day modernization of this old structure with local housing experts in attendance to answer home owners' questions.

In order to make provisions for immediate financing, leading financial institutions are represented on the local committee and the District Bankers' Association has made available a special credit pool to further facilitate the making of needed loans to home owners.

According to current reports received by the home modernizing committee of the Bureau of Standards, this local campaign represents another link in a national chain of similar organized property improvement drives conducted in cities throughout the country to stimulate local employment and business and stabilize home values.

Of these campaigns, the most outstanding to date, is the Renovize Philadelphia Campaign, of which the local organization estimates that \$14,000,000 of the total expenditure by property owners of \$21,000,000 will go directly to labor and furnish approximately one month's work for 135,000 men.

A responsible writer recently stated that "There are millions of residences in the United States of an average age between thirteen and fifteen years. Hundreds of thousands are much older in the East, some running to a century or two."

A community, by making carefully planned repairs in accordance with good designs, raises its real estate values, and advances the common wealth through such improvements. Chambers of commerce, leading newspapers, civic organizations and clubs have joined in campaigns to encourage citizens to improve their properties.

Of large importance is the fact that banks in many cities have announced their willingness to lend liberally to finance improvements.

The advisory home modernizing committee of the Bureau of Standards is composed of 17 housing experts, serving in a voluntary ca-

O. W. DEGEN TO END 38 YEARS IN ARMY CONSTRUCTION WORK

O. W. Degen, civil engineer and superintendent of construction at Fort Mason, retires on June 1 after 38 years' service with the War Department. Starting in 1892 at Fort Slocum, New York, he was employed temporarily until October, 1896, and has been on permanent civil service status since June 1897. All work of any consequence was done under his supervision at the following Army Posts, in consecutive order:

Fort Slocum, Fort Hamilton, N. Y.

Fort Trumbull, Connecticut.
Fort Terry, Fort Michie and Fort H. G. Wright, New York.

Fort Mansfield, Rhode Island.
Fort Thomas, Kentucky.
Fort Casey, Fort Worden and Fort Flagler, Washington.

Mr. Degen was transferred to San Francisco on September 16, 1905. Under his able supervision were built Fort Winfield Scott, Ft. Barry, Crissy Field and the Transport Dock at Fort Mason.

All the important structures since that time at the Presidio, Letterman General Hospital, Fort Mason, Fort Miley, Fort Baker, Fort Funston, Fort McDowell, Alcatraz Island and the arsenal at Ogden, Utah, were constructed under his guidance. In addition, plans have been made by him and work executed in nearly all Army Posts in the Ninth Corps Area.

Mr. Degen is considered one of the best authorities on army construction in the United States. He has worked up a reputation to the highest point of efficiency in the office of the constructing quartermaster at Fort Mason.

FIR ASSOCIATION SETS PAY SCHEDULE

A minimum wage schedule for all plants of the Douglas Fir Plywood Manufacturers' Association has been announced by members following a conference at Portland, Oregon. A trade association and a code of ethics also were agreed upon by the manufacturers.

More than 90 per cent of the Pacific Northwest plywood industry agreed to a minimum wage of 25 cents an hour effective June 1, and 30 cents an hour, effective July 1. As a result, most of the 3,000 plywood workers will be given a wage increase, the percentage depending on the base wage now being paid. On July 1 a second increase will affect all workers in the industry.

capacity, through the division of building and housing. Details of plans used in successful home modernizing and community improvement campaigns in various cities, including reports on expenditures, an operating manual outlining local campaign organization, and information of interest to individual home owners may be secured from the committee on request.

LABOR BUREAU REPORTS GAIN IN U. S. BUILDING

Greatest Improvement in Three Years for Thirty-Day Period, Says Report

Widespread gains in building construction in the United States were disclosed in a survey on April 15 by the labor department. Indicated expenditures during the month ended on that date were 21.2 per cent above those for the month ending March 15, the department reported. Figures were compiled from 778 cities.

The 1933 increase of April over March was greater than the increases shown in comparing these months in any of the previous three years," the department said. "Comparing April, 1933 with March 1933, there was an increase of 29.4 per cent in the number and an increase of 10.3 per cent in the estimated cost of new residential buildings. New non-residential buildings increased 44.7 per cent in number and 43.4 per cent in indicated expenditures."

Comparing 352 identical cities the report said there was a decrease of 41.2 per cent in the number of new residential buildings and a decrease of 32.2 per cent in the number of non-residential construction during the year.

The various agencies of the federal government awarded contracts during April for buildings to cost \$4,720,642, an increase of nearly \$1,500,000 as compared with March but more than \$7,000,000 less than in April, 1932.



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PERMITS AND CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
303	Mangano	Ragni	3000
304	Martin	Owner	1200
305	Edstrend	De Lucchi	2700
306	Fry	McShee	2492
307	Mihaljevich	Owner	1500
308	Garcia	Erickson	2700
309	Hallgren	Owner	3000
310	Smith	Anderson	1245
311	Pierron	Owner	12500
312	Hutchings	Damico	2500
313	Clement	Johnson	2750
314	Hallgren	Owner	3500
315	Ferrera	Faggioni	4500
316	Dall	Lindsay	2900
317	Griffin	Broderick	10000
318	Barry	McCarthy	3000
319	Fridstrom	Owner	2850
320	Kenneally	Pratt	1000
321	Ross	Blincoe	4000
322	Debrincat	Owner	10000
323	Dohrmann	Gray	5000
324	Strauss	Barrett	2000
325	Sharman	Owner	5000
326	Lindsay	Owner	3850

DWELLING

(303) N TINGLEY 261 W Mission St. One-story and basement frame dwelling.

Owner—K. Mangano, 81 Theresa St., San Francisco.
Architect—Not Given.
Contractor—J. Ragni, 443 Bellevue St., San Francisco. \$3000

ALTERATIONS

(304) NO. 2622 BRYANT ST. Alter flats.
Owner—C. Martin, 1426 Florida St., San Francisco.
Architect—Not Given. \$1200

DWELLING

(305) NO. 520 HUDSON AVE. One-story and basement frame dwelling.

Owner—Mrs. A. Edstrend, 520 Hudson Ave., San Francisco.
Architect—Not Given.
Contractor—G. B. De Lucchi, 4 Sharp Place, San Francisco. \$2700

REPAIRS

(306) 1696-98 McALLISTER ST. Repair fire damage to flats.
Owner—R. B. Fry, 1423 Ellis St., San Francisco.
Architect—Not Given.
Contractor—J. McSheehy, 137 Clifford St., San Francisco. \$2492

DWELLING

(307) S JOOST AVE. 275 E Baden. One-story and basement frame dwelling.

Owner—G. Mihaljevich, 307 Guerrero St., San Francisco.
Architect—Not Given. \$1500

DWELLING

(308) E CONGO 210 N Stillings Ave. One-story and basement frame dwelling.

Owner—D. Garcia, % Contractor.
Architect—Not Given.
Contractor—H. Erickson, 972 Chenery St., San Francisco. \$2700

DWELLING

(309) E TWENTY-FIRST AVE 100 N Judah St. One-story and basement frame dwelling.

Owner—A. Hallgren, 1594 29th Ave., San Francisco.
Architect—D. E. Jaekle, Call Bldg., San Francisco. \$3000

ALTERATIONS

(310) NO. 230 RODEO. Alter dwelling.

Owner—Mrs. J. Smith, 403 Fair Oaks St., San Francisco.
Architect—Not Given.
Contractor—L. R. Anderson, 253 States St., S. F. \$1245

APARTMENTS

(311) NW UNION and Octavia Sts.; three-story and basement frame (5) apartments.
Owner—J. Pierron, care architect.
Architect—Fabre and Hildebrand, 110 Sutter Street. \$12,500

ADDITION

(312) 2169 JONES ST.; addition to store.
Owner—Miss M. A. Hutchings, 933 Greenwich Street.
Architect—Not Given.
Contractor—T. Damico, 2345 Polk St. \$2500

DWELLING

(313) W THIRTY-FIFTH AVE 25 S Santiago. One-story and basement frame dwelling.

Owner—Mr. Clement, 1017 Irving St., San Francisco.
Plans by Contractor.
Contractor—F. Johnson, 329 Lowell St., San Francisco. \$2750

DWELLING

(314) E TWENTY-FIRST AVE 75 N Judah. One-story and basement frame dwelling.

Owner—A. Hallgren, 1594 29th Ave., San Francisco.
Architect—Not Given. \$3500

FLATS

(315) W THIRD ST. 25 N Williams. Two-story and basement frame (2) flats.

Owner—S. Ferrera, 5260 Third St., San Francisco.
Plans by Owner.
Contractor—Faggioni & Barsotti, 1567 Revere St., S. F. \$4500

DWELLING

(316) S RICHLAND 525 E Murray. One-story and basement frame dwelling.

Owner—Dall-Cuthbert Realty Co., 940 Geneva Ave., San Francisco.
Architect—Not Given.
Contractor—B. C. Lindsay, 183 Oxford St., San Francisco. \$2900

REPAIRS

(317) NW TWENTY-FIRST AND Florida Sts. Repair fire damage to dwelling.

Owner—T. J. Griffin, 21st St. near Hampshire St., San Francisco.
Architect—Not Given.
Contractor—T. J. Broderick, 1528 Cypress St., Burlingame. \$10,000

ADDITION

(318) NO. 659 FOURTEENTH ST. Addition to apartments.

Owner—J. J. Barry, % Contractor.
Architect—Not Given.
Contractor—R. McCarthy, 1363 14th St., San Francisco. \$3000

DWELLING

(319) NW CAYUGA 25 SW Lyell St. One-story and basement frame dwelling.

Owner—W. Fridstrom, 3547 Mission St., San Francisco.
Architect—Not Given. \$2850

ADDITION

(320) E MIGUEL 60 N Arlington St. Addition to dwelling.

Owner—J. Kenneally, 298 Arlington St., San Francisco.

Architect—Not Given.

Contractor—C. A. Pratt, 233 Clayton St., San Francisco. \$1000

DWELLING

(321) W THIRTY-EIGHTH AVE 205 S Clement Street. One-story and basement frame dwelling.

Owner—A. A. Ross, % Contractor.
Plans by B. K. Dobkowitz.
Contractor—C. O. Blincoe, 2663 15th Ave., San Francisco. \$4000

FLATS

(322) N NEWCOMB 175 E Newhall. Two two-story and basement frame (2) flats.

Owner—J. Debrincat, 1794 Newcomb St., San Francisco.
Architect—Not Given. \$5000 each

DWELLING

(323) S BEACH ST. 323 E Webster. Two-story and basement frame dwelling.

Owner—P. Dohrmann, 2524 Union St., San Francisco.
Architect—A. B. Talbot, 3060 Pacific Ave., San Francisco.
Contractor—H. E. Gray, 1640 North Point St., San Francisco. \$5000

REPAIRS

(324) NO. 151 POWELL ST. Repair fire damage to hotel and restaurant.

Owner—Levi Strauss, % Contractor.
Architect—Not Given.
Contractor—Barrett & Hilp, 918 Harrison St., San Francisco. \$2000

FLATS

(325) E TENTH AVE. 185 N Judah; two-story and basement frame (2) flats.

Owner—T. R. Sharman, 3700 Broderick Street.
Architect—Not Given. \$5000

DWELLING

(326) E 33rd AVE. 150 N Kirkham; one-story and basement frame dwelling.

Owner—C. T. Lindsay, 4363 26th St.
Architect—Not Given. \$3850

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
167	McCaffrey	Carlos	3500
168	Grayson's	Q R S	1000
169	Haller	Owner	4500
170	Brazier	Owner	4000
171	Bonds	Owner	5000
172	Rankin	Owner	4875
173	Ray	Owner	1200

DWELLING

(167) NE SPRUCE AND EASTER Way, BERKELEY. Two-story 6-room frame dwelling.

Owner—J. C. McCaffrey, 77 Glenn Ave., Oakland.
Architect—Not Given.
Contractor—Chas. M. Carlos, 654 Oakland Ave., Oakland. \$3500

ELECTRIC SIGN

(168) 1301 WASHINGTON St., OAKLAND; electric sign.

Owner—Grayson's.
Architect—Not Given.
Contractor—Q. R. S. Neon Corp., 690 Potrero Ave., San Francisco. \$1000

DWELLING

(169) 6178 ROCKRIDGE Blvd., OAKLAND; two-story 6-room dwelling.

Owner and Builder—Paul H. Haller, 5871 Bucna Vista Ave., Oakland.
Architect—Not Given. \$4500

DWELLING
(170) E COR. CORONA CREST,
BERKELEY. Two-story 6-room
frame dwelling and garage.
Owner—J. W. Brazier, 1227 Spruce
St., Berkeley.
Architect—Not Given. \$4000

DWELLING
(171) HALKIN LANE 125 E Spruce
St., **BERKELEY.** Two-story six-
room frame dwelling and garage.
Owner—Milton S. Bonds, 914 The
Alameda, Berkeley.
Architect—W. W. Dixon, Fifth Ave.
and E-15th St., Oakland. \$5000

DWELLING
(172) NO. 6181 CONTRA COSTA RD.
OAKLAND. Two-story five-room
dwelling.
Owner—Ivan S. Rankin, 5939 College
Ave., Oakland.
Architect—Not Given. \$4875

ALTERATIONS
(173) NO. 1928 - 1930 BROADWAY,
OAKLAND. Alterations.
Owner—Ray Building, 1924 Broadway,
Oakland.
Architect—Not Given. \$1200

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
62	Regents	American	13096
63	Fry	McSheehy	2492
64	Regents	Venor	6740
65	Robinson	Williams	1450

FURNITURE

(62) LOCATION NOT GIVEN. All
work for furnishing and installing
laboratory furniture in the Medi-
cal School Building, University of
California in San Francisco.

Owner—The Regents of the University
of California.

Architect—W. P. Stephenson, Univer-
sity of California, Berkeley.

Contractor—American Seating Co., 650
Second St., San Francisco.

Filed May 18, '33. Dated May 3, '33.
On completion 75%
Usual 35 days 25%

TOTAL COST, \$13,096
Bonds (2) \$7000 each. Surety, Fire-
man's Fund Indemnity Co. Limit.
60 days. Forfeit, none. Plans and
specifications filed.

ALTERATIONS

(63) NE McALLISTER AND BROD-
erick Sts. All work for altera-
tions and repairs to building.

Owner—Robert B. Fry, 1696 McAllis-
ter St., San Francisco.
Architect—Not Given.

Contractor—James B. McSheehy, 137
Clifford Terrace, San Francisco.

Filed May 18, '33. Dated May 17, '33.

Frame up on third floor.....\$ 800
When completed 1050
Usual 35 days 642

TOTAL COST, \$2492

Bond, none. Limit, 60 days. Forfeit,
none. Plans and specifications filed.

Kearny E 40xS 68-9 50 V B 59.
J DiCristina & Son to whom it
may concern.....\$77.75

MEDICAL SCHOOL

(64) LOCATION NOT GIVEN. All
work for floor coverings for the
Medical School Building, Univer-
sity of California in San Fran-
cisco.

Owner—The Regents of the Univer-
sity of California.

Architect—W. P. Stephenson, Univer-
sity of California, Berkeley.

Contractor—Laurin H. Venor (as The
Venor Co.), 36 Sacramento St.,
San Francisco.

Filed May 19, '33. Dated May 16, '33.

Upon completion 75%

Usual 35 days 25%
TOTAL COST, \$6740
Bond, \$3400. Surety, Indemnity In-
surance Co. of North America. Limit,
30 days. Forfeit, none. Plans and
specifications filed.

(65) NW COR. SACRAMENTO AND
Lyon 37-6x82-8¼, known as 3200
Sacramento St.; store alterations,
2-story and basement frame flat
building.

Owner—Guy H. Robinson, 366 Baker
Street.

Architect—Not Given.
Contractor—J. B. Williams and A.
Schrang, 49 Dorland St.

Filed May 24, '33. Dated April 22, '33.

When job half completed25%
When completed25%
Usual 35 days50%

TOTAL COST, \$1450
Bond, \$700. Sureties, Massachusetts
Bonding & Ins. Co. Limit, 45 days.
Plans and Spec. filed.

ALAMEDA COUNTY

22 Gottburg Shain 3750

RANCH HOUSE

(22) SOUTH SIDE HARDER Road
at inter. with Niles Road, Eden
Twp.; all work on ranch house.

Owner—L. F. Gottburg, SW. corner
Niles Road and Harder Road.

Architect—Geo. P. Simonds, 261 Main
St., Hayward.

Contractor—H. S. Shain, 54 Arlette
Ave., Hayward.

Filed and Dated May 19, 1933.

5th day after roof completed.....\$ 900
" after plastering completed..... 900
" after comp. of all work..... 950
Usual 35 days 1000

TOTAL COST, \$3750
Limit, 75 days. Plans and Spec. filed.

SAN FRANCISCO UNDER \$1000

FLUE, patent, \$16; 1096 Hollister St.;
owner, Sattenberger, 987 Hollister
St.; contractor, Stelling Sheet
Metal Shop, 2811 Army St.

ALTER flatse for apartments, \$980;
1781-83 Oak St.; owner, Mrs. P.
McCarthy, 1781 Oak St.; contrac-
tor, F. S. Marshall, 799 Ashbury

BARBER pole, \$10; 405 Kearny St.;
owner, S. Bairrarnion, 405 Kearny.

SIGN, electric, \$450; 1204 Market St.;
owner, T. J. O'Rourke, 1204 Mar-
ket St.; contractor, Elec. Prods.
Corp., 255 Golden Gate Ave.

ALTER dwelling, \$300; 434 29th Ave.;
owner, M. C. McKay, Premises.

SIGN, electric, \$350; 740 Great High-
way; owner, Whitney Bros., 4800
Cabrillo Street; contractor, Neon
Sign Service Co., 1707 Folsom St.

ALTER store, \$200; 500 Gough St.;
owner, Mrs. J. Amonini, Premises;
contractor, J. Rumelberg, 1024
Page St.

ALTER dwelling, \$400; 353 Tocoloma
St.; owner, V. M. Kozgenco, 353
Tocoloma St.; plans by W. Naz-
ereff, 2705 California St.

SIGN, electric, \$195; 1200 Potrero
Ave.; owner, A. K. Soderberg,
1200 Potrero Ave.; contractor,
Neon Sign Service Co., 1707 Fol-
som St.

BARBER pole, \$25; 1153 Market St.;
owner, J. F. Brady, 1153 Market.

ALTER dwelling, \$598; 16 28th St.;
owner, P. Commins, Prem.; con-
tractor, A. Saunier, 769 Brunswick

REPAIR fire damage to store, \$130;
2437 24th St.; owner, Mr. Barbi-
chillan, % Contractor; contractor,
I. W. Coburn, 2048 Market St.

SIGN, electric, \$250; 136 Turk St.;
owner, W. D. Patterson, 136 Turk
St.; contractor, Elec. Products
Corp., 255 Golden Gate Ave.

ELECTRIC sign on marquise, \$450;
233 Geary St.; owner, Frank

More Shoe Shop, Premises; con-
tractor, Elec. Prods. Corp., 255
Golden Gate Ave.

ALTER restaurant, \$450; 241 Califor-
nia St.; owner, Capitol Co., Mar-
ket at New Montgomery; contrac-
tor, P. O. Lind, 2745 16th St.

FLUES (4) patent, \$75; S Jefferson
205 W Webster St.; owner, J. Fer-
rari, 666 Mission St.; contractor,
J. J. De Lucchi, 1526 Powell St.

ALTER shed, \$30; 915 Irving St.;
owner, A. Fodera, 915 Irving St.

ALTER flats, \$250; 50 Cumberland St.
owner, Mrs. Knief, 50 Cumberlad
SIGN, electric, \$200; 690 Van Ness
Ave.; owner, Apex Auto Sales Co.,
690 Van Ness Ave.; contractor,
Apex Elec. Co., 363 Fell St.

ALTER stores, \$300; 61 Third St.;
owner, F. Amacher, 61 3rd St.

ADD to dwelling, \$40; 111 Cayuga;
owner, E. Fontanier, Premises.

ALTER store and dwelling, \$45; 1221
Divisadero St.; owner, S. Zeiler,
1221 Divisadero St.

GARAGE, frame, \$125; S Gerke Alley
100 E Grant Ave.; owner, Mrs. L.
Cogorno, 9 Gerke Alley.

ALAMEDA COUNTY UNDER \$1000

BILLBOARD, \$60; W Telegraph Ave.
50 N Appar St., Oakland; owner,
Peter Crestetto, 423 Euclid Ave.

SIGN, electric, \$50; 1807 Franklin St.,
Oakland; owner, Bischoff Surgical
Co.; contractor, Imp Elec. Sign
Co., 2228 Myrtle St.

ALTER garage, \$200; 624 Madison St.,
Oakland; owner, Chew Mow, 624
Madison St.

ALTERATIONS, \$300; 2028 Shattuck
Ave., Berkeley; owner, J. G.
Wright; contractor, Dinwiddie
Constr. Co.

ALTERATIONS, \$58; 5500 San Pablo
Ave., Oakland; owner, F. W.
Whetstone, 5508 San Pablo Ave.

ALTERATIONS ad addition to dwell-
ing and add to garage, \$325; 672
51st St., Oakland; owner, Mrs.
Mabel Kerr, 672 51st St.

SIGN, electric, \$260; 1621 Broadway,
Oakland; owner, Jackson Jewelers
contractor, Ace Elec. Sign Co.,
1243 E-12th St.

GARAGE, one-story, \$100; 610 30th
St., Oakland; owner, Mrs. L.
Spencer, Premises.

ALTERATIONS and addition, \$350;
4484 Redding St., Oakland; owner,
Samuel K. Peel, Premises.

ADDITION, \$250; 784 5th St., Oak-
land; owner, C. Cassaro, 784 5th.

SIGN, electric, \$25; 1538 Franklin St.,
Oakland; owner, Mr. Fitzpatrick;
contractor, Ace Elec. Sign Co.,
1243 E-12th St.

ALTERATIONS, \$150; 2804 Telegraph
Ave., Berkeley; owner, Public
Food Stores.

GARAGE, \$200; 2358 Corona Court,
Berkeley; owner, J. W. Brazier,
1227 Spruce St.

ALTERATIONS, \$150; 1629 Tacoma
Ave., Berkeley; owner, Mrs. J. E.
Christensen, 1629 Tacoma Ave.;
contractor, Edw. M. Sorensen, 1907
Parker St., Berkeley.

STORE, one-story, \$100; 6027 Foot-
hill Blvd., Oakland; owner, H.
Sephton, Premises.

GARAGE, one-story, \$350; 46th Ave.
and Clement St., Oakland; owner,
Peter M. Holst, 3724 Clement St.

ALTERATIONS, \$50; 428 8th St., Oak-
land; owner, Placido Ayson, 428
8th St.; contractor, E. Koyama,
626 Clay St.

GARAGE, one-story brick and con-
crete, \$250; 3009 Richmond Blvd.,
Oakland; owner, E. M. Snow, 3009
Richmond Blvd.

ALTERATIONS, \$115; 2020 Dwight
Way, Berkeley; owner, L. B.
Whitsall, Premises; contractor,
Crown Roof Co., 2609 E-14th St.

BUILDING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

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| 2.—Bonds | 12.—Power Plants |
| 3.—Churches | 13.—Public Buildings, Fire Houses and Jails |
| 4.—Factories and Warehouses | 14.—Residences |
| 5.—Flats | 15.—Schools |
| 6.—Garages and Service Stations | 16.—Fanks, Stores and Offices |
| 7.—Federal Buildings | 17.—Theatres |
| 8.—Club Buildings | 18.—Wharves & Docks |
| 9.—Hospitals | 19.—Misc. Const. |
| 10.—Hotels | 20.—Misc. Supplies & Materials |

1—APARTMENTS

Preparing Preliminary Sketches. ALTERATIONS Cost, \$5000 SAN FRANCISCO. Central Ave. and Waller St.

Alterations to three-story frame flats for apts. (three 2-room and three 3-room apts.) steam heating system, electric refrigeration, miscellaneous mill work, plastering, hardwood floors, tile in baths, etc. Owner—Withheld.

Architect—Lloyd Conrich, 815 25th Avenue.

Low Bidder. APARTMENTS Cost, \$— SAN FRANCISCO. Union and Octavia Streets.

Three-story and basement frame and stucco apartments 5 4-room apts.) tile and composition roof, gas steam heating system, hardwood floors and trim, tiled baths, electric refrigeration, etc.

Owner—E. J. Pierron. Architect—Fabre and Hildebrand, 110 Sutter Street.

Low Bidder—DeLuca & Son, 320 Market St., approximately \$13,000. Bids held under advisement.

Preparing Plans. APARTMENTS Cost, \$—

SAN FRANCISCO. Kirkham Street. Two-story and basement frame and stucco apartments (4 4-room apts. and one 4-room cottage); hot air heating fuel gas, hardwood floors, garage space for four cars.

Owner—Withheld. Architect—Oscar R. Thayer, Monadnock Bldg., San Francisco. Bids will be asked about June 1st.

Contract Awarded. ADDITION Cost, \$3000 SAN FRANCISCO. No. 639 Fourteenth Avenue.

Addition to apartments. Owner—J. J. Barry, % Contractor. Architect—Not Given. Contractor—Robert McCarthy, 1363 14th Ave., San Francisco.

To Ask Bids Within A Few Days. REMODEL Cost, \$30,000 SAN FRANCISCO. No. 1164 Market Street.

Remodel four-story concrete loft building for apartments (add one story, 30 2-room apts., 4 stores). Owner—A. W. Wilson.

Architect—C. A. Meussdorffer, Humholdt Bank Bldg., San Francisco.

2—BONDS

PASADENA, Cal.—Until 11 A. M. May 31, bids will be received by city

clerk, Bessie Chamberlain, 218 City Hall, for the purchase of \$992,000 bonds issued for the San Gabriel Canyon (Pine Canyon) project. The bonds are part of the \$10,000,000 bond issue voted June 18, 1929. Certified check 1%.

BAY CITY, Ore.—Until May 31, 7:30 P. M., bids will be received by O. H. Schrader, secretary of the board of commissioners, Port of Bay City, at the office of the Hammond Tillamook Lumber Co., Garibaldi, Ore., for the sale of \$26,000 Port of Bay City refunding bonds, interest at 6%. Certified check 10% required with bid.

3—CHURCHES

Contract Awarded. CHURCH Cost, \$7500 TURLOCK, Stanislaus Co., Cal. Third and A Streets.

One-story and basement reinforced concrete church (48x96) balcony to seat 125, auditorium to seat 475 (16 ft. walls in auditorium and 8 ft. walls in basement).

Owner—Pentecostal Mission Church (Church C. Nelson, pastor) Turlock.

Plans by Mr. Hillberg. Contractor—C. A. Hillberg, Turlock.

TUCSON, Ariz.—Architect M. H. Starkweather, 40 W. Congress St., Tucson, is preparing for a chapel to be erected in Tucson for Father Victor Stoner.

4—FACTORIES & WAREHOUSES

Plans Completed. BREWERY Cost, \$— LOS ANGELES, Calif. 1920 N Main Street.

One-story Class C brick malt equipment plant (49x133) composition roof, steel sash, wire glass, steel rolling doors, cement and mastic floors, cement waterproofing, structural steel, concrete tanks.

Owner—Los Angeles Brewing Co., 1920 N Main St., Los Angeles.

Architect—Llewellyn A. Parker, Architects' Bldg., Los Angeles.

Plans Being Figured—Bids Close June 21, 2 P. M.

MAINTENANCE BLDG. Cost, \$— SAN RAFAEL, Marin Co., Cal. Hamilton Field.

One-story structural steel and concrete maintenance utility shop (68x123.6 ft.); asbestos protected metal roof.

Owner—United States Government. Plans by Constructing Quartermaster, Hamilton Field.

Work involves taking down structural steel from hangar at Mather Field for use in building.

Commissioned To Prepare Plans. REPAIRS Cost, \$— SAN FRANCISCO. No. 426 Natoma Street.

Repair fire damage to manufacturing plant.

Owner—James Conlin. Architect—O'Brien Bros. and W. D. Peugh, 333 Montgomery St., San Francisco.

Contract Awarded. REMODEL Cost, \$10,000 SAN FRANCISCO. No. 920 Market Street.

Remodel basement of Class C store for ice cream manufacturing plant (partition work, heating, wiring,

painting, plastering, refrigeration, etc).

Owner—S. H. Kress Company. Plans by Engineering Dept. of Owner. Contractor—Dinwiddie Construction Co., Crocker Bldg., S. F.

Preparing Plans. BREWERY Cost, \$1,250,000 SAN FRANCISCO. Pennsylvania and Army Streets.

Combination brewery, winery and bonded warehouse.

Owner—Thomas W. Costello et al, San Francisco.

Engineer—Chas. A. Brady, 435 42nd Ave., San Francisco.

Further details will be announced shortly.

Contract Awarded. MFG. PLANT \$30,000 with equip. MODESTO, Stanislaus Co., Cal. Kansas Avenue.

One- and 2-story reinforced concrete and corr. iron powdered milk manufacturing plant (70x60 feet) gravel roof tanks, cooling and refrigeration equipment, etc.

Owner—Bordens Western Co. (J. B. Hunt, Mgr.) Kansas Ave., Modesto.

Plans by Engr. Dept. of Owner. Contractor—Harry Brown, Laurel St. Modesto.

Being Done By Day's Work. PLANT Cost, \$— ROSEVILLE, Placer Co., Cal. Vernon Street.

Group of buildings comprising warehouse, store, office, etc. (frame, stucco and corrugated iron construction).

Owner—Sterling Lumber Co., Roseville (H. F. Duncan, Mgr.) Roseville.

Plans by E. A. Nichol, Berkeley. Construction is being done by day's labor under the supervision of owners.

SAN FRANCISCO.—The Emporium awarded the steel shelving contract to the Medart Mfg. Co., 233 California St., in connection with the construction of the Class A warehouse on Mission Street bet. 4th and 5th, for which K. E. Parker Co., 135 South Park, is general contractor. Painting bids are now being taken.

Sub-Contracts Awarded. BREWERY Cost, \$300,000

OLYMPIA, Washington. Tumwater. Reinforced concrete brewery (184x140 ft.) reinforced concrete bottling house (60x120 ft.) capacity of 25,000 barrels annually.

Owner—Olympia Brewing Co. (Adolph Schmidt, President).

Plans by Gay Engr. Corp., 2560 Santa Fe Ave., Los Angeles.

Contractor—A. D. Belanger, 222 Westlake St., Seattle.

Reinforcing Steel—Pacific Coast Steel Co., Youngstown, Seattle, Wash.

Cork Insulation—Pioneer Sand & Gravel Co., 901 Harrison Street, Seattle, Wash.

SAN DIEGO, Cal.—Ritz Brewing Co. Baron Long, President, San Diego, has incorporated for the purpose of establishing and operating a brewery in San Diego. The company has leased buildings on Imperial Ave., bet. Eighth and Ninth Aves., in which the plant will be established. The equipment of the Wise brewery at Nogales, Sonora, Mexico, has been purchased and will be moved to San Diego. The plant will have an annual capacity of 150,000 barrels of beer.

Lumber Bids Being Taken.

REMODEL Cost, \$10,000
SANTA ROSA, Sonoma Co., Cal.
 Remodel Class C winery (new roof, machinery and equipment).
 Owner—Grace Bros., Santa Rosa.
 Engineer—L. H. Nishkian, 525 Market St., San Francisco.

Machinery and equipment will bring the cost of improvement to \$40,000.

5—FLATS

Contract Awarded.

REPAIRS Cost, \$2500
SAN FRANCISCO. No. 1696-98 McAllister Street.
 Repair fire damage to frame flats.
 Owner—R. B. Fry, 1423 Ellis St., San Francisco.
 Architect—Not Given.
 Contractor—J. McSheehy, 137 Clifford St., San Francisco.

To Be Done By Day's Work.

FLATS Cost, \$6000
SAN FRANCISCO. E Tenth Ave. 155 N Judah Street.
 Two - story and basement frame and stucco flats (2 flats).
 Owner and Builder—T. R. Sharman, 3700 Broderick Street.
 Architect—Not Given.

6—GARAGES & SERVICE STATIONS

Contracts Awarded.

SERVICE STATION Cost, \$15,000
SACRAMENTO, Sacramento Co., Cal.
 Sixteenth and L Streets.
 Service station.
 Owner—Shell Oil Co., Shell Bldg., San Francisco.
 Plans by Engineering Dept. of Owner.
 Lessee—F. E. Kraus, 2030 23rd St., Sacramento.
Building—Henry Finnigan, 1901 T St., Sacramento.
Plumbing—F. A. McIntyre, 2922 35th St., Sacramento.
Electric—E. L. French, 1219 28th St., Sacramento.

Sub-Contracts Awarded.

SERVICE STATION Cost, \$5000
SAN FRANCISCO. NE Seventeenth and Clayton Streets.
 Steel service station.
 Owner — Standard Oil Co., 225 Bush St., San Francisco.
 Plans by Engineering Dept. of Owner.
 Contractor—J. A. Grant, 82 Divisadero St., San Francisco.
Grading—Sibley Grading & Teaming Co., 165 Landers St., S. F.
Electric—Frank Goodman, 350 Waller St., San Francisco.
Plumbing—W. E. Trousdale, 422 Turk St., San Francisco.

7—FEDERAL BUILDING

WASHINGTON, D. C. — Newman Bros., McMinnville, Oregon, at \$3687 awarded contract by Treasury Department for repairs, painting, etc., for the U. S. Post Office at Spokane, Washington.

WASHINGTON, D. C.—As previously reported, Edwin F. Guth, St. Louis, Mo., at \$1527 submitted low bid to Treasury Department, for furnishing and installing interior lighting fixtures in the U. S. Forest Service Building at Ogden, Utah. Following bids received:

Edwin F. Guth, St. Louis.....\$1527
 W. G. Warren & Co., Chicago.... 1615
 Phoenix Day & Co., Chicago..... 2030
 Bids held under advisement.

WASHINGTON, D. C.—Until June 6, 2 P. M., bids will be received by the Treasury Department for furnishing and installing insect screens in the U. S. Post Office at Caldwell, Idaho. Plans and specifications available from above office.

SAN FRANCISCO—Until June 1, 11 A. M., bids will be received by the Constructing Quartermaster, Fort Mason, for extending sewers, water mains, roads, sidewalks and underground electric light distributing lines for nine Officers' Quarters at Fort Mason. Plans and specifications available from above office upon deposit of \$10.

See call for bids under official proposal section in this issue.

ALAMEDA, Cal.—W. F. McCrea, 731 E-Eighth St., Oakland, at \$644.99 awarded contract by U. S. Bureau of Public Works, San Francisco, for furnishing and installing Venetian blinds on 79 windows in the Administration Building at Government Island, Alameda.

SAN FRANCISCO—E. T. Lesure, 87 Ross Circle, Oakland at \$219 awarded contract by Public Works Officer, Twelfth Naval District, for wood and glass partitions and concrete work pit at the District Staff Headquarters 12th Naval District, San Francisco. Spec. No. 73131.

SAN FRANCISCO—A. B. C. Painting and Spray Co., 340 Guttenberg Street at \$344, awarded contract by Public Works Officer, 12th Naval District, for painting and redecorating interior of quarters No. 3 and No. 5 at the Naval Receiving Ship, Yerba Buena Island, San Francisco. Spec. No. 7312.

WASHINGTON, D. C.—The following have procured plans for the purpose of submitting bids to Treasury Department on June 8 for furnishing and installing interior lighting fixtures at the U. S. post office building at Oroville, Calif.:

H. E. McArthur, Inc., 141 N La Brea Ave., Los Angeles.
 Solar Lighting Fixture Co., 444 N Western Ave., Los Angeles.
 Walter G. Warren Co., 363 E Ohio St., Chicago.
 Lightolier Co., 569 Broadway, New York City.

SAN FRANCISCO—The Constructing Quartermaster, Fort Mason, will ask bids shortly for furnishing and laying linoleum in kitchens and bantries in connection with the eight officers' quarters at Fort Mason.

Plans Being Completed.

FEDERAL BLDG. Cost, \$5,265,000
LOS ANGELES, Cal. Temple Street bet. Spring and Main Streets.
 Fifteen - story H - shaped steel frame and reinforced concrete Federal bldg. (182x370 ft.) granite facing, some terra cotta facing, 10 passenger elevators, 2 freight elevators, steam heating, etc.
 Owner—United States Government.
 Architect—John C. Austin and Frederic M. Ashley, Chamber of Commerce Building, Los Angeles, and John and Donald Parkinson, Title Insurance Bldg., Los Angeles.

Mechanical Engineer—Ralph E. Phillips.

Electrical Engineer—C. A. Sanborn & Company.

Bid Withdrawn.

FEDERAL BUILDING
 Total Cost, \$3,500,000
SAN FRANCISCO. Civic Center.
 Rough excavation for six-story and basement reinforced concrete Federal Office Building (granite exterior, terra cotta court lining, lead covered copper roofing, terrazzo and promenade tile roofing, mastle tile floors in offices, steam heat).
 Owner—United States Government.

Architect—Arthur Brown, Jr., 251 Kearny Street.

Mechanical Engineer—Leland & Haley
 58 Sutter Street.

Structural Engineer—C. H. Snyder,
 251 Kearny Street.

The N. P. Severin Co., 222 West Adams St., Chicago, at \$2,548,000 submitted lowest bid to the Treasury Department on February 28 and has withdrawn their bid.

SUNNYVALE, Santa Clara Co., Cal.
 —Dinwiddie Constr. Co., Crocker Bldg., San Francisco, awarded the following additional sub-contracts in connection with the balloon hangar and helium pump house at the Naval Operating Base, Sunnyvale:

Excavation—L. C. Smith, Palo Alto.
Structural Steel—Moore Drydock Co., Balfour Bldg., San Francisco.

Reinforcing Steel—W. S. Wetenhall, 17th and Wisconsin Sts., S. F.

Glass—Tyre Bros., 668 Townsend St., San Francisco.

Ornamental Iron — Industrial Ornamental Iron Co., 552 Noe St., San Francisco.

Steel Doors and Steel Windows—Soule Steel Co., 1750 Army St., S. F.

Door Machinery—Baldwin & Butler Berkeley.

Plumbing—James H. Pinkerton, 927 Howard St., San Francisco.

Electric—Roy M. Butcher, 1020 Sherwood St., San Jose.

SAN FRANCISCO—Until June 6, 11 A. M., bids will be received by the Constructing Quartermaster, Ft. Mason, for changing hot water heating system in Headquarters Building No. 220, Presidio. Work involves new steam boiler rating 8,500 sq. ft. and some new radiation. Specifications available from above office upon deposit of \$15.00.

Due to the inadvisability of prospective bidders visiting Headquarters Building and entering the various offices therein at odd times for the purpose of inspecting the existing system and familiarizing themselves with conditions of the job, there will be set aside two dates on which contractors may go through the building with a representative of the C.Q.M. These dates will be 12:00 noon on Saturday, 27, 1933, and 12:00 noon on Saturday, June 3, 1933. At these times they will be given an opportunity to inspect the system and ask such questions as they have.

This restriction does not apply to the boiler room, which may be inspected at any time.

WACO, Texas—Until June 20, 2:30 P. M., bids will be received by Veterans Administration, Arlington Bldg., Washington, D. C., for painting of plaster at the Veterans Administration Facility at Waco, Texas. Plans available from above office.

LA HABRA, Orange Co., Cal.—Corbin Cabinet Lock Company awarded contract by Post Office Department at \$596.25 for lock boxes for the La Habra Post Office.

MARCH FIELD, Riverside Co., Cal.—Until 10:30 A. M., June 14, bids will be received by the Constructing Quartermaster, March Field, for the construction of an officers' mess building at March Field. Plans and specifications may be obtained from the quartermaster on deposit of \$25. Estimated cost \$42,000. The foundation for the structure has been constructed.

8—CLUB BUILDINGS

LONG BEACH, Los Angeles Co., Cal.—R. D. Van Alstine, structural engineer, 440 E. 9th St., Los Beach, has reported to the Ebell Club that their clubhouse, located at the corner of Third and Cerritos Sts., Long Beach, can be rebuilt at a cost of

\$55,000. The auditorium can be constructed of reinforced concrete and the balance of the building of metal lath and plaster. The building committee has been authorized to negotiate for a loan and select a contractor. Mrs. Robert E. Skinner is the president.

SANTA MARIA, Santa Barbara Co., Cal.—Loyal Order of Moose, Wm. Fisher, dictator, Santa Maria, will select a site within a few days for the new lodge building to be erected in Santa Maria.

9—HOSPITALS

Bids Opened.
 HOSPITAL Cost, \$—
 CAMARILLO, Ventura Co., Cal. Lewis Ranch.
 Two 1-story reinforced concrete ward buildings (accommodate 900 patients) each unit to contain 10,800 sq. ft. of floor space.
 Owner—State of California.
 Architect—Geo. B. McDougall, State Architect, Public Works Building, Sacramento.
 Consulting Architect—Harold Burket, 455 E. Main St., Ventura.
 Following is complete list of bids:
General Work
 Louis A. Geisler, 6212 Middleton, Huntington Park.....\$73,995
 Carl N. Swenson, San Jose..... 76,277
 K. E. Parker Co., San Francisco 76,700
 Herbert M. Baruch Corp., L. A. 77,893
 Carl Haverlandt, Long Beach..... 78,260
 F. C. Amoroso & Sons, S. F..... 78,390
 John Strona, China 79,549
 W. L. Snook, Santa Barbara..... 79,800
 Eastern & Nesser, Los Angeles 83,000
 Associated Constructors, L. A. 87,878
 A. H. Vogt, San Francisco..... 88,900
 Weymouth Crowell, Pasadena 89,900
 Willard Lutz, Los Angeles..... 92,000
 J. J. Munnemann, Santa Barbara 92,875

Electrical Work
 H. O. Bauerle, 8952 Ellis Ave., Los Angeles\$2400
 Matson-Seabrooke Co., Oakland 2735
 Seaside Elec. Co., Ventura..... 2750
 H. H. Walker Co., Los Angeles..... 2750
 Cave Electric Co., Santa Ana..... 2830
 Calif. Elec. Co., Los Angeles..... 2836
 Newbery Elec. Co., L. A..... 2878
 E. C. Nickel, Los Angeles..... 2900
 W. B. Baker Co., San Francisco 2938
 Walter H. Smith, Long Beach..... 2985
 Scott-Buttner Co., Oakland..... 2995
 Moore Elec. Co., Los Angeles..... 3096
 Eddy Electric Co., Stockton..... 3150
 Chas. A. Langlais, S. F..... 3185
 Norton & Norton, Los Angeles..... 3286

Plumbing
 F. B. Jones, 521 N. Holliston Ave., Pasadena\$7200
 J. J. McDermott, Sacramento..... 7222
 Scott Company, San Francisco..... 7267
 Ora King, Pasadena 7298
 F. C. Schilling, Los Angeles..... 7348
 Carpenter & Mendenhall, Sacto. 7544
 Jones Heating Co., Pasadena..... 7698
 Jos. C. Black, Stockton..... 7900
 J. A. Fazio, Oakland..... 7936
 F. D. Reed Plumbing Co., Ltd., Los Angeles 7965
 F. W. Snook, San Francisco..... 7980
 Lohman Bros., Los Angeles..... 7998
 Toner & Brooks, Pomona..... 8097
 Hickman Bros., San Pedro..... 8295
 Howe Bros., Los Angeles..... 8516
 Hatley & Hatley, Sacramento..... 8869
 Johnson & Reeves, Glendale..... 8890
 W. H. Smith, Long Beach..... 8990
 O. E. Ross, Compton..... 9605

Heating
 Jones Heating Co., 497 S. Broadway, Pasadena.....\$ 9,575
 J. J. McDermott, Sacramento..... 9,777
 Carpenter & Mendenhall, Sacto. 10,200
 Lohman Bros., Los Angeles..... 10,530
 Jos. C. Black, Stockton..... 10,900
 F. W. Snook, San Francisco..... 11,076
 J. B. Welsh, Alhambra..... 11,100

American Engineers & Constructors, Ltd., Los Angeles..... 11,197
 Hatley & Hatley, Sacramento..... 11,246
 F. D. Reed Plumbing Co., Ltd., Los Angeles 11,416
 J. A. Nelson, San Francisco..... 11,460
 Chas. B. Swank Co., L. A..... 11,555
 W. H. Smith, Long Beach..... 11,587
 Cox & Marquette..... 11,881
 O. E. Ross, Compton 11,967
 Howe Bros., Los Angeles..... 12,202
 Hickman Bros., Los Angeles..... 12,620
 Bids held under advisement.

10—HOTELS

Segregated Bids Being Taken.
 IMPROVE HOTEL Cost, \$30,000
 STOCKTON, San Joaquin Co., Cal. E Weber Street.
 Improvements to hotel (re-decorate entire building, new cooling system, all 30 new shower baths).
 Owner—McDonough Estate, % Baldwin and Howell, 318 Kearny St., San Francisco.
 Plans by Owner.
 Bids are being received by owner for plumbing, electrical work, tile work, etc., from local contractors only. Bids for the ventilating system are now being taken from all contractors.

Carpentry Contract Awarded.
 ALTERATIONS Cost, \$2000
 VALLEJO, Solano Co., Cal. Sonoma and Capitol Streets.
 Remodel swimming pool in hotel for supper club (dance floor, gallery, etc.)
 Owner—Casa de Vallejo Hotel, premises.
 Architect—F. H. Slocombe, 131 Monte Cresta Ave., Oakland.
 Carpentry—Gilman & Olsen, Vallejo.
 Other portions of the work being done by day's labor by owners.

11—ICE AND COLD STORAGE PLANTS

WASHINGTON, D. C.—York Ice Machinery Corp., 1233 N 44th Street, Philadelphia, at \$11,757 submitted low bid to Treasury Department for refrigeration and terminal control equipment at the U. S. Public Health Service Building at Hamilton, Montana. Only other bid was submitted by E. L. Cole, Missoula, Mont., at \$12,310.
 Bids held under advisement.

12—POWER PLANTS

HAYWARD, Alameda Co., Calif.—City council appoints Edward K. Hussey, Hussey & Belcher, Syndicate Bldg., Oakland, to make survey of proposed municipal power plant and distributing system.

LOS ANGELES, Cal.—H. O. Bauerle 8952 Ellis Ave., Los Angeles, submitted low bid to the Metropolitan Water District of Southern California, 286 W Third St., Los Angeles, May 16 at \$9394 for constructing telephone lines in Valverde section. The work consists of construction of 11.5 miles of 6-conductor telephone trunk line, 16.8 miles of 4-conductor telephone line on existing poles and cross arms, 1.5 miles of telephone bracket line and three telephone terminal assemblies. Julian Hinds, acting chief engineer, Bids were taken as follows:
 (1) constructing 11.5 miles of trunk line with 6-conductors;
 (2) erecting on existing poles and cross-arms 16.8 miles of phantom group;
 (3) constructing 1.5 miles of bracket line with 2-conductors;
 (4) installation of three telephone assemblies.

The bids were:
 (A) H. O. Bauerle.....\$ 9,394.00

(B) Newbery Elec. Corp. and Quality Electric Co..... 10,385.67
 (C) Fritz Zeibarth-Osborn... 10,861.00
 (D) H. H. Walker, Inc..... 12,743.80
 Unit bids follow:
 (1) (2) (3) (4)
 (A)\$494.00 \$190.00 \$271.20 \$351.00
 (B) 539.26 208.12 332.59 62.96
 (C) 550.00 220.00 400.00 80.00
 (D) 652.00 271.00 340.00 61.00

SAN DIEGO, Cal.—Until 11 A. M., May 29, bids will be received by the county supervisors to furnish and install steam electric generating plant for county hospital; estimated cost, \$17,500. Specifications are obtainable from County Purchasing Agent, Chas. Christopher, Miss C. Buckley, clerk of the board.

LOS ANGELES, Cal.—Kelman Elec. Mfg. Co., awarded contract by the Metropolitan Water District May 19 at \$10,060 to furnish item (5) two 600 ampere, 24,500 volt oil circuit breakers, and item (6) 28 400 ampere, 7500 volt oil circuit breakers, for the construction power system of the Colorado River aqueduct. The award was made on item 9, which was a combination of items (5) and (6). The unit prices were: (5) \$2000 each, (6) \$250 each. The bids were opened May 8.

LOS ANGELES, Cal.—Listenwalter & Gough, awarded contract by Saul A. Joseph, Purchasing Agent of the Metropolitan Water District, May 23, at \$9277.38, to furnish conductor cable under bid No. 10382.

PASADENA, Los Angeles Co., Cal.—Westinghouse Electric & Mfg. Co. awarded contract by city directors May 23 at \$23,590 to furnish the municipal light and power department three 2000 kva. single phase transformers. The bids were opened April 21.

SAN RAFAEL, Marin Co., Cal.—G. M. Gest, 2423 Magnolia St., Oakland, at \$3471 awarded contract by Signal Officer, Presidio, for telephone cable in connection with the Hamilton Field (Marin Meadows) project.

13—PUBLIC BUILDINGS FIRE HOUSES & JAILS

May 19, 1933

Contract Awarded.
 FIRE HOUSE Cont. Price, \$1111
 HAYWARD, Alameda Co., Cal. Redwood Road.
 One-story frame fire house.
 Owner—Redwood County Fire Protection District.
 Architect—Not Given.
 Contractor—A. Holyoake, East Ave., Hayward.
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Preparing Working Drawings.
 FIRE HOUSE Cost, \$14,000
 SACRAMENTO, Sacramento Co., Cal. L Street near Alhambra Blvd.
 One-story brick firehouse (57x92 ft.); tile and composition roof, concrete floors, etc.
 Owner—City of Sacramento.
 Architect—Charles Dean, California State Life Bldg., Sacramento.
 Bids will be asked in about thirty days.

PASO ROBLES, San Luis Obispo Co., Cal.—City council appoints Edw. K. Hussey, care Hussey & Belcher, Syndicate Bldg., Oakland, as consulting engineer who will determine low bidder and recommend award of contract for furnishing and installing power equipment consisting of Diesel engine, water pumps and electric motor, bids for which were opened April 3. The next meeting will probably be held May 31.

Sub-Contracts Awarded.

ALTERATIONS Cont. Price, \$12,897
SAN FRANCISCO. Municipal Auditorium.

Remodel 3rd and 4th floors of the Municipal Auditorium (house offices of the Board of Education).

Owner—City and County of San Francisco.

Plans by Bureau of Architecture (Charles Sawyer, Architect), City Hall.

Contractor—O. Monson, 475 Sixth St., San Francisco.

Tile Work—Art Tile & Mantel Co., 221 Oak St., San Francisco.

Mill Work—Acme Planing Mill, 1855 San Bruno Ave., San Francisco.

As previously reported, iron awarded Rincon Iron Works, 55 Sterling St., San Francisco.

EL CERRITO, Contra Costa Co., Cal.—James Roark, El Cerrito, at \$100 awarded contract by City Council for painting and tinting walls and ceilings in the City Hall.

Lumber Contract Awarded.

JAIL Cont. Price, \$359,953
SNEATH RANCH, San Mateo County Seven-story men's jail building and 2-story women's jail bldg. (Class B reinforced concrete construction tar and gravel roof, concrete floors, mastic finish in cell block, steel cells, steel sash, steam heat, ventilating system, laundry, kitchen, sewage disposal plant, farm group).

Owner—City and County of San Francisco.

Architect—Albert F. Roller, Crocker First National Bank Building and Dodge Riedy, Pacific Bldg., San Francisco.

Contractor—MacDonald & Kahn, Financial Center Bldg., S. F.

Lumber—Chas. Nelson Lumber Co., 230 California St., San Francisco.

As previously reported, grading awarded to Sibley Grading & Teaming Co., 165 Landers St., S. F.

Other awards will be made shortly.

FOLSOM, Sacramento Co., Calif.—Senate finance committee added \$225,000 to the state budget for a new cell building for Folsom prison. Building will house 400 men.

SAN FRANCISCO—Department of Public Works, rejected all bids for jail equipment in connection with the seven-story men's jail building and two-story women's jail building to be erected at Sneath Ranch, for the City and County of San Francisco. Albert F. Roller and Dodge Riedy, San Francisco, Architects. On bid opening May 5, lowest bid was submitted by C. J. Hillard and Dinuba Steel Products Co. at \$131,874. Complete list of bids published in issue of May 6.

SAN FRANCISCO—Until June 2, 11:30 A. M., bids will be received by Department of Public Works, S. J. Hester, Secretary, City Hall, for alterations to the fourth floor windows on the Polk Street side of the Civic Auditorium. Estimated cost \$2000.

Project Abandoned.

CITY HALL Cost, \$8000
CLOVERDALE, Sonoma Co., Cal.

One-story reinforced concrete city hall (40x46 feet) composition and tile roof, hot water heating system pine floors, etc., to house chief of police, justice court, jail with two cells, council chambers and courtroom, etc.; space for two fire trucks, and one-story reinforced concrete printing plant (18 by 80 feet).

Owner—City of Cloverdale.
Architect—William Herbert, Rosenberg Bldg., Santa Rosa.

Complete list if bids published May 11.

14—RESIDENCES

Sub-Contracts Awarded.

RESIDENCE Cont. Price, \$4676
BURLINGAME, San Mateo Co., Cal.

One and one-half-story and basement frame and stucco residence (five rooms) tile and composition roof, gas heat, canvas walls, tile steps, hardwood floors, cement plaster.

Owner—F. Nichols.

Architect—F. Amandes, 1879 18th Ave., San Francisco.

Contractor—Aetna Construction Co., 166 Miramar St., San Francisco.

Lumber—Sudden Lumber Co., 1601 Highway, Redwood City.

Mill Work—Warden Bros., San Mateo.

Concrete—G. Bragato & Co., San Mateo.

Plumbing—E. C. Cottier, San Mateo.

Electric Wiring—Electric Service Co., San Mateo.

Glass—W. P. Fuller & Co., 301 Mission St., San Francisco.

Hardwood Floors—C. Schultze, San Mateo.

Tile—Benetti Tile Co., San Mateo.

Ornamental Iron—Ace Iron Works, 159 South Park, San Francisco.

Sub-bids are wanted on painting, plastering, roofing and stone work.

Plans being Figured.

RESIDENCE Cost, \$7000
SAN FRANCISCO, North Point St., bet. Buchanan and Webster Sts.

Two-story and basement frame and stucco residence (8 rooms and 2 baths); composition and slate or terra cotta tile roof, gas heating system, tiled baths, ornamental iron, canvas walls, oak floors, etc.

Owner—Withheld.

Architect—F. F. Amandes, 1879 18th Ave., San Francisco.

Plans are being figured by one contractor.

Completing Plans.

RESIDENCE Cost, \$6500
WALNUT CREEK, Contra Costa Co.

One-story frame and stucco residence (8 rooms and 2 baths); asbestos shingle roof, oil burning heating system, hardwood floors, tiled baths, etc.

Owner—Withheld.

Architect—Ray Keefer, 770 Wesley Ave., Oakland.

Bids will be asked in about one week.

Plans Being Figured—Bids Close May 29th.

RESIDENCE Cost, \$—
SAN FRANCISCO, Russia and Prague Streets.

Two-story and basement frame and stucco residence (10 rooms and 1 bath, 3 toilets) Spanish type, tile roof, gas heating system, hardwood floors, etc.; social hall in basement.

Owner—A. Arrighi.

Architect—Italo Zanolini, 604 Montgomery Street.

To Be Done By Days Work.

RESIDENCE Cost, \$12,000
PALO ALTO, Santa Clara Co., Cal.

No. 1280 Hamilton Avenue.

Two-story and basement frame and stucco residence.

Owner and Builder—W. F. Klay, 124 University Ave., Palo Alto.

Architect—Not Given.

Preparing Plans.

RESIDENCE Cost, \$4500
BERKELEY, Alameda Co., Calif.

Shasta Road.

One-story and basement frame and stucco residence (5 rooms) built-up flat roof, gas heating system, hardwood floors, etc.

Owner—Withheld.

Architect—E. L. Snyder, 2102 Shattuck Ave., Berkeley.
Segregated bids will be taken later.

Bids Opened.

RESIDENCE Cost, \$—
REDWOOD CITY, San Mateo Co., Cal.

No. 635 Middlefield Road.

One and one-half-story frame and stucco residence (7 rooms).

Owner—P. E. Brand, 650 Jefferson St., Redwood City.

Private Plans.

Low Bidder—Meese & Briggs, 502 Edgewood Road, Redwood City.

Following bids received:

Meese & Briggs, Redwood City....\$4210

David Holder, Redwood City..... 4259

Emil Stinegger, Redwood City.... 4400

Ingraham & Prickman, Palo Alto..... 4579

Gus Waller, Redwood City..... 4619

Wells P. Goodenough, Palo Alto 4670

Henry A. Hoyt, Palo Alto..... 4846

Duncan & Dalton, Redwood City 5241

Story & Taylor, Redwood City.... 5412

Frank Marshall, Redwood City.... 6004

Owner will furnish all plumbing, heating and sheet metal work.

Lumber Contract Awarded.
RESIDENCE Cont. Price, \$13,078
BAYWOOD, San Mateo Co., Cal.

Two-story and basement frame and stucco residence (9 rooms and 3 baths) tile roof, gas hot air heating system, hardwood floors, tiled baths, electric refrigeration, etc.

Owner—E. S. Hudson.

Architect—Chester Treichel, 1540 San Pablo Ave., Oakland.

Contractor—A. F. Mattock, 212 Clara St., San Francisco.

Lumber—Wisnom Lumber Co., 1000 Broadway, Burlingame.

Contract Awarded.
RESIDENCE Cost, \$3000
SAN FRANCISCO, N Tingley 261 W Mission Street.

One-story and basement frame and stucco residence.

Owner—K. Mangano, 81 Theresa St., San Francisco.

Architect—Not Given.

Contractor—J. Ragni, 443 Bellevue Ave., San Francisco.

Contract Awarded.
RESIDENCE Cost, \$—
SAN FRANCISCO, No. 520 Hudson Avenue.

One-story and basement frame and stucco residence.

Owner—Mrs. A. Edstrend, 520 Hudson Ave., San Francisco.

Architect—Not Given.

Contractor—G. B. De Lucchi, 4 Sharp Place, San Francisco.

Contract Awarded.
RESIDENCE Cost, \$4000
BURLINGAME, San Mateo Co., Cal.

Cabrillo Street.

One-story and basement frame and stucco residence.

Owner—D. H. Haeger, 1212 Cabrillo St., Burlingame.

Architect—Not Given.

Contractor—Gordon Hess, 1446 Burlingame Ave., Burlingame.

Contract Awarded.
RESIDENCE Cont. Price, \$4676
BURLINGAME, San Mateo Co., Cal.

One and one-half-story and basement frame and stucco residence (five rooms) tile and composition roof, gas heat, canvas walls, tile steps, hardwood floors, cement plaster.

Owner—F. Nichols.

Architect—F. Amandes, 1879 18th Ave., San Francisco.

Contractor—Aetna Construction Co., 166 Miramar St., San Francisco.

Contract Awarded.
RESIDENCE Cont. Price, \$3685
HAYWARD, Alameda Co., Cal. Niles Road.

One and one-half-story frame and stucco residence (six rooms); tile roof, gas heating system, hardwood floors, tiled bath, electric refrigerations, etc.
Owner—L. F. Gottburg.
Architect—George P. Shmmond, 261 Main St., Hayward.
Contractor—H. S. Shaln, 54 Arlette Ave., Hayward.

Contract Awarded.
RESIDENCE Cost, \$6000
BERKELEY, Alameda Co., Cal. Grizzly Park Blvd.

One-story and basement frame and stucco residence (6 rooms) shingle roof, gas heating system, plastered exterior, colored tile baths, hardwood floors, etc.
Owner—Edwin Delius.
Architect—William Rich, Orinda.
Contractor—Geo. Windsor, 928 Kingstontown Ave., Piedmont.

Contract Awarded.
RESIDENCE Cost, \$—
BERKELEY, Alameda Co., Cal. Arlington and Wellesley.

Two-story and basement frame and stucco residence (6 rooms and 2 baths) shingle roof, gas furnace, hardwood floors, pine panelling, steel sash, tiled baths, wood walls etc.)
Owner—Withheld.
Architect—E. L. Snyder, 2102 Shattuck Ave., Berkeley.
Contractor—F. W. Confer, 5730 Keith, Berkeley.

Contract Awarded.
ADDITION Cost, \$—
BERKELEY, Alameda Co., Cal. 1325 Arch Street.

Addition to frame residence (add 3 rooms and bath, electric wiring, plumbing, etc.)
Owner—A. L. Kroeber, Premises.
Plans by Owner.
Contractor—R. H. Williams, 2524 Telegraph Ave., Oakland.
Bids are being received on electric wiring.

Sub-Bids Being Taken.
RESIDENCE Cost, \$7000
REDWOOD CITY, San Mateo Co., Cal. King St. and Whipple Ave.

Two-story frame and stucco residence (6 rooms and 2 baths); tile and composition roof, gas hot air heating system, canvas walls, oak flooring, hardwood trim, electric refrigeration, etc.
Owner—Rev. Norman W. Pendleton.
Architect—Hugh Kirk, Millbrae Highlands.
Contractor—Schultz Constr. Co., 1 Hillcrest Blvd., Millbrae Highlands.

Sub-bids are being taken on plumbing, electrical work, plastering, roofing, etc.

Sub-Contracts Awarded.
RESIDENCE Cost, \$7000
PALO ALTO, Santa Clara Co., Cal.

Two-story frame and stucco residence (7 rooms).
Owner—F. Hapgood, Palo Alto.
Architect—Birge M. Clark, 310 University Ave., Palo Alto.
Contractor—Wells P. Goodenough, 310 University Ave., Palo Alto.
Masonry—Tanner Tile Co., 2286 El Camino Real, Palo Alto.
Hardwood Floors—H. E. Jensen, 776 Forest, Palo Alto.
Sheet Metal—Stanford Sheet Metal Works, 921 Alma, Palo Alto.
Mill Work—Shopke & Burke.
Plumbing—Lee & Sharp.
Shower Doors—Lee & Sharp.

Heating—Stanford Sheet Metal W'ks, Palo Alto.

Lumber—Merner Lumber Co., Palo Alto.

Ornamental Iron—H. Blubber.

Steel Sash—Michel & Pfeffer Iron Works, Harrison and 10th Streets San Francisco.

Ornamental Tile—Art Tile & Mantel Co., Belmont.

Glass—Acme Glass Co., Palo Alto.

Plastering—J. Daley.

Wiring—Erskine Electric Co., Redwood City.

Painting—Thos. & Stangl, Palo Alto.

Contract Awarded.
ALTERATIONS Cost, \$2500
PIEDMONT, Alameda Co., Cal. No. 47 Belleview Avenue.

Alterations and additions to frame residence.
Owner—A. L. Ammen.
Architect—Newsom Bros., Russ Bldg., San Francisco.
Contractor—F. C. Stolte, 3449 Laguna St., Oakland.

Contract Awarded.
ALTERATIONS Cost, \$—
SAN FRANCISCO. 230 Rodeo St.

Alterations to frame residence.
Owner—Mrs. J. Smith, 403 Fair Oaks.
Architect—Not Given.
Contractor—L. R. Anderson, 253 States Street.

Sub-Contracts Awarded.
RESIDENCE Cost, \$7000
OAKLAND, Alameda Co., Cal. No. 6007-90-11 Shafter Avenue.

One-story frame and stucco residence (9 rooms) three-family dwelling.
Owner—Leon H. Woolsey, 6001 Broadway, Oakland.
Plans by John Geering, 975 Hillcroft Circle, Oakland.
Contractor—Didline & McKibben, 350 63rd St., Oakland.

Excavation and Cement Work—Echnoor Bros., Oakland.

Lumber—Sunset Lumber Co., 400 High St., Oakland.

Mill Work—Oakland Planing Mill, 2nd and Washington Sts., Oakland.

Plastering—Herman Thorndyke, 2450 E-21st St., Oakland.

Plumbing—L. J. Kruse, 6247 College Ave., Oakland.

Wiring—Kerr & Clifford, 3525 E-14th St., Oakland.

Steel, Sash and Glass—East Bay Glass Co., 621 6th St., Oakland.

Brick Work—Chas. Hummer, 2221 34th Ave., Oakland.

Sheet Metal and Heating—Fred Granholt, 1449 Portland Ave., Oakland

Preparing Plans.
RESIDENCE Cost, \$4850
HIGHLAND PARK, Marin Co., Cal.

Two-story frame and stucco residence (7 rooms and 2 baths).
Owner—Not Given.
Architect—Oscar R. Thayer, Monadnock Bldg., San Francisco.

Bids will be asked about May 29 on a general contract basis.

Sub-Bids Being Taken.
RESIDENCE Cost, \$—
BERKELEY, Alameda Co., Cal. Corona Court.

Two-story frame and stucco residence (6 rooms); shingle roof, gas heating system, electric refrigeration, oak flooring, etc.
Owner and Builder—J. W. Brazier, 607 37th St., Oakland.
Architect—John Hudson Thomas, 31 Norwood Ave., Berkeley.

Plans Being Figured.
RESIDENCE Cost, \$4800
NORTH BERKELEY, Alameda Co., Cal. Hildale.

Two-story frame residence (6 rooms and 2 baths); wood exterior.

shingle roof, gas heating system, hardwood floors, etc.

Owner—Withheld.

Architect—E. L. Snyder, 2102 Shattuck Ave., Berkeley.

Bids are being received by J. M. Walker, 1709 Grove Street, Berkeley; Clark Abbott, Berkeley and F. W. Confer, 5730 Keith Ave., Berkeley.

Contract Awarded.
RESIDENCE Cont. Price, \$11,050
PIEDMONT, Alameda Co., Cal. St. James Wood.

Two-story and basement frame and stucco residence (9 rooms and 3 baths); hot air heating system, slate roof, steel sash, hardwood floors, tiled baths, etc.
Owner—A. M. Meijnck.
Architect—W. E. Schurmer, Financial Center Bldg., Oakland.
Contractor—Jensen & Pederson, 3443 Adeline St., Oakland.

Contract Awarded.
RESIDENCE Cost, \$—
SAN FRANCISCO. W Thirty-fifth Ave. 25 S Santiago Street.

One-story and basement frame and stucco residence.
Owner—Mr. Clement, 1017 Irving St., San Francisco.
Plans by F. Johnson.
Contractor—F. Johnson, 329 Lowell St., San Francisco.

Plans Being Figured.
ALTERATIONS Cost, \$—
SAN FRANCISCO. Spruce Street.

Alterations to residence.
Owner—Mr. Chalmers.
Architect—Henry H. Gutterson, 526 Powell St., San Francisco.

Contract Awarded.
RESIDENCE Cost, \$6000
SAN FRANCISCO. S Beach 232 E Webster St.

Two-story and basement frame and stucco residence.
Owner—P. Dohrmann, 2524 Union St., San Francisco.
Architect—A. B. Talbot, 3060 Pacific Ave., San Francisco.
Contractor—H. E. Gray, 1646 North Point St., San Francisco.

Contract Awarded.
REPAIRS Cost, \$10,000
SAN FRANCISCO. NW Twenty-first and Florida Sts.

Repair fire damage to residence.
Owner—T. J. Griffin, 21st St. near Hampshire St., San Francisco.
Architect—Not Given.
Contractor—T. G. Broderick, 1528 Cypress St., Burlingame.

15—SCHOOLS

SAN RAFAEL, Marin Co., Cal.—Until June 1, 8 P. M., bids will be received by Oliver R. Hartzell, Secretary, Board of Education, San Rafael, for school supplies, woodwork supplies, athletic supplies, commercial supplies and equipment, fuel, furniture and equipment for the San Rafael Elementary Schools and the San Rafael High School. Specifications on file with the Secretary, San Rafael High School Building, San Rafael.

HOLLISTER, San Benito Co., Cal.—Until June 5, 8 P. M., bids will be received by James P. Davis, clerk, San Benito County High School District, Hollister, for finishing the offices of the present Second Unit of the High School Building in Hollister. Work includes mill work, plastering, rough lumber, cement floor, electric wiring and painting. Specifications may be seen at the office of the clerk of the board.

Plans Completed.

HIGH SCHOOL Cost, \$25,000
ALBANY, Alameda Co., Calif. Ramona and Garfield Streets.
Two - story and basement reinforced concrete high school (8 classrooms 1st unit) to be known as Herbert Hoover High School.
Owner—City of Albany.
Architect—P. L. Dragon and C. R. Schmidts, 3016 Telegraph Ave., Berkeley.

Plans are being forwarded to the State Department of Architecture today for approval. Upon approval bids will be asked.

Plans To Be Prepared.

REPAIRS Cost, \$2500
SAN FRANCISCO. McAllister St. bet. Broderick and Baker.
Repair fire damage to school.
Owner—City and County of San Francisco.
Plans by Bureau of Architecture, City Hall.

To Ask Bids In About Ten Days.

SCHOOL Cost, \$20,000
LOS MOLINAS, Tehama Co., Cal.
One - story frame and stucco high school (7 classrooms and shop) main building (60x200 feet) shop 36x100 ft.) composition roof, hot air heating system, pine floors, blackboards, etc.
Owner—Corning High School District.
Architect—W. E. Coffman, Forum Bldg., Sacramento.

SAN FRANCISCO.—H. L. Peterson, 731 Treat Ave., at \$3,459 (item 1) and \$2,665 (item 2) submitted low bid to Department of Public Works for laying wood floors in the Redding School, Pine and Larkin Sts. Following bids received:

(1) new finished floor;
(2) Plywood, to be covered with linoleum later.

H. L. Peterson.....	(1)	\$3,459
.....	(2)	2,665
Jacks & Irvine.....	(1)	3,768
.....	(2)	3,280
H. H. Larsen Co.....	(1)	3,973
.....	(2)	2,762
Peter Sartorio.....	(1)	4,049
.....	(2)	3,128
O. Monson.....	(1)	4,261
.....	(2)	3,162
Ernest Icardi.....	(1)	4,415
.....	(2)	3,528
J. Harold Johnson.....	(1)	4,464
.....	(2)	3,470
F. C. Amorso & Sons.....	(1)	5,396
.....	(2)	4,800

Bids held under advisement.

SAN FRANCISCO.—Jacks & Irvine, 74 New Montgomery Street, at \$2,732 (item 1) and H. H. Larsen Co., 64 South Park at \$2,041 (item 2) submitted low bid to Department of Public Works for laying wood floors in the Washington Irving School, Broadway and Sansome Streets. Following bids received:

(1) new finished floor;
(2) plywood to be covered with linoleum later.

Jacks and Irvine.....	(1)	\$2,732
.....	(2)	2,410
H. H. Larsen Company.....	(1)	2,783
.....	(2)	2,041
H. L. Petersen.....	(1)	2,905
.....	(2)	2,342
M. E. Vukicevich.....	(1)	2,939
.....	(2)	2,847
F. C. Amorso & Sons.....	(1)	2,965
.....	(2)	2,665
J. Harold Johnson.....	(1)	3,061
.....	(2)	2,462
O. Monson.....	(1)	3,130
.....	(2)	2,430
Peter Sartorio.....	(1)	3,324
.....	(2)	2,576
Ernest Icardi.....	(1)	3,312
.....	(2)	2,805

Bids held under advisement.

16—BANKS, STORES AND OFFICES

Plans Being Prepared.
STORE Cost, \$—
SAN FRANCISCO. No. 1041 Market Street.
Seven-story Class C steel and concrete store.
Owner—Weinstein Co. (Isidor Weinstein, President), 1041 Market St.
Architect — Hyman & Appleton, 68 Post St., San Francisco.

Bids will be asked in about fifteen days.

Preparing Plans.
DRUG STORE Cost, \$—
VISALIA, Tulare Co., Cal.
One-story brick drug store (20x80 ft.)
Owner—Cross & Lillie, Visalia.
Architect—By Owner.
Lessee—Antone Justesen, Fresno.

SAN FRANCISCO—Until June 3, 3 P. M., bids will be received by Felton Taylor, Secretary, Public Utilities Commission, City Hall, for additions and alterations to the Administration Building at the San Francisco Airport. Specifications available from Room 609, Water Department.

Plans Being Figured--Bids Close May 26, 12 Noon.

REMODEL Cost, \$—
SAN FRANCISCO. Fourth and Market Streets.
Remodel building for store.
Owner—Pacific Building.
Architect—Not Given.
Lessee—Chas. Brown & Sons, 871 Market St., San Francisco.

Bids are being received by Mr. L. H. Marks, Chas. Brown & Sons, from a selected list of contractors.

Construction To Start Immediately.
STORE Cost, \$10,000
SAN MATEO, San Mateo Co., Cal. S Third Ave. W Ellsworth Ave.
One-story reinforced concrete store (30x65) English type.
Owner and Builder—Alfred H. Vogt, 250 11th St., San Francisco.
Architect—E. L. Norberg, 407 Occidental Ave., Burlingame.

Planned.
REMODELING Cost, \$—
STOCKTON, San Joaquin Co., Calif. North El Dorado, Hunter & Flora Streets.

Remodel fireproof building for market (grocery, butcher shop, drug store, fountain, barber shop, beauty parlor, cleaning establishment, etc.)
Owner—George F. Gilgert, 205 West Vine St., Stockton.
Architect—Not Given.

Additional Sub Contracts Awarded.
ADDITION Cost, \$65,000
SAN FRANCISCO. Bush and Larkin Streets.

Two-story structural steel and reinforced concrete addition to telephone building (Class A construction).

Owner—Pacific Telephone & Telegraph Co., 140 New Montgomery Street.

Plans by Engr. Dept. of Owner (E. V. Cobby, engineer).
Contractor—Dinwiddie Const. Co., Crocker Bldg., S. F.

Masonry—Wm. Rainey & Sons, 323 Clementina St.

Marble—Jos. Musto Sons Keenan Co., 535 North Point St.

Tile—Malott & Peterson, 20th & Harrison Sts.

Orn. Iron—Frauneder Ornamental Iron Works, 335 8th St., Oakland.
As previously reported, Granite was

awarded to Victor Wickman, Rocklin, Cal.; Lathing and Plastering to Wm. Makin, 2141 Livingston St., Oakland; Sheet Metal to Guilfoy Cornice Wks., 1234 Howard St.; Roofing to Alta Roofing Co., 976 Indiana St.; Windows to Fire Protection Prod. Co., 1101 16th St.; Glass to W. P. Fuller, 301 Mission St.; Rolling Shutters to O. P. Shelley, Call Building; Painting to D. Zelinsky, 165 Grove St.; electric to Radelfinger Bros., 544 Natoma St., reinforcing steel to Truscon Steel Co., Call Bldg.; hardware to Palace Hardware Co., 581 Market St.

Sub Contracts Awarded
STORE Cost, \$100,000
BERKELEY, Alameda Co., Cal. No. 2830 Shattuck Avenue.

Two-story brick and concrete store (brick and terra cotta facing, composition roof, structural steel, cement, hardwood and terrazzo floors, plate glass, metal fire doors ornamental iron, gas heating, etc)
Owner—S. H. Kress Co., 114 5th Ave. New York City.

Plans by Engineering Dept. of Owner Contractor—Dinwiddie Construction Co., Crocker Bldg., San Francisco.

Terra Cotta—Gladding McBean, 660 Market St., San Francisco.

Marble—Vermont Marble Co., 525 Market St., San Francisco.

Plumbing & Heating—James H. Pinkerton, 927 Howard St., S. F.

Incinerator—Price Building Specialties Co., 683 Howard St., S. F.
As previously reported, Excavation awarded to Ariss-Knapp Co., 961 41st St., Oakland; Structural Steel, Judson Pacific Co., Foot of Park Ave., Oakland.

Sub-Contracts Awarded.
STORE Cost, \$3338
MONTEREY, Monterey Co., Cal.
One-story reinforced concrete store.
Owner—Lulu R. Bussey, Pacific Grove
Architect—A. McBain, 85 Second St., San Francisco.

Contractor—Harold C. Geyer, 945 Heliam St., Monterey.

Lumber and Mill Work—Tynan Lumber Co., Monterey.

Reinforcing Steel—Pacific Coast Steel Corp., 20th and Illinois Sts., San Francisco.

Steel Sash—Detroit Steel Products Co., 111 Sutter St., San Francisco.

Plumbing and Sheet Metal—Phillips Heating & Plumbing Co., Monterey.

Glass—Thomas H. French, Monterey.

Roofing—Tynan Lumber Co., Monterey

Tile—Tynan Lumber Co., Monterey.

Wiring—W. H. McConnell, Inc., Monterey.

Painting—Chas. W. Allaire, Monterey.

Plastering—Patterson & Turner, Monterey.

Plans Being Prepared.
RECONSTRUCT WHARF.

Cost, Approx. \$25,000
OAKLAND, Alameda Co., Cal. Pier No. 1, Waterfront.
Reconstruct easterly apron of wharf.
Owner—Howard Terminal, First and Market Sts., Oakland.
Architect—Reed & Corlett, Bank of America Bldg., Oakland.

SAN DIEGO, Cal.—Architect Richard S. Requa, Bank of America Bldg., San Diego, has inspected the buildings in Balboa Park, San Diego, and reports that the structures, with the exception of the San Joaquin building, are in sufficiently good condition to warrant rehabilitation. Estimated cost of the work is \$70,000. Mr. Requa's report was made to members of a special Chamber of Commerce Committee, members of the Park Board. Planning Commission and other San Diego civic groups.

COOLIDGE, Ariz.—M. L. Durham, Coolidge, is preparing plans for a two-story store and apartment building he will erect at Main St. and Roosevelt Ave., Coolidge, for himself. It will be a brick and hollow tile structure.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$5000
SAN FRANCISCO. No. 1738-1748 Fillmore Street.

Alterations to first floor for market (new show windows, tile work, carpentry, painting, terrazzo flooring, refrigeration, cabinets, ice boxes, etc.)

Owner—H. M. Labataille, 2013 Broderick St., San Francisco.

Architect—Resing & McGuinness, 483 Pine St., San Francisco.

Plumbing—Spencer Plumbing Co., San Francisco.

Electric—P. & J. Electric Co., 3143 Turk St., San Francisco.

Other work is being done by day's labor under the supervision of the owner.

COOLIDGE, Ariz.—R. J. Jones, Coolidge, is having plans prepared for a 1-story commercial building he will erect at Central Ave. and Main St., Coolidge.

Contract Awarded.
STORE Cost, \$6800

SANTA CLARA, Santa Clara Co., Cal. Santa Cruz near Howell Reservoir One-story frame and stucco store.

Owner—Joseph E. Hancock.

Architect—Binder & Curtis, 35 W. San Carlos St., San Jose.

Contractor—Charles A. Thomas, 127 Clayton Ave., San Jose.

Lessee—M. Hancock, 532 S-Ninth St., San Jose.

Work Started.
ALTERATIONS Cost, \$—
SAN FRANCISCO. Fifth and Mission Streets.

Alterations to store for cafe (partition work, fixtures, etc.)

Owner—Pickwick Hotel, Premises.

Architect—O'Brien Bros. and W. D. Peugh, 333 Montgomery St., San Francisco.

Carpentry—Willis Gott, Premises.

18—WHARVES & DOCKS

Sub-Contracts Awarded.
EXTENSION Cont. Price, \$16,190
SAN FRANCISCO.

Extension of wharf shed for Dock No. 2 (150x92 feet) steel frame, 5 rolling doors, copper beaming, monitor sash, copper gutters, outside walls of reinforced concrete.

Owner—United States Government.

Plans by Constructing Quartermaster, Fort Mason, San Francisco.

Contractor—Leo Epp, 4745 Geary St., San Francisco.

Roofing—Malott & Peterson, 20th and Harrison Sts., San Francisco.

Structural Steel—Golden Gate Iron Works, 1541 Howard St., S. F.

Glass—W. P. Fuller & Co., 301 Mission St., San Francisco.

Electric—Grande Electric Co., 3373 Sacramento St., San Francisco.

Steel Rolling Doors—C. J. Waterhouse, Sharon Bldg., S. F.

To Ask Bids
EXTENSION Cost, \$78,000

OAKLAND, Alameda Co., Cal. Foot of Fourteenth Street.

Extension of Outer Harbor Wharf (329 ft. long, 60 ft. wide).

Owner—City of Oakland Port Commission (G. B. Hegardt, Secretary) Grove St., Pier, Oakland.

Plans by Engineering Dept. of Owner

Sixteen feet will be of pile and timber construction and forty-four feet will be reinforced flat slab construction on concrete piles.

EUREKA, Humboldt Co., Cal.—All bids rejected by U. S. Lighthouse Supt., Capt. H. W. Rhodes, to construct bulkhead in Humboldt Bay for fog signal station, and a rock revetment will be constructed in its place by the U. S. Engineer forces, omitting wooden bulkhead. Complete bids received follow:

F. J. Maurer, Eureka.....\$3100
 Mercer-Fraser Co., Eureka..... 3383
 H. Padgett, Fields Landing..... 3500

LOS ANGELES, Cal.—Harbor Commission has authorized proposed improvements of public landing facilities at Fifth St., San Pedro, subject to the conclusion of satisfactory agreement with the Southern Pacific Co. for use of necessary wharf and landing area in that vicinity and has appropriated \$69,580 for the work. Improvements will include a landing structure, 450 feet long, open-sided shelters, parking facilities and piling. Plans will be prepared by the harbor department's engineer at San Pedro.

SAN FRANCISCO—Until May 31, 11 A. M. (postponed from May 29) bids will be received by the District Public Works Officer, Twelfth Naval District, 100 Harrison St., San Francisco, for repairs to Key Route Wharf end of water line, U. S. Receiving Ship, Yerba Buena Island, including replacing of approximately 600 feet of 5 inch pipe, together with a supporting structure of creosote treated piles and a five-inch protecting dolphins. Specification No. 7316. Plans and specifications available from above office upon deposit of \$5.

19—MISC. CONSTRUCTION

ALAMEDA, Alameda Co., Calif.—U. S. Bureau of Public Roads, San Francisco, recommends rejection of all bids received to furnish fencing material for construction of 2050 lin. ft. chain link boundary fence at Government Island, Alameda. Project involves:

- (1) chain link fabric, lump sum
- (2) barbed wire, lump sum
- (3) posts, rails, etc.

Bidders follow:

- (A) Stuart Iron Works, Cincinnati.
- (B) Standard Fence Co., Oakland.
- (C) Anchor Post Fence Co., S. F.
- (D) Pittsburgh Steel Co., S. F.
- (E) California Wire Cloth Co., Oakland.
- (F) Engineers, Estimate.

Unit bids follow:

	(1)	(2)	(3)
(A)	\$1480	\$69.00	\$1555
(B)	1500	26.00	1800
(C)	1800	25.00	1800
(D)	1925	23.50	1850
(E)	2000	24.00	2600
(F)	1680	20.00	1520

ALAMEDA, Alameda Co., Calif.—Stuart Iron Works, Cincinnati, Ohio, submitted low bid and recommended for award by U. S. Bureau of Public Roads, San Francisco, at \$3808 to furnish and install 2050 lin. ft. chain link boundary fence at Government Island, Alameda. Bids on this portion of the work were taken on (a) furnishing and installing fencing, and (b) installing only.

Complete bids follow:
 Stuart Iron Works (a) \$3808 (b) \$.....
 Standard Fence Co., Oakland, (a) \$3925 (b) \$1138.
 Barnes Bros. Iron Works, Oakland, (a) \$4090 (b) \$790.
 Anchor Post Fence Co., San Francisco, (a) \$4200 (b) \$1242.
 Michel & Pfeffer, San Francisco, (a) \$4500 (b) \$1250.
 Engineer's estimate, (a) \$4120 (b) \$900.

Contract Re-Awarded.
TOWER&PENT HOUSE Cost, \$11,000
BERKELEY, Alameda Co., Cal. Sixth and Carlton Streets.
 Steel frame and galvanized iron pent house & steel soap blowing tower. Owner—Colgate Palmolive Peet Co., Sixth and Carlton Sts., Berkeley. Plans by Engineering Dept. of Owner. Contractor—Moore Drydock Co., Foot of Adeline St., Oakland.

Petaluma, Sonoma Co., Cal.—City of Petaluma Park Commission has rejected all bids for constructing tennis courts in Wickersham Park in Petaluma. On bid opening lowest bid was submitted by the Petaluma Construction Company, at \$1340.35 for asphaltic surfacing and \$1430.75 for concrete surfacing. New bids will be asked at a later date.

SAN FRANCISCO—Until May 31, bids will be received by the Signal Corps Officer, Presidio, for the erection of a 105-foot antennae at the Presidio, San Francisco.

SEATTLE, Wash.—The Converse Co., Inc., Seattle, at \$20,950 awarded contract by City of Seattle Port Commission for sprinkler alarm and control systems for the Bell Street Terminal.

SALT LAKE CITY, Utah.—Hadden Company, Alhambra, at \$5,317 submitted low bid to Supervising Superintendent of Construction, Veterans' Administration, Palo Alto, for furnishing and installing lawn sprinkling system at the Veterans' Administration, Salt Lake City. Following bids received:

Hadden Co., Alhambra.....	\$5,317
Muna-Stralawn, Detroit.....	5,500
Peterson Bros., Inglewood.....	5,931
Brooks of Calif., San Francisco	6,195
P. L. Burr, San Francisco.....	6,932
Christensen and Gardner, Salt Lake City	6,947
A. H. Walsh, Salt Lake City.....	7,250
Calif. Lawn Sprinkler Co., Los Angeles	7,435
Carl Pieper, Salt Lake City.....	7,605
K. & K. Pllg. & Heat. Co., Salt Lake City	8,650

Bids held under advisement.

SAN FRANCISCO—All bids rejected and project temporarily abandoned by U. S. Coast Guard, Custom House, San Francisco, to construct extension to launchway at Pt. Bonita. Low bid submitted by M. B. McGowan 74 New Montgomery St., at \$9,279. Complete bids published April 15.

MT. SHASTA, Siskiyou Co., Cal.—M. G. Still, Mt. Shasta, at \$1200 has been awarded contract by Superintendent U. S. Lighthouses for the construction of a frame tank shed for waterproofing tanks at Mt. Shasta.

Planned.
MOTORCYCLE TRACK Cost, \$—
SAN FRANCISCO. Site not selected. Motorcycle speedway (1/5 mile track, 30 ft. wide).
 Owner—Group of San Francisco business men (Wm. Bennett) 16 Laguna Street.
 Architect—Not Given.

Three sites are under consideration, one in the Potrero District, one in the Mission District and one in the old Ocean Shore cutoff.

SAN FRANCISCO—Trask & Squires, 390 Natoma St., at \$239 submitted low bid to Purchasing Department, State Harbor Board, for toilet partitions for Pier No. 35. Following bids received:
 Trask & Squires.....\$239
 Dwan & Company..... 286
 Forrester Cornice Works..... 287
 Bids held under advisement.

SAN RAFAEL. Marin Co., Cal.—City Improvement Company, 2626 Harrison St., Oakland, at \$1434 awarded contract by Ninth Corps Area, Presidio, San Francisco, for the installation of radio towers and buried counterpoise at Hamilton Field (Marin Meadows) Bombing Base, San Rafael. Following bids received:
 City Improvement Co., Oakland, \$1434
 Barnes Bros. Iron Wks., Oakland 1486
 E. Anderson, San Francisco, 1750
 Aristo Painting Co., S. F., 1868

ALAMEDA. Alameda Co., Cal.—E. T. Lesure, 87 Ross Circle, Oakland, at \$1474 submitted low bid to and recommended for award of contract by U. S. Bureau of Public Roads, San Francisco, to construct a part of Unit 9, Ornamental Entrance Gateway on the U. S. 15-acre tract, Government Island, Alameda. Complete bids follows:

E. T. Lesure, Oakland	\$1474
Barnes Bros. Iron Works, Oakland	1432
C. Frauneder, Oakland	1965
Anchor Post Fence Co., S. F.	2080
Michel & Pfeffer, S. F.	2135
Star Orn. Iron Works, S. F.	2308
Standard Fence Co., Oakland	2400
Calif. Artistic Metal & Wire Co., San Francisco	2694
Engineer's estimate	3000

SAN DIEGO. Cal.—Garrett Plumbing Co., 3333 Pacific Ave., San Pedro, submitted low bids to the 11th Naval District at San Diego on May 19 for improvements of steam condensate return lines at the Naval Operating Base, San Diego; Spec. No. 7272. Recommendation was made that the contract be awarded the low bidder on proposal No. 2 (copper tubing) at \$8,635. The work will include the provision of materials for and the construction of a new steam condensate return system consisting in general of a combined length of approximately 3500 feet to replace a present cast iron condensate return pipe; (b) new manholes, anchors, expansion joints and miscellaneous work as required for the completion of the system. The bids follow:

Garrett Plumbing Co., (1) wrought iron pipe, \$9235; (2) copper tubing, \$8635.
J. A. Fazio (1) \$10,052; (2) \$9522.
M. H. Golden, (1) \$10,331; (2) \$9527.
A. O. Reed & Co., (1) \$10,339; (2) \$9217.
Harry Barkeley and L. M. Uhler (1) \$10,395; (2) \$9925.
H. H. Peterson, (1) \$10,471; (2) \$9,509.50.
Lohman Bros., (1) \$10,800; (2) \$9846.
J. B. Howell, (1) \$10,900; (2) \$9400.
Associated Piping & Engr. Co., (1) \$11,591; (2) \$11,991.

May 24, 1933

Plans Being Completed.
REPAIRS Cost, \$15,000
SAN FRANCISCO. Golden Gate Park Repairs to conservatory (repair floors, etc.)
 Owner—City and County of San Francisco (Park Commission), Golden Gate Park.
 Architect—Fred H. Meyer, 525 Market St., San Francisco.
 Bids will be asked in about two weeks.

OAKLAND. Cal.—Bids are being received by the Concrete Products Sales Co., 1522 Latham Square Bldg., Oakland, for seven wooden barges, approximately 24x110 with an approximate capacity of 600 tons. Alternate bids will be received for plain barges and for barges equipped with conveying machinery and hoppers for the storage of sand and gravel, etc. Specifications available after May 24 from the above office.

Lumber Bids Being Taken.
DOG TRACK Cost, \$150,000
BAYSHORE. San Mateo Co., Cal. Dog racing track.
 Owner—Bayshore Kennel Club (Thos. Keene, J. Foppiano, et al), Belmont.
 Plans by Thomas Keene, Belmont. Mgr. of Constr.—Thomas Keene.
 Bids are being received by Mr. Keene. Track will be completed in about 50 days.

20—MISC. SUPPLIES AND MATERIALS

LOS ANGELES. Cal.—John A. Roebing's Sons Co. awarded contract by the Metropolitan Water District May 19, at \$30,450 to furnish 50,000 ft. No. 00 metallic armored, 3-conductor, rubber insulated cable. The bids were opened May 8.

YREKA. Siskiyou Co., Cal.—F. D. Douthill, Supervisor of Klamath National Forest, Redding, awarded the contract to the Algoma Lumber Co., Montague, to furnish lumber for the construction of the C. C. camps at Spring Flat and Happy Camp and a contract to the Fruit Growers' Supply Company to furnish lumber for the construction of the Hilt Camp.

BOULDER CANYON. Nev.—Bids for furnishing 400,000 bbls. Portland cement for use at Boulder Dam. Specifications No. 591-D, were opened by the U. S. Bureau of Reclamation Denver, Colo., May 17. Bids were taken as follows:

(1) Low heat cement;
(2) Intermediate;
(3) Regular cement.
The bids were;
Joint bid:
Riverside Cement Co., f.o.b. Crestmore.
California Portland Cement Co., f.o.b., Colton.
Southwestern Portland Cement Co., f.o.b., Victorville.
Monolith Portland Cement Co., f.o.b. Monolith, per bbl. \$1.55; \$1.42; \$1.30.
Calaveras Cement Co., f.o.b., Kentucky House, Calif., \$1.65; \$1.65; \$1.60.
*Union Portland Cement Co., f.o.b. Devils Slide, Utah and Salt Lake City, Utah, \$1.34; \$1.34; \$1.25.
*Offers 50,000 barrels under items 1 and 2 and 100,000 barrels under item 3. No award has been made at this

SAN FRANCISCO.—Columbia Steel Co., Russ Bldg., at \$3344 awarded contract by U. S. Forest Service, Ferry Bldg., to furnish:
 (1) eight 1½-in. galv. steel bridge strands, minimum breaking strength 160,000 pounds, equipped with bridge socket, \$972.20 f.o.b. San Francisco, \$1024 del.
 (2) eight 1½-in. minimum breaking strength 270,000 lbs., \$2220.80 f.o.b. San Francisco, \$2320 del.
 Other bids follow:
 John A. Roebing's Sons Co., \$3440.00
 Hazard Wire Rope Co., 3678.40
 Mallory Logging Equip., Portland 4851.36

BERKELEY. Alameda Co., Calif.—Following bids received by the City Council to furnish sand delivered as ordered to the Corporation Yard, Allston Way and West Street, Berkeley, during the fiscal year commencing July 1, 1933.
 (1) fine sand, per ton;
 (2) Medium, 1-M;
 (3) Medium, 4-M;
 (4) Medium, M.T.
 Chas. S. Hughes, (1) \$1.30; (2) \$1.75 (3) \$1.75; (4) \$1.35.
 Contra Costa Building Materials Co. (1) \$1.30; (2) \$1.75; (3) \$1.75; (4) \$1.35.

Transit Concrete Co., Ltd., (2) \$1.75 (3) \$1.75; (4) \$1.35.
 T. G. Foster, (3) \$1.60; (4) \$1.60.
 California Rock & Gravel Co., (4) \$1.25.
 Bids held under advisement.

SAN FRANCISCO.—Following bids received by U. S. Bureau of Public Roads to furnish fuel oil, f.o.b. manufacturers' plant:
 (1) 90,000 gals. 60-70 fuel oil;

(2) 66,000 gals. 60-70 fuel oil;
 (3) 25,000 gals. 50-60 fuel oil.
 Bids submitted by:
 (A) Union Oil Co. (f.o.b. Bakersfield);
 (B) Gilmore Oil Co. (do);
 (C) Shell Oil Co. (do);
 (D) Standard Oil Co. (do);
 (E) Associated Oil Co. (f.o.b. Avon).

Unit bids follow:

	(1)	(2)	(3)
(A)	\$3.70	\$3.70	\$6.60
(B)	.70	.70	.60
(C)	.70	.70	.65
(D)	.70	.70	.65
(E)	.99	.99	.55*

*F.o.b. Oil City.
 Bids held under advisement.
BERKELEY. Cal.—Until June 6, 10 A. M., bids will be received by Florence E. Turner, City Clerk, for:
 (1) 1300 bbls. fuel oil;
 (2) 100 tons asphalt.

BERKELEY. Alameda Co., Calif.—Identical bids were submitted by the following at \$2.45 per cloth sack for furnishing cement delivered as ordered to the Corporation Yard, Allston Way and West Street, Berkeley, during the fiscal year commencing July 1, 1933:
 Rhodes & Jamieson, Oakland.
 Chas. S. Hughes, Oakland.
 Contra Costa Building Materials Co., Oakland.
 Henry Cowell Lime and Cement Co. San Francisco.
 Transit Concrete Co., Oakland, bid \$2.45 per bbl. and \$2.25 for paper sack.
 Bids held under advisement.

OAKLAND. Cal.—Until May 29, 5 P. M., bids will be received by Oakland Board of Park Directors, Walter S. Chandler, Secretary, to furnish:
 (1) 500 yds. loam;
 (2) 5000 yds. fill;
 (3) 1000 yds. manure.
 To be delivered within a radius of 5 mi. of Lake Merritt during the fiscal year ending June 30, 1934. Certified check 10% required with bid.

WESTERN YARDS—Bids for furnishing lubricating oil for the Navy Department, Western Yards, Schedule No. 9935, were opened by the Bureau of Supplies and Accounts, Navy Department, May 5. The bids were:
 Richfield Oil Co., Los Angeles, \$10,875, omitting item 24b.
 Tide Water Oil Sales Corp., New York, \$10,810, omitting item 24b.

PLACERVILLE. El Dorado Co., Cal.—Until June 10, bids will be received by Forest Supervisor, Placerville, for all the live timber marked for cutting and all merchantable dead timber on about 120 acres, approx. 2,200,000 ft. b.m., ponderosa pine, sugar pine, white fir and incense cedar timber. No bid of less than \$2 per M ft. for ponderosa pine, \$2.75 per M. ft. for sugar pine, \$.50 per M ft. for white fir, \$.50 per M ft. for incense cedar will be considered; \$350 deposit required with bid. Further specifications obtainable from above.
SAN FRANCISCO.—Until May 27, 10 A. M., under Circular No. 928-33-246 Misc., bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish paint varnish, etc. Specifications obtainable from above office.

ENGINEERING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

- | | |
|-------------------------------------|-------------------------------------|
| 21.—Bridges | 30.—Reservoirs and Dams |
| 22.—Dredging, Harbor Werks, Excava. | 31.—Pipe Lines and Wells |
| 23.—Irrigation Proj. | 32.—Sewers & Sewage Disposal Plants |
| 24.—St. Light. Systems | 33.—Water Works |
| 25.—Machinery and Equipment | 34.—Parks & Play-grounds |
| 26.—Railroads | 35.—Tunnels |
| 27.—Fire Alarm Sys. | |
| 28.—Fire Equipment | |
| 29.—Streets & Highways | |

21—BRIDGES

SAN FRANCISCO — Joe Gerrick & Co., 74 New Montgomery St., awarded sub-contract by Barrett & Hilp to furnish steel I-bars and chains in connection with the anchorages contract for the Golden Gate Bridge. Amount of contract was \$34,000 on the San Francisco side and \$27,000 on the Marin side.

LOS ANGELES, Calif.—The state railroad commission has rendered its decision in the Tunnel Station Bridge case, directing that the City of Los Angeles pay the entire cost of the proposed construction, estimated by R. W. Stewart, Chief Engineer of Bridges, at \$35,000. The proposed structure will be built on San Fernando Road at Tunnel Station, and will be a reinforced concrete girder type bridge, 300 ft. in length with a 40-ft. roadway and one 5-ft. walk. The work will consist of building two wedge-shaped structures to widen the present structure and to realign the roadway. The work will involve: 116,420 lbs. reinf. steel; 843 cu. yds. Class F concrete; 368 ft. concrete hand rail; 250 cu. yds. grading; 59 ft. special curb; 590 sq. ft. walk; 390 tons asphalt concrete paving; 610 sq. ft. D. G. roadway; 185 ft. bridge curbs; 60 ft. heavy curbs; 57 ft. curb armor; 82 sq. ft. gutter; 28 highway markers; 15 reinf. concrete protection posts; 2 bullseye reflectors; 5 concrete light standards; 300 ft. 2-in. electric conduit; remodel existing bridge.

VANCOUVER, B. C.—Until May 31, 12 M., bids will be received by Monsarrat & Pratley, 909 Drummond Bldg. Montreal, Engineers, to construct the superstructure of the Second Narrows bridge, involving the fabrication and erection of a 282-ft. through truss and span and towers, including all equipment. Specifications obtainable necessary mechanical and electrical from above on deposit of \$100.

EUREKA, Humboldt Co., Cal.—Until June 13, 2 P. M., bids will be received by Fred M. Kay, County Clerk, to clean and paint the Redwood Creek bridge at Bair's and the Trinity River bridge near Willow Creek in Road District No. 5. Specifications obtainable from Frank Kelly, County Surveyor. Certified check 5% required with bid.

PIERCE AND LEWIS CO., Wash.—Until June 7, 10 A. M., bids will be received by W. H. Lynch, District Engineer, U. S. Bureau of Public Roads, 316 New Post Office Bldg., Portland, to construct the Nisqually Glacier Bridge Reconstruction, West Entrance Paradise Inn Road, Pro. E-1A, Mt. Rainier National Park, involving:

- 1,500 cu. yds. struc. excav.;
- 30 cu. yds. class A concrete;
- 210 cu. yds. class B do;
- 420 cu. yds. class D do;
- 59,000 lbs. reing. steel;
- 80 cu. yds. masonry;
- 525 sq. yds. waterproofing;
- remove existing bridge and maintain traffic, lump sum;
- plumbing, lump sum;
- and other items.

Specifications obtainable from above office on deposit of \$10, check payable to Federal Reserve Bank, Portland.

22—DREDGING, HARBOR WORKS, EXCAVATION

PORTLAND, Ore.—Until June 2, 3 P. M., under Bid No. 33-353, bids will be received by U. S. Engineer Office, 321 Customhouse, Portland, to drydock, clean and paint and repair U. S. Dredge "Clatsop." Specifications obtainable from above office.

MARTINEZ, Contra Costa Co., Cal.—Associated Oil Co. applies to War Dept. for permit to dredge channel in Pacheco Creek 7-ft. deep at low water and 10-ft. wide for the purpose of procuring adequate water supply for condensing purposes at the Avon refinery. The proposed dredging would extend 4000 ft. south from the Southern Pacific drawbridge.

PORTLAND, Oregon — Guthrie McDougall Co., Portland, at \$24,150 awarded contract by U. S. Engineer Office to restore The Dalles-Celilo Canal to project dimensions.

STOCKTON, San Joaquin Co., Cal.—C. A. Lounritzen, Antioch, at \$455 awarded contract by U. S. Engineer Office, Sacramento, to remove a sunken barge from the east bank of the San Joaquin river just upstream from the Borden Highway Bridge, and about 1 mi. west of Stockton.

23—IRRIGATION PROJ.

REDLANDS, San Bernardino Co., Cal.—Horace Hinckley, engineer, has completed his preliminary plans for the extension of the Santa Ana river conservation grounds about one mile east of Orange St. The work will involve a network of ditches and ca-

nals, 2 ft. deep and 10 ft. to 15 ft. wide. The plans will be forwarded to the government for approval.

OREGON STATE.—Oregon Irrigation and Drainage districts will seek \$5,000,000 loan from Reconstruction Finance Corp., \$4,000,000 of which will be used to refinance local irrigation projects, the remainder to be used for the drainage districts. The Oregon state engineer will present data to the R. F. C.

24—ST. LIGHT. SYSTEMS

SAN DIEGO, Cal.—Moore Electric Co., 321 W. Third St., Los Angeles, submitted low bid to the Public Works Department, Eleventh Naval District, San Diego, May 16, at \$25,284 for improvements to the electrical system, West Beach Hangars, Naval Operating Base (Air Station,) San Diego; Specification No. 7223. The work consists of the following:

- (a) the relocation of existing flood-light, transformers, controller, etc.;
- (b) the removal of certain lighting panels and cabinets and cables;
- (c) the furnishing and installing of eight double and three single manholes, of conduits between new and existing manholes and to new floodlight location, of 2300-volt and 600-volt light and power cables, telephone cables and fire alarm and contractor cables, of distributing transformers and oil fuse cutouts and fuse boxes and miscellaneous equipment;
- (d) the furnishing and installing in five existing hangars, power and lighting panels and cabinets, main switches, power outlets and conduit and wiring.

The bids were:

	(a)	(b)	(c)	(d)
Moore Elec...	\$21,296	\$5196.00	\$896	\$896
J. E. Peterson	22,130	4965.87	769	770
Capital Elec.	22,489	5182.00	1384	955
Miracle Co.....	22,908	4639.00	750	600
Beacon Elec.	22,914	5436.00	1090	985
H. O. Bauerle	24,738	5100.00	990	650

25—MACHINERY AND EQUIPMENT

OAKLAND, Cal.—Until June 1, 9 P. M., bids will be received by W. W. Chappell, City Clerk, for eight automobiles:

- (1) 7 6- or 8-cylinder sedans;
 - (2) 1 6- or 8-cylinder coupe.
- Cost not to exceed \$725 each.

OAKLAND, Cal.—Until June 1, 9 P. M., bids will be received by W. W. Chappell, City Clerk, for four gasoline operated cranes. Specifications as follows:

- Type A: 12 ft. radius, 5800 lbs.; 25 ft. radius, 1300 lbs.
 - Type B: 12 ft. radius, 8000 lbs.; 25 ft. radius, 3000 lbs.
- Normal working weight not to exceed 22,000 lbs.

OAKLAND, Cal.—Until June 1, 9 P. M., bids will be received by W. W. Chappell, city clerk, for three motor trucks with steel dump bodies.

LOS ANGELES, Cal.—General Elec. Co. awarded contract by Metropolitan Water District May 19, at \$27,296 (based on alternate bid), to furnish ventilating equipment for the Coachella Tunnels under Specifications No. 27. The bids were opened May 2.

CAPITAL CITY TITLE COMPANY

J. C. PALEN,
Manager

914 Seventh Street
Sacramento :: California

SAN FRANCISCO.—San Jose Tractor & Equipment Co. at \$997.50 awarded contract to Purchasing Officer, 12th Naval District, 100 Harrison St., to furnish a scraper under Bid No. 4200.

DENVER, Colo.—Until June 13, 2 P. M., under Spec. No. 593-D, bids will be received by Chief Engineer, U. S. Bureau of Reclamation, Denver, to furnish:

- (1) bronze guides and guide anchor rods;
- (2) upper bulkhead gate stop plates;
- (3) trash rack beam and seat plates with anchor rods;
- (4) 1 only structural steel maintenance platform;
- (5) stem guide and gate hanger anchors.

OAKLAND, Cal.—Smith Rice Co., Pier 14, San Francisco, at \$1595 were awarded contract by City of Oakland Port Commission to move garbage loaders and miscellaneous equipment from the foot of 14th St. Outer Harbor Terminal to the new wharf, foot of Adeline St., Oakland. Only other bid submitted by Haviside Co. at \$1,675.

LOS ANGELES, Cal.—Until 11 A. M., June 2, bids will be received by A. J. Holm, City Purchasing Agent, 107 City Hall, to furnish electric meters under Specifications No 3092 for the department of water and power. The items are:

- (1) 10 wattmeters, synchronous drive, portable type, Easterline utility; model A.W.;
- (2) 2 wattmeters, spring wound 8-day clock, portable type, Easterline utility; model A.W.;
- (3) 1 wattmeter, portable graphic, Easterline, type L.R. spring wound 8-day clock.

PASADENA, Cal.—All bids for furnishing two duplicate conveyors for the incinerator at the municipal light plant rejected by city directors May 23. B. F. DeLanty, superintendent, recommended that the contract be awarded to the Jeffrey Mfg. Co. which was not the low bidder. The board authorized the superintendent to revise the specifications. The bids were opened May 15.

All bids for arch settings for Stirling boilers, opened May 20, were also rejected and the superintendent authorized to revise the specifications. The engineer's recommendation was that the contract be awarded to the Calmo Engr. Co.

28—FIRE EQUIPMENT

OAKLAND, Cal.—Until June 1, 9 P. M., bids will be received by W. W. Chappell, City Clerk, for 10,000 feet of fire hose of 2- and 3/4-in. in 50-ft. lengths.

OAKLAND, Cal.—Until June 1, 9 P. M., bids will be received by W. W. Chappell, City Clerk, for chemical fire extinguisher. Will have two 60-gallon tanks and one 40-gallon tank.

LIVERMORE, Alameda Co., Cal.—City council authorizes Fire Chief L. E. Wright to take bids for 400-ft. fire hose. Furnish specifications with bid.

30—RESERVOIRS & DAMS

SAN DIEGO, Calif.—D. C. Henny, hydraulic engineer, Portland, Oregon, has been retained by the San Diego city council to make a survey of the El Capitan Dam situation. He will be paid \$100 per day and expenses. His investigation will cover the cost of the day and certain angles of the dispute between the contractors and

H. N. Savage, city hydraulic engineer. Mr. Savage has indicated that he will not ask for a renewal of his contract which expires in July.

D. C. Henny is a consulting engineer on the Boulder Dam and a member of the engineering advisory board of the Reconstruction Finance Corp.

LOS ANGELES, Cal.—E. C. Eaton, County Flood Control Engineer, has completed his estimates of quantities for the construction of the Eaton Wash Debris Dam and appurtenant structures. The plans, which have been approved by the state engineer, call for a rolled earth fill dam, 1545 ft. in length, 37 ft. in height, 40.5 ft. from foundations to spillway crest. The upstream side will be faced with concrete.

The cost is estimated at \$441,376.

Bids will be called probably within the next three weeks. Bids will be taken on three proposals, viz: (1) All work complete, (2) Earth work, and (3) Concrete and miscellaneous work. The quantities follow:

PROPOSAL NO. 1

All Work Complete

- (1) 10.5 acres clearing and grubbing damsite;
- (2) 40,000 cu. yds. stripping damsite;
- (3) 9.0 acres preparing foundation for dam;
- (4) 164,000 cu. yds. excav. (struc.);
- (5) 3100 cu. yds. excav. (cut-off trenches);
- (6) 167,000 cu. yds. excavation borrow pit No. 1;
- (7) 196,000 cu. yds. excav. borrow pit No. 2;
- (8) 147,000 cu. yds. embankment, impressions (Class A);
- (9) 265,000 cu. yds. embankment, impressions, (Class B);
- (10) 1450 cu. yds. backfill, tamped (Class A);
- (11) 8850 cu. yds. backfill, untamped (Class B);
- (12) 930 cu. yds. concrete cut-off walls (Class A);
- (13) 3540 cu. yds. concr. floor slabs (Class B);
- (14) 250,000 sq. ft. gunite facing slab; Alt. to 14 (14-A) 3980 cu. yds. concrete facing slab (Class C);
- (15) 2640 cu. yds. concrete retaining wall (Class D);
- (16) 2125 cu. yds. concr. outlet conduit (Class E);
- (17) 1450 cu. yds. concr. spillway ogee (Class E);
- (18) 1,250,000 lbs. placing relnf. steel;
- (19) 200,000 lbs. placing gates, holsts, stems, etc.;
- (20) 44,000 lbs. placing trash racks;
- (21) 8000 lbs. placing miscellaneous metal;
- (22) 1000 lbs. placing metal handrail;
- (23) 200 lin. ft. placing tile drains;
- (24) 100 lin. ft. drilling dowel holes.

PROPOSAL NO. 2

Earthwork Only

- (1) 10.5 acres clearing and grubbing;
- (2) 40,000 cu. yds. stripping damsite;
- (3) 9.0 acres preparig foundation for dam;
- (4) 156,000 cu. yds. excav. for struc. (Class A);
- (5) 3100 cu. yds. excav. (cut-off trenches) (Class B);
- (6) 167,000 cu. yds. excavation borrow pit No. 1 (Class C);
- (7) 196 000 cu. yds. excavation borrow pit No. 2, (Class D);
- (8) 147,000 cu. yds. embankment impervious, (Class A);
- (9) 265,000 cu. yds. embankment, impervious, (Class B);
- (10) 1450 cu. yds. backfill, tamped (Class A);
- (11) 8850 cu. yds. backfill untamped, (Class B);

PROPOSAL NO. 3

Concrete and Miscellaneous Work

- (4) 8000 cu. yds. excavation for structures, (Class A);

- (4-A) 5000 cu. yds. excavation final trim upstream (Class E);
- (12) 930 cu. yds. concrete cutoff walls (Class A);
- (13) 3540 cu. yds. concrete floor slabs, (Class B);
- (14) 250,000 sq. ft. gunite facing slab; Alt. to 14 (14-A) 3980 cu. yds. concrete facing slab (Class C);
- (15) 2640 cu. yds. concrete retaining walls, etc., (Class D);
- (16) 2125 cu. yds. concrete outlet conduit (Class E);
- (17) 1450 cu. yds. concrete spillway, ogee, etc., (Class F);
- (18) 1,250,000 lbs. placing reinforcing steel;
- (19) 200,000 lbs. placing gates, holsts, stems, etc.;
- (20) 44,000 lbs. placing trash racks;
- (21) 8000 lbs. placing miscellaneous metal;
- (22) 1000 lbs. placing hand rail;
- (23) 200 lin. ft. placing tile drains;
- (24) 100 lin. ft. drilling dowel holes.

ALTADENA, Los Angeles Co., Cal.—Until June 1 bids will be received by the Las Flores Water Co., at the office of the engineers, Allin Bros., 303 Kendall Bldg., Pasadena, for constructing a circular-shaped reinforced concrete reservoir, 80 ft. in diameter, 13 1/2 ft. in depth, at 560 Poppy St., Altadena. The reservoir will have a wooden roof.

Contractors who have procured plans and who have been invited to submit figures are:

Theisen Co., 525 Stonehurst Drive, Altadena.

J. L. Ackland, 818 S Kingsley Drive, Los Angeles.

V. R. Bush, 826 S Ivy Ave., Monrovia.

H. G. Klusman, Cucamonga.

Wm. T. Loesch & Son, 119 E Union Ave., Pasadena.

Mathews & Murray, 136 Bonnie Ave. Pasadena.

J. B. McIntosh, 1842 Gardena St., Glendale.

Ryan A. Grut, 1007 S Grand Ave., Los Angeles.

Robt. E. Millsap, 1012 Pacific National Bldg., Los Angeles.

J. K. Doolan, Security Bldg., Pasadena.

Anton Johnson Co., 921 Monterey Road, South Pasadena.

J. & B. Const. Co., 5572 Valley Blvd. Los Angeles.

E. A. Nelson, 380 N Madison Ave., Pasadena.

H. A. Teget, 133 Princeton Street, Ontario.

L. A. Cline, 1013 N Sycamore Ave., Los Angeles.

Wm. P. Neil Co., 8414 Loma Vista Ave., Los Angeles.

31—PIPE LINES & WELLS

MOUNTAIN VIEW, Santa Clara Co., Cal.—Pomona Pump Co. at \$949.01 submitted low bid to city council to furnish and install one deep well turbine pumping plant. Complete bids follow:

Pomona Pump Co.....	\$ 949.01
John Bean Mfg. Co.....	1048.00
Fairbanks-Morse Pump Co.....	1121.75
Scott Mach. Co. (Johnston).....	1387.00
Layne-Bowler Pump Co.....	1464.00

Bids held under advisement for one week. 21

SAN FRANCISCO.—Until June 6, 3 P. M., bids will be received by Public Utilities Commission, Felton Taylor, secretary, Room 225, City Hall, to lay 30-in. steel plate pipe lines for San Francisco Water Dept., involving:

- (1) 3060 ft. excavation and backfill of trench;
- (2) 100 cu. yds. additional do;
- (3) 650 sq. ft. add. pave. remove and replace, bitumen on concrete;

- (4) 140 lin. ft. add. field welding, joints;
- (5) 132 tons install pipe and fittings;
- (6) 11,780 sq. ft. repave, bitumen on concrete;
- (7) 3060 lin. ft. fabricate pipe from 3/16-in. steel plate.

Estimated cost, \$22,400. Specifications obtainable from S. F. Water Department, Room 605, 425 Mason St. Certified check 10% payable to City and County of San Francisco required with bid.

32—SEWERS & SEWAGE DISPOSAL PLANTS

BURLINGAME, San Mateo Co., Cal.—City council tentatively approves plan for constructing sewers and drainage of flood waters from Burlingame Hills to California Drive; estimated cost, \$14,000, of which \$8000, to be appropriated by the city, would be used for materials and \$6000 from unemployment relief funds, would be used for labor.

Materials will be purchased by F. A. Bloom, City Purchasing Agent, as follows:

- 500 cu. yds. reinf. concrete;
- 15,000 bricks;
- 10 tons steel;
- 800 ft. 20-in. pipe (vit. or conc.);
- 1100 ft. 6-in. vit. sewer pipe;
- 180 ft. 48-in. corr. iron pipe;
- fittings for 8 catchbasins;
- 4 manholes.

SEATTLE, Wash.—The King Co. commissioners have appointed a committee to prepare plans for a sewage disposal plant to free Lake Washington from pollution. The \$10,000,000 public works bond issue is now before the state supreme court for approval. The commissioners expect to get R. F. C. funds to aid the project. The members of the committee include: Thomas D. Hunt, county engineer; E. French Case, Sanitation Engineer; Dr. C. L. Dixon, county health officer.

PALO ALTO, Santa Clara Co., Cal.—Weeden & Co., 315 Montgomery St., San Francisco, purchased the \$90,000 sewer bonds at 4 1/2% interest, \$1067 premium, to construct proposed sewage system. Plans are being prepared and bids will be called probably within a month.

LOS ANGELES, Cal.—E. C. Eaton, county flood control engineer, has submitted completed plans and specifications to board of supervisors for approval to construct gunite and concrete lined conduit on Verdugo Wash from Canada Blvd., 2625 ft. upstream. The work involves:

- 8,100 cu. yds. excavation;
- 5,100 cu. yds. backfill;
- 230 cu. yds. reinforced concrete;
- 110,000 sq. ft. gunite floor slab;
- 65,000 sq. ft. gunite facing slab;
- 160 lin. ft. fencing on channel walls;
- 25 lin. ft. drilling dowel holes;

A call for bids will probably be issued for next week.

LOS ANGELES, Cal.—Until 2 P. M., June 5, bids will be received by County Supervisors to construct gunite and concrete lined conduit on Verdugo Wash from Canada Blvd., 2625 ft. upstream. The work involves

- 8,100 cu. yds. excavation;
- 5,100 cu. yds. backfill;
- 230 cu. yds. reinforced concrete;
- 110,000 sq. ft. gunite facing slab;
- 65,000 sq. ft. gunite facing slab;
- 160 lin. ft. fencing on channel walls
- 25 in. ft. drilling dowel holes.

E. C. Eaton, 202 N. Broadway, County Flood Control Engineer. Mame B. Beatty, 501 Hall of Records, Clerk of the Board.

LOS ANGELES, Calif.—Until 10 A. M., June 7, bids will be received by board of public works to construct sewers in Colfax Ave. bet. Magnolia Ave. and 1320 ft. south of Moorpark Ave., under the 1911 act. The work involves:

- 207 ft. 6-in. house connection sewer, including 39 6-in. 1/4 bends;
- 23 ft. 8-in. extra strength pipe;
- 324.94 ft. 12-in. stand. strength pipe, including 11 12x6-in. wyes;
- 1838.75 ft. 12-in. extra strength pipe, including 74 12x6-in. wyes;
- 4163.98 ft. 15-in. extra strength pipe, including 130 15x6-in. wyes;
- 220.27 ft. 15-in. stand. strength pipe, including 14 15x6-in. wyes;
- 8 manholes "B";
- 7 junction chambers "F";
- 2 drop manholes "S";
- 1 junction chamber "G";
- 1 trap manhole;
- 3 structures to be remodeled;
- 38 ft. tunnel for 15-in. pipe.

Average depth of structures, 12.3 ft.

Bids will be taken as follows:

- Type I—6570.94 ft. vit. sewer;
- 207 ft. vit. house sewers;
- Type II—20.27 ft. vit. sewers;
- 6550.67 ft. centrif. conc. or cement pipe;
- 207 ft. concrete house sewers.

OAKLAND, Cal.—As previously reported, until June 13, 10:30 A. M., bids will be received by Geo. E. Gross, County Clerk, to construct a reinforced concrete box culvert on the Valle Vista Road, Eden Township, involving:

- (1) 260 cu. yds. struc. excav.;
- (2) 275 cu. yds. concrete in struc.;
- (3) 44,000 lbs. reinf. steel;
- (4) remove existing bridge, lump sum.

Estimated cost, \$6500. Plans obtainable from County Clerk on deposit of \$25. Geo. Wilhelm, County Surveyor.

SAN FRANCISCO—Chas. L. Harney 74 New Montgomery St., at \$4653.60 awarded contract by Department of Public Works, to construct a sewer in Blanken St., consisting of a wood box sewer.

33—WATER WORKS

May 19, 1933

BIDS WANTED

SONOMA, Sonoma Co., Cal.—Until June 7, 8 P. M., bids will be received by H. W. Gottenberg, city clerk, to furnish pipe and construct reservoir in connection with municipal water system for which \$33,000 worth of bonds have recently been sold. This portion of the project involves the complete water main, service lines and construction of a 400,000-gal. reinforced concrete reservoir with roof. Quantities will be published in an early issue. Edward K. Hussey, Hussey & Belcher, Syndicate Bldg., Oakland, prepared the plans. 33

MADERA, Los Angeles Co., Cal.—Until 8 P. M., June 19, bids will be received by city council to furnish a pump with a 140 brake-hp. Diesel engine for city water pumping plant. The bidder must submit a bid on both the Diesel engine and a 1500-GPM. deep well belt driven turbine pump. The cost of the complete equipment is not to exceed \$16,000. The bid call is the result of an offer by Fairbanks Morse & Co. to install such a plant and accept payment out of savings effected. E. K. Hussey, 719 Syndicate Bldg., Oakland, consulting engineer. Jas. Wakefield, city clerk.

SAN FRANCISCO—Standard Oil Co. at \$18 per ton submitted low bid May 19 under Bid No. 1002 to City Purchasing Agent to furnish approximately 304 tons of 30-inch cast iron

b&s pipe, involving 152 pieces, 12-ft. lengths, Class B. Complete bids follow:

- Standard Oil Co. \$18.00
- U. S. Pipe & Foundry 38.00
- National C. I. Pipe Co. 40.00

SAN JOSE, Santa Clara Co., Cal.—City council abandons project to incorporate in the June 27 election a proposition as to whether city will purchase San Jose Water Works.

SAN FRANCISCO—Joshua Hendy Iron Works, 200 Pine St., at \$6650 submitted low bid under Bid No. 1000 to T. A. Brooks, city purchasing agent, to furnish two 60-in. butterfly valves for Hetch Hetchy Project. Only other bid submitted by Pelton Water Wheel Co. at \$6916. Allis-Chalmers Mfg. Co. and Reading, Pratt & Kaney also invited to bid, but were unable to do so.

LOS ANGELES, Cal.—Wm. Davidson, chief county mechanical engineer, Hall of Records, has completed preliminary plans for a water well and pumping plant in Lancaster Water Works District No. 4. The site for this project was purchased by the supervisors last January. The cost is estimated at \$7500.

POMONA, Los Angeles Co., Cal.—Bids are wanted immediately by the office of the City Manager for furnishing 5700 ft. of 12-in. I. D. welded steel pipe. Specifications may be obtained from F. C. Froehde, city engineer. The welding may be let under a separate contract but the trenching and laying will be done by unemployment relief forces.

SAN FRANCISCO—Until June 2, 3 P. M., under Bid No. 1010, bids will be received by T. A. Brooks, City Purchasing Agent, 270 City Hall, to furnish lawn boxes and hydrants for Park and Recreation Departments for one year, July 1, 1933, to June 30, 1934. Specifications obtainable from above.

SAN FRANCISCO—Until June 5, 3 P. M., bids will be received by T. A. Brooks, City Purchasing Agent, 270 City Hall, under Bid No. 1011, to furnish one 30-in. double disk gate valve for Hetch Hetchy Project. Specifications obtainable from above office.

35—TUNNELS

PLANNED

LOS ANGELES, Calif.—An appropriation of \$900,000 toward the cost of constructing the New Figueroa St. Tunnel No. 4 and the improvement of Solano St. to Second St., was made by the County Supervisors May 22. The item will be included in the 1933-34 budget. Figueroa St. Tunnel No. 4 will be approximately 755 ft. in length, 46 ft. 6-in. wide, with a 40-ft. roadway and a 5-ft. walk and 1 1/2-in. wheel guard, and will be driven thru the ridge of hills between Bishop's Road and Solano St., the latter street being the present south portal of the recently completed series of three tunnels connecting Dayton Ave. with Solano St. and thence to North Broadway. The distance between the completed tunnel measured from the Solano St. entrance and the north entrance to the proposed tunnel will be approximately 800 ft. Extension and widening of Figueroa St. bet. College Ave. and the south entrance to the proposed tunnel is under way. The tunnel work is estimated to cost \$500,000, all of which will be paid in cash. R. W. Stewart, 657 City Hall, Engineer of Bridges and Viaducts.

29—STREETS AND HIGHWAYS

AMADOR, Alpine and El Dorado Counties, Cal.—Peninsula Paving Co., Standard Oil Bldg., San Francisco, at \$20,388 awarded contract by the State Highway Commission, Sacramento, to treat with oil and cutback asphalt as a dust palliative 73.8 miles of existing roadbed between Dew Drop Inn and Picketts Junction, between Picketts Junction and Alpine Junction, and between Picketts Junction and Hangman's Bridge, near Markleeville.

SPOKANE, Wash.—Until June 1st, 9:30 A. M., bids will be received by city council to pave a 20-ft. strip on Boone Ave. from Division to Monroe St. Specifications obtainable from A. D. Butler, city engineer. Estimated cost, \$21,280. Certified check \$2060 required with bid.

CHEHALIS, Wash.—Lewis county commissioners will call bids this week to construct Boistfort-Winlock highway from Winlock to Curtis, 5 miles, a farm-to-market project; estimated cost, \$50,000.

SEATTLE, Wash.—Until June 6, 10 A. M., bids will be received by Board of Public Works, G. W. Roberge, Secretary, to improve Railroad Ave. from Madison to Bay Sts., including construction of a concrete sea wall.

Approximate quantities involved on previous call for bids were:
245,000 cu. ft. embankment;
3,561 tons steel sheet piling;
585,000 lin. ft. timber piling;
3,290 M. ft. b.m. lumber;
1,754 tons reinf. steel;
15,090 cu. yds. concrete;
47,475 sq. yds. 9-in. conc. paving;
3,740 lin. ft. water mains;
6,200 lin. ft. pipe sewer.

Estimated cost, \$1,200,000. Certified check 5% required with bid. Specifications obtainable from above on deposit of \$25.

A group of local bankers has agreed to take \$600,000 worth of improvement bonds to finance the work. On the previous bid call, no bids were received as stipulation was made that successful bidder must take bonds in part payment of the work.

LOS ANGELES, Cal.—Oswald Bros. 366 E 58th St., awarded contract by county supervisors May 22 at \$49,-451.82 to improve Pomona Blvd. west of El Monte from Ellis Lane east to the Rio Hondo and along Baldwin Ave. from Pomona Blvd. south to Ramona Blvd. and along Ramona Blvd. from Baldwin Ave. west to Eaton Wash, 7500 lin. ft. or 1.42 miles, under Cash Contract No. 455.

The bids were opened May 15.

ROCKWELL FIELD, Cal.—George Gardner, 445 E Cypress Avenue, Redlands, awarded contract by Constructing Quartermaster, Rockwell Field, Coronado, at \$37,400, or 11c sq. yd., for grading and oiling the landing field, involving about 340,000 sq. yds. The oil will be laid 3 gals. to the sq. yd., requiring approximately 1,020,600 gallons. The bids were opened May 17.

ALAMEDA, Cal.—Approximate quantities for the grading and placing of rock underfill and extension to drainage system at Benton Field, for which bids are to be opened by the Constructing Quartermaster, Benton Field, at 10 A. M., June 15 (previously noted), are:

Grading (based on amount of underfill):

104,300 cu. yds. underfill, truck measurement, disintegrated rock or

quarry waste, to finish 6-in. above subgrade elevation as shown on plans. Brick manholes with reinf. concr. bottom slabs, complete;

Miscellaneous length of vitrified and concrete pipe, in 30-in., 21-in., 18-in., 15-in., 12-in. and 10-in. sizes.

LOS ANGELES, Calif.—Until 10 A. M., June 14, bids will be received by board of public works to improve the first alley west of Hope St. between the alley south of 7th St. and 8th St., under the 1911 Act. The quantities are:

- (1) grading (190 cu. yds. cut, 20 cu. yds. fill);
- (2) 7916 sq. ft. 7-in. conc. paving;
- (3) 60 sq. ft. 8-in. asph. conc. paving
- (4) 240 sq. ft. 3-in. asph. conc. wearing surface;
- (5) 39 ft. light unplastered curb;
- (6) 158 sq. ft. 1-course walk;
- (7) concrete retaining wall.

Remove: 2130 sq. ft. concrete paving, 240 sq. ft. wearing surface, 60 sq. ft. gutter, 1100 sq. ft. walk, 40 ft. curb, 115 cu. ft. brick wall, 190 cu. ft. concrete wall.

Engineer's estimate, \$2188.33.

LOS ANGELES, Cal.—Southern California Roads Co., 2235 E 25th Street, awarded contract by board of public works, May 22, at \$51,472.88 to improve Santa Barbara Ave. and other streets in the Santa Barbara Avenue and Crenshaw Blvd. Imp. Dist., under cash contract.

The bids were opened April 26.

STOCKTON, San Joaquin Co., Cal.—Until June 12, 11 A. M., bids will be received by Eugene D. Graham, County Clerk, to improve Davis and Telegraph roads, from the Five Mile house on the Davis road and from the north end of Wagner heights road over the first drainage canal on the Telegraph road, involving:

- (1) 900 cu. yds. grading;
- (2) 1230 tons gravel;
- (3) 80 bbls. fuel oil;
- (4) 3350 tons top course, asphaltic concrete, plant mix.

Estimated cost, \$11,000. Certified check 10% required with bid. County Surveyor, Julius B. Manthey.

LOS ANGELES, Cal.—Hall-Johnson Co., 905 Westminister, Alhambra, were awarded contract by county supervisors May 22 at \$5525 or \$2.21 ton, to improve Covina Blvd. from its intersection with Holt Ave. and El Monte St. in Baldwin Park, west to a point beyond Merced Ave., 3350 lin. ft. or 0.63 mile, Cash Contract No. 456.

Construction or base or subgrade, grading, settling and removal of headers will be done by the county under work order No. 6054.

Geo. W. Jones, county road commissioner.

The bids were opened May 15.

SAN DIEGO, Calif.—R. E. Hazard Const. Co., 2548 Kettner Blvd., San Diego, submitted low bid to the 11th Naval District at San Diego on May 19 at 6½¢ per sq. ft., for paving at the Naval Operating Base (Supply Depot) San Diego; Spec. No. 7317. Award of contract will not be made until it has been definitely determined what area will be paved. The work includes the smooth grading, preparation and rolling of subgrade and paving of areas with one-course asphalt cement concrete two inches thick. The total area to be paved will be not less than 10,000 nor more than 15,000 sq. ft. The bids follow:

- R. E. Hazard Const. Co., 6½¢.
Griffith Company, 7¢.
Daley Corporation, 7¼¢.

INGLEWOOD, Los Angeles Co., Cal.—Until 8 P. M., May 29, bids will be received by city council to furnish

and spread approx. 22,275 gallons of emulsified asphalt in four applications to the surface of Freeman Ave. bet. Redondo Blvd. and Edith St.; Olive St. bet. Freeman Ave. and Ash St., and Pralier Ave. bet. Regent St. and Redondo Blvd. The applications shall be made as follows: First, ⅛-gallon to sq. yd.; second, ¼-gallon to sq. yd.; third, ⅜-gallon to the sq. yd.; and fourth, ½-gallon to the sq. yd. A. W. Cory, city engineer. O. H. Duelle, city clerk.

YAKIMA, Wash.—Larry Coluccio, 1638 Lane, Seattle, at \$10,693 submitted low bid to Yakima county commissioners to improve 3.5 miles of lateral highway 34, Plank road in the Satus district.

FORT LOGAN, Colo.—Until June 2, bids will be received by Construction Superintendent, Fort Logan, Colo., for bituminous concrete, premixed surface, coarse road.

TACOMA, Wash.—Until June 12, 11 A. M., bids will be received by Pierce County Commissioners to construct 3.9 mi. Puyallup-Graham road, estimated cost \$17,576. Specifications obtainable from W. E. Berry, county engineer, on deposit of \$5.

SEATTLE, Wash.—Until June 1, 10 A. M., bids will be received by Board of Public Works, G. W. Roberge, Secretary, Room 511, County-City Bldg., to pave Youngstown Place Grade Separation. Specification obtainable from above office. Certified check 5% required with bid.

LOS ANGELES, Cal.—Proceedings for the improvement of Marmont Ave. and other streets in the Marmont Ave. and Woodhill Terrace Imp. Dist. were abandoned by city council.

SAN FRANCISCO.—Architect H. A. Minton, 525 Market St., awarded contract to Eaton & Smith, 715 Ocean Ave., at approximately \$20,000 for grading and road work at the San Francisco College for Women, Turk St. and Parker Ave. Roman Catholic Archbishop of San Francisco, owner.

SAN FRANCISCO.—Chas. L. Harney, 74 New Montgomery Street, at \$9132.74 awarded contract by the Department of Public Works to improve Ortega St. bet. 22nd and 24th Aves., including crossing 23rd and 24th.

OAKLAND, Calif.—Emeryville Motorcycle Speedway, Inc., 217 12th St., Oakland, awarded contract to Lee J. Inmuel, 1031 Evelyn Ave., Berkeley, to grade, excavate and for concrete work in connection with construction of one-fifth mile oval motorcycle race track at 47th and San Pablo Ave., Oakland.

STANISLAUS COUNTY, Cal.—A. Teichert & Son, P. O. Box 1118, Sacramento, at \$11,303.25 awarded contract by State Highway Commission, Sacramento, to grade and pave with asphalt concrete 0.3 mi. at Modesto.

SAN RAFAEL, Cal.—Until June 12, 11 A. M., bids will be received by Rob E. Graham, County Clerk, to treat with emulsified asphalt and screenings from 6 mi. northwest of Inverness Store, on the Point Reyes Light House Road, 2 mi., involving 200,000 sq. ft. emulsified asphalt and screenings in place. Specifications obtainable from Rodney Messner, County Surveyor.

SAN FRANCISCO.—Chas. L. Harney, 74 New Montgomery St., at \$1818.62 awarded contract by Department of

Public Works to Improve Kirkham St., between 33rd and 34th Aves., 34th Ave between Kirkham and Lawton Sts., Ortega St., between 39th & 41st Aves.

SAN FRANCISCO—Central Foundry Co., 100 Potrero Ave., at prices shown below, submitted low bid under Bid No. 1004 to T. A. Brooks, City Purchasing Agent, 270 City Hall, to furnish:

- (1) 4210 lin. ft. 16-in. Class 150 cast iron water pipe.
 - (2) 5100 lin. ft. 12-in. do.
- Bidders follow:
 (A) Central Foundry.
 (B) Utilities Supply Co.
 (C) American C. I. Pipe Co.
- | | | |
|-----------|-------|-------|
| | (1) | (2) |
| (A) | 2.063 | 1.252 |
| (B) | 2.17 | 1.315 |
| (C) | 2.23 | 1.36 |
- Bids held under advisement.

ALAMEDA, Cal. — Approximate quantities for the surfacing of roads and paved areas at Benton Field, Alameda, for which bids are to be received by the Constructing Quartermaster at 11 A. M., June 15 (previously noted), are:

- 368,535 sq. ft. 4-in. bituminous surf. (plant mix3);
 - 4,800 ft. straight combined curb and gutter;
 - 1,790 ft. curved combined curb and gutter;
 - 3,285 ft. straight flush curb;
 - 705 ft. curved flush curb;
 - 2,595 ft. 4x4-in. creosoted curb.
- CONCRETE SURFACING (Alternate)
 365,510 sq. ft. 6-in. conc. surfacing;
 13,020 sq. ft. 4-in. bituminous paving over railroad tracks;
 4,800 ft. straight plain curb;
 1,790 ft. curved plain curb;
 70 tons reinforcing steel;
 8½ ton dowels (steel);
 20,600 lin. ft. expansion joints;
 2,275 lin. ft. weakened joints.
- The following will be required, whichever surfacing is selected:
- 11 catchbasins, curb type;
 - 4 storm drain inlets;
 - 80 lin. ft. 8-in. cast iron pipe;
 - 120 lin. ft. 6-in. cast iron pipe;
 - 20 lin. ft. 3-in. wrought iron pipe (galvanized);
 - 300 lin. ft. 8-in. terra cotta or plain concrete pipe.

LOS ANGELES, Cal.—July 11 has been set by the Public Works Committee as date for hearing on the improvement of Curson Ave., between Rosewood Ave. and Beverly Blvd., 1473 ft. centre line length. The engineer's estimate of quantities follows:

- (1) grading (1017 cu. yds. cut);
- (2) 503 sq. ft. 8-in. concrete paving;
- (3) 1038 sq. ft. 6-in. concrete paving;
- (4) 39,645 sq. ft. Warrenite bitulithic paving (2-in. wearing surface on 4-in. asphaltic concrete base);
- (5) 1134 sq. ft. remodel with 4-in. Warrenite wearing surface;
- (6) 62 ft. unplastered light curb;
- (7) 190 sq. ft. 4-in. concrete walk (driveways);
- (8) 411 sq. ft. 3-in. concrete walk (one-course);
- (9) 2765 sq. ft. concrete gutter;
- (10) storm drain;
- (11) water system;
- (12) remodel 6 manholes.

Remove: 62 ft. curb, 190 sq. ft. driveway, 411 sq. ft. walk, 5889 sq. ft. gutter, 297 sq. ft. pavement.
 Engineer's estimate, \$10,849.49.

LOS ANGELES, Cal.—Griffith Co., Los Angeles Railway Bldg., awarded contract by harbor department May 17 at \$23,040, for paving various streets and transit shed floors at Los Angeles Harbor, involving 5000 tons asphaltic concrete wearing surface and 2500 tons sheet asphalt wearing surface.

LOS ANGELES, Cal.—Plans to improve 32nd St. from Figueroa St. to Shrine Place, and Royal St. from 32nd St. to Jefferson St. in the 32nd St. and University Ave. Imp. Dist., have been completed by J. J. Jessup, city engineer. This work, for which bids will be called in the near future, will be paid for in cash. The work will involve:

STREET IMPROVEMENT:
 Grading (not figured)
 150 sq. ft. 8-in. conc. (local depressions);
 139,460 sq. ft. 6-in. comp. conc. pave.;
 3,088 sq. ft. 6-in. conc. pave. (alleys)
 1,955 sq. ft. 4-in. asph. conc. wearing surface;

142 sq. ft. 3-in. do;
 1,665 sq. ft. 2-in. do;
 17 sq. ft. 8-in. do;
 1,169 sq. ft. asph. conc. wearing surf. (various thickness, aver. 3-in.);
 50 sq. ft. do, average 2-in.;
 631 sq. ft. 6-in. walk (driveways);
 400 sq. ft. 4-in. walk (driveways);
 32 sq. ft. 6-in. gutter;
 55 sq. ft. 8-in. gutter;
 1,022 ft. unplas. heavy curb;
 17 ft. special steel curb;
 868 sq. ft. 1-course walk.

SANITARY SEWER, including:
 217.82 ft. 8-in. sewer, inc. 11 8x6-in. wyes;
 398 ft. 6-in. sewer, inc. 17 6-in. ¼th bends;
 One standard flush tank, No. 2;
 One standard manhole frame & cover
 One exist. flush tank to be remodeled to manhole "B".

STORM DRAIN, including:
 454 ft. 21-in. pipe;
 42 ft. 18-in. pipe;
 21 ft. 15-in. pipe;
 24 ft. 12-in. pipe;
 2 catchbasins, No. 31;
 1 catchbasin, No. 29;
 3 catchbasin frame and cover sets;
 1 manhole "EZ";
 2 manhole frame and cover sets;
 Remodel ornamental lighting conduit;
 One special manhole "EZ."

REMOVALS:
 1,032 ft. curb;
 1,225 sq. ft. walk;
 3,389 sq. ft. gutter;
 797 sq. ft. driveway;
 343 sq. ft. wearing surface;
 70 sq. ft. concrete paving;
 15,294 sq. ft. asphalt surface.

LOS ANGELES, Calif.—Until 10 A. M., June 7, bids will be received by board of public works, to improve Strickland Ave. bet. Burwood Terrace and 220 ft. west, under the 1911 Act. The quantities are:

- (1) grading (128 cu. yds. cut, 11 cu. yds. fill);
 - (2) 300 sq. ft. 6-in. conc. paving;
 - (3) 3752 sq. ft. 2-in. rock and oil roadway;
 - (4) 676 lin. ft. light unplas. curb;
 - (5) 633 sq. ft. 4-in. sidewalk (driveway);
 - (6) 2448 sq. ft. 1-course walk;
 - (7) 1305 sq. ft. 6-in. conc. gutter (2-ft. wide);
 - (8) reset manhole.
- Remove: 36 sq. ft. walk, 6 ft. curb, and 148 sq. ft. driveway (included in yardage).

ORANGE COUNTY, Cal. — C. H. Purcell, State Highway Engineer, has completed plant to improve North Los Angeles St., in the city of Alhambra, from Palm St. to Sycamore St. The work will include grading and paving of the street from La Palma St. to Palm St. and the resurfacing from Sycamore St. to La Palma St. The work will involve approximately:
 6,000 cu. yds. excavation (incl. 1000 cu. yds. removal of old concrete pavement);
 295,680 sq. ft. 7-in. asphaltic concrete pavement;
 295,000 sq. ft. asphaltic concrete re-

surfacing of variable thickness (average 2½-in. thick);
 5,200 lin. ft. 18-in. concrete curb of special state design.
 The cost, estimated at between \$40,000 and \$46,000 will be borne jointly by the state, county and city.

LOS ANGELES, Calif.—Until 10 A. M., June 14, bids will be received by board of public works to improve Strickland Ave., bet. Burwood Terrace and 220 ft. west, under the 1911 Act. The quantities are:
 (1) grading (128 cu. yds. cut, 11 cu. yds. fill);
 (2) 300 sq. ft. 6-in. concrete paving;
 (3) 3752 sq. ft. 2-in. rock and oil rdwy.
 (4) 676 lin. ft. light unplas. curb;
 (5) 633 sq. ft. 4-in. sidewalk (driveway);
 (6) 2448 sq. ft. 1-course walk;
 (7) 1305 sq. ft. 6-in. conc. gutter (2 ft. wide);
 (8) reset manhole.
 Remove: 36 sq. ft. walk, 6 ft. curb and 148 sq. ft. driveway (included in yardage).

LOS ANGELES, Cal.—City council, May 18, adopted an ordinance of intention for the improvement of Beaudry Ave. bet. Figueroa St. and Alpine St., under the 1911 Act. The quantities are:
 (1) grading (352 cu. yds. cut);
 (2) 14,084 sq. ft. 4-in. rock and oil roadway;
 (3) 45 sq. ft. asph. conc. pave. (2-in. asph. conc. wearing surf., 6-in. conc. base);
 (4) 2245 ft. unplas. light curb;
 (5) 1987 sq. ft. 1-course walk;
 (6) 4680 sq. ft. 6-in. conc. gutter;
 (8) 38 sq. ft. 8-in. comb. gutter;
 (9) storm drain and appurtenances;
 (10) 10 ft. 4-in. cast iron soil pipe.
 Remove: 329 ft. curb, 6855 sq. ft. gutter as follows: 6128 sq. ft. cobblestone, 131 sq. ft. brick, and 596 sq. ft. concrete; 1854 sq. ft. walk, 647 sq. ft. driveways, 2 trees, 10 ft. 10-in. pipe.

SAN LEANDRO, Alameda Co., Cal. —Until June 5, 4:30 P. M., bids will be received by E. F. Hutchings, city clerk, to furnish and spread oil on street surfaces in the City of San Leandro for the year ending June 30, 1934. Certified check \$500 required with bid.

LOS ANGELES, Cal.—No bids submitted to Board of Public Works May 17 to improve Avenue 46, between Clermont St. and Frontenac Ave. The Board has asked the city council to abandon proceedings for this work.

LOS ANGELES, Cal.—Until 10 A. M., June 7, bids will be received by Board of Public Works to improve Burwood Terrace and 220 ft. west, under the 1911 Act. The quantities are:
 (1) grading (128 cu. yds. cut, 11 cu. yds. fill);
 (2) 300 sq. ft. 6-in. concrete paving;
 (3) 3752 sq. ft. 2-in. rock and oil rdwy.
 (4) 676 lin. ft. light unplas. curb;
 (5) 633 sq. ft. 4-in. sidewalk (driveway);
 (6) 2448 sq. ft. one-course walk;
 (7) 1305 sq. ft. 6-in. conc. gutter (2 ft. wide);
 (8) reset manhole.
 Remove: 36 sq. ft. walk, 6 ft. curb and 148 sq. ft. driveway (included in yardage).

SAN LEANDRO, Alameda Co., Cal. —Until June 5, 4:30 P. M., bids will be received by E. F. Hutchings, city clerk, to furnish rock and screenings for the year ending June 30, 1934, to the City of San Leandro. Certified check \$1000 required with bid.

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

UNITS 2, 3, 4 AND 8 — GOVERNMENT ISLAND

ALAMEDA, Alameda Co., Calif.—Hutchinson Co., 1450 Harrison St., Oakland, at \$24,499.15 submitted low bid to, and recommended for award by U. S. Bureau of Public Roads, San Francisco, to construct portions of Units 2, 3, 4 and 8, Government Island construction, Government Island Alameda, involving:

- (1) 1000 cu. yds. excav. for sewer outlet ditch;
- (2) street lighting system, lump sum
- (3) bridge lighting sys., lump sum;
- (4) 1300 lin. ft. resurf. r.r. track;
- (5) 5600 lin. ft. comb. curb and gutter
- (6) 263 lin. ft. curb only;
- (7) 13,700 sq. ft. valley gutters;
- (8) 11,300 sq. ft. sidewalks;
- (9) 1500 sq. ft. reinf. conc. driveways
- (10) 1 valley catchbasin and trap;
- (11) 4 curb catchbasins without trap
- (12) 150 lin. ft. lay Govt. furnished 6-in. pipe;
- (13) 350 cu. yds. sand-clay material;
- (14) 300 cu. yds. loam;
- (15) 1000 cu. yds. unclass. excav.;
- (16) 300 cu. yds. addn. base rock;

- (17) 27 tons liquid asph. road material, M. C. 1;
- (18) 112 tons do, type M. C. 5;
- (19) 18,000 sq. yds. prepare base for surface;
- (20) 100 cu. yds. crushed rock, leveling course;
- (21) 1860 tons asph. treated crusher rock surface;
- (22) 180 tons screenings, seal coat.

Complete bids follow:
 (A) Hutchinson Co., Oakland, \$24,499.15.
 (B) Heafey-Moore Co., Oakland, \$27,402.20.
 (C) Eaton & Smith, San Francisco, \$31,989.50.
 (D) M. B. McGowan, San Francisco, \$22,409.00.
 (E) H. F. Haverkamp, San Francisco (partial bid).
 (F) H. S. Tittle Co., San Francisco, (partial bid).
 (G) H. C. Reed Co., San Francisco, (partial bid).
 (H) Globe Electric Works, San Francisco, (partial bid).
 (I) Engineer's estimate, \$26,583.20.

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
(1).....	\$.22	\$.50	\$.40	\$.24	\$.	\$.	\$.	\$.	\$.30
(2).....	5587.00	5287.00	7000.00	5820.00	6730	6859	6250	5828	6000.00
(3).....	975.00	920.00	1000.00	1000.80	995	1204	950	1036	1000.00
(4).....	.70	.65	.70	.24	.....	.....	.....	.....	.50
(5).....	.64	.70	.80	.74	.....	.....	.....	.....	.70
(6).....	.35	.45	.50	.43	.....	.....	.....	.....	.40
(7).....	.18	.22	.25	.22	.....	.....	.....	.....	.20
(8).....	.14	.18	.16	.22	.....	.....	.....	.....	.15
(9).....	.25	.35	.30	.36	.....	.....	.....	.....	.25
(10).....	35.00	32.50	50.00	40.00	.....	.....	.....	.....	75.00
(11).....	25.00	30.00	40.00	25.00	.....	.....	.....	.....	25.00
(12).....	.22	.50	.50	.53	.....	.....	.....	.....	.20
(13).....	1.50	1.00	3.00	2.10	.....	.....	.....	.....	1.50
(14).....	1.50	2.00	3.00	2.36	.....	.....	.....	.....	1.50
(15).....	.40	.50	.90	.59	.....	.....	.....	.....	.40
(16).....	1.60	1.75	2.00	3.41	.....	.....	.....	.....	11.50
(17).....	14.50	16.05	20.00	17.70	.....	.....	.....	.....	17.00
(18).....	14.75	14.50	15.00	14.20	.....	.....	.....	.....	17.00
(19).....	.005	.05	.07	.12	.....	.....	.....	.....	.06
(20).....	1.65	1.75	2.00	3.84	.....	.....	.....	.....	2.00
(21).....	2.16	2.45	2.50	3.04	.....	.....	.....	.....	2.00
(22).....	2.05	1.90	4.00	6.65	.....	.....	.....	.....	2.25

ROCKWELL FIELD, Cal.—George Gardner, 445 E Cypress Ave., Redlands, submitted the lowest regular bid to the Constructing Quartermaster, Rockwell Field, Coronado, May 17, at \$37,400, or 11c sq. yd. for grading and oiling of the landing field at Rockwell Field. The field is circular in shape with an area of approximately 340,000 sq. yds. The oil will be laid 3 gallons to the sq. yd., requiring approximately 1,020,000 gals. The low bidder, Walter Treptke, San Diego (\$36,982, or 10.7c sq. yd.) neglected to state his time for completion.

- (A) George Gardner\$37,400
- (B) Walter Treptke* 38,982
- (C) Miracle Co. 40,962
- (D) Weymouth Crowell Co..... 41,500
- (E) George French, Jr..... 43,254
- (F) Griffith Co. 46,400
- (G) Yglesias Bros. 48,000
- (H) Clyde W. Wood 55,500
- (I) V. R. Dennis Const. Co..... 62,900

Unit bids follow:

	Unit Price	Start (days)	Comp. (days)
(A)	\$.11	2	20
(B) .....	.107	..	..
(C) .....	.1186	1	28
(D) .....	.115	2	25
(E) .....	.125	3	23
(F) .....	.134	3	30
(G) .....	.14	2	30
(H) .....	.16	5	50
(I) .....	.17	10	**

* Irregular—no time stated.
 ** June 15.

SAN RAFAEL, Marin Co., Calif.—Pacific Meter Works of American Meter Co., 495 11th St., San Francisco, at prices shown below, submitted low bid to Constructing Quartermaster, Hamilton Field (Marin Meadows) Bombing Base, to furnish:

- (1) 32 gas meters;
 - (2) 32 regulators.
- Bids were submitted by:

- (A) Pacific Meter Works, S. F.
- (B) Pittsburg Equitable Meter Co., Oakland.

Unit bids follow:

	(1)	(2)
(A)	\$272.32	\$113.60
(B)	284.80	108.80

Bids held under advisement.

STANISLAUS COUNTY, Calif.—A. Teichert & Son, P. O. Box 1118, Sacramento, at \$11,303.25 submitted low bid May 19 to District Engineer, State Highway Commission, Sacramento, to grade and pave with asphalt concrete 0.3 mile at Modesto, involving:

- (1) 1,085 cu. yds. rdwy. excav., unclass.;
- (2) 53,500 sta. yds. overhaul;
- (3) 2,300 tons asph. concrete;
- (4) 3,030 sq. yds. subgrade for pave.;
- (5) 110 tons untreated crushed stone or gravel surf. (approaches);
- (6) 15 sta. finish roadway;
- (7) 53 cu. yds. salvage surface (sub-base);
- (8) 25 cu. yds. asph. conc. removed from existing pavement.

Complete bids follow:

- (A) A. Teichert & Sons, Sacramento, \$11,303.25.
 - (B) N. M. Ball, Berkeley, \$13,114.50.
- | | (A) | (B) |
|----------|-------|-------|
| (1)..... | \$.25 | \$.50 |
| (2)..... | .005 | .01 |
| (3)..... | 4.40 | 4.90 |
| (4)..... | .10 | .10 |
| (5)..... | 1.50 | 2.10 |
| (6)..... | 5.00 | 7.00 |
| (7)..... | .50 | 1.00 |
| (8)..... | 3.00 | 3.00 |

WATER LINE AND SUPPLY SYSTEM—L. A. COUNTY

LOS ANGELES COUNTY, Cal.—Lee Wilson and Carl Ehrhart, 2700 Exposition Place, submitted low bid to State Highway District Engineer, 808 California State Office Bldg., Los Angeles, May 22, at \$4364 to construct 2-in. water line and supply system about 2.4 miles in length between Read Spring and Los Alamos maintenance station, involving:

- (1) 12,800 lin. ft. new standard galvanized 2-in. (I.D.) wrought steel pipe;
- (2) 6 2-in. standard wedge gate valves
- (3) one 2-in. loading standpipe with valve;
- (4) 3 fire hydrants;

- (5) one 5000-gal. horizontal type underground welded steel storage tank;
- (6) 10 cu. yds. class A portland cement concrete.

Complete bids follow:
 (A) Lee Wilson and Carl Ehrhart, \$4364.
 (B) Clark & Campbell, \$4457.20.
 (C) Marko Matick, \$4754.
 (D) Franklin B. Gridley, \$5267.
 (E) Jos. Maiser, \$6195.
 (F) Garrett Plumbing Co., \$6237.
 (G) Parkhill-Wade, Inc., \$6964.68.
 (H) Clujak & Zelko, \$8245.05.
 (I) Johnson & Washer, \$8439.48.
 (J) Nick Vlicich, \$8887.80.

Unit bids follow:

	(1)	(2)	(3)	(4)	(5)	(6)
(A)	\$.31	\$ 6.50	\$ 5.00	\$ 9.00	\$225.00	\$10.00
(B) .....	.309	7.00	11.00	8.00	325.00	10.00
(C) .....	.33	7.00	15.00	10.00	300.00	15.00
(D) .....	.37	6.00	15.00	10.00	300.00	15.00
(E) .....	.42	8.00	17.00	18.00	500.00	20.00
(F) .....	.42	7.50	8.00	6.00	690.00	10.00
(G) .....	.455	15.12	13.20	17.55	777.00	20.00
(H) .....	.60	6.60	11.45	10.00	334.00	15.00
(I) .....	.595	6.44	13.34	9.50	693.00	10.00
(J) .....	.65	4.50	20.00	13.00	350.00	13.00

HAMILTON FIELD HEADQUARTERS BUILDING

SAN RAFAEL, Marin Co., Cal.—Meyer Bros., 727 Portola Drive, San Francisco, at \$33,940 submitted low bid to Constructing Quartermaster, Hamilton Field, for the construction of a concrete and hollow tile headquarters building, 177 feet long with a two-story center, tile roof, etc., to be erected at Hamilton Field (Marin Meadows) Bombing Base. Plans prepared by the Constructing Quartermaster, Hamilton Field. Following is a complete list of the bids:

- (1) Job complete.
- (2) If cast-in-place concrete piles are accepted in place of precast concrete pile, add.
- (3) If all terrazzo floors, except in toilet rooms are omitted and in place is installed an integral cement finish, deduct.
- (4) If all linoleum floors are omitted and in place is installed an integral cement finish, deduct.
- (5) If all terra cotta exterior trim is omitted and in place is installed cast stone, deduct.
- (6) If tile roofing is omitted and only prepared roofing is laid, deduct.
- (7) If all quarry tile floor and base is omitted in loggias and integral cement finish floor and base is installed, deduct.

- (8) If all partitions, plastering and trim on second floor is omitted, deduct.
- (9) If all door and window screens on buildings are omitted, deduct.

- (A) Meyer Brothers, San Francisco, \$33,940.
- (B) George Petersen, San Leandro, \$38,984.5.
- (C) Robert E. McKee, Los Angeles, \$39,350.
- (D) William Splvock, San Francisco, \$39,560.
- (E) Carl N. Swenson, San Jose, \$40,464.
- (F) E. T. Lesure, Oakland, \$40,724.
- (G) F. C. Amoroso & Sons, San Francisco, \$41,797.
- (H) T. I. Strand, San Francisco, \$41,840.
- (I) F. J. Reilly, San Francisco, \$42,381.
- (J) Reed & Reed, San Francisco, \$43,797.
- (K) M. B. McGowan, San Francisco, \$43,798.
- (L) Leo Epp, San Francisco, \$43,698.
- (M) Schuler & McDonald, Oakland, \$45,000.
- (N) R. W. Littlefield, Oakland, \$48,300.

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
(A)	\$33,940	\$1770	\$525	\$420	\$2000	\$600	\$300	\$665	\$206
(B)	38,985	1600	590	550	2250	900	530	478	400
(C)	39,350	2900	500	450	2300	1200	200	625	400
(D)	39,565	2200	600	450	2300	910	230	780	175
(E)	40,464	222	179	563	2750	843	340	735	149
(F)	40,724	1200	500	300	2400	1100	300	700	170
(G)	41,797	400	500	540	1900	1100	200	400	240
(H)	41,840	1670	450	300	1900	500	1000	155	—
(I)	42,381	1500	600	475	2200	900	200	450	800
(J)	43,797	1693	649	585	2154	951	251	729	416
(K)	43,798	—	600	400	—	1000	100	400	100
(L)	43,698	890	200	200	1500	600	100	350	100
(M)	45,000	2450	435	500	2000	850	235	400	300
(N)	46,300	1714	500	600	2300	900	525	450	300

Complete list of unit prices available at the office of DAILY PACIFIC BUILDER.

(694) 1st report Feb. 15; 9th May 12, 1933.

PAVED APRONS — HAMILTON FIELD

SAN RAFAEL, Marin Co., Calif.—Heafey-Moore Co., 344 High St., Oakland, at \$53,375 submitted low bid to Constructing Quartermaster, Hamilton Field, for paved aprons around the hangar and shop at Hamilton Field (Marin Meadows) Bombing Base, San Rafael. Work involves:

- (1) construct paved aprons, including filling, drainage lines, curbs, side walks, and Portland cement concrete pave., 6-in. thick, lump sum;
- (2) unit price, excav., cu. yd.;
- (3) concrete curbs, lin. ft.;
- (4) sidewalk, sq. ft.;
- (5) 6-in. Portland cem. conc., including reinf., sq. yd.;

- (6) 6-in. sewer tile, including excavation, lin. ft.;
- (7) 8-in. do;
- (8) 10-in. do;
- (9) 12-in. do.

List of bidders follows:

- (A) Heafey-Moore Co., Oakland.
- (B) W. E. Lyons, Oakland.
- (C) V. Maggiora, Sansalito.
- (D) N. M. Ball, Berkeley.
- (E) Pacific States Const. Co., San Francisco.
- (F) Fay Imp. Co., San Francisco.
- (G) Chas. L. Harney, San Francisco.
- (H) Robt. E. McKee, Hamilton Field and Los Angeles.

Unit bids follow:

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
(A)	\$53,375	\$40	\$35	\$14	\$1.90	\$35	\$44	\$55	\$65
(B)	54,900	.25	.65	.12	1.50	.50	.55	1.00	1.00
(C)	55,498	.20	.55	.15	1.40	.65	.70	.80	1.00
(D)	55,653	.30	.50	1.52	1.52	.53	.65	.77	.90
(E)	57,356	.22	.42	.13	1.51	.50	.60	.75	.80
(F)	58,900	.24	.52	.13	2.20	.68	.89	1.00	1.35
(G)	59,510	.75	1.00	.15	.17	.50	.75	1.00	1.00
(H)	63,330	.40	1.00	.12	1.63	.35	.45	.60	75

INGLEWOOD, Los Angeles Co., Cal.—Harvey Bros., Downey Road, Los Angeles, submitted low bid to the city council May 22 to furnish crushed rock for the improvement of Freeman Ave. and Prairie Ave., as follows:

- (1) 965 tons Nos. 2 and 3 rock in equal proportions;
 - (2) 400 tons No. 4 rock.
- The bids follow:

	(1)	(2)
Harvey Bros.	\$1.45	\$1.60
Consol. Rock. Prod.	1.65	1.80
Blue Diamond Corp.	1.65	1.80
E. B. Harris Lbr. Co.	1.65	1.80

All discounts 20c per ton.

Bids were taken under advisement until May 29. Arthur W. Cory, city engineer. Otto H. Duelle, city clerk.

LOS ANGELES, Cal.—Bids for furnishing pipe f.o.b. Hewitt spur track, A. T. & S. F. Ry., for the Department of Water and Power, under Specifications No. 3084 opened by A. J. Holm, City Purchasing Agent, May 19, follow:

- (1a) 10,000 ft. 1-in. std. galv. wr. steel pipe;
- (1b) 10,000 ft. 2-in. do;
- Alt. (1b) 10,000 ft. 2-in. line pipe;
- (2a) 10,000 ft. 1-in. std. galv. wr. steel pipe;
- (2b) 10,000 ft. 2-in. do;
- Alt. (2b) 10,000 ft. 2-in. line pipe.

The bidders, 15 of whom submitted identical prices, were:

- (A) Steel, Inc.—1% discount for combined award. Terms, 2% 30 days.
- (B) Viking Automatic Sprinkler Co.—3% dis. comb. award. Terms, 2% 30 days.
- (C) Santa Fe Pipe & Supply Co.—Terms, 2% 30 days, mill val.
- (D) Grinnell Co. of the Pacific—Cash discounts as follows: Items (1a) and (2a) \$12.92; items (1b) and (2b) \$28.12; items (Alt. 1b) and Alt. 2b) \$29.24.
- (D) California Pipe & Supply Co.—Terms, 2% 30 days, mill val.
- (D) Ducommun Corp.—Terms, 2% 30 days, mill val.
- (D) Harper & Reynolds Corp.—Terms, 2% 30 days, mill val.
- (D) Standard Pipe & Supply Co.—Terms, 2% 30 days, mill val.
- (D) Smith Booth Usher Co.—Terms, 2% 30 days, mill val.
- (D) South Chester Tube Co.—Terms, 2% 30 days. Delivery, 30 to 35 days
- (D) Hacker Pipe & Supply Co.—Terms 2% 30 days, mill val.
- (D) Mell O. Haldeman Corp.—Terms, 2% 30 days, mill valuation.
- (D) Hickey Pipe & Supply Co.—Terms 2% 30 days, mill valuation.
- (D) California Hardware Co.—Terms, 2% 30 days, mill valuation.
- (D) Crane Co.—Terms, 2% 30 days, mill valuation.
- (D) Petroleum Equipment Co.—Terms, 2% 30 days, mill valuation.
- (D) Familian Pipe & Supply Co.—Terms, 2% 30 days.
- (D) Kelly Pipe Co.—Terms, 2% 30 days, mill valuation.

The bids were as follows:

	(A)	(B)	(C)	(D)
(1a)	\$ 7.10	\$ 7.34	\$ 7.35	\$ 7.68
(1b)	15.50	15.98	16.00	16.71
(Alt. 1b)	16.82	14.03	16.58	17.31
(2a)	7.10	7.34	7.35	7.68
(2b)	16.50	15.98	16.00	16.71
(Alt. 2b)	16.82	14.03	16.58	17.31

INGLEWOOD, Los Angeles Co., Cal.—Bids for furnishing asphaltic road oil opened by city council may 22 to improve Freeman Ave. and Prairie Ave., involving:

- (1) 335 bbls. 80% asphaltic road oil;
- (2) 265 bbls. 90% do.

The bids follow:

	(1)	(2)
Square Oil Co.	\$1.80*	\$1.90†
Square Oil Co.	1.99*	2.15†
Union Oil Co.	2.60	2.60
Gilmore Oil Co.	2.60	2.60
Richfield Oil Co.	2.60	2.60
Standard Oil Co.	2.60	2.60

*Price per 100-bbl. lots.

†Price per 30-bbl. lots.

Bids were taken under advisement until May 29. Arthur W. Cory, city engineer.

MEXICO CITY, Mexico.—Constructor de Mexico, S. A. (Yglesias Bros. and F. F. Rodriguez) awarded contract at 400,000 pesos to lay approximately 250 kilometers of water pipe for the City of Mexico. Work started on May 2.

ARCADIA, Los Angeles Co., Cal.—City council rejected all bids received on May 2 for furnishing rock and sand and will purchase the materials in the open market.

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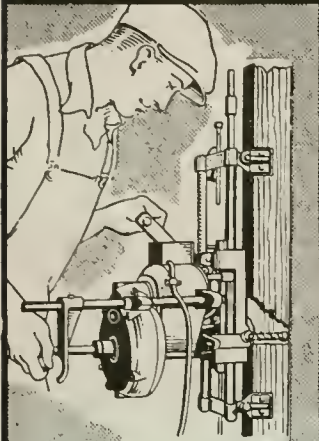
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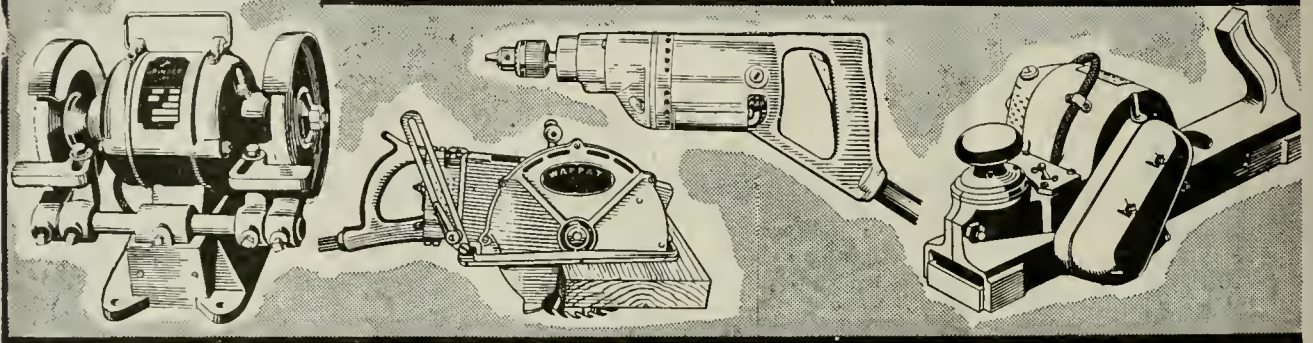
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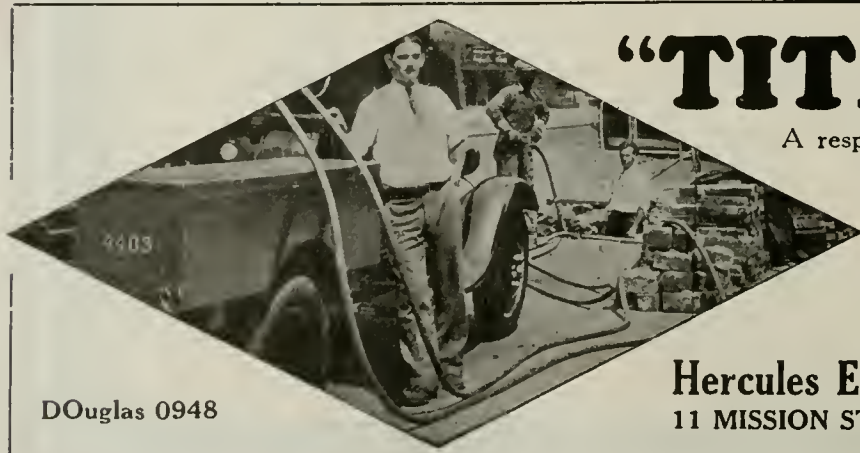
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SAM B. EUBANKS, Editor

Vol. XVI

SAN FRANCISCO, CALIF., JUNE 3, 1933

No. 20

LUMBER ORDERS NOW ONE-THIRD OF INVENTORIES

West Coast Mills Report Steady Improvement In Sales Ratio

The week's accumulation of new business at lumber mills reporting to the West Coast Lumbermen's Association was three million feet less than the peak reached the week previous but was larger than for any other week since April, 1931.

Production, compared with orders and shipments, continues low. For the year to date orders exceed those of the same period in 1932 by 7 percent; production is less by 6 percent. Stocks are 18.3 percent less than at this time last year while unfilled orders are now 33 percent of stocks, the highest since April, 1930.

A total of 252 down and operating mills which reported for the week ending May 20 produced 79,827,127 board feet of lumber. This was an increase of 7,047,705 feet or 9.7 percent over their cut in the preceding week. The average week's production of this group of sawmills in 1933 has been 60,766,650 feet; during the same period of 1932, their weekly average was 66,649,300 feet.

The new business reported last week by 180 mills was 113,975,782 board feet against a production of 73,014,812 feet and shipments of 80,884,583 feet. Their shipments were over their production by 10.70 percent, and their current sales were over production by 56.10 percent. The orders booked last week by this group of identical mills were less than their orders of the preceding week by 3,003,376 feet, or 2.57 percent.

Details of orders and shipments as reported by these 180 mills are:

	Orders	Shipments
Rail	33,986,225	27,229,853
Domestic	52,629,273	34,644,211
Export	20,591,614	12,241,849
Local	6,768,670	6,768,670

113,975,782 80,884,583

The unfilled order file at these mills stood at 350,741,006 board feet, an increase of 31,176,417 feet from the week before.

THE WEEK'S NEWS

Highlights

\$125,000 SAVED. Carlos Huntington, registrar, estimates California contractors will save \$125,000 in the year beginning July 1 as the result of reduction in the annual license fee from \$10 to \$5. Governor Rolph has signed the bill, and 22,000 licenses, more or less, will be renewable next month at the bargain rate.

CITY PERMITS. San Francisco permits for building issued in May make a startling showing by including \$31,247,364 as the county's share of the San Francisco-Oakland bay bridge contracts so far awarded. Deleting these leaves a balance of \$568,312, principally for private work. In view of previous records the report is encouraging, showing both an increase in value and increase in number of permits over April. Permits for alterations show an increase to more than double the value for the corresponding month a year ago.

FEDERAL MONEY. United States senators are completing their work on the National Trade Recovery Act, which has already been passed by the House. The bill is expected to pass with no change in the \$3,300,000,000 public works appropriation. Federal bureaus that plan construction have been uneasy for two months now are preparing to expedite the tremendous volume of work which the new avalanche of cash will float. L. W. Roberts, new assistant secretary of the treasury in charge of buildings, says \$50,000,000 in new building will be advertised immediately after the bill is signed, with an equal amount within 90 days thereafter.

BAY PROJECTS ASSURED MONEY IN WORKS BILL

Oakland Congressman Says Federal Provisions Cover Local Construction

Bay district projects involving the expenditure of millions of dollars will be eligible for completion under the industrial control public works bill, according to advices received from Congressman Abert E. Carter, of Oakland.

Carter declared he had already taken steps to have included in works to be completed under the bill, the completion of Benton Field in Alameda, construction on Government Island, certain dredging in Richmond Harbor and the California water plan providing for salinity control in the Delta region and industrial water for Contra Costa County.

Also eligible for consideration, he said, are such projects as the \$3,000,000 Broadway tunnel to link Alameda and Contra Costa counties and the Park Street bridge over the estuary.

Carter pointed out that under the provisions of the bill, an administrator will have final selection of all projects and that indications in Washington point to the probable naming of Hugh S. Johnson to the post.

Johnson is familiar with the Bay region, having been stationed at Monterey and graduated from the University of California while in the Army following his graduation from West Point. He first achieved note for his work in caring for refugees from the San Francisco earthquake and fire.

Dispatches from Washington several days ago said Johnson had been selected as administrator of the industrial control-public works plans by President Roosevelt.

Work on Benton Field, the Army air base in Alameda, and on Government Island has been in progress for several months. The State water plan would call for the expenditure of \$175,000,000 in conservation and flood control projects throughout the State, among them the control of salt water encroachment in the Delta area.

NEW PLANS FOR GATE SPAN ROAD TO BE PREPARED

Bids Asked on Removal of Gun Battery at S. F. Presidio

Definite plans for relocation of the eastern approach road to the Golden Gate Bridge through the Presidio of San Francisco will be presented to the board of directors for action when they meet in regular session Wednesday, June 14, according to General Manager Jas. Reed.

Mr. Reed informed the directors that a decision by them on the revised plans for the approach road on June 14 will allow ample time to obtain the necessary rights of way from the War Department so that they can be presented for acceptance to the state legislature when it convenes in July.

It was pointed out that a decision on this matter along the lines worked out and submitted to the board by City Engineer John Casey of San Francisco, will make possible the speedy letting of contracts on the eastern approach road.

Bids will be received June 11 by the bridge district for dismantling and removing an obsolete disappearing gun battery at the Presidio of San Francisco. The guns are designated as Battery Lancaster, Fort Winfield Scott.

Equipment to be removed includes three disappearing mounts, each weighing 188 tons, of which 108 tons are steel and 80 tons are lead; and three ammunition handling trucks weighing 1000 pounds and made of steel. The contract will provide that the articles be broken into pieces that can be conveniently handled and that no single piece exceed five tons. The material is to be moved to and unloaded at the railroad siding on Crissy Field.

Bidding is restricted to established firms doing business in the bridge district. A bond for faithful performance equal to the amount of the bid will be required.

THREE OFFICIALS ARE RE-APPOINTED

Three city officials have been re-appointed to new terms by the Santa Clara city council. They are George L. Sullivan, city engineer; George P. Fallon, superintendent of streets, and A. E. Roll, building and plumbing inspector.

MATERIAL PRICES SHOW NEW GAIN

The index number of building prices stood at 71.1 for the week ending May 20, registering a further gain and a new high for the year. The index for the previous week was 70.8, according to statistics compiled by the United States Department of Labor. The index is derived from wholesale price quotations weighted according to the importance of each commodity and compared with the price level of 1926 a base of 100.0.

Metal and metal products price index for the week of May 20 was at 77.9, the same as the week previous.

KELLOGG IS NAMED FIRST MANAGER OF SAN MATEO COUNTY

Walter T. Kellogg, Redwood City district manager for the Pacific Gas and Electric Company, has been named San Mateo county manager, the first appointment under the new charter.

Mr. Kellogg was selected from 27 candidates who filed applications. He is appointed for a four-year term commencing July 1.

The new county manager was born in Oakland. He is 50 years of age and has been with the Pacific Gas and Electric Company since 1905. For the past ten years he has been a member of the Redwood City board of education and he is treasurer of the San Mateo county chamber of commerce.

MEYER APPOINTED DISTRICT DEPUTY

Architect Frederick H. Meyer has been appointed Northern district deputy for the California Architects Association by David J. Witmer of Los Angeles who succeeded Meyer this year as regional director of the American Institute. Announcement of the appointment was made at the semi-annual meeting here this week of the association.

The association has decided to cancel the annual state convention this year in accord with the economy program adopted by the national directors. Section meetings probably will be held in October, however, at about the time the state convention ordinarily is held, according to Ellsworth Johnson, secretary of the association.

BILL TO LOWER STATE LICENSE FEE IS APPROVED

Governor Signs Act Amending Contractors' Registration Regulations

SACRAMENTO, May 29—Legislation reducing the license renewal fee of California contractors fifty per cent and providing for tightening of the state contractors, act was enacted into law here today with the approval by Governor Jas. Rolph Jr., of Assembly bill 780.

Under provisions of the measure, the fee for renewal of licenses for the new fiscal year beginning July 1, will be cut from \$10 to \$5.

This economy measure, it is expected, will result in a saving of more than \$115,000 for California's army of 23,000 registered contractors. The measure carried an urgency clause, making it effective immediately upon approval by Governor Rolph.

In addition to providing a reduction in the fee, the measure provides for tightening the provision of the act and also more stringent regulation of the unscrupulous or unethical fly-by-night contractor or "jerry builder", according to Col. Carlos W. Huntington, registrar of contractors and director of professional and vocational standards in the governor's cabinet. The measure will in no way interfere with the legitimate operations of the honest and reputable contractor, Registrar Huntington said.

Under the budget finally adopted by the legislature and approved by the governor, the registrar's office is apportioned \$279,000 for support for the ensuing biennium. The original budget request provided for \$314,000 for the department, but this was cut to \$236,242 by the house ways and means committee, and subsequently raised to \$270,000 in the final budget.

The measure retains the present \$200 exemption clause. A move to lower this to \$50 having been defeated on the floor of the senate and assembly.

BANKERS TO BUY SEATTLE BONDS

A syndicate of Seattle bankers has agreed to purchase a block of \$600,000 in municipal improvement bonds to enable the city to proceed with a major improvement plan for Railroad avenue.

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LEAGUE REPORTS MANY LOANS FOR REMODELING WORK

More Than Fifteen Million Advanced Since First of Year to Home Owners

Families which are making wise expenditures to keep up the value of their homes this spring already number 18,150, according to Morton Bodfish, executive manager of the United States Building & Loan League, in announcing the results of the league's national survey of modernization and repair loans to home-owners.

Funds advanced for this purpose since the first of the year by building and loan associations total about \$15,500,000, according to the league estimates, and at least half of this volume of lending has been made possible by the local associations' access to money from the federal home loan bank.

Of the building and loan associations reporting to the United States league, 65 percent have made some loans for renovation of homes in their localities. The two associations with the highest score in this activity, each having made loans to forty home-owners are located in cities of 300,000 and 20,000 population respectively. The home-owners they served have borrowed between \$850 and \$1,000 each to make the improvements.

These associations are advertising that financing is available for such undertakings and thus encouraging the activity. Several of the cities in which a number of such loans have been made are in the midst of city-wide modernizing campaigns, it was pointed out.

"Inflationary moves now underway strengthen the indications that this is but a beginning of more modernizing of homes in the months to come," said Bodfish. "The sensible home-owner realizes that a reconditioning or modernizing job contracted for at a low cost in May or June, 1933, will probably look like a bargain six or eight months from now. Besides this natural tendency to strike while the iron is hot there are many reports

ELECTRICAL BUREAU SAVES CONTRACTORS DUPLICATE SURVEY

A new procedure in assessing inspection fees on contemplated installations which may be figured by several contractors is announced by Ralph W. Wiley, chief of the department of electricity, as a means of relieving the industry of unnecessary costs.

The following announcement of the change is made by Wiley:

"In the past on electrical installations such as portions destroyed by fire, extensive alterations, additions to existing installations, or various other jobs where contractors have been in doubt as to the requirements of this department, it has been the practice for the contractors figuring the work to request a survey.

"Under this system, ten contractors might ask, and pay a fee, for a survey, and another contractor, one who had not asked for a survey, might get the job, and consequently the work would not be installed according to the survey.

"In the future, on such installations, upon request of a contractor, the department will make a survey, and report of this survey will be given to any contractor who might wish to figure the job, and the cost of the survey will be borne by the contractor who makes the installation.

"This change I believe will prove to be a more equitable arrangement for all concerned."

SACRAMENTO PLANS CITY HALL ANNEX

Federal aid for the construction of an annex to the Sacramento city hall is to be sought by City Manager James S. Dean. The estimated cost of the annex is \$60,000. It would house the health and water department offices and include a central fire station. Dean hopes to obtain the money from the Federal public works bill under terms that would allow the city one-third of the cost as a gift from the Federal government.

of cities which are just beginning their campaigns to get the home-owners to modernize."

PRIVATE WORK INCREASE SHOWS IN S. F. PERMITS

Bay Bridge Contracts Boost City Totals by \$31,000,000 For May

San Francisco building permits, exclusive of totals for the San Francisco-Oakland bay bridge awards, totaled \$568,312 in May, compared with \$538,112 for the month of April. Under a special classification of harbor work the department includes the San Francisco portion of the bridge structure for which contracts have been awarded, the amount being \$31,247,364. This covers all of the bridge work excepting part of the eastbay foundations and superstructure.

With the bridge contracts included the city's permit total is \$31,815,676.

Private building compares favorably both with the month of April and the corresponding month of 1932. Although the dollar value is less than for May of 1932, this is due principally to a single major permit in the last year's total, while alteration work last month was valued at more than twice the total of the same month in 1932, and in number of permits issued this year is ahead of last year's figure.

Residential building totals \$229,105 for the month, 61 permits being issued. This compares with 63 permits and a total of \$224,356 in April and 62 permits and a value of \$289,358 in May of 1932.

Following are the comparative figures for last month and the corresponding month of 1932:

	May, 1933		May, 1932	
	No. P'mts	Est. Cost	No. P'mts	Est. Cost
A	1	\$ 25,000	2	\$ 238,000
B	1	800	.....	.....
C	1	4,000	14	88,800
Frames	61	229,105	62	289,358
Alter.	392	290,157	345	125,538
Public	2	14,500	2	64,751
Harbor	6	31,247,364	2	3,677
U. S. Govt. 1		4,750	4	10,000
Total	465	\$31,815,676	431	\$ 880,124
		1933		1932
5 Mons.	1821	\$47,782,231	2440	\$4,802,346

FOR SALE...

110 Horsepower Diesel Engine at a Bargain

United Commercial Co., Inc.

234 Steuart Street

San Francisco

SMITH BROS. TRUCK CO.

"TRANSPORTATION SPECIALISTS"

Portable Crane Service—Rigging

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Westmore 3271

Move More Dirt Faster with LE TOURNEAU Equipment

A complete line of grading machinery—designed by a contractor—developed on actual construction jobs—built to stand continuous use under the worst conditions.

ENGINEER'S CONSULTATION FREE

R. G. LE TOURNEAU, INC.

Wilson Way at Roosevelt

Stockton, Calif.

WESTINGHOUSE QUARTER REPORT IS OPTIMISTIC

**Electric Firm Orders in March
Largest for Month
Since July**

Expressing confidence in the leadership of President Roosevelt and the belief that a real business revival is imminent Westinghouse Electric and Manufacturing Company has announced to its stockholders that bookings for March were the largest of any month since July, 1932.

While showing a substantial loss for the first quarter of 1933 attributed to low volume of business the announcement had this to say:

"In spite of the financial situation during the first quarter of this year, March bookings were the largest of any month since July, 1932. While the company secured its share of available business, yet it was so low that operations for the three months ended March 31, 1933, resulted in a net loss of \$3,491,572.

"The prompt and constructive moves of the new administration at Washington have had a stimulating effect on public sentiment. The President is providing the aggressive leadership needed to insure genuine business revival. Confidence in the banking situation is being gradually restored. Definite aid is assured for agriculture. Reorganization of transportation facilities is being pushed to early completion. Reclamation and reforestation are under way. It would seem inevitable that business in general will soon begin to show improvement. Already it is being felt in some directions and while it may yet require several months for the full effect to be translated into actual bookings by Westinghouse, your management believes that the situation at this time is encouraging."

EMERGENCY ACT IN EFFECT AT LAGUNA

An emergency ordinance passed by the city council of Laguna Beach provides that all persons, firms or corporations that have been operating from a fixed place of business as contractors on building work or other construction, for at least 60 days, will pay the regular yearly license fee of \$15. All other general contractors, not coming within this classification, must pay \$100 and all subcontractors \$50.

A resolution adopted at the same time provides that if any contractor or subcontractor desires to employ any person who has not lived in Laguna Beach or within five miles of its borders for a period of at least 30 days he may do so by first obtaining a permit from the building inspector to make such employment upon payment of a fee of \$25 for each such employe.

PAINT INDUSTRY IN RAPID GAIN SURVEY INDICATES

A sudden reversal of trend in the paint industry during April is reported by Dun and Bradstreet, Inc., in a survey of this field just completed.

During the first quarter of the current year, both production and distribution of paints receded to nearly the lowest level in the history of the industry. The dollar total of sales for that period was approximately 25 percent under the comparative record of 1932, while the decrease in gallonage ranged from 5 to 10 percent, the survey reported.

"There was a sudden reversal in the trend in April, however, sales running nearly one-third larger than in March. The gain in distribution is being extended constantly, and if weather conditions continue favorable this will be one of the best seasons in many years for the paint trade.

"As there has been so little painting done during the last three years," the survey continues "when the demand once gains its full force it will be marked and sustained over a long period. Much work already is in prospect, as the broadening trend of general business, supported by wider employment and higher wages, is giving the public new purchasing power. Availability of cheap labor and the necessity for protecting weather-worn surfaces, long neglected, are expected to increase substantially the use of paint products during the balance of the season.

"The paints sold during April were chiefly for inside work, as the rainy weather retarded many of the outside jobs. Interior enamels and washable wall finishes continue popular, both in amateur and professional application. Current sales on the other hand, are in exterior house paints, with materials for industrial buildings and institutions bulking large. The various 'Renovizing' campaigns which are being conducted by civic organizations are stimulating sales to some extent. As prospects of new construction are subnormal, the principal volume must come for repair and alteration work. Prepared outside paints are, in a large degree, replacing the use of lead and oil."

RAISE CONTRACTORS' LICENSE IN GILROY

New license fees for non-resident general contractors and sub-contractors were adopted at a special meeting of the Gilroy city council recently.

The fees are as follows:

For general contractors not having a fixed place of business in the city of Gilroy, \$150 per year; sub-contractors, not having a fixed place of business in the city of Gilroy, \$50.

Heretofore outside contractors have been permitted to take contracts in Gilroy without a difference in the license fees paid by local contractors.

ARMY ENGINEER APPROVES SOUTH BAY DREDGING

**Channels and Turning Basin
In San Jose Development
Recommended**

San Francisco bay dredging projects to cost \$560,000 have been recommended as part of the San Jose port development by Maj. Gen. Lytle Brown, chief of army engineers.

Before the Federal government will proceed local interests must appropriate \$260,000 as a share of the cost.

A 500-foot channel, 27 feet deep across San Bruno shoals, south of Hunters Point and a 300-foot channel 27 feet deep from the mouth of the Guadalupe river are advised by General Brown. The government would also create a turning basin 600 by 1200 feet and 30 feet deep at the lower end of the Guadalupe channel.

The San Jose Port Association has been formed to represent local interests in the port development.

Redwood City harbor improvement will be an issue on the June 27 ballot, it was decided by the San Mateo county supervisors who approved submission of an enabling measure at the special election.

The supervisors acted on a petition of citizens for a ballot on the proposal to create a harbor district.



In San Francisco

A welcoming room...an enterprising chef...a Union Square location (and that says volumes if you know your San Francisco) ...These are among the Plaza features that will brighten the days of your visit here + +

RATES: \$2 to \$4

RAY MAXWELL, Manager

**HOTEL
PLAZA**
POST STREET AT STOCKTON
SAN FRANCISCO

PERMITS AND CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
327	Witt	Blincoe	4000
328	McMillen	Owner	2000
329	Conlin	Mooney	1475
330	Pacific	Regal	11000
331	Hermitte	Johnson	3500
332	Krieg	Owner	2500
333	Arnott	Owner	8000
334	Arnott	Owner	4000
335	Arnott	Owner	4500
336	Cuneo	Owner	2500
337	Standard	Owner	3500
338	Whitney	Owner	2000
339	Green	Lindsay	3800
340	Geheran	Owner	3500
341	Stapleton	Oliva	5500
342	Balzarini	Carraro	2850
343	Fritze	Jacks	6000
344	Siri	Vannucci	25000
345	De Boer	Papenhausen	1500

DWELLING

(327) E TWENTY-SEVENTH AVE. 475 N Fulton St. One-story and basement frame dwelling.
Owner—Mrs. Witt, % Contractor.
Architect—Not Given.
Contractor—C. O. Blincoe, 2663 15th Ave., San Francisco. \$4000

ALTERATIONS

(328) NO. 46 GEARY ST. Alter stores.
Owner—Mrs. L. B. McMillen, % Architect.
Architect—F. Whitten, 369 Pine St., San Francisco. \$2000

REPAIRS

(329) 418 NATOMA ST.; repair fire damage to shop.
Owner—W. Conlin, 418 Natoma St.
Architect—Not Given.
Contractor—W. J. Mooney, 68 Belcher Street. \$1475

ALTERATIONS

(330) NO. 811-13-15 MARKET ST. Alter mezzanine and store front.
Owner—Pacific Co., Pacific Bldg., San Francisco.
Engineer—Ellison & Russell, Pacific Bldg., San Francisco.
Contractor—Regal Showcase & Fixture Co., 540 McAllister St., San Francisco. \$11,000

DWELLING

(331) E SHAFTER 100 N Jennings. One-story and basement frame dwelling.
Owner—E. Hermitte, 1414 Shafter St., San Francisco.
Plans by Contractor.
Contractor—G. H. Johnson, 942 Capp St., San Francisco. \$3500

DWELLING

(332) W TENTH AVE 250 S Ortega. One-story and basement frame dwelling.
Owner—P. Krieg, 551 21st Ave., San Francisco.
Plans by Owner. \$2500

DWELLINGS

(333) E TWENTY-SIXTH AVE 218 N Ocean Ave. Two one-story and basement frame dwellings.
Owner—J. A. Arnott & Son, 633 Taraval St., San Francisco.
Plans by Owner. \$4000 each

DWELLING

(334) E TWENTY-SIXTH AVE 350 N Ocean Ave. One-story and basement frame dwelling.
Owner—J. A. Arnott & Son, 633 Taraval St., San Francisco.
Plans by Owner. \$4000

DWELLING

(335) E TWENTY-SIXTH AVE 306 N Ocean Ave. One-story and basement frame dwelling.
Owner—J. A. Arnott & Son, 633 Taraval St., San Francisco.
Plans by Owner. \$4500

DWELLING

(336) W TALBERT 150 S Visitacion. One-story and basement frame dwelling.
Owner—J. B. Cuneo, 119 Schwerln St., San Francisco. \$2500

DWELLING

(337) W ARDENWOOD 87 N Sloat Blvd. One-story and basement frame dwelling.
Owner—Standard Bldg. Co., 218 Castenada St., San Francisco.
Plans by Owner. \$3500

DWELLING

(338) S UNION 69 E Jones. One-story and basement frame dwlg. St., San Francisco.
Owner—C. Whitney, 74 Macondray
Architect—Not Given. \$2000

DWELLING

(339) W FIFTEENTH AVE. 125 N Wawona St. One-story and basement frame dwelling.
Owner—L. E. Green, 295 18th Ave., San Francisco.
Plans by Owner.
Contractor—B. C. Lindsay, 183 Oxford St., San Francisco. \$3800

DWELLING

(340) W TWENTY-FIFTH AVE 125 N Judah St. One-story and basement frame dwelling.
Owner—F. P. Geheran, 1212 11th Ave., San Francisco.
Architect—Not Given. \$3500

FLATS

(341) E FUNSTON AVE 100 S Kirkham St. Two-story and basement frame (2) flats.
Owner—A. Stapleton, 35 Lapidge St., San Francisco.
Architect—Not Given.
Contractor—J. Oliva, 542 Vienna St., San Francisco. \$5500

DWELLING

(342) NE FELTON AND BOWDOIN Sts. One-story and basement frame dwelling.
Owner—F. Balzarini, 648 Felton St., San Francisco.
Plans by Owner.
Contractor—G. Carraro & Sons, 750 Felton St., San Francisco. \$2350

ALTERATIONS

(343) 2910 LAKE ST.; alter dwelling.
Owner—A. Fritze, 2910 Lake St.
Architect—Hyman and Appleton, 68 Post Street.
Contractor—Jacks & Irvine, Call Bldg. \$6000

ALTERATIONS

(344) N BUSH 106 W Webster; alter garage.
Owner—Siri Bros., 2140 Bush St.
Engineer—H. C. Baumann, 251 Kearny Street.
Contractor—Vannucci Bros., 1875 San Bruno Ave. \$25,000

ALTERATIONS

(345) 2410 MISSION ST.; alter store for restaurant.
Owner—R. De Boer, 2410 Mission St.
Architect—Not Given.
Contractor—H. Papenhausen, 595 Victoria St. \$1500

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
174	O'Hoga	Haulman	2900
176	Pfrang	Pfrang	5000
177	Mangini	Salvaressa	3000
178	Shemanski	Swanson	3000
175	Rheem	Christensen	2900
179	Dehies	Windsor	5000
180	Van Lohen	Owner	1500
181	Johnson	Kaker	4750
182	Clark	Beckett	1500
183	Campi	Cisero	4500
184	Lincoln	Owner	5000
185	Pfrang	Owner	5000

DWELLING

(174) NO. 2114 PACIFIC AVENUE, ALAMEDA. One-story five-room frame and stucco dwelling.
Owner—Z. M. O'Hoga, 2114 Pacific Ave., Alameda.
Plans by P. Royal Haulman, 1243 Broadway, Alameda.
Contractor—P. Royal Haulman, 1243 Broadway, Alameda. \$2900

DWELLING

(176) E TULARE ST. 100 N Sonoma St., BERKELEY. One-story 6-room frame dwelling and garage.
Owner—C. J. Pfrang, 6300 Claremont Ave., Berkeley.
Architect—Not Given.
Contractor—C. J. Pfrang, 6300 Claremont Ave., Berkeley. \$5000

DWELLING

(177) NO. 5721 HERMAN ST., OAKLAND. One-story 5-room dwlg.
Owner—G. Mangini, Premises.
Architect—Not Given.
Contractor—John Salvaressa, 5103 Shafter Ave., Oakland. \$3000

STATION

(178) NO. 2400 E-FOURTEENTH ST. OAKLAND. One-story brick and concrete super-service station.
Owner—I. Shemanski, San Francisco.
Architect—Not Given.
Contractor—A. W. Swanson, 3006 Laguna Ave., Oakland. \$3000

ALTERATIONS

(175) 9 SEA VIEW, PIEDMONT; alterations.
Owner—D. L. Rheem, premises.
Architect—Not Given.
Contractor—H. J. Christensen, 1955 Webster St., Oakland. \$2900

DWELLING

(179) GRIZZLY PEAK Blvd. 79 ft. N Hilldale Ave., BERKELEY; 1-story 6-room frame dwelling and garage.
Owner—E. H. Delius, 806 San Carlos, El Cerrito.
Architect—W. A. Rich, Orinda, Calif.
Contractor—Geo. Windsor, 928 Kingstons Ave., Piedmont. \$5000

ADDITION

(180) 2600 TELEGRAPH AVE., OAKLAND; brick addition.
Owner and Builders—J. J. and J. T. Van Loben Sais, 2747 Woolsey St., Berkeley.
Architect—Not Given. \$1800

DWELLING

(181) 887 TRESTLE GLEN ROAD, OAKLAND; 1-story 6-room dwelling.
Owner—Miss H. Johnson.
Architect—Fabre & Hildebrand, 110 Sutter St., San Francisco.
Contractor—W. J. Baker, 225 Ransome Ave., Oakland. \$4750

GARAGE (182) NO. 700 PARU ST., ALAMEDA One-story brick and concrete garage and storeroom. Owner—Mrs. A. V. Clark, Premises. Architect—Ray F. Keefer, 770 Wesley Ave., Oakland. Contractor—A. T. Beckett, 224 Scenic Ave., Piedmont. \$1500

APARTMENTS (73) NW UNION AND OCTAVIA W 26-7 N 80-1. All work for three-story and basement frame apartment building and store. Owner—Emile J. Pierron. Architect—Fabre & Hildebrand, 110 Sutter St., San Francisco. Contractor—De Luca & Son, 320 Market St., San Francisco. Filed May 29, '33. Dated May 27, '33. Roof sheathing on.....\$3139 Rough coat on..... 3139 When completed 3139 Usual 35 days..... 3140 TOTAL COST, \$12,557 Bond, \$6278.50. Sureties, A. Wochtar and A. Esmiol. Limit, 105 days. Forfeit, \$15 per day. Plans and specifications filed.

DWELLING (183) NO. 759 FORTY-FIRST ST., OAKLAND. One-story six-room dwelling. Owner—Luigi Campi, 586 47th St., Oakland. Architect—Not Given. Contractor — John Cisero, 474 42nd St., Oakland. \$4500

KITCHEN EQUIPMENT (69) THOSE TWO CITY BLOCKS bounded by Van Ness Ave, Franklin, McAllister and Grove Sts., including Fulton and Ash Sts., bet. Van Ness Ave. and Franklin and Birch St. which streets have been closed by City Ordinance. Furnish and install kitchen equipment for Veterans Building for the War Memorial. Owner—The Board of Trustees of the War Memorial of San Francisco, 250 Bush St., San Francisco.

STORE (184) NO. 2201 E-FOURTEENTH ST. OAKLAND. Two-story store and office building. Owner—H. Lincoln & Sons Co., 1309 Stannage Ave., Berkeley. Architect—Not Given. \$5000

Architect—Arthur Brown Jr., Architect G. Albert Lansburgh, collaborating architect, 251 Kearny St., San Francisco. Contractor—W. M. Derbyshire (as Ace Sheet Metal Works), 444 Clementina St., San Francisco. Filed May 26, '33. Dated May 9, '33. On or before 10th of ea. month 75% Usual 35 days..... 25% TOTAL COST, \$2061 Bond, \$1031. Surety, Continental Casualty Co. Limit, 45 days. Forfeit, none. Plans and specifications filed.

DWELLING (185) 5331 GOLDEN GATE AVENUE, OAKLAND; two-story six-room dwelling. Owner and Contractor—H. C. Pfrang, 5659 Ocean View Drive, Oakland. Architect—Not Given. \$5000

ALAMEDA COUNTY 23 Johnson Baker 4554

RESIDENCE (23) LOT 33 BLOCK 3, map entitled Lakeshore Glen, Oakland; all work on one-story, attic and basement frame residence. Owner—Hannah Johnson, 951 Sunnyhills Road, Oakland. Architect—Fabre and Hildebrand, 110 Sutter St., San Francisco. Contractor—W. J. Baker, 2255 Ransome St., Oakland. Filed May 31, '33. Dated May 29, '33. Roof sheathing on.....\$1138 Rough coated plaster on..... 1138 Completed & accepted..... 1139 Usual 35 days..... 1139 TOTAL COST, \$4554 Bond, \$2277. Sureties, W. J. Baker, Walter S. Scammel, P. Breitkoff. Limit, 95 days. Plans and Spec. filed.

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

Table with 3 columns: Contractor Name, Address, Amount. Includes Griffin, Jewish, War Memorial, Mission, Bohemian, Fritze, Pierron.

ALTERATIONS (66) SW TWENTY-FIRST A N D Florida Sts. known as 900 21st St. All work for alterations to fire damage.

Owner—Thomas J. and Mary Griffin, 21st St. near Hampshire St., San Francisco. Architect—Not Given. Contractor—Thos. J. Broderick, 1528 Cypress St., Burlingame. Filed May 26, '33. Dated May 22, '33. Rough frame up.....\$2430 Building enclosed, roof on..... 2430 When plastered 2430 On completion 2430 Usual 35 days 545 TOTAL COST, \$12,150

Bond, \$——. Limit, 80 days. Forfeit, plans and specifications, none.

KITCHEN EQUIPMENT (67) NW CALIFORNIA ST. A N D Presidio Ave. Furnish all kitchen and pantry equipment.

Owner—Jewish Community Center of San Francisco, 121 Haight St., San Francisco. Architect—Arthur Brown Jr., Samuel L. Hyman and A. Appleton, 251 Kearny St., San Francisco. Contractor—Dohrmann Hotel Supply Co., 972 Mission St., San Francisco Filed May 26, '33. Dated May 19, '33. On completion 75% Usual 35 days..... 25% TOTAL COST, \$4210 Bond, \$4210. Surety, Pacific Idemnity Co. Limit, forfeit, none. Plans and specifications filed.

(68) FURNISH ALL SODA FOUNTAIN equipments on above. Contractor—Mullen Manufacturing Co. 64 Ransch St., San Francisco. Filed May 26, '33. Dated May 19, '33. On acceptance of work..... 75%

HEATING (70) NO. 2668 MISSION ST. All work for heating and ventilating system.

Owner—Mission Lodge Masonic Hall Assn., 2668 Mission St., S. F. Consulting Engineer—A. R. McLaren, Hearst Bldg., San Francisco. Contractor—The Holly Heating Co., 141 Steiner St., San Francisco. Filed May 26, '33. Dated May 15, 1933. Delivery of materials in bldg.....\$545 On completion 545 Usual 35 days..... 545 TOTAL COST, \$1635 Bond, limit, forfeit, none. Plans and specifications filed.

CLUB BLDG. (71) NE POST and Taylor N 183-4 to S Hobart Alley E 91-8 S 45-10 E 13-4 S 137-6 to N Post W 105 to beg; materials and labor for Bohemian Club Bldg.

Owner—Bohemian Club, NE Post and Taylor Streets. Architect—Lewis P. Hobart, Crocker Building. Contractor—Dinwiddie Const. Co., Crocker Bldg. Filed May 27, '33. Dated May 26, '33. 10th of each month, 85% of preceding month's work. Completion, balance of 85% of contract price. Usual 35 days.....15% TOTAL COST, \$574,585 Limit, 13 months after vacation of present building. Specifications filed.

ALTERATIONS (72) NO. 2910 LAKE ST. All work for alterations and additions to residence.

Owner—August Fritze. Architect — Samuel Lightner Hyman and A. Appleton, 68 Post St., San Francisco. Contractor—Jacks & Irvine, 74 New Montgomery St., San Francisco. Filed May 29, '33. Dated May 27, '33 On 5th day of each month payment to cover the amount of moneys actually paid out on said building..... Usual 35 days, final payment..... TOTAL COST, \$6176 plus \$617 for supervising work. Bond, limit, forfeit, none. Plans and specifications filed.

SAN FRANCISCO UNDER \$1000

- ALTER storeroom for restaurant, \$350 1101 Ocean Ave.; owner, Mrs. A. Prosek, 1101 Ocean Ave. SIGN, cloth, \$50; 813 Market St.; owner, Chas. Brown & Son, 813 Market St.; contractor, Osthoff & Co., 501 3rd. ALTER fruit stand, \$200; W Bayshore 100 S Woolsey; owner, L. Castagnetto, 121 Britton. ALTER flats and store, \$1400; South Hayes 50 E Gough; owner, W. Wurm, 350 Gough St.; architect, R. M. Hamill, 6211 Geary St. ALTER dwelling, \$200; 512 2nd Ave.; owner, C. H. Schroeder, 512 2nd Ave.; contractor, Standard Bldg. Const. Co., 3025 Geary St. REPAIR fire damage to dwelling, \$81; 106 3rd Ave.; owner, Mr. Greensfeld, 106 3rd Ave.; contractor, I. W. Coburn, 2048 Market St. ALTER dwelling, \$100; 311 Hoffman Ave.; owner, Dr. F. D. Ashworth, 311 Hoffman Ave.; contractor, F. M. Kimball, 971 Church St. ALTER restaurant, \$75; 1215 Stockton St.; owner, Mrs. A. Sanchez, 1215 Stockton St. BARBER pole, \$20; 237 Cortland Ave.; owner, H. McGuire, Premises. ALTER sandwich shop, \$25; 55 Third St.; owner, F. J. Usher, Premises. ALTER market, \$750; 677 Bush St.; owner, H. Dragon, 2820 Van Ness Ave.; architect, Fabre & Hildebrand, 110 Sutter St. ALTER flats, \$80; NW Olive and Laguna Sts.; owner, K. Huber, 637 McAllister St. ADD to dwelling, \$240; 588 Cordova St.; owner, W. Herzie, Premises; contractor, C. Lidusay, 1 Naylor. SIGN, electric, \$150; 705 Geary St.; owner, G. Zervas, 705 Geary St.; contractor, Brumfield Elec. Sign Co., 965 Folsom St. ALTER dwelling, \$500; 370 18th Ave.; owner, California Bldg. & Loan Co., Hersch Bldg.

BUILDING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

- | | |
|---------------------------------|---|
| 1.—Apartments | 11.—Ice and Cold Storage Plants |
| 2.—Bonds | 12.—Power Plants |
| 3.—Churches | 13.—Public Buildings, Fire Houses and Jails |
| 4.—Factories and Warehouses | 14.—Residences |
| 5.—Flats | 15.—Schools |
| 6.—Garages and Service Stations | 16.—Banks, Stores and Offices |
| 7.—Federal Buildings | 17.—Theatres |
| 8.—Club Buildings | 18.—Wharves & Docks |
| 9.—Hospitals | 19.—Misc. Const. |
| 10.—Hotels | 20.—Misc. Supplies & Materials |

1—APARTMENTS

Plans Being Figured.
REMODEL Cost, \$30,000
SAN FRANCISCO. No. 1164 Market Street.
 Remodel four-story concrete loft building for apartments (add one story, 30 2-room apts., 4 stores).
 Owner—A. W. Wilson.
 Architect—C. A. Meussdorffer, Humboldt Bank Bldg., San Francisco.

Plans Being Prepared.
APARTMENTS Cost, \$300,000
BREMERTON, Washington. Fourth Avenue near Pacific St.
 Twelve-story brick veneer apartment with cast stone trim (25-car garage); laundry in basement, coffee shop and stores, dining room, banquet hall, ballroom, beauty shop, etc.
 Owner—Navy Development Syndicate, Inc. (George V. Whittle, Smith Tower, Vice-President).
 Architect—Louis Baeder, 1615 Smith Tower, Seattle, Washington.
 Bids will be asked shortly.

Contract Awarded.
APARTMENTS Cost, Approx. \$13,000
SAN FRANCISCO. Union and Octavia Streets.
 Three-story and basement frame and stucco apartments (5 4-rm. apts.) tile and composition roof, gas steam heating system, hardwood floors and trim, tiled baths, electric refrigeration, etc.
 Owner—E. J. Pierron.
 Architect—Fabre and Hildebrand, 110 Sutter Street.
 Contractor—DeLuca & Son, 320 Market Street.

2—BONDS

LOS ANGELES, Cal.—No bids received by County Supervisors May 29 to purchase bonds of County Street Opening District No. 95 in the sum of \$31,862.71. Bonds are dated March 11, 1933, and bear interest at 6%. Mame B. Beatty, 501 Hall of Records, Clerk of the Board.

3—CHURCHES

Concrete Contract Awarded.
CHURCH Cost, \$7500
TURLOCK, Stanislaus Co., Cal. Third and A Streets.
 One-story and basement reinforced concrete church (48x96 ft.) balcony to seat 125, auditorium to seat 475 (16 ft. walls in auditorium and 8 ft. walls in basement).
 Owner—Pentecostal Mission Church

(Church C. Nelson, Pastor), Turlock.
 Plans by Mr. Hillberg.
 Contractor—C. A. Hillberg, Turlock.
Concrete—H. Johanson, Turlock.
 Other awards will be made within a few days.

4—FACTORIES & WAREHOUSES

Contract Re-Awarded.
REMODELING Cost, \$16,000
EUREKA, Humboldt Co., Cal. Broadway.
 Remodel brewery (repaint, clean and replace some brick work, recondition machinery, installation of new machinery, steel and wood tanks, new bottle house equipment, new electrical equipment, new wiring, switchboard and motors, etc.; capacity of 70,000 to 100,000 barrels per year).
 Owner—Humboldt Brewery Co. (H. C. Howe, president; G. H. Mullin, et al, 5th floor, Russ Building, San Francisco).
 Architect—Not Given.
 Contractor—Barrett & Hilt, 918 Harrison St., San Francisco.
 Previously reported as being awarded to Mercer-Fraser Co., Eureka.

Contract Awarded.
REMODEL Cost, \$50,000
SEATTLE, Wash. 5225 E Marginal Way.
 Alterations to three-story brick building for brewery.
 Owner—Hemrich Brewing Company.
 Architect—John Graham, Dexter-Horton Bldg., Seattle.
 Contractor—Henrikson-Alstrom Const. Co., Inc., Textile Tower, Seattle.
 Contract Awarded.
LAUNDRY Cost, \$7370
HOLLISTER, San Benito Co., Cal.
 One-story reinforced concrete laundry.
 Owner—Model French Laundry.
 Plans by E. C. Griffin, Hollister.
 Contractor—J. J. Cordoza, Fairview Road, Hollister.

Plans Completed.
FACTORY Cost, \$—
SAN FRANCISCO. Islals Creek.
 One-story concrete iron factory (concrete foundations) approximately 200 feet in length.
 Owner—George Windeler Co., Ltd., 8th and Hooper Sts., San Francisco.
 Architect—Resing & McGulness, 488 Pine St., San Francisco.
 Bids will be asked shortly on a segregated bid basis.

Sub-Contracts Awarded.
REMODEL Cost, \$10,000
SAN FRANCISCO. No. 920 Market Street.
 Remodel basement of Class C store for ice cream manufacturing plant (partition work, heating, wiring, painting, plastering, refrigeration, etc.)
 Owner—S. H. Kress Company.
 Plans by Engineering Dept. of Owner.
 Contractor—Dinwiddie Construction Co., Crocker Bldg., S. F.
Orametal Iron—Monarch Iron Works, 262 Seventh St.
Plastering—Wm. Makin, 2141 Livingston, Oakland.
Sheet Metal and Ventilating—Ace Sheet Metal Co., 444 Clementina St.
Structural Steel—Western Iron Works 141 Beale St.
Masonry—Wm. Rainey, 323 Clementina St.

Plumbing—O'Mara & Stewart, 218 Clara St.

Grading Under Way.
PLANING MILL Cost, \$—
EMIGRANT GAP, Placer Co., Cal.
 Planing mill (mill frame construction, galvanized iron cover).
 Owner—Tahoe Sugar Cane Pine Lbr. Co., Monadnock Bldg., San Francisco.
 Engineer—W. H. Beane, Klamath Falls, Oregon.
 Grading is now under way by owner's own forces.

Completing Plans.
CREAMERY Cost, \$18,000
KLAMATH FALLS, Oregon.
 One-story and basement brick and stucco creamery (50x150) freight elevator, concrete basement and footings.
 Owner—Withheld.
 Architect—Howard R. Perrin, Underwood Bldg., Klamath Falls.
 Bids will be taken June 5.

LOS ANGELES, Cal.—Until June 21, 2 P. M., bids will be received by State Highway Commission, Public Works Bldg., Sacramento, for the erection and completion of a maintenance station building in Los Angeles County at Los Alamos, about 9 miles south of Gorman, consisting of the following group of buildings and appurtenances:
 Superintendent's cottage.
 Cook house.
 Bunkhouse.
 Truck shelter.
 Blacksmith shop.
 Gasoline and oil house.
 Generator house.
 Septic tank and leaching field.
 Station sign.
 Fencing.
 Electric distribution system.
 Water and gas pipe line and connections.
 Work of this contract comprises:
 Excavation.
 Concrete and masonry work.
 Carpentry and mill work.
 Lathing and plastering.
 Sheet metal work.
 Steel sash.
 Roofing, painting and glazing.
 Plumbing and electric installation.
 Specifications obtainable from above office on deposit of \$25.

Contract Awarded.
REPAIRS Cost, \$1500
SAN FRANCISCO. 418 Natoma St.
 Repair fire damage to shop.
 Owner—W. Conlin, 418 Natoma St.
 Architect—O'Brien Bros. and W. D. Peugh, 333 Montgomery St.
 Contractor—W. J. Mooney, 68 Belcher Street.

May 29, 1933
 Commissioned To Prepare Plans.
ALTERATIONS Cost, \$75,000
KLAMATH FALLS, Oregon.
 Alterations to brewery (installation of new machinery, etc.)
 Owner—Klamath Brewing Co. (Chris Blancos, president).
 Architect—J. W. De Young, 350 Salmon St., Portland.

To Be Done By Day's Work.
DAIRY, ETC. Cost, \$5000
SAN MATEO, San Mateo Co., Calif.
 Ninth Avenue Extension.
 Dairy, barn and residence (frame construction).
 Owner and Builder—Charles Mienen, premises.

Plans Being Figured.

PLANT Cost, \$45,000
VISALIA, Tulare Co., Cal. Ben Madcox Way.

One-story and basement walnut packing plant (120x90 ft.) several mezzanine floors, concrete foundations, basement floor and loading platform, wood frame construction, roofing, sheet metal skylights, redwood siding, wood sash, factory grade maple main floor, toilets, etc.

Owner—Sequoia Walnut Grower' Association (Fletcher Ayres, President), Visalia.

Architect—Albert C. Martin, Higgins Bldg., Los Angeles.

Following contractors will submit bids:

John J. Cavanagh, 219 N. Sutter St., Stockton.

J. J. Bedel, Visalia.

L. C. Clark, Visalia.

C. A. Flowers, 145 N. D St., Tulare.

A. M. Rumley, Tulare.

T. B. Runciman, Exeter.

T. C. Irwin, 269 North Fulton St., Fresno.

Fisher & McNulty, Mattei Bldg., Fresno.

Earl Bowen, Strathmore.

Planned.

REMODEL Cost, \$—
SACRAMENTO, Sacramento Co., Cal. Thirtieth and Q Streets.

Remodel building for brewery.

Owner—Capital Brewing Co. (S. E. Watson, E. J. Blossom, Marysville and Jack Hogan, San Francisco).

Architect—Not Given.

SAN FRANCISCO—The Milwaukee Brewery Company, 490 10th St., has purchased property adjoining its present plant at Tenth and Bryant Sts. New improvements will be made but plans are now in a very preliminary stage. Further details will be announced shortly.

Plans Being Prepared.

ADDITION Cost, \$25,000
SAN FRANCISCO. No. 5950 Mission Street.

Additions to brewery (heavy timber construction, concrete floors and foundations, gravel roofing, etc.) malt house, brew house, fermenting house, etc.

Owner—El Rey Brewing Co. (E. J. Preston, President), Palace Hotel.

Architect—E. A. Mathews, Call Bldg., San Francisco.

To Be Done By Day's Work By Owner
ALTERATIONS Cost, \$—
SAN FRANCISCO. No. 555 Francisco Street.

Alterations to one-story reinforced concrete garage for creamery (45x55 ft.) reinforced concrete and hollow tile partitions, concrete platform, etc.

Owner—F. Torre, Premises.

Plans by Owner.

Wrecking Contract Awarded.

PLANT Cost, \$50,000
SAN FRANCISCO. Washington and Jessop Streets.

Two-story reinforced concrete printing plant.

Owner—Edward Barry Co., 32 Clay St., San Francisco.

Architect—H. A. Minton, 525 Market St., San Francisco.

Engineer—L. H. Nishkian, 525 Market St., San Francisco.

Contractor—David Paganini, 519 California St., San Francisco.

Wrecking—H. Misrack, 575 Sixth St., San Francisco.

Planned.

ADDITION Cost, \$—
OAKLAND, Alameda Co., Cal. Municipal Airport.

Galvanized iron addition to east apron of hangar No. 5 (9x32 ft.), to be used for storage of equipment and materials.

Owner—City of Oakland Port Commission.

Plans by Engineering Dept. of Owner. Lessee—Pacific Air Transport.

Contract Awarded.

WAREHOUSE, ETC. Cost, \$—
SAN FRANCISCO. No. 447-453 Broadway.

Three-story Class C brick and steel warehouse, manufacturing factory hotel and three stores.

Owner—E. Parducci and P. Domenici, 505 Sansome St., San Francisco.

Architect—Irvine & Ebbets (R. R. Irvine, architect), 2048 Market St.

Contractor—Peter Sartorio, 2440 Greenwich St., San Francisco.

Structural Steel—McClintie Marshall Corp., 2050 Bryant St., S. F.

Reinforcing Steel—W. S. Wettenhall, 17th and Wisconsin Sts., S. F.

Painting, plumbing, electrical and plastering contracts not included in the general bid.

5—FLATS

Bids Opened.

GARAGES Cost, \$—
SAN FRANCISCO. Presidio.

Eleven brick garages (tile roofs, overhead doors, concrete floors).

Owner—United States Government.

Plans by Constructing Quartermaster, Fort Mason, San Francisco.

Low Bidder—E. Bradshaw.

Garages will be built in two groups of 7 and 4.

Following bids received:

E. Bradshaw, 531 Oak St., El Cerrito	\$3215
Wm. Spivock	3337
Leo Epp	3490
A. Nelson	3690
F. J. Reilly	3741
T. H. Johanns	3818
R. G. Gidder	3885
A. G. Reed	4000
Val Franz	4116
C. L. Wold	4117
San Francisco Constr. Co.	4200
Larsen & Larsen	4342
Schuler & McDonald	9173

Bids held under advisement.

(1292) 1st report April 25; 2nd May 10, 1933. 6

Plans To Be Revised.

FLATS Cost, \$7000
SAN FRANCISCO. S North Point St. E Webster St.

Two-story and basement frame and stucco flats (two five-room flats) concrete basement, tile and composition roof, hardwood floors, tiled baths, etc.

Owner—Withheld.

Plans by L. Dallorso, 32 Jensen St.

New bids will be asked shortly.

Plastering Bids Wanted.

FLATS Cost, \$7000
SAN FRANCISCO. W Leavenworth St. S North Point St.

Two-story and basement frame and stucco flats (2 5-room flats) tile and composition roof, hardwood floors, tiled baths, etc.

Owner—Withheld.

Plans by L. Dallorso, 32 Jensen St.

Contractor—A. Sangiacomo, 422 Ninth Avenue.

Plumbing—A. Ramazzotti, 1473 Vallejo Street.

Electric—Grandi Electric Co., 3373 Sacramento St.

6—GARAGES & SERVICE STATIONS

Construction To Start Shortly.

SERVICE STATION Cost, \$—
SAN FRANCISCO. Masonic Ave. and Geary Street.

One-story steel service station.

Owner—Union Oil Co., Mills Bldg., San Francisco.

Plans by Engineering Dept. of Owner. Steel Building—Michel & Pfeffer Iron Works, Harrison and Tenth Sts.

Contract Awarded.

SERVICE STATION Cost, \$5000
PLACERVILLE, Eldorado Co., Cal. One-story wood frame and plaster service station.

Owner—Union Oil Co., Mills Bldg., San Francisco.

Plans by Engineering Dept. of Owner.

Contractor—Robert P. Kelly, 2227 20th Ave., San Francisco.

Contract Awarded.

SERVICE STATION Cost, \$3000
OAKLAND, Alameda Co., Calif. 2400 E 14th Street.

One-story brick and concrete super-service station.

Owner—J. Shemanski, San Francisco.

Architect—Not Given.

Contractor—A. W. Swanson, 3906 Laguna Ave., Oakland.

Contract Awarded.

GARAGE Cost, \$35,000
SAN FRANCISCO. N Bush St. 106-3 W Webster St.

Three-story Class B concrete garage (75x127 ft.); concrete floors, 5-year tar and gravel roof, etc.

Owner—Siri Brothers.

Architect—H. C. Baumann, 251 Kearny St., San Francisco.

Contractor—Vannucci Bros. Constr. Co., 1875 San Bruno Ave., San Francisco.

Present one-story building on site will be razed.

Sub-Bids Wanted.

GARAGE Cost, \$35,000
SAN FRANCISCO. N Bush St. 106-3 W Webster St.

Three-story Class B concrete garage (75x127 ft.); concrete floors, 5-year tar and gravel roof, etc.

Owner—Siri Brothers.

Architect—H. C. Baumann, 251 Kearny St., San Francisco.

Contractor—Vannucci Bros. Constr. Co., 1875 San Bruno Ave., San Francisco.

Present one-story building on site will be razed.

Sub-bids are being taken on all portions of the work

7—FEDERAL BUILDING

BOULDER, Colo.—Until Monday, June 12, bids will be received by the Supervising Architect, Treasury Department, Washington, D. C., for elevator hoistway and elevator for the Boulder, Colo., Post Office.

Prospective Bidders.

MAINTENANCE BLDG. Cost, \$—
SAN RAFAEL, Marin Co., Cal. Hamilton Field.

One-story structural steel and concrete maintenance utility shop (68x123.6 feet) asbestos protected metal roof.

Owner—United States Government.

Plans by Constructing Quartermaster, Hamilton Field.

Work involves taking down structural steel from hangar at Mather Field for use in building.

Following have procured plans to date. Bids open June 21st, 2 P. M.:

George Petersen, 1841 Bancroft Way San Leandro.

Scott Co., 243 Minna Street, San Francisco.

J. A. Fazio, 402 Castro St., Oakland.

A. W. Parker, 5526 Morse Drive, Oakland.

Robt. E. McKee, Hamilton Field.

Plans and specifications are on file in the office of Daily Pacific Builder and may be inspected by those interested.

MARCH FIELD, Riverside, Calif.—Until June 14, 10:30 A. M., bids will be received by the Constructing Quartermaster, March Field, for an officers' mess building at March Field. Estimated cost, \$42,000.

- Bids will be taken as follows:
- (1) work complete for building and utilities;
 - (2) deduct for omission of patio, cement paving, garden wall, wall fountain, pool and all curbs and seats;
 - (3) deduct for omission of bedroom and toilet;
 - (4) deduct for omission of the kitchen equipment;
 - (5) unit prices.

The building will be a one-story, irregular shaped structure, containing a large lounge, dining room, kitchen, refreshment room, card room, living quarters and toilet rooms; hollow concrete wall construction, 5-in. concrete floor slab, concrete pool and paving, hollow tile partitions, wood trusses, tile roof, tile flooring and wainscot, wood floors, linoleum, waterproofing, fibre board insulating, quarry and faience tile, marble work, screens, window shades, gas-steam radiators, kitchen equipment, etc.

WASHINGTON, D. C.—Until June 15, 2 P. M., bids will be received by Treasury Department for furnishing and installing window ventilators in the United States Post Office at Casper, Wyoming. Specifications available from above office.

WASHINGTON, D. C.—Construction Division, Army Department, rejected all bids received May 1 for the construction of five technical buildings, etc., to be erected at Albrook Field, Canal Zone. New bids will be advertised at a later date.

June 1, 1933
Preliminary Plans Completed.
POST OFFICE Cost, \$99,000
NORTH HOLLYWOOD, Los Angeles Co., Cal. Chandler Blvd. and Bakman Street.
Class A steel and masonry Post Office (110x85 ft.); Italian style.
Owner—United States Government.
Architect—J. Robert Harris, 6715 Hollywood Blvd., Los Angeles.

YUMA, Ariz.—B. F. McCall Flooring Co., 1156 S Lucerne Blvd., Los Angeles, has been awarded a contract for wood and strip block flooring to be installed in the U. S. post office under construction in Yuma. Bannister-Field Co., 4101 Goodwin Ave., Los Angeles, general contractor.

SUNNYVALE, Santa Clara Co., Cal.—Until June 28, 11 A. M., bids will be received by the Bureau of Yards and Docks, Navy Department, Washington, D. C., for landscaping at the Naval Air Station, Sunnyvale. Specification No. 7255.
7
(1683)

SAN FRANCISCO—Until June 15, 11 A. M., (Dated postponed from June 1) bids will be received by the Constructing Quartermaster, Fort Mason, for extending sewers, water mains, roads, sidewalks and underground electric light distributing line for nine officers' quarters at Fort Mason. Plans and specifications available from above office upon deposit of \$10. Prospective bidders reported May 20. New specifications will be issued.

REDLANDS, San Bernardino Co., Cal.—North-Moller Co., L. P. Scherer, Superintendent, at site, reports additional sub-contracts for the United States Post Office under construction at Redlands awarded as follows: Sheet metal work to Reno Sheet Metal

Works, 1205 S. San Fernando Road, Los Angeles; lathing, plastering and stucco, to Carroll Duncan & Co., 3359 Glendale Blvd., Los Angeles; painting and finishing to Carl F. Ruhnau, 895 Iowa Ave., Riverside. These awards are final for the work under this contract.

SAN FRANCISCO—Guilfoy Cornice Works, 1234 Howard St., at \$213 submitted low bid to Public Works Officer, 12th Naval District, for repairing and replacing skylights and ventilators in the 12th Naval District Headquarters, 100 Harrison St. Specification No. 7321. Following bids received:
Guilfoy Cornice Works.....\$213
Colin & Roberts..... 333
E. Sugarman 374
Epp Sheet Metal Works..... 597
Bids held under advisement.

SAN FRANCISCO—Golden Gate Electric Company, 1526 California St., at \$219 submitted low bid to Public Works Officer, 12th Naval District, for re-arrangement of electric lighting system at the 12th Naval District Headquarters, 100 Harrison St. Specification No. 7320. Following bids received:
Golden Gate Electric Co.....\$219
Lynn & Heffernan 339
W. B. Baker Co..... 346
H. F. Haverkamp.....(365
Electric Service Co..... 420
Bids held under advisement.

LIVERMORE, Alameda Co., Cal.—Jos. J. Burdon, 1426 Macdonald Ave., Richmond, at \$1593 awarded contract by Construction Department, U. S. Veterans Hospital, Livermore, for painting interior of three buildings at the Veterans' Hospital, Livermore.

SAN JOSE, Santa Clara Co., Calif.—Montgomery Elevator Co., Moline, Ill. awarded contract by the Treasury Department at \$4435 to furnish and install an electric elevator in the U. S. post office at San Jose.

SAN FRANCISCO—Golden Gate Electric Co., 1526 California St., at \$219 awarded contract by Twelfth Naval District, for re-arrangement of electric lighting system at the 12th Naval District Headquarters, 100 Harrison St. Specification No. 7320.

SAN FRANCISCO—Guilfoy Cornice Works, 1234 Howard St., at \$213 awarded contract by 12th Naval District for repairing and replacing skylights in ventilators in the 12th Naval District Headquarters, 100 Harrison St. Specification No. 7321.

SUNNYVALE, Santa Clara Co., Cal.—Until June 13, 11 A. M., bids will be received by Public Works Officer, 12th Naval District, 100 Harrison St., San Francisco, for addition to heating facilities in buildings No. 19 and No. 10 at the Naval Air Station, Sunnyvale. Specification No. 7245. Work involves provision and installation of gas fired steam boiler together with necessary piping, fittings, appliances, appurtenances, pipe covering, boiler foundations, etc., for barracks building No. 19 and unit heaters and cast iron radiators, piping, accessories, fittings, etc., for additional heating facilities in helium, re-purification plant, building No. 10. Plans available from above office upon deposit of \$10.

Sketches Completed.
POST OFFICE Cost, \$100,000
HAYWARD, Alameda Co., Cal. NE Watkins and C Streets.
Class A Post Office.
Owner—United States Government.

Architect—Bliss & Fairweather, Balboa Bldg., San Francisco.

Sketches have been forwarded to Washington for approval.

Additional Sub-Contracts Awarded.
POST OFFICE Cost, \$363,660
RENO, Washoe Co., Nevada. No. 21 Mill Street.

Three-story Class A Post Office (terra cotta and stone exterior finish, marble corridors, etc., 190x50 ft.)
Owner—United States Government.
Architect—F. J. DeLongchamps, Gazette Bldg., Reno, Nevada.
Contractor—Macdonald Engineering Co., 149 California St., S. F.
Mill Work—Central Nebraska Milling Co., Omaha, Nebraska.
Sheet Metal—Spencer Service Co., Denver, Colo.
Other awards previously reported.

8—CLUB BUILDINGS

Planned.
HOSPITAL Cost, \$250,000
PORTLAND, Oregon. Marquam Hill Psychopathic hospital.
Owner—State of Oregon.
Architect—Not Selected.

Proposed structure will be erected on a site to be donated by the University of Oregon Medical School. Dr. Richard B. Dillehunt, Dean.

Eids Rejected.
LODGE BLDG. Cost, \$45,000
FRESNO, Fresno Co., Calif. Tuolumne St. and Van Ness Ave.

Two-story stucco and tile lodge (auditorium to seat 800, 2 secondary lodge rooms, banquet hall to seat 300, clubrooms, ballroom, lighting and ventilating systems, etc. (replace lodge destroyed by fire).
Owner—Women of the World (Jas. Nielsen, Clerk) Fresno.
Architect—Ernest J. Kump, Rowell Bldg., Fresno.

Low bidders follow:

Masonry
J. M. Brown, 1837 Merced St., Fresno\$2,761

Steel Work
Kyle & Co., 346 G St., Fresno...\$5,023

Plastering
M. E. Summers, 2417 Belmont, Fresno\$9,300

Plumbing and Heating
Barrett-Hicks Co., 1031 Broadway, Fresno\$2,983

Ventilating and Sheet Metal
Barrett-Hicks Co., 1031 Broadway, Fresno\$2,783

Painting
W. F. Lyons, 3545 Nevada St., Fresno\$3,050

Electric
Wessell Electric Co., 4751 Balch St., Fresno\$6,443
(1) add 800
(2) add 200

Tile and Linoleum
C. E. McMullin, 1225 Broadway, Fresno\$1,310

Roofing
M. Kellner & Son Lbr. Co., Ventura & R Sts., Fresno.....\$ 640

Lumber
Swastika Lumber Co., 102 O St., Fresno\$3,335

Mill Work
Fresno Planing Mill, H & Monterey Sts., Fresno.....\$4,239

Glass
W. P. Fuller Co., Los Angeles and M Sts., Fresno.....\$1,697

All bids received were rejected. Plans are being revised and new bids will be asked shortly.

SAN FRANCISCO—A. R. McLaren, consulting engineer, Hearst Building, awarded contract to the Holly Heating Co., 141 Steiner St., at \$1,635 for a heating and ventilating system to be installed in the Mission Lodge, Masonic Hall Assn., at 2668 Mission St.

Additional Contracts Awarded.
COMMUNITY CENTER
 Contract Price, \$150,512
SAN FRANCISCO, California St. and
 Presidio Avenue.
 Two-story and basement reinforced
 concrete community center.
 Owner—Jewish Community Center, S.
 M. Ehrman, Chairman, 68 Post St.
 Architect—Hyman & Appleton, 68 Post
 St. and Arthur Brown Jr., 251
 Kearny St., San Francisco.
 Contractor—Barrett & Hilp, 918 Har-
 rison St., San Francisco.
Soda Fountain Equipment—Mullen
 Mfg. Co., 64 Rausch St.
Kitchen & Pantry Equipment—Dohr-
 mann Hotel Supply Co., 972 Mis-
 sion St., San Francisco.
 Other awards previously reported.

9—HOSPITALS

Planned.
HOSPITAL Cost, \$5—
ALLEGHANY, Sierra Co., Cal.
 New hospital.
 Owner—Dr. Wallace B. Hardie, All-
 eghany.
 Architect—Not Given.

Commissioned To Prepare Plans.
HOSPITAL Cost, \$150,000
SEDRIC WOOLLEY, Washington.
 Additions to hospital.
 Owner—State of Washington.
 Architect—James E. Blackwell, 1112
 Harvard N., Seattle, and Health,
 Gove and Bell and Moeck & Mor-
 rison, Tacoma, associated.

Bids Wanted—To Close June 5.

REMODEL HOSPITAL Cost, \$25,000
PORTLAND, Oregon. East Second and
 Hassalo Streets.

Remodel five-story Hahnemann Hospi-
 tal (partition work, moderniza-
 tion and rehabilitation of three
 floors.

Owner—Hahnemann Hospital.
 Architect—Hollis Johnston, Meyer
 Bldg., Portland, Oregon.

Bids are being taken for a general
 contract with separate bids for plumb-
 ing and electrical work.

YOUNTVILLE, Napa Co., Cal.—
 Following bids received by State Pur-
 chasing Department, Sacramento, for
 furnishing and installing venetian
 blinds, awnings and window shades
 for the Veterans' Home at Yountville:
 E. C. Shindler, 1114 Main St.,
 Napa.....\$2201.85

D. N. & E. Walter Co., S. F.... 2259.25
 A. J. Ruhlmann, San Francisco 2305.64
 F. E. Turner, San Francisco.. 3759.27
 J. L. Stewart..... 4034.84

Bids held under advisement.

10—HOTELS

Planned.
REMODEL Cost, \$—
KNIGHTS LANDING, Yolo Co., Cal.
 Remodel building for rooming
 house; dining room, poolroom, etc.
 Owner—Dr. T. H. Dixon, Knights
 Landing.
 Architect—Not Given.

Mill Contract Awarded.
HOTEL, ETC. Cost, \$—
KEDDIE, Plumas Co., Cal.

Two-story frame hotel, restaurant and
 general store (to replace building
 recently destroyed by fire).

Owner—Joseph Gerrick & Co., et al.
 74 New Montgomery Street, San
 Francisco.

Private Plans.
Mill Work—Balboa Mill & Cabinet Co.
 100 Havelock St., San Francisco.

Work will be started within one
 week on a day's labor basis.

Contracts Awarded.
IMPROVE HOTEL Cost, \$30,600
STOCKTON, San Joaquin Co., Cal. E
 Weber Street.

Improvements to hotel (re-decorate
 entire building, new cooling sys-
 tem, all 30 new shower baths).

Owner—McDonough Estate, % Bald-
 win and Howell, 318 Kearny St.,
 San Francisco, W. L. Clark, in
 charge).

Plans by Owner.
Ventilating System—Atlas Heating &
 Ventilating Co., 557 4th St., San
 Francisco.

Shower Baths, Etc.—O. H. Chain, 41
 South Sutter St., Stockton.

Bids are being received by owner
 for plumbing, electrical work, etc.

12—POWER PLANTS

LOS ANGELES, Cal.—General Elec.
 Supply Co. awarded contract by Saul
 A. Joseph, Purchasing Agent of the
 Metropolitan Water District, May 24,
 at \$8541.08, to furnish conductor cable,
 f.o.b. Indio, under Bid No. 10754.

LOS ANGELES, Calif.—Until 10 A.
 M., June 9, bids will be received by
 the Metropolitan Water District, 306
 West 3rd St., Los Angeles, to con-
 struct telephone lines in the Hayfield-
 Colorado River Section. The work
 consists of constructing approx. 113
 miles of telephone trunk line and 35
 miles of telephone bracket line, and
 the furnishing and installing of 16
 telephone terminal assemblies and 2
 protective assemblies. The items are:
 (1) construct 7.8 miles trunk line from
 Pole 2092 to Eagle Mt. Junction;
 (2) construct 1 mi. trunk line from
 Eagle Mt. Junction to Division
 No. 3 Headquarters Camp Office;
 (3) construct 15 mi. trunk line from
 Eagle Mt. Junction to the Cox-
 comb Tunnel east portal tap line;
 (4) construct 72.4 mi. trunk line from
 Coxcomb Tunnel, east portal tap
 line to Earp tap line;
 (5) construct 16.8 mi. trunk line from
 Earp tap line to Division No. 1
 Headquarters Camp office;
 (6) construct 35 miles barcket line;
 (7) construct 14 telephone terminal
 assemblies (Drawing E-797);
 (8) construct 2 do (Drawing E-804);
 (9) construct 2 telephone protective
 assemblies (Drawing E-688).

Plans obtainable from engineering
 department, room 1004, 306 W Third
 St., Los Angeles, on payment of \$5
 per set. Certified check or cashier's
 check, \$10,000. Julian Hinds, Acting
 Chief Engineer.

SEATTLE, Wash. — Until June 8,
 10 A. M., (postponed from May 25)
 bids will be received by G. W. Ro-
 bege, Secretary, Board of Public
 Works, Room 511, County-City Bldg.,
 Seattle, to construct power house and
 tail race at Diablo power site, trans-
 mission line between Diablo Power
 Plant and Gorge Plant; assemble,
 erect and adjust power house appa-
 ratus previously purchased for Diablo
 Power Plant; purchase and install ad-
 ditional apparatus and equipment at
 the Diablo Power Plant.

Specifications obtainable from above
 office. Certified check 5% payable to
 City Comptroller required with bid.
 Deposit of \$25 required for plans.
 Bidder must purchase at par and ac-
 crued interest Municipal Light and
 Power bonds for \$2,354,000. Bidders
 shall state rate of interest not to
 exceed 6% per annum.

13—PUBLIC BUILDINGS FIRE HOUSES & JAILS

Preliminary Plans Prepared.
REMODELING Cost, \$175,000

FRESNO, Fresno Co., Cal.
 Remodel civic auditorium (work in-
 volves installation of new concrete
 balconies, fixed theatre seats on
 elevated platform to accommodate
 1200, incide lobby, heating, cooling
 and ventilation system, extelor
 balcony, new maple flooring, ter-
 razzo floors, tile and texture
 plaster, new drapes, lavatories,
 dressing rooms and kitchen).
 Owner—City of Fresno.
 Architect—Charles H. Franklin, T. W.
 Patterson Bldg., Fresno.

FRESNO, Fresno Co., Cal.—O. R.
 Osterode, Lind St., Fresno, at \$3688
 submitted low bid to County Super-
 visors for painting the Fresno County
 Courthouse. Following bids received:
 O. R. Osterode.....\$3688
 M. W. Hancock..... 9399
 Hussey & French..... 9550
 Joe. Stretter..... 9575
 Schutz Painting Co..... 9609
 W. F. Lyon..... 9774
 S. Clayton..... 9824
 Bids held under advisement until
 June 2.

Additional Sub-Contracts Awarded.
ALTERATIONS Cont. Price, \$12,897
SAN FRANCISCO. Municipal Audi-
 torium.

Remodel 3rd and 4th floors of the Mu-
 nicipal Auditorium (house offices
 of the Board of Education).

Owner—City and County of San Fran-
 cisco.

Plans by Bureau of Architecture
 (Charles Sawyer, Architect), City
 Hall.

Contractor—O. Monson, 475 Sixth St.,
 San Francisco.

Sheet Metal—Fire Protection Products
 Co., 1101 16th St., San Francisco.

Marble—American Marble Co., Hobart
 Bldg., San Francisco.

Other awards reported May 23, 1933.

14—RESIDENCES

Contract Awarded.
RESIDENCE Cost, \$4600
OAKLAND, Alameda Co., Cal. Tres-
 tie Glen Road.

One-story and basement frame and
 stucco residence (6 rooms) shingle
 roof, gas heating system, hard-
 wood floors, tiled baths, etc.

Owner—Miss H. Johnson.
 Architect—Fabre & Hildebrand, 110
 Sutter St., San Francisco.

Contractor—W. J. Baker, 2255 Ran-
 some St., Oakland.

Contract Awarded.
RESIDENCE Cost, \$4800
NORTH BERKELEY, Alameda Co.,
 Cal. Hilldale.

Two-story frame residence (6 rooms
 and two baths); wood exterior,
 shingle roof, gas heating system,
 hardwood floors, etc.

Owner—R. M. Sanford.
 Architect—E. L. Snyder, 2102 Shat-
 tuck Ave., Berkeley.

Contractor—J. M. Walker, 1709 Grove
 St., Berkeley.

Contract Awarded.
RESIDENCE Cost, \$—
HILLSBOROUGH, San Mateo Co., Cal.
 Two-story and basement frame and
 stucco residence (11 rooms and 4
 baths); Colonial type, shingle roof,
 gas heat, hardwood floors, tiled
 baths, etc.

Owner—Mr. Milbank.
 Architect—Willis Polk Co. (Angus
 McSweeney, Architect), 227 Pine
 St., San Francisco.

Contractor—A. F. Mattock, 212 Clara
 St., San Francisco.

Sub-Contracts Awarded.
RESIDENCE Cost, \$—
BERKELEY, Alameda Co., Cal. Crag-

mont District.
 One- or two-story frame and stucco residence.
 Owner and Builder—Milton Bonds, 296 Hilgard St., Berkeley.
 Plans by W. W. Dixon, 1844 5th Ave., Oakland.
 Tile—Superior Tile & Products Co., 3743 Broadway, Oakland.
 Plumbing—Sundermann Plumbing Co., 921 University Ave., Berkeley
 Lumber—Hogan Lumber Co., 2nd and Alice Sts., Oakland.
 Excavation—2208 Roosevelt Avenue, Berkeley.
 Sub-bids are being taken on other portions of the work.

Plans Being Prepared.
 RESIDENCE Cost, \$—
 WATSONVILLE, Santa Cruz Co., Cal.
 Two-story frame, plaster and brick veneer residence (7 rooms and 3 baths) wood shingle roof, gas hot air heating system, wood sash, tiled baths, hardwood floors, etc.
 Owner—Dr. E. H. Eiskamp, Watsonville.
 Architect—W. W. Wurster, 260 California St., San Francisco.
 Bids will be asked shortly from a selected list of contractors.

Plans Being Prepared.
 RESIDENCE Cost, \$—
 ROSS, Marin Co., Cal.
 One-story and basement frame and brick veneer residence (6 rooms) redwood shaw roof, oil hot air heating system, hardwood floors, tiled bath, hardwood floors, etc.
 Owner—Victor E. Kleven.
 Architect—W. W. Wurster, 260 California St., San Francisco.
 Bids will be asked shortly from a selected list of contractors.

Contract Awarded.
 RESIDENCE Cost, \$80,000
 WOODSIDE, San Mateo Co., Cal.
 Two-story & basement frame, stucco and brick veneer residence (20 rooms and 10 baths).
 Owner—Walter Buck.
 Architect—Farr & Ward, 68 Post St., San Francisco.
 Contractor—F. C. Stolte, 3449 Laguna St., Oakland.

To Be Done By Day's Work.
 RESIDENCES Cost, \$5000 each
 SAN FRANCISCO. E Twenty-sixth Ave. N Ocean Ave.
 Four one-story and basement frame and stucco residences.
 Owner and Builder—J. A. Arnott & Son, 633 Taraval St., S. F.
 Plans by Owner.

Sub-Contracts Awarded.
 RESIDENCE Cost, \$8500
 PIEDMONT, Alameda Co., Cal.
 Two-story and basement frame and stucco residence.
 Owner—H. H. Gerlach, 132 Palm Dr., Oakland.
 Architect—Not Given.
 Contractor—J. F. Frey, 4718 Congress Ave., Oakland.
 Lumber—E. K. Wood Co., Frederick and King Sts., Oakland.
 Concrete—Allan McDonald, Oakland.
 Excavation—John Gruber, Piedmont.
 Steel Sash and Roller Screens—Truscon Steel Co., Call Bldg., S. F.
 Plumbing and Sewer—H. F. Lass, 5300 Cole St., Oakland.
 Removing Trees—F. M. Carroll, 6125 Telegraph Ave., Oakland.

To Be Done By Day's Work.
 RESIDENCE Cost, \$5000
 BERKELEY, Alameda Co., Cal. East Tulare St. N Sonoma.
 One-story and basement frame and stucco residence (6 rooms).
 Owner and Builder—C. J. Pfrang, 6300 Claremont Ave., Berkeley.

Contract Awarded.
 RESIDENCE Cost, \$7500
 SACRAMENTO, Sacramento Co., Cal. No. 1100 Forty-sixth Street.
 Two-story frame and stucco residence (7 rooms).
 Owner—W. H. Fingaldu, 2317 Q St., Sacramento.
 Architect—Not Given.
 Contractor—Hansen & Sutter, 308 Oakmont Ave., Sacramento.

Contract Awarded.
 ALTERATIONS Cost, \$7000
 SAN FRANCISCO. No. 2910 Lake St.
 Alterations and additions to frame residence.
 Owner—August Fritze.
 Architect—Hyman & Appleton, 68 Post St., San Francisco.
 Contractor—Jacks & Irvine, 74 New Montgomery St., San Francisco.

Contract Awarded.
 RESIDENCE Cost, \$4700
 BURLINGAME, San Mateo Co., Cal. Balboa St. 150 N Hillcrest Drive.
 One-story and basement frame and stucco residence.
 Owner—Harry J. Lemos.
 Architect—Not Given.
 Contractor—Wm. Duerner, 166 Miramar Ave., San Francisco.

Lumber Contract Awarded.
 RESIDENCE Cost, \$30,000
 WOODSIDE, San Mateo Co., Cal.
 Two-story brick veneer residence (16 rooms and 5 baths) slate roof, oil burning hot air heating system, ornamental iron grilles, oak paneling, tiled baths and kitchen, electric refrigeration, etc.
 Owner—Mr. Beeter.
 Architect—Henry H. Gutterson, 526 Powell St., San Francisco.
 Contractor—Frank Appelbe, 2405 Acton St., Oakland.
 Lumber—Loop Lumber Co., Broadway

To Ask Bids Within A Few Days.
 RESIDENCE Cost, \$5000
 EMERALD LAKE, San Mateo County Calif.
 Two-story wood frame residence (five rooms, 2 sleeping porches) shake exterior walls, crushed granite roof, brick chimney, etc.
 Owner—Miss Mary Cook, % Architect.
 Architect—Chas. Strothoff, 2274 15th St., San Francisco.

Contract Awarded.
 RESIDENCE Cont. Price, \$4210
 REDWOOD CITY, San Mateo Co., Cal. No. 605 Middlefield Road.
 One and one-half-story frame and stucco residence (7 rooms).
 Owner—P. E. Brand, 650 Jefferson St., Redwood City.
 Private Plans.
 Contractor—Meese & Briggs, 502 Edgewood Road, Redwood City.
 Owner will furnish all plumbing, heating and sheet metal work.

Segregated Bids Being Taken.
 RESIDENCE Cost, \$30,000
 HILLSBOROUGH, San Mateo Co., Cal.
 Two-story and basement frame and stucco residence (Colonial type; 11 rooms, 5 baths).
 Owner—Lloyd C. Simpson, 420 El Arroyo Road, Hillsborough.
 Architect—Willis Polk Co. (Angus McSweeney, architect) 277 Pine St., San Francisco.

Contract Awarded.
 RESIDENCE Cost, \$5000
 SAN FRANCISCO. E 27th Ave. 475 N Fulton St.
 One-story and basement frame and stucco residence.
 Owner—Mr. Witt, care contractor.
 Architect—Not Given.
 Contractor—C. O. Blincoe, 2663 15th Avenue.

Plans Being Completed.
 RESIDENCE Cost, \$8000
 SAN FRANCISCO. Thirtieth Ave. and Fulton St.
 Two-story frame and stucco residence (8 rooms and 3 baths); tile roof, gas heating system, electric refrigeration, tiled baths, steel sash, etc.
 Owner—Evelyn Kearney.
 Architect—D. D. Stone, 110 Sutter St., San Francisco.
 Bids will be asked in about one week.

Preparing Preliminary Plans.
 RESIDENCE Cost, \$16,000
 BERKELEY, Alameda Co., Cal. Arlington Villa.
 Two-story and basement frame and stucco residence (9 rooms and 3 baths); terra cotta tile roof, steel sash, oil burning heating system, ornamental iron grilles, electric refrigeration, tiled baths, hardwood floors, etc.
 Owner—Withheld.
 Architect—E. L. Snyder, 2102 Shattuck Ave., Berkeley.

Plans Being Prepared.
 RESIDENCE Cost, \$30,000
 HILLSBOROUGH, San Mateo Co.
 Two-story and basement frame and stucco residence (11 rooms and 5 baths).
 Owner—Lloyd C. Simpson, 420 El Arroyo Road, Hillsborough.
 Architect—Willis Polk Co. (Angus McSweeney, Architect), 277 Pine St., San Francisco.
 Segregated bids will be asked shortly.

Sub-Contracts Awarded.
 RESIDENCE Cost, \$—
 OAKLAND, Alameda Co., Cal. No. 6181 Contra Costa Road.
 Two-story frame and stucco residence (5 rooms); gas furnace, hardwood floors, tiled bath, etc.
 Owner and Builder—Ivan S. Rankin, 5939 College Ave., Oakland.
 Architect—Not Given.
 Lumber—E. K. Wood Lumber Co., Frederick and King Sts., Oakland.
 Roofing—W. L. Saxby, 4538 Fleming Ave., Oakland.
 Plumbing—L. J. Kruse Co., 6247 College Ave., Oakland.
 Sub-bids are being taken on other portions of the work.

Contract Awarded.
 RESIDENCE Cost, \$6800
 SANTA CLARA, Santa Clara Co., Cal. Santa Cruz near Howell Reservoir
 One-story frame and stucco residence.
 Owner—Joseph E. Hancock.
 Architect—Binder and Curtis, 35 West San Carlos St., San Jose.
 Contractor—Charles A. Thomas, 127 Clayton Ave., San Jose.
 Previously reported as a store bldg. which was in error.

Contract To Be Awarded.
 RESIDENCE Cost, \$4600
 OAKLAND, Alameda Co., Cal. Trestle Glen Road.
 One-story and basement frame and stucco residence (6 rooms) shingle roof, gas heating system, hardware floors, tiled baths, etc.
 Owner—Miss H. Johnson.
 Architect—Fabre & Hildebrand, 110 Sutter St., San Francisco.
 Contractor—W. J. Baker, 2255 Ransome St., Oakland.

Plans Being Prepared.
 IMPROVE RESIDENCE Cost, \$—
 ATHERTON, San Mateo Co., Cal.
 Improvements to residence (painting, plumbing, roof repairs, etc.)
 Owner—Louis Lurie, 333 Montgomery St., San Francisco.
 Architect—Gardner Dailey, 210 Post St., San Francisco.

Plans Being Figured—Bids Close June 5th, 4 P. M.

RESIDENCE Cost, \$7000
BERKELEY, Alameda Co., Cal. Holkan Lane and Spruce St.
 1½-story frame residence (6 rooms) Marshall shingle roof, gas heating system, hardwood floors, tiled bath, etc.

Owner—H. C. Brown,
 Architect—Hardman & Russ, Berkeley Bank Bldg., Berkeley.

Following will submit bids:

David Nordstrom, 354 Hobart St., Oakland.

H. K. Henderson, 393 40th St., Oakland.

John Bartlett, 354 Hobart St., Oakland.

W. H. Connor, 1733 Francisco St., Berkeley.

T. C. Courtright, 5098 Manila Ave., Oakland.

F. A. Kurtz, 364 41st St., Oakland.

Plans Being Completed.

RESIDENCE Cost, \$6000
LOS ALTOS, Santa Clara Co., Calif.
 Two-story and basement frame and stucco residence (6 rooms and 2 baths) tile roof, gas heating system, hardwood floors, tile baths.

Owner—Withheld.

Architect—Farr & Ward, 68 Post St., San Francisco.

Bids will be asked in about 1 week.

Cub-Contracts Awarded.

RESIDENCE Cost, \$4000
OAKLAND, Alameda Co., Calif. 733 Beatie Street.

One-story and basement frame and stucco residence (6 rooms) shingle roof, gas furnace, hardwood floors etc.

Owner and Builder—F. S. Taylor, 1622 Harrison St., Oakland.

Architect—Not Given.

Lumber, Frames—Sunset Lbr. Co., 400 High St., Oakland.

Concrete—Otto Hennig, 3527 Suter St., Oakland.

Painting—A. C. Daldix, Oakland.

Contract Awarded.

RESIDENCE Cost, \$4000
SAN MATEO, San Mateo Co., Calif. Lot 42, Madison Avenue.

One-story and basement frame and stucco residence.

Owner—J. Periot, 20 Madison St., San Mateo.

Architect—Not Given.

Contractor—S. A. Wisnom, 140 S Ellsworth St., San Mateo.

Contract Awarded.

RESIDENCE Cost, \$—
BURLINGAME, San Mateo Co., Cal. Lot 21, Blk 50, Balboa.

Two-story frame and stucco residence
 Owner—August Cerruti, 505 Hurlingham, San Mateo.

Architect—Not Given.

Contractor—Oscar L. Cavanaugh, 432 Occidental Ave., San Mateo.

Contract Awarded.

ALTERATIONS Cost, \$4000
PALO ALTO, Santa Clara Co., Calif. 445 Lowell Avenue.

Alterations to frame residence.
 Owner—Mrs. Beach Thompson, 445 Lowell Ave., Palo Alto.

Architect—Not Given.

Contractor—Jacks & Irvine, 74 New Montgomery St., San Francisco.

Contract Awarded.

RESIDENCE Cost, \$—
SAN FRANCISCO, Russia and Prague Streets.

Two-story and basement frame and stucco residence (10 rooms and 1 bath, 3 toilets) Spanish type, tile roof, gas heating system, hardwood floors, etc.; social hall in basement.

Owner—A. Arrighi.

Architect—Italo Zanolini, 604 Montgomery St., San Francisco.
 Contractor—L. Pastorini, 1438 Van Dyke St., San Francisco.

Contract does not include electric, plumbing or painting contracts which will be awarded shortly.

Plans Being Figured.

RESIDENCE Cost, \$—
CARMEL, Monterey Co., Cal. Carmel Highlands.

One and two-story frame and stucco residence (10 rooms and 3 baths) shakes roof, hardwood floors, tiled baths, type of heating not determined.

Owner—Judge Mary M. Barteme, Chicago, Illinois.

Architect—Guy O. Koepf, Carmel.

Bids are being received from a selected list of contractors. About ten days will be allowed for figuring the plans.

15—SCHOOLS

Plans Being Figured.

HOUSE OF STUDIES
 Cost (1st unit), \$70,000

OAKLAND, Alameda Co., Cal. Chabot Road and College Ave.

Three-story and basement Class A house of studies.

Owner—College of Saint Albert-the-Great (Dominican House of Studies), Steiner and Bush Sts., San Francisco.

Architect—Arnold Constable, 530 Market St., San Francisco.

Bids are being received by Thomas Sullivan, Humboldt Bank Bldg., San Francisco, from a selected list of contractors.

Specifications follow:

General Contract—Steel frame and concrete construction (main wing, 140 x 86 ft.); demolish brick porte cochere; cast stone trim; concrete and brick chimneys; slate and built-up roofing; copper gutters; steel sash; fire escapes wrought iron stair railing; leaded and ribbed glass; metal furring and lathing, ornamental stucco; Portland cement exterior finish; concrete floors; oak and maple flooring, Oregon pine or Douglas fir interior trim; redwood panelling; refectory service counter; cupboards; dumb waiter; steel medicine cabinets with mirror; chapel altar and fixtures; copper fly screens; terazzo or rubber tile floor.

Electrical—Intercommunicating telephones; refrigeration unit.

Steam Heating—Gas burner, low or high pressure boiler; hot water storage tank; water heaters; vacuum pump; vacuum traps; concealed heaters.

Plumbing—Lavatories; showers; water closets; tubs; drinking fountain; service sink; hose racks and cabinets; automatic electric sump ejector drains; well pump, automatic pressure system.

Owner to Purchase—Shades, linoleum, electric fixtures, finished hardware, kitchen sinks, dishwashing machine, steam table, automatic refrigerating machine.

BAKERSFIELD, Kern Co., Calif.—Until June 8, 7:30 P. M., bids will be received by Florence C. Porter, Secretary, Bakersfield School District, for school supplies for the school year ending June 30, 1934. Specifications on file in the Board of Education Office, Bakersfield School District, 1600 K St., Bakersfield.

SAN FRANCISCO—M. E. Vukicevich, 666 Mission St., at \$3982 (Prop. 1) and \$3572 (Prop. 2) submitted low bid to Department of Public Works for new wood floors in the High School

of Commerce. Following bids received:

(1) Redwood blocks and O. P. finished floors.	
(2) Redwood blocks and plywood.	
M. E. Vukicevich.....	(1) \$3982
	(2) 3572
F. C. Amoroso & Sons	(1) 4294
	(2) 3900
Jacks & Irvine.....	(1) 4398
	(2) 4012
H. L. Petersen	(1) 4400
	(2) 3800
Peter Sartorio.....	(1) 4427
	(2) 3854

Bids held under advisement.

16—BANKS, STORES AND OFFICES

May 26, 1933

Planned.
REMODEL Cost, \$—
MANTECA, San Joaquin Co., Cal.
 Remodel interior of two-story brick building.

Owner—Leo Bernacchi and Thurman Cotrell, Manteca.

Architect—Not Given. (1628) 16

Preparing Plans.

REMODEL Cost, \$1000
SAN FRANCISCO, Sixteenth St., bet. Valencia and Guerrero Sts.

Remodel store for beer parlor, install bar, etc.)

Owner—Withheld.

Architect—Fabre & Hildebrand, 110 Sutter St., San Francisco.

To Be Done By Day's Work.

ALTERATIONS Cost, \$2000
SAN FRANCISCO, 46 Geary Street.
 Alterations to stores.

Owner—Mrs. L. B. McMillen, % Mr. Whitton.

Engineer—F. Whitton, 369 Pine St.

Preparing Preliminary Plans.

BUILDING Cost, \$15,000
FRESNO, Fresno Co., Cal. North Fulton St. near Sumner Ave.

Two-story concrete, frame and stucco medical office building (70x80 ft.); 20 rooms and 5-room apartment (flat composition roof, gas heating system, etc.)

Owner—Dr. Roscoe F. Wallace, Fresno
 Architect—Chas. E. Butner, Cory Bldg., Fresno, and Glikberg Bldg., Salinas.

Contract Awarded.

ALTERATIONS Cost, \$15,000
SAN FRANCISCO—811-13-15 Market Street.

Alterations to mezzanine floor and store (steel joists and beams, concrete slab, metal lath and plaster ceiling, etc.)

Owner—Pacific Company, Pacific Bldg., San Francisco.

Engineer—Ellison & Russell, Pacific Bldg., San Francisco.

Lessee—Charles Brown & Sons, 871 Market St., San Francisco.

Contractor—Regal Showcase & Fixture Co., 540 McAllister St., San Francisco.

Sub-Contracts Awarded.

STORE Cost, \$4000
SAN FRANCISCO, 634-46 Haight St.
 Frame and stucco store under flats (60x20) raise building, excavation work, etc.

Owner—F. J. Quinn.

Architect—W. E. Huson, 1913 Green Street.

Contractor—Barrett & Hilp, 918 Harrison Street.

Mill Work—Hart Mill & Lumber Co., Jerrold and Napoleon Streets.

Plumbing—Dowd & Welch, 3558 16th Street.

Glass—W. P. Fuller Co., 301 Mission Street.

SAN FRANCISCO—Bureau of Building Repairs, at \$3325 submitted low bid to Department of Public Works for remodeling rooms, 282, 287 and 289 in the City Hall, for use of Public Utilities Commission. Following bids received:

Bureau of Building Repairs.....	3325
O. Monson	3550
H. H. Larsen	3833
J. H. Johnson.....	4098
H. L. Petersen.....	4373

Bids held under advisement.

Contract Awarded.
STORE Cost, \$3000
PALO ALTO, Santa Clara Co., Cal. No. 436 High Street.
 One-story frame store.
 Owner—Peter Mullen, Highway and Alta Mesa Road, Palo Alto.
 Architect—Not Given.
 Contractor—P. C. Gibson, % Owner.

To Be Done By Day's Work.
STORES AND OFFICES Cost, \$5000
OAKLAND, Alameda Co., Cal. No. 2201 E-Fourteenth St.
 Two-story store and office building.
 Owner—H. Lincoln & Sons Co., 1309 Stannage Ave., Berkeley.
 Architect—Not Given.

Contract Awarded.
REMODEL Cont. Price, \$5142
SAN FRANCISCO. No. 868 Geary St. Remodel store.
 Owner—Martin Stelling.
 Architect—Bertz, Winter & Maury, 210 Post St., San Francisco.
 Contractor—Young & Horstmeyer, 461 Market St., San Francisco.

Plans To Be Prepared.
REMODEL Cost, \$—
SAN FRANCISCO. Eddy and Market Streets.
 Remodel Odeon cafe.
 Owner—Whittell Estate, 166 Geary St.
 Architect—Not Given.
 Lessee—States Hof Brau (Harry Hirsch).
 The lease has not yet been signed.

17—THEATRES

Plans Being Prepared.
THEATRE Cost, \$1500
STOCKTON, San Joaquin Co., Calif. North Pacific Avenue.
 Open-air theatre (to seat 1360) concrete retaining walls, stadium type wooden seats, light towers, stage and lighting equip. (stage will be concrete platform, 24x88).
 Owner—College of the Pacific.
 Architect—H. G. Bissell, 328 E. Miner St., Stockton.
 Funds will be raised through subscriptions.

18—WHARVES & DOCKS

Bids Wanted—To Close June 5, 4:30 P. M.
EXTENSION Cost, \$78,000
OAKLAND, Alameda Co., Cal. Foot of Fourteenth Street.
 Extension of Outer Harbor Wharf (329 ft. long, 60 ft. wide).
 Owner—City of Oakland Port Commission (G. B. Hegardt, Secretary) Grove St. Pier, Oakland.
 Plans by Engineering Dept. of Owner. Sixteen feet will be of pile and timber construction and forty-four feet will be reinforced flat slab construction on concrete piles.
 Following have procured plans:
 A. W. Parker, 5526 Morse Drive, Oakland.
 Koetitz & Koetitz, 2235 E-7th St., Oakland.
 R. W. Littlefield, 337 17th St., Oakland.
 Duncanson Harrelson, de Young Bldg., San Francisco.
 San Francisco Bridge Co., 503 Market St., San Francisco.
 M. B. McGowan, 74 New Montgom-

ery St., San Francisco.
 C. N. Peterson, 1211 E-34th St., Oakland.
 Healy-Tibbitts Construction Co., 61 Pine St., San Francisco.
 E. T. Lesure, 87 Ross Circle, Oakland.
 A. W. Kitchen, 110 Market St., San Francisco.
 W. E. Lyons, 354 Hobart St., Oakland.
 Ben C. Gerwick, 112 Market St., San Francisco.

Plans and specifications available from the Secretary of the Board upon deposit of \$10.

Plans Being Completed.
REBUILD PIER Cost, \$200,000
OAKLAND, Alameda Co., Cal. Key Route Terminal.
 Ferry boat and train terminal (steel columns and trusses, timber flooring, corrugated walls and roof, glass skylights, deck covering, etc.)
 Owner—Key Route System, Oakland.
 Architect—Kent & Hass, 525 Market St., San Francisco.

Bids will be asked in about one week or so from a selected list of contractors.

SAN FRANCISCO — Bids were returned unopened by District Public Works Officer, Twelfth Naval District, 100 Harrison St., San Francisco, for repairs to Key Route Wharf end of water line, U. S. Receiving Ship, Yerba Buena Island, including replacing of approximately 600 feet of 5 inch pipe, together with a supporting structure of creosote treated piles and a five-inch protecting dolphins. Specification No. 7316.
 It is possible that work will be abandoned.

Contract Awarded.
RECONSTRUCT WHARF.
 Cont. Price, \$27,793
OAKLAND, Alameda Co., Cal. Pier No. 1, Waterfront.
 Reconstruct easterly apron of wharf.
 Owner—Howard Terminal, First and Market Sts., Oakland.
 Architect—Reed & Corlett, Bank of America Bldg., Oakland.
 Contractor—Ben C. Gerwick, Inc., 112 Market St., San Francisco.

19—MISC. CONSTRUCTION

Structural Steel Contract Awarded.
DOG TRACK Cost, \$150,000
BAYSHORE, San Mateo Co., Cal. Dog racing track.
 Owner—Bayshore Kennel Club (Thos. Keene, J. Foppiano, et al), Belmont.
 Plans by Thomas Keene, Belmont. Mgr. of Const.—Thomas Keene.
Structural Steel—McClintic Marshall Corp., 2050 Bryant St., San Francisco.

As previously reported, lumber bids are now being received by Mr. Keene. Track will be completed in about 50 days.

May 26, 1933
Planned.
HEADQUARTERS Cost, \$—
GRIDLEY, Butte Co., Calif.
 Headquarters building (dining room, kitchen and sleeping quarters, garage to house four trucks, tool house, machine shop, etc.; rustic construction).
 Owner—State of California.
 Plans by State Division of Forestry, Oroville.
 (1623) 19

Plans Completed.
BUILDING Cost, \$6000
RICHMOND, Contra Costa Co., Cal. Twenty-seventh and Market Sts.
 One-story wood frame classroom building (metal lath and plaster

interior, rustic exterior, wood flooring, composition roofing, gas heating, system, etc.)
 Owner—Missiary Society of the Salesians Congregation.
 Architect—J. A. Porporato, 619 Washington St., San Francisco.
 Bids will be asked in one week or ten days.

MODESTO, Stanislaus Co., Calif.—City council requests Jan Macdonald, local golf instructor, to submit preliminary plans and cost estimates for municipal golf course at Bud Coffee Field, municipal airport. F. J. Rossi, city engineer.

BERKELEY, Alameda Co., Calif.—Monarch Oil Co., 2200 Wood, Oakland, at prices shown below, awarded contract by city council to furnish 2350 gals. fuel lubricating oil:
 (1) special extra heavy, \$3.35;
 (2) extra heavy, \$3.32;
 (3) heavy, \$2.29;
 (4) medium, \$2.7;
 (5) light, \$2.45.

Cast Stone Contract Awarded.
MAUSOLEUM Cost, \$15,000
LAWDALE, San Mateo Co., Cal. Interior work in mausoleum (work involves cast stone, marble, terrazzo work, ornamental iron, ceiling lights, etc.)
 Owner—Olivet Memorial Park Assn.
 Architect—Resing & McGuinness, 488 Pine St., San Francisco.
Cast Stone—Western Artificial Stone Co., 666 Brannan St., San Francisco.

EUREKA, Humboldt Co., Cal.—Bids will be asked shortly by Capt. J. S. Underwood, District Quartermaster, 925 F Street, Eureka, for the installation of shower baths, toilets and other facilities in the building in rear of quartermaster's office on F street.

ORANGE, Orange Co., Calif.—City Engineer C. C. Bonebrake, Orange, announces that work will be started immediately on excavating for swimming pool, 135x45 feet, to be constructed at the new Orange city park site. The city also proposes constructing two tennis courts, a wading pool, 100x200 feet, and a lily pond, 130x80 feet, on the site.

ALAMEDA, Alameda Co., Calif.—Following have procured plans for the purpose of submitting bids to the Constructing Quartermaster, Benton Field Air Depot, 33 Pacific Ave., Alameda, on June 8 for a 50-foot steel flag pole at Benton Field Air Depot, Alameda:
 Taper Tube Pole Co., 417 Monadnock Bldg., San Francisco.
 Patent Scaffolding Co., 270 13th St., San Francisco.
 American Map & Spar Co., 961 East 149th St., New York City.
 City Improvement Co., 2626 Harrison St., Oakland.
 Highbridge International Co., 526 Sedri St., New York City.
 Ernest Capelle, 466 Baldie Street, Brooklyn, New York.
 Price Building Specialties Co., 683 Howard St., San Francisco.

SAN FRANCISCO — West Coast Electric Co., 160 Tenth Street, at \$475 awarded contract by Signal Corps Officer, Presidio, for the erection of a 105-foot antennae at the Presidio.
 Following bids received:
 West Coast Elec. Co., S. F. \$475
 E. Anderson, S. F. 780
 City Improvement Co., Oakland 933

SUNNYVALE, Santa Clara Co., Cal.—Until June 28, 11 A. M., bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., for irrigation system.

grading and concealed lawn sprinkling system at the Naval Air Station, Sunnyvale. Specification No 7034.

SAN FRANCISCO—Dwan & Co., Call Bldg., at \$286 awarded contract by Purchasing Department, State Harbor Board, for toilet partitions for Pier No. 35. (1595) 1st report May 24, 1933.

SAN YSIDRO, San Diego Co., Cal.—Kyle Steel Constr. Co., 5535 Magnolia St., Los Angeles, awarded contract by Bureau of Customs, Treasury Department, at \$5000, for complete construction of gates at the international boundary across highway at the port of San Ysidro. Work will consist of structural steel gates in four sections, two 20 feet wide and two 27 feet wide.

ALAMEDA, Alameda Co., Calif.—Barnes Bros. Iron Works, 1719 14th St., Oakland, at \$5,780 submitted low bid to Constructing Quartermaster at Benton Field Air Depot, Alameda, for constructing approximately 4600 lineal feet of new fence at the Benton Field Air Depot, Alameda. Following bids received:

Barnes Bros., Oakland.....\$5,780.00
West Coast Wire & Iron, S. F. 6,019.00
Pittsburgh Steel Co., S. F..... 6,350.00
Anchor Post Fence Co., S. F..... 6,775.00
Michel & Pfeffer, S. F..... 6,984.43
Crown Fence & Supply, S. F..... 7,186.83
Standard Fence Co., S. F..... 7,370.00
Bids held under advisement.
(1407) 1st report May 6; 3rd, May 31, 1933.

Contracts Awarded.

SPEEDWAY Cost, \$—
OAKLAND, Alameda Co., Cal. 47th and San Pablo Ave.
Motorcycle Speedway.
Owner—Emeryville Motorcycle Speedway, Inc., 217 12th St., Oakland.
Architect — George E. Ellinger, 1801 Casterline Road, Oakland.
Carpentry—George Swanstrom, 1615 78th Ave., Oakland.
Electric—Kerr & Clifford, 3525 E-14th St., Oakland.
Plumbing—Fearey & Moll, 1075 40th St., Oakland.
Lumber—Lamb Lumber Co., 1449 Park Ave., Oakland.
Sheet Metal—H. Monsen & Sons, 3480 Champion St., Oakland.
Painting—D. Owen, 2220 E-19th St., Oakland.
(1699) 1st report May 25, 1933

20—MISC. SUPPLIES AND MATERIALS

OAKLAND, Cal.—Until June 8, 9 P. M., bids will be received by W. W. Chappell, City Clerk, for furnishing supplies to the City of Oakland for the fiscal year. Supplies consist of: Automobiles, tires and tubes, batteries, brick, castings, underground structures, cement, coal, concrete, gasoline, fuel oil, lubricating oil, lumber, painting for traffic lines, repairs of pavements, concrete pipe, vitrified sewer pipe, emulsified road oil, rock and screenings, traffic signs, etc.

OAKLAND, Cal.—Until June 9, 8 P. M., bids will be received by East Bay Municipal Utility District, 512 16th St. Oakland, John H. Kimball, secretary, to furnish:

- (1) 245,000 gallons gasoline;
- (2) 25,000 gallons kerosene;
- (3) 9,500 gallons lubricating oil.

Specifications LS-108 are obtainable from above office.

OAKLAND, Cal.—Columbia Steel Co. Russ Bldg., San Francisco, and Keystone Steel & Wire Co., 1494 Franklin St. Oakland, at \$9 for No. 9 wire and \$6 for No. 12 wire, in quantities to be decided later, awarded contract

by U. S. Forest Service Supply Depot, Government Island, Oakland, to furnish:

- (1) 70 miles No. 9 BWG galv. Iron telephone wire, "Best Best" quality, Forest Service Spec. No. 17, for shipment to Ogden, Utah;
 - (2) 10 miles No. 12 BWG do, Spec. No. 21, shipment to Ogden.
- Bids were also submitted by:
Graybar Electric Co.
Pacific Coast Steel Co.
Kellogg Company.

YREKA, Siskiyou Co., Cal.—Until June 19, bids will be received by the Forest Supervisors, Yreka, for the sale of all merchantable dead timber standing or down, and for all live timber marked for cutting in Beaver Creek Watershed, Klamath National Forest, Oregon, 6,000 M. ft. b.m., more or less, of ponderosa pine, sugar pine, white fir, Douglas fir, and incense cedar timber. No bid of less than \$2 per M. ft. for ponderosa pine, \$2.75 for sugar pine, \$.50 for other species, will be considered. Deposit of \$3000 required with bid. Further information obtainable from above.

EUREKA, Humboldt Co., Cal.—Captain J. S. Underwood, Civilian Conservation Corps, Quartermaster Department, Eureka, awarded the following contracts in connection with the construction of the new camp at Mad River:
Lumber—Pacific Lbr. Co., Scotia, \$3,100.

Nails and Hardware—A. Brizard, Arcata, \$75.

Doors, Frames and Millwork—Hammond and Little River Lumber Co., \$212.80.

Plumbing—Eureka Boiler Works, \$345.
Screenings—Buhne's, Eureka, \$30.

Pipe and Outside Water System—A. Brizard, Arcata, \$1,155.

SACRAMENTO, Cal.—Until June 12, 5 P. M., bids will be received by Chas. C. Hughes, secretary, Sacramento, Board of Education, for approximately 10,000 barrels of fuel oil, 150 cords of oak wood and 50 cords of block wood to be furnished and delivered to any school or schools which come under the jurisdiction of the Board of Education, throughout the fiscal year ending June 30, 1934. Copies of proposal form and specifications obtainable from Business Manager, School Administration Bldg., 21st and L Sts., Sacramento.

PANAMA CANAL ZONE—Until June 14, 10:30 A. M., under Schedule No. 2874, bids will be received by the General Purchasing Officer Panama Canal Zone, to furnish structural steel, track switches, track rail and rail clips, and Venetian blinds. Specifications obtainable from above office.

SAN FRANCISCO—Pioneer Rubber Mills at \$.105 per foot awarded contract under Bid No. 998 by City Purchasing Agent to furnish 12,000 ft. of 1-in. garden hose for the Park.

HYRUM, Utah—Congress has authorized the Reconstruction Finance Corp. to loan \$1,000,000 to the Bureau of Reclamation for the construction of the Hyrum unit (reservoir) of the Salt Lake Basin Reclamation Project.

OAKLAND, Cal.—Until June 5, 2 P. M., under Bid No. 285, bids will be received by U. S. Forest Service Supply Depot, Government Island, Oakland, to furnish (1) 736 mi. single strand wire, ½-mi. to the spool; (2) 40 mi. duplex wire, ¼-mi. to the spool. Telephone Emergency Wire. Specifications obtainable from above.

SAN FRANCISCO.—Goodyear Tire & Rubber Co. at \$22 ft. awarded contract under Bid No. 998 by City Purchasing Agent to furnish 60 ft. 1½-in. garden hose for the Park.

GRASS VALLEY, Nevada Co., Cal.—The Nevada County Lumber Co., Nevada City, awarded contract for furnishing lumber to be used in construction work in three civilian conservation camps. Contract calls for delivery of 47,700 feet of lumber at the State Unemployment Camp south of Nevada City, Miller's Ranch Camp and the Oak Ranch, above Downieville.

WASHINGTON, D. C.—Until June 20, 10 A. M. (Standard Time) bids will be received by U. S. Indian Service, Washington, D. C., to furnish various electrical supplies; fire extinguishers; steel barrels, including about 60,000 ft. flexible cord; 75,000 ft. rubber covered wire.

These items are estimated yearly requirements of entire Indian Service, to be shipped all over the U. S. It is estimated that at least 50% will be shipped in the Coast Area, including Arizona and New Mexico.

LOW BIDDERS

SAN DIEGO, Cal.—Johns-Manville Sales Corp., New York City, submitted low bids to the Navy Department, Bureau of Supplies and Accounts, at 7.829c, 8.612c and 9.395c, for furnishing 35,000 diatomaceous-earth bricks and 70,000 ditto for San Diego; Schedule 93.

SAN FRANCISCO—Until June 2, 10 A. M., under Circular No. 928-33-261, bids will be received by Quartermaster Supply Officer, General Depot, Fort Mason, to furnish lumber as follows: 80,000 ft. b. m. 12x12-in.; 40,000 ft. b. m. 4x12-in.; 30,000 ft. b. m. 4x 4-in.

"All or none" bids wanted. Bid on Douglas Fir lumber. Specifications obtainable from above office or on file in office of DAILY PACIFIC BUILDER.

SAN FRANCISCO—Until June 9, 3 P. M., under Bid No. 1014, bids will be received by T. A. Brooks, City Purchasing Agent, 270 City Hall, to furnish 4 mi. trolley wire for Municipal Railway. Specifications obtainable from above office.

SAN FRANCISCO—Until June 9, 3 P. M., under Bid No. 1020, bids will be received by T. A. Brooks, City Purchasing Agent, 270 City Hall, to furnish ready-mix concrete for the fiscal year 1933-34. Specifications obtainable from above office.

WASHINGTON, D. C. — Contracts for oil for West Coast awarded by Bureau of Supplies and Accounts, Navy Department, Washington, D. C., as follows:

Union Oil Co., 1,317,000 bbls., \$934,142.
Associated Oil Co., 1,508,000 bbls., at \$871,900.
Hancock Oil Co., 1,000,000 bbls., at \$549,000.

OAKLAND, Cal.—Following bids received by City Board of Park Commissioners for furnishing (a) 500 yds. of loam; (b) 1000 yds. of manure, to be delivered within a radius of five miles of Lake Merritt during the fiscal year ending June 30, 1934:
M. S. Rodgers.....(a) \$1.50 per yd.
.....(b) \$1.25 per yd.

Golden State Co.....(b) \$1.75 per yd.
Bids referred to city attorney for award.

ENGINEERING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

- | | |
|-------------------------------------|-------------------------------------|
| 21.—Bridges | 30.—Reservoirs and Dams |
| 22.—Dredging, Harbor Works, Excava. | 31.—Pipe Lines and Wells |
| 23.—Irrigation Proj. | 32.—Sewers & Sewage Disposal Plants |
| 24.—St. Light. Systems | 33.—Water Works |
| 25.—Machinery and Equipment | 34.—Parks & Playgrounds |
| 26.—Railroads | 35.—Tunnels |
| 27.—Fire Alarm Sys. | |
| 28.—Fire Equipment | |
| 29.—Streets & Highways | |

21—BRIDGES

LOS ANGELES, Cal.—R. W. Stewart, city bridge engineer, has completed preliminary estimate of cost of \$19,141 to construct a wooden bridge at the intersection of Imperial Highway, from Central to Fadsworth Ave., over Compton Creek. It will be a two-span 25-ft. structure with 40-ft. roadways on Central Ave. and Imperial Highway, involving:

- 67 creosoted wood piles, 25-ft. long;
- 10,000 B.M. ft. creosoted Douglas fir;
- 47,000 B. M. ft. structural do;
- 2,500 lbs. obits and rods;
- 10 cu. yds. concrete;
- 3,660 sq. ft. 2-in. asph. conc. wearing surface.

SAN FRANCISCO.—Plans for the relocation of the eastern approach road to the Golden Gate Bridge will be ready for the approval of the Board of Directors, Golden Gate Bridge and Highway District, at their June 14 meeting. Approval of the War Department and the State Legislature is necessary for the rights of way before the contracts can be let.

LOS ANGELES, Cal.—Plans for a concrete and steel bridge to be built on Anaheim-Puente Road over San Jose creek, filed with the board of supervisors May 25 by W. D. Armstrong County Bridge Engineer, for approval. A date for bids will probably be set by the board of supervisors May 29. Bids will be taken on two types, viz: using concrete piles and using steel piles. The proposed bridge will consist of one 40-ft. span and two spans of 32 ft. 10 in. each. The roadway will be 30 ft. in width. The engineer's estimate of quantities follow:

Summary for Concrete Piles

- 295.6 cu. yds. Class A conc. (including piles);
- 53,250 lbs. reinforcing steel;
- 211 lin. ft. concrete railing;
- 8,874 sq. ft. form area;
- 1,200 lin. ft. concrete piles to drive;
- 96,543 lbs. struc. steel furnished by the county;
- 12,340 lbs. structural steel bracing;
- 6,624 sq. ft. paint area;
- 2,899 lbs. castings;
- 735 lbs. bearing plates;
- 48 pieces tile;
- 50 cu. yds. excavation;
- removing old bridge.

Summary for Steel Piles

- 234.58 cu. yds. Class A concrete;
- 22,518 lbs. reinforcing steel;
- 211 lin. ft. concrete railing;
- 9,090 sq. ft. form area;
- 1,200 lin. ft. steel piles to drive;
- 79,200 lbs. steel piles;
- 96,543 lbs. structural steel furnished by county;

12,340 lbs. structural steel bracing;
6,624 sq. ft. paint area;
2,899 lbs. castings;
735 lbs. bearing plates;
48 pieces tile;
50 cu. yds. excavation.
removing old bridge.

SAN JOSE, Santa Clara Co., Cal.—Until June 19, 11 A.M., bids will be received by Henry A. Pfister, county clerk to widen Evelyn Ave. Bridge, lump sum for widening existing bridge, also involving 17,600 sq. ft. oil macadam paving. Specifications obtainable from Robert Chandler, county surveyor, on payment of \$1, not returnable.

SANDPOINT, Idaho—A. E. Carsealen, Coeuer d'Alene, awarded contract by the Bonner county commissioners to construct concrete piers, steel superstructure and timber deck of 102 ft. bascule span under Sec. 3 at \$24,553, Sandpoint Bridge, North & South Highway. Arthur Tiggelbeck, engineer. The bids were opened April 20.

HANFORD, Cal.—Central Lumber Co. awarded contract by county supervisors at \$3568.72 to furnish lumber for the new Alcorn bridge to be erected seven miles north of Hanford.

22—DREDGING, HARBOR WORKS, EXCAVATION

PORTLAND, Ore.—Until June 9, 2 P. M., bids will be received by U. S. Engineer O'Tee, 321 Custom House, Portland, to dredge approximately 256,000 cu. yds. of material from Skipanon channel, on the south side of the Columbia river 3 miles west from Astoria, Ore., and about 10 mi. from the mouth of the river. Specifications obtainable from above office.

SEWARD, Alaska.—Nicholas Fleiness, 1203 James St., Seattle, Wash., at \$13,000 submitted lone bid to U. S. Engineer Office, Seattle, to place 2,000 cu. yds. armor rock on the rock mound breakwater at the Harbor of Refuge, Seward. Engineer's estimate was \$8575, and bid will probably be rejected.

REDWOOD CITY, San Mateo Co., Cal.—County Supervisors will incorporate in June 27 election proposition on county port district, it was decided at protest hearing held May 25.

23—IRRIGATION PROJ.

IDAHO STATE—Until June 9, under Spec. 594-D, bids will be received by U. W. Bureau of Reclamation.

CAPITAL CITY TITLE COMPANY

J. C. PALEN,
Manager

914 Seventh Street

Sacramento :: California

Denver, Colo., to construct lateral structures, Gooding Division, Minidoka project, Idaho, involving:
875 cu. yds. excavation;
465 cu. yds. backfill about structures;
180 cu. yds. concrete;
165 cu. yds. rubble masonry;
7750 lbs. place reinf. bars;
500 lin. ft. 12- to 24-in. lay corr. metal pipe;
4200 lbs. gates and gate holsts, Install;
3 MFEM erect timber.
No deposit required for plans from prospective bidders; to others, \$1 not returnable.

24—ST. LIGHT. SYSTEMS

SAN DIEGO, Cal.—Moore Electric Co., 321 W Third St., Los Angeles, awarded contract by the Navy Department on May 25 at \$16,100, for improvements to the electrical system, West Beach Hangars, Naval Operating Base (Air Station) San Diego; Spec. No. 7223. Work consists of the relocation of existing floodlights transformers, controller, etc. In making the award, the Navy Department omitted the work called for under Proposal B. Bids were opened May 16.

GLENDALE, Los Angeles Co., Cal.—The South Glendale Improvement Association has proposed that the city council abandoned previous proceedings for the installation of an ornamental lighting system in Brand Blvd, and start entirely new proceedings so that the city may take advantage of lower prices. The contract which was awarded a year ago to the Public Service Department of Glendale at \$126,250, has been held up by litigation instituted by several property owners. The appellate court decided in favor of the city.

P. Diederich, plant superintendent, will probably await advice from the council before starting construction under the contract.

25—MACHINERY AND EQUIPMENT

SAN FRANCISCO.—Until June 14, 2 P. M., bids will be received by the Board of Directors of the Golden Gate Bridge and Highway District, W. W. Felt, Jr., Secretary, at the chambers of the Board of Supervisors of the City and County of San Francisco, City Hall, to dismantle, break-up and remove three disappearing cannon mounts, 188 tons weight each, and three ammunition handling trucks, steel, 1000 lbs. weight each, to be unloaded at the railroad siding near Warehouse No. 5, south border at Crissy Field, Presidio. Certified check \$250 payable to Secretary required with bid.

OAKLAND, Cal.—J. E. French & Co., 2345 Broadway, Oakland, at \$1345.50 net, submitted low bid to East Bay Municipal Utility District, Oakland, to furnish one 5-passenger 8-cylinder 1933 model Dodge sedan, allowance being made for trade-in on used Buick. Complete net bids follow:
J. E. French & Co., Oakland.....\$1345.50
C. A. May, Hayward.....1411.50
F. S. Wildman, Alameda.....(1425.00
Bids held under advisement.

SAN FRANCISCO.—Until June 5, 3 P. M., under Bid No. 1115, bids will be received by T. A. Brooks, City

Purchasing Agent, 270 City Hall, to deliver and return voting machines and deliver election stationery at special election to be held June 27. Specification obtainable from above office.

LOS ANGELES, Cal.—Sangamo Electric Co. awarded contract by A. J. Holm, City Purchasing Agent, May 24, at \$42,906 (estimated total), for electric meters under Spec. No. 2884. Bids were opened Sep. 2, 1932.

PASADENA, Cal.—Until 11 A. M., June 6, new bids will be received by board of directors to furnish two duplicate conveyors at the city incinerator plant to supply dry rubbish and waste materials as fuel for two waste heat oiler furnaces. Revised specifications obtainable from B. F. DeLanty, Superintendent of Municipal Light & Power Department. Certified check, 5%. The bids received May 15 were rejected May 23.

28—FIRE EQUIPMENT

OAKLAND, Calif.—W. H. Larson, 2805 Parker St., Berkeley, submitted low bid to Purchasing Department, Oakland Port Commission, for surface paving materials at the Airport, involving approximately 5000 sq. ft. Items involved follow:

- (1) 125 tons asphaltic base;
- (2) 33 tons asph. wearing surface.

Complete bids follow:

- W. H. Larson, Berkeley, (1) \$3.98; (2) \$4.48.
Heafey-Moore Co., Oakland (1) \$4.75 (2) \$4.95.

Award recommended to low bidder.

30—RESERVOIRS & DAMS

LAKEPORT, Lake Co., Cal.—Frank R. Phillips, Lakeport, at \$749 awarded contract by city council to construct roof for the new reservoir, to be of timber with asbestos coated shingles. Complete bids follow:

F. R. Phillips, Lakeport.....	\$ 749
R. A. Woodward, Lakeport.....	968
T. J. Doyle, San Francisco.....	937
C. S. Good, Nice.....	1065

WHITTIER, Los Angeles Co., Cal.—Until 7:30 P. M., June 19, bids will be received by city council to furnish redwood lumber for re-roofing of the Greenleaf Reservoir, involving about 67,000 sq. ft. surface to be covered with timbers, etc., in accordance with specifications which may be obtained from engineering department probably about June 1. M. R. Bowen, city engineer and water superintendent. Mrs. Debie E. Allen, city clerk.

ARCADIA, Los Angeles Co., Cal.—City council rejected all bids received on May 2 for furnishing and delivering 275 barrels of asphaltic road oil and will purchase the oil in the open market.

LOS ANGELES, Cal.—Bids to be opened June 26, 2 P. M., by county supervisors for the construction of Eaton Wash Debris Dam and appurtenant structures, estimated cost, \$441,376, have been temporarily held up on account of failure to obtain right-of-way. Plans call for a rolled earth fill dam, 1545 ft. long, 37 ft. high, 40.5 ft. from foundations to spillway crest, upstream faced with concrete.

LOS ANGELES COUNTY, Cal.—J. E. Haddock, Ltd., 357 Chester Ave., Pasadena, at \$4496 awarded contract by State Highway Commission to treat 3.3 miles graded roadbed at San Gabriel Canyon near Azusa with heavy fuel oil.

31—PIPE LINES & WELLS

SAN FRANCISCO—Bids will be called within 10 days by Public Utilities Commission, Felton Taylor, Secretary, to construct steel or concrete pipe line across Alameda Creek for the City and County of San Francisco, to start at 3-mi. south of Sunol involving 3000 ft. steel pipe line or alternate concrete with steel cylinder enclosed, and 600 ft. pipe at east end of tunnel, 7-mi. south of Tracey. Estimated cost, \$125,000. Plans prepared by L. W. Stocker, S. F. Water Department, 425 Mason St.

WASHINGTON, D. C.—E. E. Black, Ltd., Honolulu, at \$11,728 submitted low bid to Bureau of Yards and Docks Navy Department, under Spec. No. 7209 for construction of a six inch cast iron pipe water line approximately 3736 feet long with 3180 feet to be submerged at Pearl Harbor, T. H. Second low bid was submitted by Kahill Contracting Company, Honolulu, at \$12,750. Complete list of bids will be published shortly.

ALAMEDA, Cal.—Wilkinson & Co., Gilroy, at \$3500 submitted only bid for the well and Byron Jackson Pump Co., 5th and Carleton Sts., Berkeley, at \$1995 submitted low bid for the pump to Constructing Quartermaster, Benton Field Air Depot, in connection with the testing and drilling of a 12-in. well and furnishing and installing 180 GPM capacity deep well turbine pump with electric motor, control panel, etc. Specification No. 9-OCQM. Wilson Machinery Co., Oakland, submitted only other bid on the pump at \$2190. Bids held under advisement.

32—SEWERS & SEWAGE DISPOSAL PLANTS

LONG BEACH, Cal.—Until 10 A. M. June 8, bids will be received by city council to furnish and deliver vitrified clay sewer pipe as follows:

- 1,080 lin. ft. of 8-in. pipe;
21,328 lin. ft. of 10-in. pipe;
6,676 lin. ft. of 12-in. pipe.

Certified check, bank draft or bidder's bond in the sum of 10% must accompany each bid. E. S. Dobbin, city manager.

The pipe will be used for the installation of a 6-mile trunk sewer in the North Long Beach area. The city of Long Beach will pay the cost of the pipe amounting to \$30,000 and R.F.C. funds in the amount of \$64,000 will pay for the labor.

BERKELEY, Alameda Co., Calif.—Until June 6, 10 A. M., bids will be received by Florence E. Turner, city clerk, to construct storm sewer in Ensenada Ave. from Capistrano Ave. south to the existing culvert south of Tacoma Ave., involving:

- (1a) 335 lin. ft. 33-in. sewer pipe reinf. concrete, centric;
- (1b) 335 lin. ft. 33-in. reinf. concrete sewer pipe, machine made (alt. to 1a);
- (1c) 335 lin. ft. 33-in. vit. ironstone sewer pipe (alt. to 1a);
- (2) 75 lin. ft. 10-in. vit. pipe;
- (3) 3 catchbasins;
- (4) 1 manhole with water seal;
- (5) 1 ordinary manhole.

Specifications obtainable from the above office on deposit of \$10. Certified check 10% required with bid.

LOS ANGELES, Calif.—Until 10 A. M., June 21, bids will be received by board of public works to construct the sewage pumping plant to be built in the vicinity of Terminal Way and Dock St., Terminal Island. Bids will be received as follows:

(1) construct a reinforced concrete pumping structure and a reinforced concrete gate chamber structure, including furnishing and installing all equipment and appurtenances, grading, paving all walks, curbs; furnish and apply sulphur-silica compound retazing and paint;

(2) furnishing and installing two duplicate sewage pumping units with all piping, also a sump pump and its connections and floor covering;

(3) lump sum bid for items (1) and (2).

The buildings will be of reinforced concrete construction, waterproofing, steel doors, galvanized iron hand railings, steel and wood ladders, steel gratings and plates, redwood gate skylights, wire glass, copper flashings and gutters, fan ventilator, 60-ft. flag-pole to serve as a ventilation pipe, portable work, Mastipave floor covering, cast iron gates, centrifugal cast iron pipe, galvanized cast iron container and plumbing.

The two pumps will be vertical, centrifugal, single stage, 3150 G.P.M., 50-ft. head, and by change of impellers have required capacity to pump 4275 G.P.M., 60-ft. head. Also includes shaft guard, valves, floats, flow meter, instrument board, surge tank, electrical equipment, etc.

F. L. Weisenheimer, assistant chief engineer of sanitary sewer design.

SAN FRANCISCO.—Bids will be asked in one week by Public Utilities Commission, Felton Taylor, Secretary to construct sewer disposal plant in Tuolumne County, at the Mocassin Creek Power House, Hetch Hetchy involving 1400 ft. 8-in. cast iron pipe concrete work, etc. Estimated cost, \$10,000, which includes cost of pipe which will be furnished by city. Work will consist of excavating and concreting. Plans prepared by L. W. Stocker, San Francisco Water Department, 425 Mason St.

LOS ANGELES, Cal.—The Health and Sanitation Committee has ordered the city attorney and city engineer to prepare an ordinance of intention for the construction of sewers in Pine Crest Drive and right of way west of Lomitas Drive Sewer District. The committee ordered the proceedings at its meeting May 25. The quantities as prepared by J. J. Jessup, city engineer, follow:

(1) Sewer complete (not including house connections and resurfacing, estimated at \$3184.

The main sewer includes:
1603.15 ft. 8-in. pipe inc. 72 8x6-inch wyes;

57.68 ft. conc. reinf. for 8-in. pipe.

- Type X;
3 special manholes "B";
2 standard manholes "B";
1 drop manhole "S";
2 junction chambers "F";
1 flush tank No. 2 (no apparatus);
2 lampholes "Z";
1 existing struc. to be remodeled to drop manhole "S";
10 standard manhole frame and covers.

Average depth of struc., 11.6 ft.

Average depth of house conn., 13.7

(2) 166 ft. house sewers, inc. 16 8-in.

1/2-in. bends;

(4) 81 sq. ft. Class D resurface.

Engineer's estimate, \$3864.30.

33—WATER WORKS

SOUTH PASADENA, Los Angeles Co., Cal.—Until 2 P. M., June 7, bids will be received by city council to furnish cast iron pipe as follows:

(1) 5000 ft. 10-in. class 250 centrifugally cast iron pipe, or class B cast iron pipe, or 10-in. cast iron pipe as manufactured under U. S. Master Specifications No. W.W.P. 423.

All pipe shall conform to specifications No. 53 of the City of South Pasadena or U. S. Master Specifications No. 537 for centrifugally cast iron pipe or U. S. Master Spec. No. W.W.P. 423 and to A.W.W.A. Standard Specifications adopted May, 1908, for cast iron pipe.

Bidders shall state date of delivery. Delivery shall be f.o.b. trenchside at South Pasadena. Certified check, 10%. C. S. Roen, city manager. Frank H. Clough, city engineer.

LOS ANGELES, Cal.—Metropolitan Water District, 306 W 3rd St., Los Angeles, will petition Reconstruction Finance Corporation for an additional loan of \$59,750,000 with which to proceed with construction of the Colorado river aqueduct; loan of \$40,000,000 already authorized, of which \$6,000,000 has been expended.

MOUNTAIN VIEW, Santa Clara Co. Cal.—Leitch Pump Co., San Jose (Pomona pump) at \$949.01 awarded contract by city council to furnish and install one deep well turbine pump.

LOS ANGELES, Cal.—Hearing on the improvement of Beverly Blvd., bet. Hilgard Ave. and Paseo Miramar, has been continued by the city council to July 11. The proposed work involves: 18,000 cu. yds. grading; 17,230 sq. ft. concrete pave., 6-in.; 183,325 sq. ft. asphaltic conc. pavement, 6-in.; 145,880 sq. ft. asphaltic concrete pavement, 7-in.; 3,900 sq. ft. concrete pave., 8-in.; 8,075 sq. ft. asphalt concrete pavement, varying thickness; 44,350 lin. ft. curb; 44,080 sq. ft. gutter; storm drain; walls; water system; 69 water services. Engineer's estimate, \$140,397.77.

SELMA, Fresno Co. Cal.—City votes to make survey for municipal water system at election held May 25.

SONOMA, Sonoma Co., Cal. — As previously reported, until June 7, 8 P. M., bids will be received by H. W. Gottenberg, city clerk, to furnish pipe and construct reservoir in connection with municipal water system for which \$33,000 bonds have been sold. This portion of the project involves the complete water main, service lines and construction of a 400,000 gal. reinforced concrete reservoir with roof, including:

DISTRIBUTION SYSTEM

- (1) 970 lin. ft. 8-in. mains under conc. pavement, incl. fittings ALT. c. i. OR steel pipe;
- (2) 1180 lin. ft. do, under asphalt pavement, incl. fittings ALT. c. i. OR steel pipe;
- (3) 280 lin. ft. do, under or in rock cut near reservoir site ALT. c. i. OR steel pipe;
- (4) 2720 lin. ft. do, under dirt surf., incl. fittings, ALT. c. i. OR steel pipe;
- (5) 1220 lin. ft. 6-in. do under conc. pave., incl. fittings, ALT. c. i. OR steel pipe;
- (6) 1830 lin. ft. do, under asph. pave. incl. fittings, ALT c. i. OR steel pipe;
- (7) 1300 lin. ft. do, under oil macadam, incl. fittings, ALT. c. i. OR steel pipe;
- (8) 2770 lin. ft. do, under dirt surface, incl. fittings, ALT. c. i., OR steel pipe;
- (9) 200 lin. ft. 4-in. do, under conc. pave., incl. fittings, ALT, c. i. OR steel pipe;
- (10) 2430 lin. ft. 4-in. do, under asph. pave., incl. fittings, ALT. c. i.

- OR steel pipe;
- (11) 800 lin. ft. do, under oil macadam, incl. fittings, ALT. c. i. OR steel pipe;
- (12) 6400 lin. ft. do, under dirt surface, incl. fittings, ALT. c. i. OR steel pipe;
- (13) 140 lin. ft. 2-in. do, under conc. pave. incl. fittings, ALT. galv. wr. iron OR steel pipe;
- (14) 450 lin. ft. 2-in. do, under asph. pave., incl. fittings, ALT. galv. wr. iron OR steel pipe;
- (15) 300 lin. ft. 2-in. do, under oil mac. pave., incl. fittings, ALT. galv. wr. iron OR steel pipe;
- (16) 9200 lin. ft. do, under dirt surf., incl. fittings, ALT. galv. wr. iron OR steel pipe;
- (17) 6 8-in. gate valves, ALT. hub ends for c. i. pipe or flanged ends for steel;
- (18) 12 6-in. do, ALT. hub ends, or flanged ends;
- (19) 14 4-in. do, hub or flanged ends ALT.;
- (20) 12 2-in. gate valves, provided with screwed ends;
- (21a) 17 disconnect exist, fire hydrants from old system and re-connect same to new system complete, 6-in. connections, including pipe
- (21b) 15 do, 4-in. connections, incl. pipe;
- 21c) 2 do, 2-in. do;
- (22a) 200 ¾-in. furnish and install services from main to stop cock including meter, meter box and re-connecting to house service lines;
- (22b) 1 1-in. do;
- (22c) 1 1½-in. do;
- (23) 148 ¾-in. furnish and install services from main to point of re-connecting to lead to houses, excluding the meter and meter box and re-connecting to existing house lines.

ADD OR DEDUCT for unit on the following, to complete SERVICE CONNECTIONS:

- (24a) 302 ¾-in. copper service expansion leads, 15-in. long, complete with corporation cock at main and with union at other end;
- (24b) 8 1-in. do;
- (24c) 4 1½-in. do;
- (24d) 4 2-in. do;
- (25a) 8100 lin. ft. ¾-in. galv. iron or steel service pipe;
- (25b) 1470 lin. ft. 1-in. do;
- (25c) 440 lin. ft. 1½-in. do;
- (25d) 200 lin. ft. 2-in. do;
- (26a) 344 ¾-in. service connections;
- (26b) 1 1½-in. do;
- (26c) 3 2-in. do;
- (27a) 200 ¾-in. meters and meter boxes;
- (27b) 1 1-in. do;
- (27c) 1 1½-in. do;
- (28) 148 ¾-in. meter and meter boxes to be furnished only;
- (29a) 20 lin. ft. 2-in. galv. wrought iron pipe;
- (29b) 20 lin. ft. 2-in. steel pipe;
- (29c) 180 lin. ft. 4-in. cast iron pipe;
- (29d) 180 lin. ft. 4-in. steel pipe ALT.;
- (29e) 230 lin. ft. 6-in. cast iron pipe;
- (29f) 230 lin. ft. 6-in. steel pipe;
- (30a) 400,000 gal. reinf. concrete reservoir, with wood roof, including all redwood in roof wood structure OR including part redwood (posts and sills) and the balance in Oregon Pine materials; Alternate A complete;
- (30b) do, Alternate B complete, as above.

Specifications prepared by Edward K. Hussey, Hussey & Belcher, Syndicate Bldg., Oakland.

CULVER CITY, Los Angeles Co., Cal.—International Filter Corp., 514 E. 8th St., Los Angeles, awarded contract by the American States Water Corp. at \$12,000 to furnish and install a filter system at the Sentney Pumping Plant, located at Sentney

Ave., near Washington Blvd. The plant will consist of a battery of three horizontal pressure activated carbon filters and will be rated at about 1,250,000 gallons per day. Concrete and other work incidental to the construction of the plant will be done by the water company by force account under the direction of the engineer. C. P. Harnish, 1140 Western Pacific Bldg., Los Angeles, is the chief engineer of the American States Water Company.

EUREKA, Humboldt Co., Cal.—Brizards, Arcata, at approximately \$1200 awarded contract by District Quartermaster, U. S. Forest Service, to install outside water system in three Civilian Conservation Corps camps at Big Bar, Hyampom and Gasquet.

PASADENA, Cal.—Until 11 A. M., June 6, new bids will be received by board of directors to furnish and deliver f.o.b. the municipal light plant, Glenarm and Fair Oaks Avenue, one arch and two walls and appurtenances for furnaces for both single and twin setting for Stirling boilers, in accordance with revised specifications for air cooled suspended arches and walls obtainable from Superintendent of the Light and Power Department, B. F. DeLanty. Certified check 5%. The bids received May 20 were rejected May 23.

OAKLAND, Cal.—Until June 9, 8 P. M., bids will be received by East Bay Municipal Utility District, 512 16th St. Oakland, John H. Kimball, secretary, to furnish:

- (1) 3150 concrete meter boxes;
- (2) 5150 concrete covers.

Specifications LS-106 are obtainable from above office.

OAKLAND, Cal.—Until June 9, 8 P. M., bids will be received by East Bay Municipal Utility District, 512 16th St. Oakland, John H. Kimball, secretary, to furnish two steel storage tanks, 120,000-gal. capacity, one for the Sarnap County Water District and the other for the Fairview County Water District, in connection with construction of reservoirs and pipe lines, work being done by the East Bay District by force account. Further information obtainable from above office.

OAKLAND, Cal.—Identical bids at \$4625 submitted by the following firms to East Bay Municipal Utility District, Oakland, to furnish 50,000 lin. ft. ¾-in. seamless copper tubing:

- C. W. Marwedel, San Francisco.
- Oakland Plumbing & Supply Co.
- Richmond Sanitary Co.
- Phelps-Dodge Copper Co.
- Pacific Metals Company.
- Tay-Holbrook Company.
- Dunham, Carrigan & Hayden Co., San Francisco.
- Grinnell Company of California, San Francisco.
- American Brass & Copper Sup. Co.
- Walworth-California Company.
- Marshall Newell Supply Co.
- Ducommun Corporation.
- Mueller Company.
- Crane Company.

Baltimore Tube Co. bid \$5000. All bids 1% discount for cash 10 days. Bids held under advisement.

35—TUNNELS

LOS ANGELES, Cal.—A. Teichert & Son of Sacramento, awarded a sub-contract by Winston Bros. Co. to construct 12 miles of graded and oiled access road in connection with the construction of the Iron Mountain and Coxcomb tunnels. A. Teichert & Son have the contract for constructing for the Metropolitan Water District 21 miles of highway in the Des-

ent Center-Grommet section.

Winston Bros. Co.] have opened an office at 920 Title Guarantee Building, Los Angeles, with J. C. Agnew of Minneapolis in charge.

29—STREETS AND HIGHWAYS

SAN FRANCISCO.—Department of Public Works, S. J. Hester, Secretary plans to improve crossing of Innes Ave. and Mendell, involving:

- (1) 110 ft. unarmored conc. curb;
- (2) 880 sq. ft. 1-course concrete sidewalk;
- (3) 3 brick catchbasins;
- (4) 100 ft. 10-in. V.C.P. sewer;
- (5) 4190 sq. ft. asph. conc. pave.

Estimated cost, \$1527. Specifications will be available from the office of John J. Casey, city engineer, 3rd floor, City Hall. 29

SAN FRANCISCO.—Department of Public Works, S. J. Hester, Secretary plans to improve crossing of Gaven and Merrill, involving:

- (1) 400 cu. yds. excavation;
- (2) 63 ft. armored concrete curb;
- (3) 284 sq. ft. 1-course concrete sidewalk;
- (4) 25 ft. 12-in. V.C.P. sewer;
- (5) 3 brick catchbasins;
- (6) 60 ft. 10-in. V.C.P. culvert;
- (7) 2686 sq. ft. asph. conc. pave.

Estimated cost, \$1150. Specifications will be available from the office of John J. Casey, city engineer, 3rd floor, City Hall. 29

SAN FRANCISCO.—Department of Public Works, S. J. Hester, Secretary plans to construct sidewalks on Oneida Ave., Otsego to Delano, et al, involving 6000 sq. ft. 1-course concrete sidewalks. Estimated cost, \$1000.00. Specifications will be available from John J. Casey, City Engineer, third floor, City Hall.

OAKLAND, Cal.—Until June 9, 8 P. M. bids will be received by East Bay Municipal Utility District, 512 16th St. Oakland, John H. Kimball, secretary, for 40,000 sq. ft. street repair work, as follows:

- (1) 1,300 cu. ft. asph. conc. base, complete in place;
- (2) 35,000 sq. ft. asph. street paving, complete surface;
- (3) 3,000 sq. ft. asph. street paving repair, skin patching only;
- (4) 500 cu. yds. concrete, wet mix, delivered at trench, exclusive of spreading.

Specifications LS-107 are obtainable from above office.

MADERA AND FRESNO Counties, Cal.—Until June 15, 2 P. M., bids will be received by C. H. Sweetser, District Engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco, for approximately 30 miles of asphaltic surface treatment on Sections A, B and C, Route 74, Northfork National Forest Highway, Sierra National Forest, involving 230,000 gals. furnish and apply liquid asphaltic road material. Specifications obtainable from above office on deposit of \$10, check payable to Regional Fiscal Agent, U. S. Forest Service. 29

RED BLUFF, Tehama Co., Calif.—Directors of Joint Highway District No. 18, Butte and Tehama counties, have authorized Martin Polk, district engineer, to prepare plans and specifications for construction on district road between Proberta and Los Molinos, bids to be opened by June 20. Estimated cost, \$30,000, of which \$500 will be borne by Butte County, \$16,000 by Tehama County, and the

balance by the state from the gas tax. 9

SAN JOSE, Santa Clara Co., Cal.—Until June 12, 11 A.M., bids will be received by Henry A. Pfister, county clerk, to improve Day Road from Monterey Road to Watsonville Road, involving 409,600 sq. ft. oil macadam. Specification obtainable from Robert Chandler, county surveyor, on payment of \$1, not returnable.

LOS ANGELES, Cal.—Until 10 A. M., June 7, bids will be received by Board of Public Works for improving 32nd St., from Figueroa St. to Shrine Place, and Royal St. from 32nd St. to Jefferson St., in the 32nd St. and University Ave. Improvement District, under Cash Contract. The work will involve:

- STREET IMPROVEMENT—**
- Grading (not figured);
 - 150 sq. ft. 8-in. concrete (local depressions);
 - 139,460 sq. ft. 6-in. compressed concrete paving;
 - 1,955 sq. ft. 4-in. asph. concr. wearing surface;
 - 142 sq. ft. 3-in. asph. concr. wearing surface;
 - 1,665 sq. ft. 2-in. asph. concr. wearing surface;
 - 17 sq. ft. 8-in. asph. concr. wearing surface;
 - 1,169 sq. ft. asph. concr. wearing surf. (var. thickness, average 3-in.);
 - 50 sq. ft. asph. concr. wear. surf. (var. thickness, average 2-in.);
 - 631 sq. ft. 6-in. walk (driveways);
 - 400 sq. ft. 4-in. walk (driveways);
 - 32 sq. ft. 6-in. gutter;
 - 55 sq. ft. 8-in. gutter;
 - 1,022 ft. unplas. heavy curb;
 - 17 ft. special steel curb;
 - 868 sq. ft. one-course walk.

SANITARY SEWER, including:

- 217.82 ft. 8-in. sewer, incl. 11 8x6-in. wyes;
- 398 ft. 6-in. sewer, incl. 17 6-in. 1/8th beds;

One standard flush tank, No. 2;
One standard manhole frame & cover;
One existing flush tank to be remodelled to manhole "B."

STORM DRAIN, including:

- 454 ft. 21-in. pipe;
- 42 ft. 18-in. pipe;
- 21 ft. 15-in. pipe;
- 24 ft. 12-in. pipe;
- 2 catchbasins, No. 31;
- 1 catchbasin, No. 29;
- 3 catchbasin frame & cover sets
- 1 manhole "EZ.;"
- 2 manhole frame and cover sets
- R-model ornam. lighting conduit;
- One special manhole "EZ."

REMOVALS:

- 1,032 ft. curb;
- 1,225 sq. ft. walk;
- 3,389 sq. ft. gutter;
- 797 sq. ft. driveway;
- 343 sp. ft. wearing surface;
- 70 sq. ft. concrete paving;
- 15,294 sq. ft. asph. surface.

PEARL HARBOR, T. H. — Jonah Kumalae at \$4700 submitted low bid under Spec. No. 7134 for additional paving in the vicinity of Seaplane Hangar, Fleet Air Base, Pearl Harbor. Complete bids follow:

Jonah Kumalae	\$4700
E. E. Black, Ltd.....	6200
Walker & Olund.....	5161
R. E. Woolley	6396
Pong & Figueira.....	6950
Hawaiian Contracting Co.....	7628

Bids held under advisement.

ALAMEDA, Alameda Co., Calif.—Following have procured plans for the purpose of submitting bids to the Constructing Quartermaster, Benton Field Air Depot, 33 Pacific Ave., Alameda, in connection with the grading of runways, placing rock underfill, and con-

structing extension to drainage system at the Benton Field Air Depot, Alameda:

- F. W. Snook, 596 Clay St., San Francisco.
- Oakland Sewer Construction Co.
- J. Catucci, 1212 18th Ave., Oakland.
- J. A. Fazio, 402 Castro St., Oakland.
- Peninsula Paving Co., 225 Bush St., San Francisco.
- W. H. Larsen, 432 Michigan, Berkeley.
- Hutchinson Co., 1450 Harrison St., Oakland.
- Central California Roads, 2779 Poplar St., Oakland.

ALAMEDA, Alameda Co., Calif.—Following have procured plans for the purpose of submitting bids to the Constructing Quartermaster, Benton Field Air Depot, 33 Pacific Ave., Alameda, on June 15 in connection with placing bituminous or concrete surfacing on roads and paved areas at Benton Field Air Depot, Alameda:

- Central California Roads, 2779 Poplar St., Oakland.
- Heafey-Moore Co., 344 High Street, Oakland.
- Hutchinson Co., 1450 Harrison St., Oakland.
- Independent Concrete Co., 46th and Clement Ave., Oakland.
- W. H. Larsen, 432 Michigan, Berkeley.
- Peninsula Paving Co., 225 Bush St., San Francisco.
- J. Catucci, 1212 18th Ave., Oakland.
- K. E. Parker Co., 135 South Park, San Francisco.

ORANGE COUNTY, Cal. — Griffith Co., 502 Los Angeles Railway Bldg., Los Angeles, at \$3560 submitted lone bid May 31 to District Engineer, State Highway Commission, Los Angeles, for highway construction between Dohney Park and San Juan Creek; portions of existing pavement to be widened and curves to be super-elevated with asphalt concrete, involving:

- (1) 1000 sq. yds. subgrade for pave.;
- (2) 800 tons sq. yds. concrete in place;
- (3) 1500 sq. yds. asph. paint linder in place.

LOS ANGELES, COUNTY, Cal.—Until June 21, 2 P. M., bids will be received by State Highway Commission, Sacramento, to grade and pave with Portland cement concrete 0.3 ml. San Gabriel River bridge approaches, involving:

- (1) clear and grub right-of-way;
- (2) 34,000 cu. yds. imp. borrow;
- (3) 5300 sq. yds. subgrade for pave.;
- (4) 1110 cu. yds. class A Port. cem. conc. (pave.);
- (5) 25,000 lbs. bar reinf. steel (pave.);
- (6) 200 bbls. heavy fuel oil;
- (7) 950 M gal. water;
- (8) 600 lin. ft. bank protection fence;
- (9) 1900 lin. ft. lam. timber guard rail;
- (10) 14 sta. finish roadway.

SAN JOSE, Santa Clara Co., Cal.—Until June 12, 11 A. M., bids will be received by Henry A. Pfister, county clerk, to improve Middlefield Road, from Matadero Creek to Bayshore Highway, involving 302,900 sq. ft. oil macadam. Specifications obtainable from Robert Chandler, county surveyor, on payment of \$1, not returnable.

SACRAMENTO, Cal.—County supervisors plan highway improvements totaling \$15,000, involving construction in the 4th and 5th supervisory districts. Chas. W. Deterding, Jr., county engineer. 9

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

IMPROVE LAS PALMAS AVE.—LOS ANGELES CITY

LOS ANGELES, Cal.—Carl Ehrhart, 2700 Exposition Place, submitted low bid to board of public works May 24 at \$5139.03 to improve Palmas Ave., between Milner Road and Highland Ave., 396 ft. center line. The work will involve:

- (1) grading (392 cu. yds. cut, 212 cu. yds. fill);
- (2) 29 sq. ft. 8-in. concrete local depression;
- (3) 7383 sq. ft. 6-in. conc. paving;
- (4) 60 sq. ft. 4-in. concrete paving (driveways);
- (5) 579 sq. ft. 4-in. asphalt concrete wearing surface;
- (6) 48 sq. ft. asphalt concrete wearing surface (variable thickness)
- (7) 100 sq. ft. Class C resurfacing;
- (8) 80 sq. ft. Class D resurfacing;
- (9) 711 ft. reinf. integral curb;
- (10) 80 ft. unplastered light curb;
- (11) 9 ft. steel curb plate, 1/4-in. thick
- (12) 1265 sq. ft. 1-course sidewalk;
- (13) 196 sq. ft. 6-in. concrete gutter;
- (14) storm drain complete;
- (15) 561 sq. ft. 2-in. rock and oil road-way;

- (16) 27 ft. ornamental iron railing;
- (17) sanitary sewer complete;
- (18) 89 ft. house connection sewers;
- (19) remodel manholes (lump sum);
- (20) water system;
- (21) reinf. conc. retaining wall;
- (22) one water service;
- (23) reconstruct ornamental lighting conduit, etc.

Remove: 49 ft. curb, 124 sq. ft. walk, 48 sq. ft. gutter, 48 sq. ft. wearing surface, 397 sq. ft. driveway, 14 concrete steps, 12 ft. side walls and bottom for open concrete storm drain 5 ft. concrete wall, 29 sq. ft. concrete paving, one stone pillar, 129 ft. wire fence, 49 ft. lattice fence, one tree, 3 trees to be trimmed, one stump and one bridge.

The total bids were:

- (A) Carl Ehrhart, \$5439.03.
- (B) John Topich, \$5791.62.
- (C) Bob Bosko, \$6106.43.
- (D) R. A. Wattson, \$7332.54.
- (E) Engineer's estimate, \$5949.67.

The unit bids follow:

	(A)	(B)	(C)	(D)	(E)
(1).....	\$1000.00	\$ 410.00	\$ 470.00	\$ 700.00	\$ 410.00
(2).....	.20	.20	.22	.40	.25
(3).....	.16	.18	.20	.26	.213
(4).....	.10	.14	.14	.18	.12
(5).....	.10	.14	.15	.18	.12
(6).....	.05	.10	.05	.10	.05
(7).....	.20	.35	.20	.30	.25
(8).....	.20	.35	.20	.40	.30
(9).....	.50	.50	.51	.60	.55
(10).....	.40	.40	.45	1.00	.50
(11).....	2.00	1.50	2.00	1.00	.75
(12).....	.16	.15	.15	.30	.15
(13).....	.10	.12	.14	.20	.15
(14).....	.20	.20	.20	.30	.25
(15).....	1200.00	1535.00	1705.00	1750.00	1537.00
(16).....	3.00	4.00	3.90	6.00	4.00
(17).....	250.00	300.00	313.00	350.00	293.00
(18).....	1.00	1.00	1.00	2.00	1.00
(19).....	10.00	15.00	10.00	10.00	10.00
(20).....	350.00	275.00	292.00	270.00	260.00
(21).....	20.00	22.00	22.50	25.00	20.00
(22).....	400.00	630.00	630.00	690.00	630.00
(23).....	135.00	165.00	165.00	170.00	165.00

OFFICERS' QUARTERS — FORT MASON

SAN FRANCISCO—William Spivock, 11obart Bldg., at \$9883 submitted low bid to Constructing Quartermaster, Fort Mason, for the construction of a two-story hollow tile field officers' quarters to be erected at Fort Mason for the U. S. Government. Plans prepared by the Constructing Quartermaster, Fort Mason. Following bids received:

- (1) Work complete;
- (2) If Colored Keenes Cement Plaster-Textured Finish is used in place of plaster, add.
- (3) If sub-soil drain around footings is omitted, deduct.

- (4) If all window and door screens are omitted, deduct.
- (5) If all window and door shades are omitted, deduct.
- (6) If curtain rods are omitted, deduct
- (7) If tile is used, add.
- (8) If lighting fixtures are furnished by contractor and not by Government, add.

- (A) William Spivock \$ 9,883
- (B) Frank J. Reilly..... 10,891
- (C) E. Bradshaw 10,993
- (D) Val Franz 11,381
- (E) Leo Epp 11,685
- (F) A. Nelson 11,829
- (G) T. I. Strand..... 11,898
- (H) Schuler & McDonald..... 12,449

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A)	\$9 883	\$ 50.00	\$ 60.00	\$125.00	\$ 40.00	\$20.00	\$ —	\$110.00
(B)	10,891	100.00	70.00	120.00	120.00	15.00	25.00	115.00
(C)	10,993	50.00	60.00	100.00	50.00	60.00	50.00	125.00
(D)	11,381	50.00	90.00	115.00	54.00	12.00	26.00	75.00
(E)	11,685	125.00	50.00	50.00	35.00	10.00	30.00	250.00
(F)	11,829	50.00	75.00	125.00	50.00	20.00	—	200.00
(G)	11,898	60.00	80.00	150.00	64.00	16.00	—	—
(H)	12,449	145.00	105.00	50.00	60.00	20.00	95.00	300.00

Bids held under advisement.

(1415) 1st report May 8; 3rd May 12, 1933.

BIDS OPENED

CAPITOLA, Santa Cruz Co., Cal.—Geo. C. DeGolyer, Federal Telegraph Bldg., Oakland, at \$20,804.25 on combination A and \$22,028.25 on combination B submitted low bid May 29 to county supervisors to construct outfall sewer system, involving:

- (1a) screening and pumping plant and septic tank struc. comp. in place;
- (1b) screening and pumping plant and separate sludge digestion tank structure complete in place;
- (2a) screening and pumping plant and septic tank equip. comp. in place;
- (2b) screening and pumping plant and separate sludge digestion tank equip. complete in place;
- (3) 27.68 cu. yds. Class A concrete in place reinforcement for present existing rock wall;
- (4) 153.5 cu. yds. Class B concrete in sea wall;
- (5) 12 cu. yds. struc. excav. for (3) and (4);
- (6a) 1000 lin. ft. 8-in. dia. extra heavy wrought iron pipe with concrete anchor block and 90 deg. cast iron ell at outlet end complete in place as specified for outfall sewer;

- (6b) 800 lin. ft. do;
- (6c) 700 lin. ft. do;
- (6d) 600 lin. ft. do;
- (6e) 1000 lin. ft. 8-in. stand. do;
- (6f) 800 lin. ft. do;
- (6g) 700 lin. ft. do;
- (6h) 600 lin. ft. do.

Complete bids figured on items (a) 1a, 2a, 3, 4, 5 and 6a; and on (b), 1b, 2b, 3, 4, 5 and 6a, follow:

- (A) Geo. C. DeGolyer, Oakland, (a) \$20,804.25; (b) \$22,028.25.
- (B) Dixon Delhi, San Francisco, (a) \$23,780.59; (b) \$25,023.59.
- (C) Robt. B. McNair, Oakland, (a) \$26,202.10; (b) \$27,202.10.
- (D) Fred W. Snook, San Francisco, (a) \$28,477.10; (b) \$29,133.10.

Unit bids follow:

	(A)	(B)	(C)	(D)
(1a)	\$6756.00	\$9258.00	\$8800.00	\$9994.00
(1b)	6840.00	9040.00	8700.00	9714.00
(2a)	4600.00	5002.00	5450.00	5521.00
(2b)	5750.00	6463.00	6650.00	6457.00
(3)	25.00	16.50	20.00	20.00
(4)	17.50	13.25	15.00	25.00
(5)	5.00	2.50	8.00	4.00
(6a)	6000.00	7000.00	9000.00	8523.00
(6b)	6000.00	6700.00	7300.00	6704.00
(6c)	5300.00	6050.00	6500.00	5856.00
(6d)	4650.00	6050.00	5600.00	5006.00
(6e)	5500.00	6760.00	7700.00	7502.00
(6f)	4750.00	5600.00	6600.00	5891.00
(6g)	4300.00	5095.00	5900.00	5133.00
(6h)	3600.00	4560.00	5100.00	4377.00

Bids held under advisement until June 7. 22

SAN FRANCISCO — Fay Improvement Co., Phelan Bldg., at \$1927.75 submitted low bid May 31 to Department of Public Works, to improve Lawton St., 31th to 39th Aves., involving:

- (1) 3 brick manholes;
- (2) 345 ft. 15-in V.C.P. sewer;
- (3) 345 ft. 18-in. do;
- (4) 40 ft. 8-in. do;
- (5) 12 6x15-in. Y branches;
- (6) 8 6x18-in. do;

Complete bids follow:

- (A) Fay Improvement Co., \$1927.75.
- (B) C. L. Harney, \$2002.
- (C) Eaton & Smith, \$2460.

	(A)	(B)	(C)
(1).....	\$ 1.00	\$ 2.00	\$ 1.00
(2).....	2.27	3.00	2.70
(3).....	2.28	3.00	2.10
(4).....	2.75	5.90	2.00
(5).....	3.75	5.00	1.50
(6).....	85.00	70.00	90.00

RECON. MANTECA BR.—STANISLAUS & SAN JOAQUIN

STANISLAUS AND SAN JOAQUIN Co., Cal.—Carl N. Swenson, 355 Stockton Ave., San Jose, at \$79,932.23 submitted low bid May 24 to State Highway Commission, Sacramento, to reconstruct a bridge across Stanislaus River 7.6 ml. south of Manteca consisting of redecking the two 103-ft. earth filled arch spans and replacing timber trestle approach span with concrete decks on concrete pile bents, and grading and paving approaches with Portland cement concrete and bituminous treated crushed gravel or stone surfacing, involving:
(1) 5 trees remove and dispose of;
(2) 1 timber detour bridge;
(3) 514 cu. yds. remove and dispose of Port. cem. conc. waste pile;
(4) 4800 cu. yds. rdwy. excav., unclassified;
(5) 160 cu. yds. struc. excav.;
(6) 1100 cu. yds. excav. (arch filling);
(7) 700 sta. yds. overhaul;
(8) 4000 cu. yds. imp. borrow;
(9) 1486 sq. yds. subgrade for pave.;
(10) 1535 tons untreated crushed stone or gravel (detour & base course)
(11) 154 tons crushed gravel or stone (bit. treated surf.);
(12) 8 tons cut-back asphalt;
(13) 16 bbls. light fuel oil (base course and borders);
(14) 182 bbls. heavy fuel oil (detours)
(15) 3810 lin. ft. reinf. conc. piles (including test piles);
(16) 1240 cu. yds. Class A Portland cem. conc. (struc.);
(17) 320 cu. yds. do (pave.);

- (18) 180,000 lbs. bar reinf. steel (pave. and struc.);
(19) \$27,000 lbs struc. steel;
(20) 4324 lbs. cast steel;
(21) 84 lin. ft. 24-in. corr. metal pipe
(22) 1 existing bridge to be removed;
(23) .24 mile new property fence;
(24) 1 14-ft. x 58-in. tubular steel gate
(25) 2475 lin. ft. solid timber railing;
(26) 170 cu. yds. salvage surfacing;
(27) 90 M. gals. water apply to base, surfacing and borders;
(28) 104 cu. yds. Port. cem. conc. in existing pave. to be removed;
(29) 34 sta. finish roadway;
(30) 7 monuments complete in place;
(31) 1 lot misc. items of work.

State will furnish corrugated metal pipe.

Complete bids follow:

- (A) Carl N. Swenson, San Jose, \$79,932.23.
(B) Neves & Harp, Santa Clara, \$81,422.25.
(C) J. F. Knapp, Oakland, \$83,480.
(D) Bodenhamer Constr. Co., Oakland, \$84,469.96.
(E) Fredrickson & Watson, Oakland, \$85,995.08.
(F) N. M. Ball and F. O. Bohnett, Berkeley, \$86,508.20.
(G) Rocca & Caletti, San Rafael, \$90,876.50.
(H) J. F. Shepherd, Stockton, \$94,310.96.
(I) M. B. McGowan, San Francisco, \$348,417.

Unit bids follow:

Table with 11 columns (A-I) and 31 rows of unit bid prices for various construction items.

IMPROVE WOODSIDE AVE. — SAN FRANCISCO

SAN FRANCISCO. — Fay Imp. Co., Pbelan Bldg., at \$20,478.85 submitted low bid May 31 to Department of Public Works to improve Woodside Ave., Portola to Laguna Honda Blvd., involving:
(1) 4100 cu. yds. grading (excav.);
(2) 100 cu. yds. do (fill);
(3) 3960 ft. unarmored conc. curb;
(4) 25 ft. conc. curb, reset;
(5) 11 brick catchbasins;

- (6) 309 ft. 10-in. V.C.P. culvert;
(7) 2 brick catchbasins, reset;
(8) 18,000 sq. ft. 1-course concrete sidewalk;
(9) 15 ft. 8-in. V.C.P. sewer;
(10) 160 cu. yds. rubble wall reconstr.;
(11) 80,400 sq. ft. asph. conc. pave.;
(12) 2400 sq. ft. asph. conc. conform wearing surface.

Complete bids follow:

Table with 12 columns (1-12) and 6 rows (A-F) of unit bid prices for Woodside Ave. project.

SANTA ROSA, Sonoma Co., Calif.—All bids rejected by county supervisors and work will be done by day labor to construct four miles of new road on Skaggs Springs-Stewart's Pt. road, 5th Supervisorial District, involving:

- (1) 66,000 cu. yds. excavation;
(2) 1,000 ft. 12-in. culvert pipe;
(3) 1,000 ft. 15- or 16-in. do;
(4) 600 ft. 24-in. do;
(5) 500 ft. 30-in. do;
(6) 500 ft. 36-in. do;
(7) 85 MFBM redwood timber;
(8) 5,000 lbs. bolts, plates & dowels;
(9) 18 cu. yds. concrete;
(10) 1,800 lbs. reinf. steel;
(11) 1,000 ft. place and haul 12-in. culvert pipe;
(12) 1,000 ft. place and haul 16-in. do;
(13) 600 ft. place and haul 24-in. do;
(14) 500 ft. place and haul 30-in. do.

Complete bids follow:

- (A) Rocca & Caletti, San Rafael, \$32,398.00.
(B) Meyer Rosenberg, San Francisco, \$43,311.00.

Unit bids follow:

Table with 3 columns (1-3) and 14 rows of unit bid prices for Santa Rosa project.

LOS ANGELES, Cal.—Chas. Booth, 5922 1/2 Estrella St., submitted low bid to Board of Public Works, May 24, at \$1029.05 to improve second alley west of Cabrillo Ave., between 17th St. and 18th St., under the 1911 Act. The engineer's list of quantities follow:

- (1) grading (168 cu. yds. cut, 2 cu. yds. fill);
(2) 5401 sq. ft. 5-in. concrete paving;
(3) 6 ft. unplastered light curb;
(4) 10 sq. ft. one-course walk.

Remove: 6 ft. curb, 10 sq. ft. walk.

The bids were:

- (A) Charles Booth.
(B) John Topich.
(C) Arthur E. Pearson.
(D) Griffith Co.

(E) Engineer's estimate.

Table with 5 columns (A-E) and 5 rows of bid prices for Los Angeles project.

OAKLAND, Cal.—U. S. Pipe and Foundry Co., Monadnock Bldg., San Francisco, at \$60,267.50 (if awarded all items) and at \$61,412.50 total bid, submitted low bid to East Bay Municipal Utility District, Oakland, to furnish:

- (1) 73,000 lin. ft. 4-in. cast iron pipe;
(2) 30,000 lin. ft. 6-in. do;
(3) 24,000 lin. ft. 8-in. do.

Complete bids follow:

- (A) U. S. Pipe & Foundry Co., San Francisco, \$60,267.50.
(B) R. D. Wood & Co., \$61,865.00.
(C) Pacific States C. I. Pipe Co., \$63,280.00.
(D) American C. I. Pipe Co., \$64,550.
(E) Ipamco Pipe Corp., \$67,495.00.

Unit bids follow:

Table with 3 columns (1-3) and 5 rows (A-E) of unit bid prices for Oakland project.

Bids held under advisement.

SAN PABLO PIPE LINE — SAN FRANCISCO

SAN FRANCISCO—E. J. Treacy, 309 Call Bldg., San Francisco, at \$7390.25 submitted low bid May 31, to Public Utilities Commission to lay 16-in. cast iron pipe line on San Pablo Ave., Yerba to Wildwood Ave., involving: (1) 5560 ft. excav. and backfill, trench (2) 50 cu. yds. additional do; (3) 340 sq. ft. additional pavement remove and replace, bitumen on concrete; (4) 333 tons install pipe and fittings;

(5) 1850 ft. make joints; (6) 1 cu. yd. plain concrete; (7) 15,215 sq. ft. repave, bitumen on concrete; Specifications obtainable from San Francisco Water Department, Room 605, 425 Mason St., on deposit of \$10. Certified check 10% required with bid. Estimated cost \$11,710. Complete bids follow: (A) E. J. Treacy, \$7390.25. (B) Lowrie Paving Co., \$7477.80.

(C) J. O'Shea, \$7772.625. (D) S. F. Water Dept., \$8725.55. (E) Fred W. Snook, \$7976.35. (F) W. J. Tobin, \$8169.96. (G) Theo. Cohn, \$8481.35. (H) Eaton & Smith, \$8538.25. (I) Pacific Pavements, \$8766.90. (J) M. B. McGowan, \$8791.23. (K) Fay Improvement Co., \$9540.82. (L) Harvey E. Conner, Redwood City, \$9574. Unit bids follow:

Table with 12 columns (A-L) and 7 rows of unit bid prices for items 1 through 7.

1.3-MI. GRADE & CEMENT CONCRETE PAVE — L. A. CO.

LOS ANGELES CO. Cal. — C. O. Sparks, 2309 E. 9th St., Los Angeles, at \$43,218.25 submitted low bid May 24 to State Highway Commission, Sacramento, to grade and pave with Portland cement concrete 1.3 mi. between Fullerton and Pomona at Brea Canyon Summit, involving: (1) 64 sta. clear & grub right-of-way (2) 64,000 cu. yds. rdwy. excav., unclass; (3) 310,000 sta. yds. overhaul; (4) 1800 cu. yds. struc. excav.; (5) 14,600 sq. yds. subgrade for pave; (6) 2135 cu. yds. class A Portland cement concrete (pave.); (7) 220 cu. yds. do (struc.); (8) 91,800 lbs. bar reinf. fl steel (pave and struc); (9) 200 lin. ft. 8-in. corr. metal pipe; (10) 370 lin. ft. 24-in. do;

(11) 130 lin. ft. 30-in. do; (12) 8 lin. ft. 36-in. corr metal pipe; (13) 1700 M. gals. water; (14) 80 tons broken stone (bit. macadam); (15) 3.5 tons grade E asph. (bot. macadam); (16) 2200 cu. yds. concrete remove from existing pavement; (17) 14 culvert markers; (18) 2 mi. type A property fence; (19) 0.6 mi. type B do; (20) 6 fence gates; (21) 69 sta. finish roadway; (22) 13 monuments complete in place; State will furnish corrugated metal pipe and spillway assemblies. Complete bids follow: (A) C. O. Sparks, Los Angeles, \$43,218.25. (B) J. L. McClain, Los Angeles, \$46,832.50.

(C) Oswald Bros., Los Angeles, \$48,236.70. (D) B. G. Carroll, San Diego, \$48,585.45. (E) Weymouth Crowell Co. and E. Penn Watson, Pasadena, \$48,787.30. (F) Basich Bros., Torrance, \$49,295.75. (G) Gogo & Rados, Los Angeles, \$50,832.20. (H) Matich Bros., Elsinore, \$51,504.90. (I) Sander Pierson, Santa Monica, \$53,558.25. (J) United Conc. Pipe Corp., Los Angeles, \$53,837. (K) J. L. Conner and K. Kristlich, Los Angeles, \$55,585. (L) Griffith Co., Los Angeles, \$242,311.50. Unit bids follow:

Table with 12 columns (A-L) and 22 rows of unit bid prices for items 1 through 22.

FOREST HILL PIPE LINE — SAN FRANCISCO

SAN FRANCISCO—Eaton & Smith, 715 Ocean Ave., at \$5989 submitted low bid May 29 to Public Utilities Commission to lay 16-in. cast iron pipe line through Forest Hill subdivision, involving: (1) 5500 ft. excavation and backfill of trench; (2) 50 cu. yds. oil macadam do; (3a) 300 sq. ft. oil macadam, additional pave, remove and replace; (3b) 40 sq. ft. bitumen on concrete, additional pave, remove and replace; (4) 372 tons install pipe and fittings; Unit bids follow:

(5) 1970 ft. make joints; (6) 3 cu. yds. plain concrete; (7a) 9260 sq. ft. oil macadam, repave; (7b) 815 sq. ft. bitumen on concrete, repave. Complete bids follow: (A) Eaton & Smith, \$5989.00. (B) W. J. Tobin, \$6188.34. (C) J. O'Shea, \$6189.35. (D) S. F. Water Dept., \$6648.90. (E) Lowrie Paving Co., \$7321.65. (F) F. W. Snook, \$8081.90. (G) E. J. Treacy, \$8263.00. (H) M. B. McGowan, \$8476.75. (I) Fay Imp. Co., \$8704.45.

Table with 12 columns (A-L) and 7 rows of unit bid prices for items 1 through 7.

Table with 12 columns (A-L) and 7 rows of unit bid prices for items 1 through 7.

AWARD

NAPA, Napa Co., Cal.—R. L. Norris, Sacramento, at \$7840 awarded contract by State Department of Architecture, Geo. B. McDougall, State Architect, to drill a water well at the Napa State Hospital. Bids were opened May 24. Only other bid submitted by Western Well Drilling Co., San Jose, at \$14,120.

SAN JOSE, Santa Clara Co., Cal.—O. G. Ritchie, 154 No. 11th St., San Jose, at \$2668 awarded contract by county supervisors to improve Gilman, Dillon, Everett and part of Central Ave. in Campbell, Supervisors District No. 4, involving 52,560 sq. ft. oil macadam. Complete bids follow: O. G. Ritchie, San Jose, \$2668. A. J. Raisch, San Jose, \$3365. Granite Constr. Co., Watsonville \$425. Engineer's estimate, \$3470.

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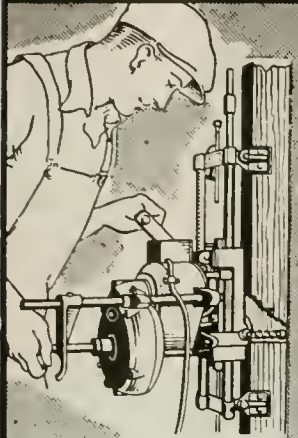
GAS TAX DIVERSION WOULD HALT
HIGHWAY CONSTRUCTION

SIX COMPANIES START BOULDER DAM
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BUILDING PERMITS — ADVANCE REPORTS
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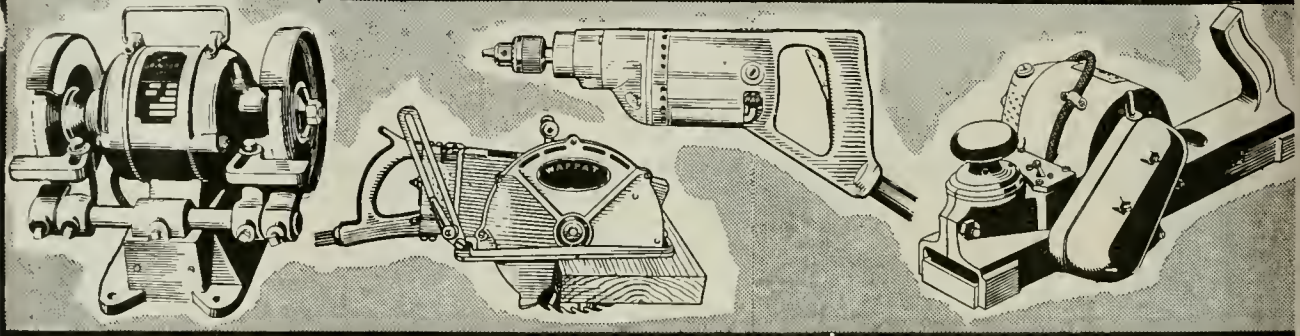
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SAM B. EUBANKS, Editor

Vol. XVI

SAN FRANCISCO, CALIF., JUNE 10, 1933

No. 21

MILL PRODUCTION IS INCREASED AS NEW ORDERS GAIN

Current Sales Reported By West Coast Association Over Cut 52 Pct.

A total of 252 down and operating mills which reported to the West Coast Lumbermen's Association for the week ending May 27 produced 82,188,205 board feet of lumber. This was an increase of 2,361,078 feet or 2.96 percent over their cut in the preceding week.

The average week's production of this group in 1933 has been 61,797,863 feet. During the same period of 1932, their weekly average was 66,303,436 feet.

In the four weeks from May 6 to May 27, inclusive, 180 mills reported total production of 278,877,000 board feet of lumber and orders of 442,090,000 feet; orders greater than production by 59 per cent. Unfilled orders increased 61 per cent from April 29 and now represent 36 per cent of the lumber in stock, the highest ratio since March, 1930. Stocks are lower by 18.8 per cent this year than last, while orders since January 1 exceed those of last year by 11 per cent and production in the same period is 6 per cent less.

The new business reported last week by 180 mills are 112,858,615 board feet against a production of 73,644,507 feet and shipments of 81,364,508 feet. Their shipments were over their production by 10.44 per cent and their current sales were over production by 52.03 per cent. The orders booked last week by this group of identical mills were less than their orders of the preceding week by 1,117,167 feet or 0.97 per cent.

Details of orders and shipments as reported by these 180 mills are:

	Orders	Shipments
Rail	33,674,757	28,944,445
Domestic	55,914,923	26,939,192
Export	16,444,959	18,656,895
Local	6,823,976	6,823,976

112,858,615 81,364,508
The unfilled order file at these mills stood at 378,872,564 board feet, an increase of 28,131,558 feet from the week before.

THE WEEK'S NEWS Highlights

FEDERAL MONEY. California State Chamber of Commerce is collecting data on projects eligible for financing in whole or part under the Federal public works program, which it is expected will receive final approval in Congress early next week. More than \$300,000,000 in California state and local works will seek financing through the new bill, it is estimated. Among these are additions and betterments for the San Francisco water department aggregating \$33,000,000.

BUILDING PERMITS. Gains over the previous month and over the corresponding month of last year are shown in many cities reporting their May building permit totals. All bay cities report improvement in ordinary building operations, while San Francisco enjoys the distinction of more than thirty-one millions of the bay bridge contracts in addition to increases in the usual classifications.

GAS TAX. California state highway work is virtually at a standstill, with layoff of 200 engineers and draftsmen ordered due to uncertainty over the allocation of gasoline tax revenues for the coming biennium. Legislators will decide finally the fate of the tax fund when they reconvene in July. Meanwhile many organizations are campaigning for a decisive protest vote on proposals for diversion which will appear on the ballot June 27. Addition of 6600 miles of county roads to the state secondary system obligates the state to spend about \$6,000,000 additional for maintenance annually, while the same bill, signed by the Governor, gives to municipalities approximately \$6,000,000 more that heretofore has been expended by the State Highway Department on new construction.

LUMBER. This continues to be the brightest spot among industries affiliated with construction. New orders are climbing from week to week, now are highest in two years. Prices are being revised upward also as the manufacturers gain optimism.

SIX COMPANIES START CONCRETE ON BOULDER DAM

Five And Half Million Barrels Of Cement to be Required In Two Years

Six Companies, Inc., have started pouring concrete for the Boulder Dam, well ahead of schedule on the job that will use 5,500,000 barrels of cement, according to word received here yesterday.

Approximately two years will be required to pour the dam, it is estimated. During the peak of operations it is planned to pour 150,000 to 200,000 cubic yards of concrete a month, which will require continuous operation of six to eight 4-cubic yard mixers.

Concrete will be poured from 8-cubic yard buckets suspended on five 20-ton cableways over the dam site.

According to present plans the Hi-Mix concrete plant recently completed near No. 9 head tower will manufacture most of the concrete for spillways, intake towers, valve houses and upper portion of the dam, completing its work in 1937. The Lo-Mix plant in Black Canyon, 4,000 feet upstream from the dam site, has been in operation since February 28, 1932, and has manufactured approximately a third of a million cubic yards of concrete, most of which has been placed in the linings of diversion tunnels. It is planned that this plant will mix the concrete for the lower portion of the dam and be dismantled in 1935, preceding the storage of water back of the partially completed dam.

A railroad has been partly constructed from the Lo-Mix plant, running downstream beneath Cableways Nos. 5 to 8, inclusive, and another is planned to be built from the Hi-Mix plant running upstream beneath all cableways. Bottom dump buckets of 8-yard capacity mounted on flat cars will receive the concrete from the plants. The buckets will be transported by rail to a position beneath the designated cableway and then will be conveyed by cableway to the pouring site. Each bucket with its load will weigh approximately 20 tons.

STATE TO SPEND \$207,000 ON NEW HIWAY PROJECTS

Program for Last Month of
Fiscal Year Completed
By Department

Continuation of California's highway building program during the first five months of the year provided for the expenditure of more than \$16,000,000 on new and carry-over projects, records of the state division of highways reveal.

The item of new construction and reconstruction totaled \$5,075,700; maintenance, \$2,259,000, and the fund to complete work carried over from 1932, \$8,673,000.

Work orders for new projects have been issued in the amount of \$608,300, projects advertised total \$287,000 and projects anticipated for advertising during June, \$207,000. At the beginning of the month there were 85 going contracts for state highway work in force, of which 67 were for road construction and 18 for bridges and grade separations.

The spring oiling program for the alleviation of dust on shoulder and earth roads is virtually all under way, according to reports. Contracts for the oiling of 426 miles of state highway at a cost of \$124,800 have been awarded. The program contemplates the expenditure of \$150,000 for oiling 500 miles of roads.

SACRAMENTO SCHOOLS GET LOWER INSURANCE

Revision of insurance coverage on Sacramento city schools has been approved by the board of education which will reduce the annual premium by \$1700. Reappraisal of the school properties by the Federal Appraising Company resulted in reduction of the blanket coverage from \$5,544,500 to \$4,165,414, excluding three new junior high schools which are being completed. The new buildings are included at a valuation of \$838,474. The rate to the school district has been reduced from 61 cents to 60 cents per \$1000.

New orders booked during the first quarter of 1933, as reported to the Bureau of the Census by 78 manufacturers of electrical goods, were \$57,897,333, as compared with \$62,911,874, for the fourth quarter of 1932, and \$77,351,480, for the first quarter of 1932.

BREWING COMPANY TO BUILD PLANT

Plans are being prepared for a new brewery to be built either in San Francisco or Oakland by the Samarkand Brewing Co., 893 Folsom street, San Francisco, officials of the company announced yesterday. The plant will cost \$275,000, it is estimated. The engineering department of the company, which is associated with the Samarkand Ice Cream Company, is drafting plans, but a decision on the location has not yet been reached, according to J. P. Rettenmayer, a director. Directors of the new corporation, which is capitalized at \$500,000, include Paul L. Schmidt, Frank M. Kenny, Lee M. Olds, Philip H. Hess, L. A. Emge and Walter K. Olds, all of San Francisco.

TAX DIVERSION WILL CUT ROAD FUND TO \$5,000,000

New Construction Threatened
By Plans to Appropriate
Revenue

California will have but \$5,000,000 to spend on new highway construction during the next 2 years if the \$17,000,000 gasoline tax diversion is approved and other legislation now pending is signed by the governor.

Officials estimated the income for state highway construction and maintenance during the next two years will be \$53,000,000.

If Governor Rolph approves the bill taking 6,600 miles of county roads into the state's secondary system an unexpected obligation of \$6,000,000 biennially will be incurred by the state. Another \$6,000,000 is to be diverted to municipalities.

To maintain California's existing highway mileage will require \$19,000,000 during the forthcoming biennium.

"Therefore," remarks Eric Culenward, deputy director of public works and authority for the figures, "it becomes a matter of simple mathematics that if \$17,000,000 more is diverted from the gasoline tax fund to the general fund, there will remain only \$5,000,000 for new highway construction during the next two years."

TO ASK \$15,000,000 LOAN FOR SOUTH

State Will Guarantee Funds
Advanced by R. F. C.
To Rebuild

A bill enabling the state to negotiate a loan from the Reconstruction Finance Corporation for \$15,000,000 to replace Southern California school buildings destroyed in the earthquake has been signed by Governor Rolph.

The act is one introduced by Assemblyman Samuel M. Greene. It establishes a board of public construction to consist of the state directors of education, finance and public works, the state controller and the chief of the division of schoolhouse planning.

The Governor is authorized to accept not to exceed \$15,000,000 payable to the state treasury and to the credit of the board. The money is to be expended for replacement or repair of public buildings wholly or partially destroyed by earthquake since January, 1933.

The funds may be obtained from the state by the governing body of any political subdivision for reconstruction within their jurisdiction. The state fund would be reimbursed through rentals or budgetary appropriations of the borrowing agencies. The loan from the Reconstruction Finance Corporation is guaranteed by the state.

The state law setting up minimum horizontal stress requirements for all buildings other than single-family or duplex dwellings also was signed by the Governor. This act becomes effective immediately under an urgency clause.

WATER DISTRICT SEEKS NEW LOAN

Los Angeles Metropolitan Water District will petition the Reconstruction Finance Corporation for an additional loan of \$59,750,000 with which to proceed with construction of the Colorado river aqueduct, it was decided by the board of directors.

The district already has an authorization for a loan of \$40,000,000 of which \$6,000,000 has been expended.

ADOPT UNIFORM RATE

A uniform scale of pay for work on county roads has been adopted by the Fresno board of supervisors, eliminating variations between different supervisorial districts for the same type of labor. The scale ranges upward from \$3.60 a day paid common labor.

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NINE MILLION HOMES IN U. S. NEED PLUMBING

Master Plumbers Executive Says Huge Market For Bathrooms

"If we are going to spend federal funds on construction projects, why not give preference to work that will improve the American standard of living and contribute to the health and comfort of millions of people?"

This question was raised by E. B. Kleine of Cincinnati, president of the National Association of Master Plumbers, who was a recent visitor on the Pacific Coast.

Mr. Kleine believes that the federal government should give preference to slum clearance work, small house construction, sewerage and water works construction and extension, and all types of home and industrial modernization.

"With plumbing materials selling at 43 per cent below the prices prevailing during the peak of construction, and plenty of skilled labor available, this is an ideal time for plumbing modernization and the installation of additional plumbing equipment.

"There is possibly no other improvement which has such a direct bearing on the nation's health and well-being as the bringing of running water to every small town and rural home in America," the head of the nation's plumbing contractors said.

"Statistics show that those states with the largest number of homes equipped with running water have the lowest percentage of infant mortality, while the states with the smallest number of homes equipped with plumbing have the highest percentage of infant death rate."

Pointing out that there are approximately 9,000,000 homes without bath-tubs, the head of the nation's plumbers called attention to what the equipping of this number of bathrooms would mean to other industries.

"The installation of 9,000,000 bathrooms in existing houses would mean 9,000,000 window shades, curtains, soap dishes, medicine cabinets, lighting fixtures, electric switches, and door stops in addition to such items commonly associated with bathrooms, as for instance the bath tub, the closet, and the lavatory.

"A large percentage of the 9,000,000 bathrooms would naturally be equipped with shower baths, either the over-the-tub or stall type.

"In addition there would be involved the purchase of 18,000,000 towel bars, 18,000,000 faucets, 18,000,000 valves, and more than a billion feet of iron and steel pipe for the hot and cold water supply and millions of feet for soil and waste pipe."

STATE BOARDS COOPERATE IN ENFORCING ACTS

Architects and Engineers Agree On Mutual Aid In Regulation

An agreement for mutual assistance in enforcement of their respective regulations has been reached by the Board of Architectural Examiners and the Board of Registration for Civil Engineers, according to the report of Carlos W. Huntington, director of the Division of Professional Standards, filed with the governor.

All violations by architects of the civil engineers act are to be reported first to the architectural examiners, this agency to advise the engineers' board of the disposition of the case. In return the engineers board will be notified first of infringements of the architects' act and will advise the architectural examiners.

There are now 695 licensed architects, the board reported, following certification of five candidates during the month. Eight licenses were issued during the month by the engineers' board, bringing the total licentiates to 5192.

BAY FACTORIES HAVE CONTRACTS FOR SPAN WORK

Caisson Construction Engaging Crews in Three Plants

Fabrication of materials for two of the deep water piers of the western half of the San Francisco-Oakland Bay Bridge is now well under way in three plants, two in the East Bay and one in South San Francisco, according to a report from Chief Engineer C. H. Purcell to State Director of Public Works Earl Lee Kelly.

Two of the great caissons for Piers 6 and 4 have been under construction for two weeks at the Moore Dry Docks, according to B. J. Osborne of the Moore Company. Rivets are being driven in the steel cutting edges of these caissons, which represent great barges, the smaller being 127 feet long by 74 feet 6 inches wide, and the larger one—which will be the foundation of the Center Anchorage—197 feet long by 92 feet wide.

Structural bracing for these cutting edges is being fabricated in the Judson Pacific Iron Works in Oakland, and the cylindrical wells in the cells of these caissons are being manufactured at the Western Pipe and Steel Company's plant in South San Francisco.

The caisson for Pier 6, Chief Engineer Purcell reported, should be ready for launching early in July. This pier is the first suspension bridge foundation west of Yerba Buena Island.

The caisson for Pier 4, which is the concrete Center Anchorage midway between San Francisco and Yerba Buena Island, will not be launched until August, according to Osborne.

New orders for oil burners totaled 2878 units in March this year compared with 1956 in February, according to statistics collected from manufacturers by the Department of Commerce.

FOR SALE...

110 Horsepower Diesel Engine at a Bargain

United Commercial Co., Inc.

234 Stewart Street

San Francisco

SMITH BROS. TRUCK CO.

"TRANSPORTATION SPECIALISTS"

Portable Crane Service—Rigging

1704 E. 16th St.

Los Angeles

WEStmore 3271

Move More Dirt Faster with LE TOURNEAU Equipment

A complete line of grading machinery—designed by a contractor—developed on actual construction jobs—built to stand continuous use under the worst conditions.

ENGINEER'S CONSULTATION FREE

R. G. LE TOURNEAU, INC.

Wilson Way at Roosevelt

Stockton, Calif.

PERMITS AND CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
346	Nelson	Owner	2750
347	Plagge	Owner	4000
348	Stelling	Young	4000
349	Kress	Dinwiddie	3000
350	Smith	Ruegg	1000
351	Torre	Owner	3000
354	Porter	Coburn	1000
355	Arrighi	Pastorini	5000
356	Rasmussen	Owner	3000
357	Koemer	Owner	2500
358	Wheeler	Owner	2000
359	Rothschild	Owner	7000
360	Whitney	Owner	3950
361	Whitney	Owner	7900
362	Schmidt	Schmidt	2750
362	Belloni	Murer	2500
363	Mager	Owner	4000
364	Lyon	Rount	3750
365	McLaughan	Arthur	1980
366	Graham	Owner	1967
367	Nelson	Strehlow	2000
368	Mohler	Owner	3500
369	Emporium	Parker	4000
370	Schnibben	Jones	1800
371	S. F. Packing	Early	2000
372	Cruz	Owner	3000
373	Anderson	Owner	3000
374	Golden Gate	Regal	2000
375	Rey	Stevenson	2980
376	Johnson	Owner	3500
377	Clark	Meyer	5000
378	Mini	Murer	1500
379	MacDonough	Irwin	2500

DWELLING

(346) SW POWHATTAN AND ELLSWORTH STS. One-story and basement frame dwelling.
Owner—C. L. Nelson, 208 Fairmount St., San Francisco.
Architect—Not Given. \$2750

DWELLING

(347) E TWENTY-SEVENTH AVE. 250 N Lawton St. One-story and basement frame dwelling.
Owner—A. A. Plagge, 1474 30th Ave., San Francisco.
Plans by Owner. \$4000

ALTERATIONS

(348) NO. 868 GEARY ST. Alterations to store.
Owner—M. Stelling Jr., 461 Market St., San Francisco.
Architect—Winter & Maury, 681 Market St., San Francisco.
Contractor—Young & Horstmeyer. \$4000

ALTERATIONS

(349) NO. 939 MARKET ST. Alter department store.
Owner—S. H. Kress & Co., 114 Fifth Ave., New York.
Engineer—E. F. Sibbert, New York.
Contractor—Dinwiddie Construction Co., Crocker Bldg., S. F. \$3000

ALTERATIONS

(350) SE PRECITA AND TREAT AVES. Alter dwelling.
Owner—Mr. Smith, Premises.
Plans by Owner.
Contractor—Ruegg Co., 369 Pine St., San Francisco. \$1000

ALTERATIONS

(351) NO. 555 FRANCISCO ST. Alter garage for bottling plant.
Owner—F. Torre, Premises.
Plans by Owner. \$3000

REPAIRS

(354) N. 116 THIRD AVE. Repair fire damage to dwelling.
Owner—P. Porter, Premises.
Architect—Not Given.

Contractor—I. W. Coburn, 2048 Market St., San Francisco. \$1000

DWELLING

(355) NW PRAGUE AND RUSSIA. One-story and basement frame dwelling.
Owner—A. Arrighi, 4725 Mission St., San Francisco.
Architect—I. Zanolini, 694 Montgomery St., San Francisco.
Contractor—L. Pastorini, 1438 Van Dyke St., San Francisco. \$5000

DWELLING

(356) NW JEFFERSON AND WEBSTER STS. One-story and basement frame dwelling.
Owner—V. Rasmussen, 1580 Beach St., San Francisco.
Architect—Irvine & Ebbets, 2048 Market St., S. F. \$3000

DWELLING

(357) N KIRKHAM ST. 107 W 11th Ave. One-story and basement frame dwelling.
Owner—G. E. Koemer, 1240 6th Ave., San Francisco
Plans by B. K. Dobkowitz, 425 Monterey Blvd., S F \$2500

ALTERATIONS

(358) NO. 3377 WASHINGTON ST. Alter dwelling.
Owner—R. C. Wheeler, % Architect.
Architect—E. E. Young, 2002 California St., San Francisco. \$2000

DWELLINGS

(359) S MARINA BLVD. 197 NW Beach; two 1-story and basement frame dwellings.
Owner—Rothchild Bros., 41 Sutter St.
Architect—F. Amandes. \$3500 ea.

DWELLING

(360) W 34th AVE. 27 S Kirkham; one-story and basement frame dwelling.
Owner—Whitney Inv. Co., 36th Ave. and Kirkham St.
Architect—Not Given. \$3950

DWELLINGS

(361) W 34th AVE. 245 N Lawton; two 1-story and basement frame dwellings.
Owner—Whitney Inv. Co., 36th Ave. and Kirkham St.
Architect—Not Given. \$3950 ea.

DWELLING

(362) N HALE 50 W Barneveld; 1-story and basement frame dwelling.
Owner—A. Schmidt, 1395 Hampshire.
Plans by Owner.
Contractor—Schmidt Brothers, 1395 Hampshire St. \$2750

ADDITION

(362) NO. 781 FRANCISCO ST. Addition to flats.
Owner—G. Belloni, 1535 Grant Ave., San Francisco.
Architect—F. W. Dakin, 625 Market St., San Francisco.
Contractor—L. Murer, 1815 Mason St. San Francisco. \$2500

DWELLING

(363) E NINETEENTH AVE 194 S Ulloa. One-story and basement frame dwelling.
Owner—Mager Bros. & Son, 1359 4th Ave., San Francisco.
Plans by Owner. \$4000

DWELLING

(364) W FUNSTON AVE. 320 S Aerial Way. Two-story and basement frame dwelling.

Owner—A. R. Lyon, 401 Phelan Bldg., San Francisco.
Architect—J. Anthony, Berkeley.
Contractor—H. E. Rount, 178 De Soto St., San Francisco. \$3750

ALTERATIONS

(365) NO. 1161 MISSION ST. Alter penthouse on factory.
Owner—J. McLaughan, 251 Kearny St., San Francisco.
Plans by Contractor.
Contractor—G. H. Arthur, 666 Mission St., San Francisco. \$1980

ALTERATIONS

(366) — TENNESSEE 200 S 20th St. Alter shop.
Owner—Graham Fuel & Drayage Co., 849 22nd St., San Francisco.
Engineer—Elison & Russell, Pacific Bldg., San Francisco. \$1967

ADDITION

(367) NO. 611 JONES ST. Addition to dwelling.
Owner—W. N. Nelson, 744 Castro St., San Francisco.
Architect—Masten & Hurd 233 Post St., San Francisco.
Contractor—Strehlow & La Voie, 1070 Dolores St., S. F. \$2000

DWELLING

(368) E TWENTY-EIGHTH AVE. 261 N Cabrillo St. One-story and basement frame dwelling.
Owner—T. E. Mohler, 751 28th Ave., San Francisco.
Architect—Not Given. \$3500

ALTERATIONS

(369) NO. 867-897 MARKET ST. Alter interior offices for department store.
Owner—The Emporium, 835 Market St., San Francisco.
Engineer—C. H. Snyder, 251 Kearny St., San Francisco.
Contractor—K. E. Parker, 135 South Park, San Francisco. \$4000

ALTERATIONS

(370) SE FIFTH AVE. AND CLEMENT. Alter store.
Owner—J. Schnibben, Premises.
Plans by Owner.
Contractor—P. K. Jones, 656 Mission St., San Francisco. \$1800

TOWER

(371) SE WILLIAMS & PHELPS. Cooling tower for cannery.
Owner—S. F. Packing Co., 112 Market St., San Francisco.
Engineer—T. F. Chace, deYoung Bldg., San Francisco.
Contractor—F. J. Early Jr., 369 Pine St., San Francisco. \$2000

DWELLING

(372) NW OAKDALE 75 E Lane St. One-story and basement frame dwelling.
Owner—C. Cruz, 1478 Oakdale Ave., San Francisco.
Architect—Not Given. \$3000

DWELLING

(373) S TINGLEY 106 N Alemany. One-story and basement frame dwelling.
Owner—F. B. Anderson, 33 Montezuma St., San Francisco.
Architect—C. F. Strothoff, 2274 15th St., San Francisco. \$3000

ALTERATIONS

(374) NO. 817 MARKET ST. Alter store.
Owner—Golden Gate Cloak & Suit Co., 867 Market St., San Francisco

Architect—Not Given.
Contractor—Regal Showcase Co., 540
McAllister St., S. F. \$2000

DWELLING
(375) S REVERE 275 E Newhall; 1-
story and basement frame dwell-
ing.

Owner—C. Rey, 1753 Revere.
Architect—Not Given.
Contractor—L. H. Stevenson, 130 Mer-
ced Ave. \$2980

DWELLING
(376) W 35th AVE. 200 N Santiago;
two-story and basement frame
dwelling.

Owner—N. E. Johansson, 666 Mission.
Architect—Not Given. \$3500

ALTERATIONS
(377) 608 FOLSOM ST.; alter office
and warehouse.

Owner—Mrs. A. V. Clark, % contrac-
tor.
Plans by Mr. Meyer.
Contractor—R. Meyer, 2059 Clinton
Ave., Alameda. \$5000

REPAIRS
(378) NO. 2019A LOMBARD ST. Re-
pair flats.

Owner—F. Mini and L. Pagano, Prem.
Architect—Not Given.
Contractor—L. Murer, 1815 Mason
St., San Francisco. \$1500

REPAIRS
(379) NO. 119-127 GRANT AVE. Re-
pair fire damage to stores and
offices.

Owner—MacDonough Estate Co.
Architect—Not Given.
Contractor—J. J. Irwin, 1040 Oak St.,
San Francisco. \$2500

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
186	Sangenitto	Owner	1400
187	Reed	Rose	3500
189	Alves	Owner	2000
190	Pacific	Thornally	2500
191	Kress	Diwiddie	55500
192	Dibble	Owner	2500
193	Ariolo	Owner	2350
194	Dominguez	Grubb	2080
195	Deltner	Strang	2300
196	Uiosow	Lee	3000
197	Nichols	Kleyn	3600
198	Johnson	Owner	3400
199	Daigre	Owner	2000

DWELLING
(186) NO. 10918 SUNNYSIDE ST.,
OAKLAND. One-story four-room
dwelling.

Owner—Antone Sangenitto, 537 Fil-
bert St., Oakland.
Architect—Not Given. \$1400

REPAIRS
(187) NO. 88 VERNON ST., **OAK-**
LAND. Fire repairs.

Owner—Fred E. Reed, Premises.
Architect—Not Given.
Contractor—A. H. Rose, 748 25th St.,
Oakland. \$3500

188 Lady Sullivan 2500

STORE
(188) 5650 SHATTUCK AVE., **OAK-**
LAND; one-story store.

Owner—M. Landy, 658 Aileen Street,
Oakland.
Architect—Not Given.
Contractor—Lawrence C. Sullivan Co.
3909 Loma Vista Ave., Oakland.
\$2500

DWELLING
(189) NO. 1371 E-TWENTY-EIGHTH
St., **OAKLAND.** One-story four-
room dwelling.

Owner—J. and M. Alves, Premises.
Architect—Not Given. \$2000

ALTERATIONS
(190) NO. 2116 BANCROFT WAY,
BERKELEY. Alterations.

Owner—Pacific T. & T. Co., 140 Mont-
gomery St., San Francisco.
Architect—Not Given.
Contractor—W. G. Thornally, 832
Paramount Road, Oakland. \$2500

STORE BLDG.
(191) NW SHATTUCK AVE. AND
Addison St., **BERKELEY.** Two-
story 4-room Class C building.

Owner—S. H. Kress & Co., 114 Fifth
Ave., New York City, N. Y.
Architect—Edw. F. Sibbert, N. Y.
Contractor—Dinwiddie Construction
Co., 1101 Crocker Bldg., San
Francisco. \$55,500

ALTERATIONS
(192) NO. 1008 SPRUCE ST., **BER-**
KELEY. Alterations.

Owner—Alice F. Dibble, 1008 Spruce
St., Berkeley.
Architect—Not Given. \$2500

DWELLING
(193) FOLGER AVE 250 W San Pablo
Ave., **BERKELEY.** One-story five-
room dwelling.

Owner—Andrew Airola, 1029 Folger
Ave., Berkeley.
Architect—Not Given. \$2350

DWELLING
(194) NO. 1897 105TH AVE., **OAK-**
LAND. Two-story 5-room dwell-
ing and one-story garage.

Owner—P. Dominguez.
Architect—Not Given.
Contractor—J. B. Grubb, 1801 109th
Ave., Oakland. \$2080

BUILDING
(195) 741 PACIFIC AVE., **ALAME-**
DA; one-story two-room concrete
building.

Owner—W. T. and Edna Dettner, 1536
Mozart St., Alameda.
Plans by Owners.
Contractor—Lawrence Strang, 429
Haight Ave., Alameda. \$2300

DWELLING
(196) 1230 COURT ST., **ALAMEDA;**
one-story 5-room frame and stuc-
co dwelling.

Owner—U. Uiosow, Court Street and
Encinal Ave., Alameda.
Plans by Mr. Lee.
Contractor—Sam Lee, 1500 Versailles
Ave., Alameda. \$3000

DWELLING
(197) E SIDE GRIZZLY PEAK Blvd.
30 ft N Euclid Ave., **BERKELEY;**
two-story five-room frame dwell-
ing and garage.

Owner—E. E. Nichols, Mercantile
Bank Bldg., Berkeley.
Architect—Not Given.
Contractor—Kleyn and Schoorel, 551
Grizzly Peak Blvd., Berkeley. \$3600

DWELLING
(198) 3740 ATLAS AVE., **OAKLAND;**
one-story 6-room dwelling.

Owner and Builder—O. W. Johnson,
4237 Atlas Ave., Oakland.
Architect—Not Given. \$3400

DWELLING
(199) 2725 TENTH AVENUE, **OAK-**
LAND; 1-story 4-room dwelling.

Owner and Builder—V. H. Daigre, 916
24th St., Oakland.
Architect—Not Given. \$2000

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
74	Stelling	Young	5152
75	Emporium	Parker	4139
76	Arrighi	Weindorf	275
77	Arrighi	Pastorini	4217
78	Arrighi	Gabrielli	410

79	Arrighi	Ramazotti	560
80	Rey	Stevenson	3470
81	Awbrey	National	422

ALTERATIONS

(74) NO. 868 GEARY ST. near Lar-
kin St. All work for job No. 1451.
Owner—Martin Stelling Jr., 155 Mont-
gomery St., San Francisco.
Architect—Bertz, Winter & Maury,
210 Post St., San Francisco.
Contractor—Young & Horstmeier, 461
Market St., San Francisco.

Filed June 1, '33. Dated May 31, '33.
On or about 5th of each month 75%
Upon completion a sum sufficient
to increase total payments to 75%
Usual 35 days..... remainder
TOTAL COST, \$5152

Bond, \$5152. Surety, American Bond-
ing Co. of Baltimore. Limit, 35 days.
Forfeit, none. Plans and specifica-
tions filed.

ALTERATIONS

(75) LOCATION NOT GIVEN. All
work for alterations and restora-
tion of third and fourth floors of
Lincoln Building.

Owner—The Emporium, 835 Market
St., San Francisco.
Designer—H. J. Thompson, Manager.
Contractor—K. E. Parker Co., 135
South Park, San Francisco.

Filed June 6, '33. Dated June 2, '33.
On or about 1st of each month 75%
Upon completion additional pay-
ments to bring total up to..... 75%
Usual 35 days..... 25%
TOTAL COST, \$4139

Bond, \$4139. Surety, United States
Guarantee Co. Limit, June 24, 1933.
Forfeit, none. Plans and specifications
filed.

BUILDING

(76) NW RUSSIA AND PRAGUE
Sts., 50x112-6. Electric work for
one-story and basement frame
building.

Owner—A. Arrighi, 4725 Mission St.,
San Francisco.
Architect—Italo Zanolini, 604 Mont-
gomery St., San Francisco.
Contractor—W. Weindorf, 9 Pomona
St., San Francisco.

Filed June 6, '33. Dated June 6, '33.
All conduits in.....\$103.12
When completed 103.13
Usual 35 days..... 68.75
TOTAL COST, \$275.00

Bond, \$5217. Surety, The Fidelity &
Casualty Co. of New York. Limit,
60 days. Forfeit, none. Plans and
specifications filed.

BUILDING

(77) NW RUSSIA AND PRAGUE
Sts., 50x112-6. All work for one-
story and basement frame build-
ing.

Owner—A. Arrighi, 4725 Mission St.,
San Francisco.
Architect—Italo Zanolini, 604 Mont-
gomery St., San Francisco.
Contractor—L. Pastorini, 1438 Van
Dyke St., San Francisco.

Filed June 6, '33. Dated June 6, '33.
All frame, partitions and roof
are on\$1304.25
Brown and scratch coats on 1304.25
Work completed 1304.25
Usual 35 days..... 1304.25
TOTAL COST, \$5217.00

Bond, \$5217. Surety, The Fidelity &
Casualty Co. of New York. Limit,
60 days. Forfeit, none. Plans and
specifications filed.

BUILDING

(78) NW RUSSIA AND PRAGUE
Sts., 50x112-6. All work for paint-
ing for one-story and basement
frame building.

Owner—A. Arrighi, 4725 Mission St.,
San Francisco.
Architect—Italo Zanolini, 604 Mont-
gomery St., San Francisco.

Contractor — Guido Garbrielli, 746 North Point St., San Francisco. Filed June 6, '33. Dated June 6, '33. Prime and 2nd coat on.....\$153.75 Work completed 153.75 Usual 35 days..... 102.50 TOTAL COST, \$410.00 Bond, \$5217. Surety, The Fidelity & Casualty Co. of New York. Limit, 60 days. Forfeit, none. Plans and specifications filed.

PLUMBING

(79) NW RUSSIA AND PRAGUE Sts. All work for one-story and basement frame building. Owner—A. Arrighi, 4725 Mission St., San Francisco. Architect—Italo Zanolini, 604 Montgomery St., San Francisco. Contractor—Adrian Ramazzotti, 1473 Vallejo St., San Francisco. Filed June 6, '33. Dated June 6, '33. Plumbing roughed in and bathtub installed\$210 All work completed 210 Usual 35 days..... 140 TOTAL COST, \$560 Bond, \$5217. Surety, The Fidelity & Casualty Co. of New York. Limit, 60 days. Forfeit, none. Plans and specifications filed.

RESIDENCE

(80) SW REVERE 275 SE Newhall 25x100 being lot 12 blk 368 Case Tract; all work for one-story and basement frame residence. Owner—C. and Mary Rey, 1753 Revere Street. Plans by Mr. Stevenson. Contractor—L. H. Stevenson, 130 Merced Avenue. Filed, June 7, '33. Dated May 23, '33. When roof is on.....\$870 First coat of plaster..... 870 Bldg. completed 870 Usual 35 days 860 TOTAL COST, \$3470 Limit, 90 days. Plans and Spec. filed.

REPAIRS

(81) NO. 1489 SIXTEENTH AVE. All work for materials and professional services to repair termite and fungi damages in residence. Owner—Mr. and Mrs. L. B. Awbrey, 1489 16th Ave., San Francisco. Architect—Not Given. Contractor — National Exterminators of Calif., Ltd., 18 Ninth St., San Francisco. Filed June 7, '33. Dated May 1, '33. Within 30 days of completion.\$422.90 TOTAL COST, \$422.90 Bond, none. Limit, to be completed May 6, 1933. Forfeit, plans and specifications, none.

ALAMEDA COUNTY

24 Mlejnek	Jensen	11652
25 Howard	Gerwick	27793
26 Howard	Albertson	870

RESIDENCE

(24) LOTS 152-153, St. James Wood, Piedmont; two-story frame, plaster and brick veneer residence & garage. Owner—A. M. Mlejnek, 7030 Weld St., Oakland. Architect—Wm. E. Schirmer, 1700 Financial Bldg., Oakland. Contractor—Jensen & Pedersen, 3433 Adeline St., Oakland. Filed June 1, '33. Dated May 26, '33. When sheathing is on.....\$2913 Brown coated 2913 Completed and accepted 2913 Usual 35 days..... 2913 TOTAL COST, \$11,652 Bond, \$11,652.00. Sureties, American Employers Inc. Co. Limit, 100 days. Plans and Spec. filed.

REPAIRS

(25) FIRST and Market Sts., Oakland; repairs to Pier No. 1 of Howard Terminal Co. Owner—Howard Terminal Co., First and Market Sts., Oakland. Architect—Reed & Corlett, Bank of America Bldg., Oakland. Contractor—Ben C. Gerwick, Inc., 112 Market St., San Francisco. Filed and Recorded, 10th day of each month.....75% Usual 35 daysbalance TOTAL COST, \$27,793 Limit, 100 days. Plans and Spec. filed.

SPRINKLER SYSTEM

(26) FIRST and Market Sts., Oakland; automatic sprinkler system. Owner—Howard Terminal Co., First and Market Sts., Oakland. Engineer—W. G. Corlett, 1801 Bank of America Bldg., Oakland. Contractor—Albertson - McCormick Sprinkler Co., 865 Mission Street, San Francisco. Filed and Recorded, First stage of work.....\$600 Usual 35 days..... 270 TOTAL COST, \$870 Limit, 14 days.

SAN FRANCISCO UNDER \$1000

ALTER shop, \$100; 67 Beale St.; owner, S. S. Parsons, 633 Middlefield Road, Palo Alto. SIGN, metal, \$35; 290 Seventh St.; owner, Independent Pneumatic Tool Co., Premises; contractor, Osthoff, 501 3rd St. ALTER store, \$200; 1263 Uaguna St.; ALTER store, \$200, 1263 Laguna St.; SIGN, electric, \$85; 1135 Ocean Ave.; owner, Old Race Track Inn, 1135 Ocean Ave.; contractor, American Elec. Sign Co., 1740 Eddy St. SIGN, electric, \$100; 71 Third St.; owner, Breen's Cafe; contractor, Electric Prods. Corp., 255 Golden Gate Ave. SIGN, electric, \$200; NE Fifth and Mission; owner, Roosevelt Coffee Shop, Premises; contractor, Elec. Prods. Corp., 255 Golden Gate. ALTER store, \$65; 2484 Mission St.; owner, Juvenile Shops, Premises; contractor, O. Presco & Sons, 55 Sterling St. ADD to dwelling, \$450; 2621 Lombard St.; owner, T. R. Sharman, 3700 Broderick St. ALTER store, \$150; 3118 16th St.; owner, J. L. McLaughlin, 251 Kearny St. SIGN, electric, \$85; 4318 Mission St. owner, Brown Derby Cafe, 4318 Mission St.; contractor, American Elec. Sign Co., 1740 Eddy St. ALTER dwelling, \$85; 451 27th Ave.; owner, J. Napoll, 451 27th Ave.; contractor, C. Frank Co., 305 Bocana St. SIGN, cloth, \$75; SW Market and Valencia Sts.; owner, S. A. Sherer, Primises. SIGN, electric, \$200; 500 Ninth St.; owner, Terminal Tavern, Premises contractor, Elec. Prods. Corp., 255 Golden Gate Ave. ALTER restaurant, \$500; 542 Geary; owner, White Taverns, Ltd., 499 Ellis St.; architect, J. H. Roper, Oakland. ALTER apts., \$200; 2258 Bryant St.; owner, Miss M. R. L. Thell, 2258 Bryant St. ALTER dwelling, \$85; 224 Silliman; owner, Mrs. W. R. Horn, 224 Silliman. SIGNS, two electric, \$100 and \$400; 71 3rd St.; owner, Breen's Cafe, 71 3rd St.; contractor, Electrical Products Corp., 255 Golden Gate. ALTER store, \$950; 832 Mission St.; owner, Milwaukee Furniture Co., 832 Mission St.; engineer, W. H. Ellison,, E Russell; contractor, H. C. Mangels, 340 Hayes St.

ADD to dwelling, \$300; 145 Granada; owner, P. J. Frawley, 30 En-trada. SIGN, electric, \$250; 31 Turk Street; owner, Davis & Steen, 31 Turk; contractor, Elec. Prod. Corp., 255 Golden Gate Ave. ALTFR restaurant, \$275; 3701 Geary; owner, Milligan's Restaurant, 3701 Geary; contractor, A. S. Gough, 10 Washburn.

ALAMEDA COUNTY UNDER \$1000

ALTERATIONS, \$935; 700 Grand St., Alameda; owner, A. C. Oppenheimer, Premises; architect, Kent & Hass, Underwood Bldg., San Francisco; contractor, Lewis C. Dunn, 2812 Buena Vista Ave., Ala. ALTERATIONS, \$267; 2806 Cherry St., Berkeley; owner, Thompson, Premises; contractor, Bay Cities Asbestos Co., 188 10th St., Oakland. ALTERATIONS, \$75; 2520 Ridge Road Berkeley; owner, R. R. Demeter, 2520 Ridge Road. GARAGE, one-story, \$150; 705 60th St., Oakland; owner, J. W. Ahlf, 705 60th St. GARAGE, one-story, \$100; 2651 78th Ave., Oakland; owner, J. Such, 2651 78th Ave. ALTERATIONS, \$150; 1316 Tenth St., Oakland; owner, L. Mladinich, 1316 10th St. ALTERATIONS, \$500; 1800 Park Blvd Oakland; owner, State Bldg. and Loan Assn., 2230 Broadway. ADDITION, \$600; 5800 Chabot Road, Oakland; owner, T. C. Tucker, 5800 Chabot Road; contractor, J. J. Moore Co., 354 Hobart St. LIFT, steel, \$400; NW High and E-14th Sts., Oakland; owner, Associated Oil Co., 2395 Webster St., Alameda. ADD to dwelling, \$70; 4169 Piedmont Ave., Oakland; owner, Ray Moore, Premises; contractor, Albert A. Haskell, 255 Ridgeway Ave. ALTERATIONS and addition, \$600; 1350 60th Ave., Oakland; owner, E. Faurholtz, 1257 52nd Ave. ALTERATIONS, \$850; 35 Parkside Drive, Berkeley; owner, Walter Robison, 35 Parkside Drive. ALTERATIONS and addition, \$100; 843A 30th St., Oakland; owner, F. B. Peters, 837 30th St. SHED, one-story, \$75; 600 Florio St., Oakland; owner, John E. Gannaw, 6300 Florio St. ALTERATIONS, \$50; 741 Seventh St., Oakland; owner, John Larson, 741 Seventh St. ALTERATIONS and repairs, \$300; 3963 Fruitvale Ave., Oakland; owner, C. Peternassl, Premises; contractor, E. O. Marlan, 3956 Fruitvale Ave. ALTERATIONS, \$25; 2032 Broadway, Oakland; owner, Remington-Rand Co., 2032 Broadway. FIRE repairs, \$300; 2325-33 Grove St., Oakland; owner, Audifred Estate Co., Premises; contractor, F. J. Early Jr., 369 Pine St., S. F. STATION, \$235, 5780 Telegraph Ave., Oakland; owner, A. D. Watts, 525 63rd St. SIGN, electric, \$50; 1409 Webster St., Oakland; owner, Frank Lim; contractor, Radiant Neon Displays, 2561 San Pablo Ave. ALTERATIONS, \$400; 5130 Taft Ave., Oakland; owner, Fred L. Larson, Vallejo. GARAGE, one-story, \$200; 1926 5th Ave., Oakland; owner, Veterans Welfare Board, State Bldg., S. F. ADDITION, \$700; 2824 25th Ave., Oakland; owner, Vernon Chappel, 2824 25th Ave. ALTERATIONS, \$98; 2814 Prince St., Berkeley; owner, Emslie & Lorenz 2133 Center St.; contractor, W. H. Verhson Roofing Co., Richmond

Contract Awarded.
RESIDENCE Cont. Price, \$6085
BERKELEY, Alameda Co., Cal. Hol-
 kan Lane and Spruce St.
 One and one-half-story frame resi-
 dence (6 rooms) Ma shall shingle
 roof, gas heating system, hard-
 wood floors, tiled bath, etc.
 Owner—H. C. Brown, 217 Palm Drive
 Brkly.
 Architect—Hardman & Russ, Berkeley
 Bank Bldg., Berkeley.
 Contractor—T. D. Courtright, 5098
 Manila Ave., Oakland.

Sub-Bids Being Taken.
ADDITION Cost, \$5000
SAN FRANCISCO, E 19th Ave. 194 S
 Ulloa Street.
 One - story and basement frame and
 stucco residence.
 Owner and Builder—Mager Bros. and
 Son, 1359 4th Ave.
 Plans by Owner.

Completing Revised Plans.
RESIDENCE Cost, \$7500
BERKELEY, Alameda Co., Cal. Arch
 Street.
 Two-story frame and stucco residence
 (7 rooms and 2 baths); tile roof,
 gas hot air heating system, tiled
 baths, hardwood floors, steel sash,
 etc.
 Owner—Name Withheld.
 Architect—E. L. Snyder, 2101 Shat-
 tuck Ave., Berkeley.
 Bids will be asked within one week.

Pltns Being Figured—Bids Close June
 14, 11 A. M.
RESIDENCE Cost, \$7000
SAN CARLOS, San Mateo Co., Cal.
 White Oaks Tract.
 One and one-half-story frame and
 stucco residence (7 rooms) Johns
 Manville roofing, oil burning ap-
 plement, steel sash, hardwood floors,
 mahogany trim, tiled baths, etc.
 Owner—W. W. Bradford.
 Architect—Chas. McKenzie, Twoby
 Bldg., San Jose.
 Following have procured plans:
 Roy Babcock, 72 S-6th St., San Jose.
 J. F. C. Kay, Sunnyvale.
 Wm. Caldwell, 1241 Hedding St.,
 San Jose.
 J. E. Perkins San Jose.
 Fred Nelson, San Jose.
 M. W. Reese, 1210 Minnesota St.,
 San Jose.

To Ask Bids June 12.
RESIDENCE Cost, \$15,000
SAN FRANCISCO, Marina Blvd. nr.
 Fillmore Street.
 Two - story and basement frame and
 stucco residence (9 rooms and 3
 baths) tile and composition roof,
 gas hot air heating system, tiled
 baths, oak floors, electric refrig-
 eration, ornamental iron, etc.
 Owner—Capt. D. W. Thomsen.
 Architect—D. D. Stone, 110 Sutter St.

Plans Being Completed.
ALTERATIONS Cost, \$—
OAKDALE, Stanislaus Co., Calif.
 Alterations and additions to frame resi-
 dence (new heating plant, two
 baths, wrought iron stairway,
 hardwood floors throughout, new
 kitchen, etc.)
 Owner—Mr. Bricchetto.
 Architect—G. N. Hilburn, 1213 I St.,
 Modesto.
 Bids will be asked in one week.

Plans Completed.
RESIDENCE Cost, \$4000
SAN FRANCISCO, NW Jefferson and
 Webster Streets.
 One - story and basement frame and
 stucco residence.
 Owner & Builder—V. Rasmussen, 1580
 Reach Street.
 Architect—Irvine & Ebbets, 2048 Mar-
 ket Street.

Contract Awarded.
RESIDENCE Cost, \$10,000
REDWOOD CITY, San Mateo Co.,
 Cal. Redwood Highlands.
 Two - story and basement frame and
 stucco residence (8 rooms).
 Owner—Jos. Corbett, 1394 27th Ave.,
 San Francisco.
 Architect—Not Given.
 Contractor—Thomas N. Gesso, 1201
 Vancouver St., San Mateo.

To Ask Bids Shortly.
RESIDENCE Cost, \$5000
EMERALD LAKE, San Mateo Co.
 Two-story wood frame residence (five
 rooms, 2 sleeping porches) shake
 exterior walls, crushed granite
 roof, brick chimney, etc.
 Owner—Miss Mary Cook, % Architect.
 Architect—Chas. Strothoff, 2274 15th
 St., San Francisco.

To Be Done By Day's Work.
RESIDENCES Cost \$5000 each
SAN FRANCISCO, S Marina Blvd.
 near Beach St.
 Two one-story and basement frame
 and stucco residences.
 Owner & Builders—Rothschild Bros.,
 41 Sutter Street.
 Architect—F. F. Amandes, 1879 18th
 Avenue.

Contract Awarded.
RESIDENCE Cost, \$5000
VALLEJO, Solano Co., Cal. Carroll
 St. Fleming Tract.
 One-story and basement frame and
 stucco residence (6 rooms) English
 type, composition roof, gas heat-
 ing system, hardwood floors, tiled
 baths, etc.
 Owner—George W. Wagner.
 Plans by E. Teixeira.
 Contractor—E. Teixeira, 331 Hamp-
 shire St., Vallejo.

Plans Being Prepared.
LOG CABIN Cost, \$2000
NEVADA COUNTY, Cal.
 One-story log cabin.
 Owner—Withheld.
 Architect—Charles McCall, 837 Santa
 Ray St., Oakland.

Sub-Contracts Awarded.
RESIDENCE Cont. Price, \$13,078
BAYWOOD, San Mateo Co., Cal.
 Two-story and basement frame and
 stucco residence (9 rooms and 9
 baths) tile roof, gas hot air heat-
 ing system, hardwood floors, tiled
 baths, electric refrigeration, etc.
 Owner—E. S. Hudson.
 Architect—Chester Treichel, 1540 San
 Pablo Ave., Oakland.
 Contractor—A. F. Mattock, 212 Clara
 St., San Francisco.
Lumber—Wisnom Lumber Co., Fifth
 and Claremont, San Mateo.
Excavation—San Mateo Feed & Fuel
 Co., 850 San Mateo Drive, San
 Mateo.
Concrete—G. Bragato & Co., 363 N.
 Eldorado St., San Mateo.
Reinforcing Steel—W. C. Hauck &
 Co., 280 San Bruno Ave., San
 Francisco.
Mill Work—Brannan Street Planing
 Mill, 560 Brannan St., S. F.
Steel Sash and Screens—Soule Steel
 Co., 1750 Army St., San Francisco.
Sheet Metal & Heating—Garvey Sheet
 Metal Works, 1206 Donnelly Ave.,
 Burlingame.
Painting—George Ames, 408 Howard
 Ave., Burlingame.

Sub-Contracts Awarded.
RESIDENCE Cost, \$14,000
INVERNESS, Marin Co., Cal.
 Two-story frame residence, rustic ex-
 terior, shingle roofing, oil burners,
 brick and stone fireplaces, etc.
 Owner—Bruce Johnstone, Chicago.
 Architect—W. C. Ambrose, 244 Kearny
 St., San Francisco.

Contractor—A. F. Mattock, 210 Clara
 St., San Francisco.
Concrete—F. Spaggiari, Inverness.
Excavation—T. Guibblini, Inverness.
Reinforcing Steel—W. S. Wetenhall,
 14th and Wisconsin Sts., S. F.
Shakes Roof and Wall—W. L. Iitidou,
 641 Central Ave., Alameda.
Sheet Metal and Heating—Pacific
 Heating Co., 18 Valencia St., San
 Francisco.
Plumbing—A. L. Nelson.
 As previously reported, water tank
 awarded to the Pacific Tank & Pipe
 Co., 230 California St., S. F.

Sub-Bids Being Taken.
RESIDENCE Cost, \$6500
BERKELEY, Alameda Co., Cal. North
 Cragmont District.
 Two-story frame and stucco residence
 (6 rooms) tile roof, hot air heat-
 ing system, hardwood floors, tiled
 baths, electric refrigeration, etc.
 Owner—George Dallas.
 Architect—E. L. Snyder, 2102 Addison
 St., Berkeley.
 Contractor—W. A. Netherby, 3853 Ly-
 man Road, Oakland.
 Sub-bids are wanted on plastering,
 hardwood floors, painting, sewer,
 finish cement and tile work.

Contract Awarded
RESIDENCE Cost, \$4500
BERKELEY, Alameda Co., Calif.—
 Shasta Road, near Grizzly Peak
 Blvd.
 One-story and basement frame and
 stucco residence (5 rooms) built-
 up flat roof, gas heating system,
 hardwood floors, etc.
 Owner—Withheld.
 Architect—E. L. Snyder, 2102 Shat-
 tuck Ave., Berkeley.
 Contractor—F. W. Confer, 5730 Keith
 Ave., Oakland.

Contract Awarded.
RESIDENCE Cost, \$5000
VALLEJO, Solano Co., Cal. Fleming
 Tract.
 One-story and basement frame and
 stucco residence (6 rooms) tile and
 composition roof, gas heating sys-
 tem, hardwood floors, tiled baths,
 etc.
 Owner—Romeo Mini
 Plans by Owner
 Agent—J. V. O'Hara, Vallejo.
 Contractor—Frank Lamb, 821 Capitol
 St., Vallejo.

Additional Contracts Awarded.
RESIDENCE Cont. Price, \$5217
SAN FRANCISCO, Russia and Prague
 Streets.
 Two-story and basement frame and
 stucco residence (10 rooms and 1
 bath, 3 toilets) spanish type, tile
 roof, gas heating system, hard-
 wood floors, etc.; social hall in
 basement.
 Owner—A. Arrighi.
 Architect—Italo Zanofini, 604 Mont-
 gomery St., San Francisco.
 Contractor—L. Pastorini, 1438 Van
 Dyke St., San Francisco
Electric—W. Weindorf, 9 Pomona St.
 at \$275.
Painting—Guido Gabrielli, 764 North
 Point St., at \$410.
Plumbing—Adrian Ramazzotti, 1473
 Vallejo St., at \$560.

To Ask Bids Within A Few Days.
RESIDENCE Cost, \$7500
BERKELEY, Alameda Co., Cal. Arch
 Street.
 Two-story frame and stucco residence
 (7 rooms and 2 baths); tile roof,
 gas hot air heating system, tiled
 baths, hardwood floors, steel sash,
 etc.
 Owner—Withheld.
 Architect—E. L. Snyder, 2101 Shat-
 tuck Ave., Berkeley.

Contract Awarded.

RESIDENCE Cont. Price, \$6085
BERKELEY, Alameda Co., Cal. Hol-
kan Lane and Spruce St.
One and one-half-story frame resi-
dence (6 rooms) Marshall shingle
roof, gas heating system, hard-
wood floors, tiled bath, etc.

Owner—H. C. Brown, 6419 Mystic
Ave., Oakland.

Architect—Hardman & Russ, Berke-
ley Bank Bldg., Berkeley.

Contractor—T. D. Courtright, 5098
Manila Ave., Oakland.

Following is a complete list of bids:
T. D. Courtright, Oakland.....\$6085
David Nordstrom, Oakland..... 6443
J. J. Moore, Oakland..... 6478
W. H. Connor, Berkeley..... 6495
F. A. Kurtz, Oakland..... 6616
H. K. Henderson, Oakland..... 6772

Sub Contract Awarded

RESIDENCE Cost, \$8000
KENTFIELD, Marin Co., Cal.

Two-story frame and shakes resi-
dence (7 rooms and 3 baths) shin-
gle roof, gas fired warm air heat-
ing system, pine floors, tiled
baths, etc.

Owner—Roger Kent.

Plans by H. T. Howard, % Arthur
Brown Jr., 251 Kearny St., San
Francisco.

Contractor—Young & Horstmeyer,
461 Market St., San Francisco.

Roofing—Marshall Shingle Co., 3729
Telegraph Ave., Oakland.

Heating & Sheet Metal—Atlas Heat-
ing Co., 557 4th St., S. F.

Hardware—Palace Hardware Co., 581
Market St., San Francisco.

Concrete—D. Bottini, San Rafael.

As previously reported, lumber
awarded to Henry Hess, San Rafael;
electric to North Bay Electric Co.,
San Rafael; plumbing to A. M. Justis,
San Anselmo.

Sub-Contracts Awarded.

RESIDENCE Cost, \$80,000
WOODSIDE, San Mateo Co., Cal.

Two-story & basement frame, stucco
and brick veneer residence (20
rooms and 10 baths).

Owner—Walter Buck.

Architect—Farr & Ward, 68 Post St.,
San Francisco.

Contractor—F. C. Stolte, 3449 Laguna
Millwork and Lumber—Sunset Lum-
ber Co., 400 High St., Oakland.

Roofing—General Roofing Co., 3985
Beach St., Oakland.

Painting—V. E. Swedberg, 2215 10th
Ave., Oakland.

Plumbing—J. J. McCleod, 1246 Gold-
en Gate Ave., San Francisco.

Heating—A. G. Atwood, 3623 18th St.,
San Francisco.

Finish Hardware—Levy Bros., 55
Third Ave., San Mateo.

Date Of Opening Bids Postponed For
One Week.

RESIDENCE Cost, \$8000
SAN FRANCISCO. Thirtieth Avenue
and Fulton Street.

Two-story frame and stucco residence
(8 rooms and 3 baths); tile roof,
gas heating system, electric re-
frigeration, tiled baths, steel sash

Owner—Evelyn Kearny.

Architect—D. D. Stone, 110 Sutter
St., San Francisco.

Lindgren & Swinerton, Inc., 225
Bush St., are among the contractors
figuring the plans.

Plans Being Figured—Bids Close June
12th.

RESIDENCE Cost, \$—
SAN FRANCISCO. Forest Hill.
One- and 3-story frame and stucco
residence (6 rooms).

Owner—Mr. Cowell.

Architect—Morrow and Morrow, de-
Young Bldg.

Contract Awarded.

RESIDENCE Cost, \$5000
EMERALD LAKE, San Mateo Co.
One and one-half-story frame and
stucco residence (5 rooms); tile
roof, gas heating system, steel
sash, hardwood floors, etc.

Owner—L. B. Bingley, 811 Howard
St., San Francisco.

Plans by Mr. Dolphin.

Contractor—Stanley & Taylor, Red-
wood City.

Roofing—Gladding, McBean Co., 660
Market St., San Francisco.

Contract Awarded.

RESIDENCE Cost, \$4000
BERKELEY, Alameda Co., Cal. E
Grizzly Peak Blvd. N Euclid Ave.
Two-story frame and stucco residence
(5 rooms).

Owner—E. E. Nichols, Mercantile Bk.
Bldg., Berkeley.

Architect—Not Given.

Contractor—Kleyn & Schoorel, 551
Grizzly Peak Blvd., Berkeley.

15—SCHOOLS

GRASS VALLEY, Nevada Co., Cal.
—Until June 14, bids will be received
by James S. Hennessy, Superinten-
dent of Schools, Grass Valley, for
painting and tinting interior rooms of
the Columbus, Grant and Bell Hill
Schools and exterior painting of the
Washington School. Plans and specifi-
cations available from above office.
(1709)

SAN FRANCISCO.—H. L. Peterson,
731 Treat Ave., at \$3,459 awarded the
contract by Department of Public
Works for laying wood floors in the
Redding School, Pine and Larkin Sts.

SAN FRANCISCO.—Jacks & Irvine,
74 New Montgomery St., at \$2,732
awarded contract by Department of
Public Works for laying wood floors
in the Washington Irving School,
Broadway and Sansome Streets.

Commissioned To Prepare Plans.

ALTERATIONS Cost, \$—
BERKELEY, Alameda Co., Cal. Rose
and Josephine Streets.

Alterations to Jefferson School cafe-
teria (partition work, new con-
crete slab, tables, counters, exca-
vation work, cafeteria equipment,
etc.)

Owner—Berkeley City School District.
Architect—Hardman & Russ, Berkeley
Bank Bldg., Berkeley.

Contract Awarded.

SCHOOL Cost, \$—
SMITH VALLEY, Nevada Co., Cal.
One-story and basement frame and
stucco school (brick and cement
foundation); five classrooms, gym-
nasium, lockers, dressing rooms,
etc.

Owner—Smith Valley School District.
Architect—Not Given.

Contractor—Rouse & Belz, Reno, Nev.

Plans Being Figured—Bids To Close
June 19, 2 P. M.

AUDITORIUM Cost, \$7500
RED BLUFF, Tehama Co., Cal.
One-story frame and brick veneer
auditorium and stage (45x130 ft.) tile
roof, maple floors, etc.

Owner—Red Bluff Grammar School
District (Camille H. Hart, Clerk
of the Board).

Architect—Dragon & Schmidts, Mer-
cantile Bank Bldg., Berkeley.

Plans and specifications available
from Office of the Board of Trustees
in the Lincoln Grammar School, Red
Bluff, and from the architect, upon
a deposit of \$10.

Following have procured plans to
date:

Listen Ehorn, Red Bluff.

C. M. Norgrove, 2220 Roosevelt St.,
Berkeley.

J. P. Brenning, Redding.

F. H. Nielsen, Orland.

T. B. Goodwin, 2950 Divisadero St.,
San Francisco.

Plans Being Figured—Bids Close June
16, 7 P. M.

SCHOOL Cost, \$20,000
LOS MOLINAS, Tehama Co., Cal.

One-story frame and stucco high
school (7 classrooms and shop)
main building (60x200 feet) shop
(36x100 ft.) composition roof, hot
air heating system, pine floors,
blackboards, etc.

Owner—Corning High School District.
Architect—W. E. Coffman, Forum
Bldg., Sacramento.

Contract Awarded.

SCHOOL Cost, \$16,500
RENO, Washoe Co., Nevada. Lone
Pine.

One-story and basement reinforced
concrete school (4 classrooms, of-
fices, etc.); steam heating system
with automatic oil burner,
tile roof, hardwood floors, etc.

Owner—Lone Pine Grammar School
District (Dean Sears, Clerk).

Architect—Not Given.

Contractor—George Probasco, 206
State St., Reno.

HOLLISTER, San Benito Co., Cal.—
All bids were returned unopened by
the San Benito County High School
District in connection with the finish-
ing of the offices of the present sec-
ond unit of the High School Building
in Hollister. Work has been in-
definitely postponed.

BERKELEY, Cal.—Until June 21, 8
P. M., bids will be received by Clara
F. Andrews, Secretary, Board of Edu-
cation, for furnishing fuel oil, coal
and lumber for the Berkeley High
School District. Specifications avail-
able from above office.

COMPTON, Los Angeles Co., Cal.—
Architects Marsh, Smith & Powell,
516 Architects' Bldg., Los Angeles,
have been commissioned by the Com-
pton City School District to supervise
the demolition and reconstruction of
grammar schools in Compton damaged
by the earthquake in March. A survey
of the buildings will be made at once
in order to determine what work is
necessary to restore the structures.
Grammar schools in Compton are:
Betsy Ross, 720 S. Tamarind St.;
Compton Ave., 15,905 Compton Ave.;
Burton Ave., 310 E. Burton Ave.;
Glen Ave., Glen and Pine Aves.; Holly
Ave., 1927 San Vincente St.; Col.
Lindburgh, 2320 E. Olive St.; Clark
St., 5320 Clark St.; Mayo Ave., 915
N. Mayo Ave.; Orange St., 315 W. Or-
ange St.; Mark Keppel, Rose and
Faulkner Aves. Action taken by the
District on May 12, at which time
they announced Architect Albert C.
Martin had been retained to handle
this work, was rescinded.

SAN FRANCISCO—Until June 14,
1:45 P. M., informal bids will be re-
ceived by S. J. Hester, Chief Deputy
Director, Department of Public Works,
for gates for gymnasium at Aptos
Junior High School.

Plans Being Figured—Bids Close June
27, 8 P. M.

HIGH SCHOOL Cost, \$25,000
ALBANY, Alameda Co., Cal. Ra-
mona and Garfield Streets.

Two-story and basement reinforced
concrete high school (8 classrooms
1st unit) to be known as Herbert
Hoover Junior High School.

Owner—City of Albany.

Architect—P. L. Dragon and C. R.

Schmidts, 3016 Telegraph Avenue, Berkeley.

Will have composition roof, steam heating system, pine floors, linoleum corridors, stucco finish, cement stairs, tile and wainscoting in toilet rooms, steel partitions, etc.

Plans will be available from the architects June 10 upon deposit of \$20.

16—BANKS, STORES AND OFFICES

STORE Cost, \$20,000
BERKELEY, Alameda Co., Cal. Telegraph and Bancroft.

One-story reinforced concrete store building (three stores) gas steam heating system, composition roofing, etc.

Owner—Anna Weeks.
Architect—Stafford Jory, 1370 Euclid Ave., Berkeley.

Sub-Contracts Awarded.
REMODEL Cont. Price, \$5142
SAN FRANCISCO. 868 Geary Street. Remodel store.

Owner—Martin Stelling.
Architect—Bertz, Winter and Maury, 210 Post Street.

Contractor—Young & Horstmeyer, 461 Market Street.

Concrete—Paramount Conc. Co., 375 Wheeler Street.

Glass—W. P. Fuller Co., 301 Mission.
Plumbing—Dowd & Welsh, 3558 16th.
Lumber—Roth-Maier.

Roofing—Fisher & Houts, 1252 Howard Street.

As previously reported, structural steel awarded to Judson Pacific Co., 609 Mission St.; reinforcing steel to Pacific Coast Steel Co., 20th and Illinois Streets.

Plans Being Completed.
STORE Cost, \$—
SAN FRANCISCO. No. 1041 Market Street.

Seven-story Class C steel and concrete store.

Owner—Weinstein Co. (Isidor Weinstein, President), 1041 Market St., San Francisco.

Architect—Hyman & Appleton, 68 Post St., San Francisco.

Bids will be asked in about fifteen days.

Contract Awarded.
REPAIRS Cost, \$2500
SAN FRANCISCO. No. 119-127 Grant Avenue.

Repair fire damage to stores and offices.

Owner—MacDonough Estate Company
Architect—Not Given.
Contractor—J. J. Irwin, 1040 Oak St., San Francisco.

Contract Awarded
ALTERATIONS Cost, \$5,000
SAN FRANCISCO. Market St. near Fifth Street.

Alterations to Lincoln Building.
Owner—The Emporium, 835 Market St., San Francisco.

Plans by Engineering Dept. of Owner.
Contractor—K. E. Parker, 135 South Park Street.

Sub Contracts Awarded.
ALTERATIONS Cost, \$15,000
SAN FRANCISCO—811-13-15 Market Street.

Alterations to mezzanine floor and store (steel joists and beams, concrete slab, metal lath and plaster ceiling, etc.)

Owner—Pacific Company, Pacific Bldg., San Francisco.

Engineer—Ellison & Russell, Pacific Bldg., San Francisco.

Lessee—Charles Brown & Sons, 871 Market St., San Francisco.

Contractor—Regal Showcase & Fixture Co., 540 McAllister St., San Francisco.

Structural Steel—Western Iron Works
141 Beale St.

Rein. Steel.—Soule Steel Co., 1750 Army St.

Electric—Aetna Electric Co., 1435 Eddy Street.

Concrete—Misslon Concrete Co., 270 Turk Street.

Glass—Friedman Bros., 461 Valencia Street.

Stairs—F. M. Phillips Co., 718 Bryant Street.

Sub bids are being taken on plastering, painting and plumbing.

Plans Being Figured—Bids Close June 14, 5 P. M.

STORE Cost, \$5000
SAN LEANDRO, Alameda Co., Cal.

One-story store (brick walls, steel trusses, plate glass front, cement floors, etc., 45x67 feet).

Owner—Withheld.
Architect—Ray Keefer, 770 Wesley Ave., Oakland.

Following will submit bids:
O. W. Mailenen, 1430 Allston Way, Berkeley.

Willis Lynn, 1037 Ashmount Ave., Oakland.

C. M. Flewelling, 1625 E-14th St., San Leandro.

C. H. Thrans, 28 Home Place, Oakland.

A. T. Beckett, 224 Scenic Avenue, Piedmont.

I. H. Reimers, 565 Kenmore Ave., Oakland.

Plans Being Figured.
Plans Being Figured.
MARKET Cost, \$18,000
SACRAMENTO, Sacramento Co., Cal. NE 13th and K Streets.

One-story brick market (80x160).
Owner—Ochsner Estate, Oschner Bldg. Sacramento.

Architect—W. E. Coffman, Forum Bldg., Sacramento.

Contract Awarded.
STORE Cost, \$2,500
OAKLAND, Alameda Co., Cal.—5650 Shattuck Avenue.

One-story frame store.
Owner—M. Landy, 658 Aileen Street.
Architect—Not Given.
Contractor—Lawrence C. Sullivan Co., 3909 Loma Vista Ave., Oakland.

Contract Awarded.
ALTERATIONS Cost, \$4000
SAN FRANCISCO. No. 939 Market Street.

Alterations to department store.
Owner—S. H. Kress Co., 114 Fifth St., New York City.

Plans by Engineering Dept. of Owner (E. F. Sibberg, Engineer).
Contractor—Dinwiddie Construction Co., Crocker Bldg., San Francisco.

Planned.
ADDITION Cost, \$100,000
SPOKANE, Washington.

Addition to bank.
Owner—Federal Land Bank (R. E. Shepherd, chairman of the board)
Architect—Not Given.

Sub-Contracts Awarded.
REMODEL Cont. Price, \$5142
SAN FRANCISCO. No. 868 Geary St. Remodel store.

Owner—Martin Stelling.
Architect—Bertz, Winter & Maury, 210 Post St., San Francisco.

Contractor—Young & Horstmeyer, 461 Market St., San Francisco.

Structural Steel—Judson Pacific Co., 609 Mission St., San Francisco.

Reinforcing Steel—Pacific Coast Steel Co., 20th and Illinois Sts., S. F.

Plans To Be Prepared.
ALTERATIONS Cost, \$—
BERKELEY, Alameda Co., Cal. Center St. East of Shattuck Ave.

Alterations for cafeteria.

Owner—True Blue Cafeteria, 1975 Shattuck Ave., Berkeley.

Architect—Not Given.

Further information will be available in two weeks.

SAN FRANCISCO—Bureau of Building Repairs at 3,325.00 awarded contract by Department of Public Works for remodeling rooms 282, 287 and 289 in the City Hall for use of Public Utilities Commission.

Contract Awarded.
REMODEL STORE Cont. Price, \$1180
SAN FRANCISCO. Bush Street near Powell Street.

Remodel Class C concrete store (new tile front, partition work, leaded glass, lavatories, etc.)

Owner—Mr. Dragon.
Architect—Fabre and Hildebrand, 110 Sutter Street.

Contractor—G. P. W. Jensen, 320 Market Street.

Following bids received:
G. P. W. Jensen.....\$1,180
Carl Wengard.....1,181
H. H. Larsen.....1,273
A. Lineberger.....1,473
J. A. Periera.....1,300

Commissioned To Prepare Plans.
REPAIRS Cost, \$75,000
LONG BEACH, Los Angeles Co., Cal. American Ave. and Broadway.

Repairs to 12-story office building (work involves reinforced concrete work, hollow tile partitions, interior plastering and painting, terra cotta exterior trim, etc.)

Owner—Pacific Southwest Building.
Architect—W. H. Austin, 532 Chestnut Ave., Long Beach.

SAN FRANCISCO—Alfred H. Vogt 250 11th St., desires sub-bids on all portions of the work in connection with the construction of the alterations and additions to the administration building at the San Francisco Airport, for which bids will be opened June 8.

Structural Steel Contract Awarded.
MARKET Cont. Price, \$14,357
BAKERSFIELD, Kern Co., Cal. 18th and I Streets.

One-story reinforced concrete market (60x110 feet) steel roof, trusses; parking area, 72x115 ft., etc.

Owner—Mattson Brothers.
Architect—Edwin J. Symmes, Habersfelde Bldg., Bakersfield.

Lessee—Scholar & Scholar.
Contractor—W. A. Croft, Bakersfield.

Structural Steel—Consolidated Steel Corp., Bakersfield.

Reinforcing Steel Contract Awarded.
STORE Cost, \$10,000
SAN MATEO, San Mateo Co., Cal. S Third Ave. W Ellsworth Ave.

One-story reinforced concrete store (30x65 ft.) English type.

Owner and Builder—Alfred H. Vogt, 250 Eleventh St., San Francisco.

Architect—E. L. Norberg, 407 Occidental Ave., Burlingame.

Reinforcing Steel—Pacific Coast Steel Co., 20th and Illinois Sts., S. F.

Preparing Plans.
ALTERATIONS Cst, \$80,000
SACRAMENTO, Sacramento Co., Cal. NW Eleventh and K Streets.

Alterations to four-story Class B and C building for department store (80x60 ft.) redecorating, etc.

Owner—Bon Marche, 7th and K Sts., Sacramento (Mitchel W. and Emile C. Nathan).

Architect—George C. Sellon, California State Life Bldg., Sacramento.

Bids will be asked in about three weeks.

18—WHARVES & DOCKS

SAN FRANCISCO.—Until June 15, 2 P. M., bids will be received by Frank G. White, Engineer, State Board of Harbor Commissioners, Ferry Building, for repairs to reinforced concrete beams and girders at Piers Nos. 28, 30, 32, 39, 29, 31, 33, 35, involving:

- (1) 2,000 lin. ft. beams 10-in. in width or less;
- (2) 2,000 lin. ft. beams 11- to 13-in. do;
- (3) 8,000 lin. ft. beams, 14- to 17-in. do
- (4) 10,000 lin. ft. beams 18 to 20 in. do
- (5) 2,000 lin. ft. beams 21 to 24 in. do.

Specifications available from above office.

SAN FRANCISCO.—Until June 15, 2 P. M., bids will be received by Frank G. White, Engineer, State Board of Harbor Commissioners, Ferry Bldg., for laying new roofing in shed of Pier 34, shed on Pier 7 and a portion of the Ferry building. Work involves:

- (1) 735 squares of 100 sq. ft. each mineral surfaced roofing on Pier No. 34;
- (2) 795 squares of 100 sq. ft. each mineral surfaced roofing on Pier No. 7;
- (3) 235 squares of 100 sq. ft. each mineral surfaced roofing on Ferry Building.

Specifications available at Room 18, Union Depot and Ferry Bldg., upon deposit of \$10.

Preliminary Studies Made.

WHARF Cost, \$15,000
OAKLAND, Alameda Co., Cal. Estuary (San Antonio Slough).
Timber wharf.
Owner—Western Pacific Railroad Co., Mills Bldg., San Francisco.
Plans by Engineering Dept. of Owner.
Franchise has been granted by the City of Oakland Port Commission to the Western Pacific Railroad to construct the wharf.

ALAMEDA, Cal.—Plans will be prepared on approval by Washington authorities for dredging the estuary channel and for construction of a 1500-foot wharf for the U. S. Coast Guard on Government Island, by the U. S. Bureau of Public Roads, 461 Market St., San Francisco. Estimated cost, \$1,500,000. Captain A. B. Brown, Engineer in charge of construction.

Sprinkler Contract Awarded.

RECONSTRUCT WHARF
Cont. Price, \$27,793
OAKLAND, Alameda Co., Cal. Pier No. 1, Waterfront.
Reconstruct easterly apron of wharf.
Owner—Howard Terminal, First and Market Sts., Oakland.
Architect—Read & Corlett, Bank of America Bldg., Oakland.
Contractor—Ben C. Gerwick, Inc., 112 Market St., San Francisco.
Sprinkler System—Albertson-McCormick Sprinkler Co., 865 Mission St., San Francisco, at \$870.

SAN FRANCISCO—Following have procured plans for the purpose of submitting bids to the State Board of Harbor Commissioners on June 15 in connection with the repairs to reinforced concrete beams and girders at Piers Nos. 28, 30, 32, 39, 29, 31, 33 and 35:

Cement Gun Construction Co., 85 Second St.
Daniel T. Ryan, 31 Lyon St.
Duncanson-Harrelson Co deYoung Bldg.
M. B. McGowan, 74 New Montgomery Street.

19—MISC. CONSTRUCTION

ONTARIO, San Bernardino Co., Cal.—Charles W. Hughes Co., 1307 South Orange Grove Ave., Los Angeles, has entered into a contract with the Ontario Cemetery Assn. for the construction of a mausoleum in Bellevue cemetery, Ontario. The Hughes company will design and erect the mausoleum, but will not start construction for several months. It will be a modern style, concrete and steel structure, containing 580 crypts, with art glass interior.
Italian statuary marble, bronze and

Contract Awarded.

PLANETARIUM Cost, \$250,000
LOS ANGELES, Cal. Griffith Park.
Two-story Class A planetarium (100x200) reinforced concrete and steel construction, composition roof, cork tile, marble, tile and carpeted floors, metal sash, marble and tile trim, bronze doors, acoustical plaster, stone grills, leather and metal fire doors, concrete retaining wall, etc.
Owner—City of Los Angeles Park Commission.
Architects—F. M. Ashley and J. C. Austin, Chamber of Commerce Bldg., Los Angeles.
Contractor—Wm. Simpson Const. Co.
Funds for the project were provided in the will of the late Col. Griffith J. Griffith.

SAN DIEGO, Calif.—The Garrett Plumbing Co., 3333 Pacific Ave., San Pedro, awarded contract by Bureau of Yards and Docks, at \$8635 (using copper tubing), for improvements of steam condensate return lines at the Naval Operating Base, San Diego; Specification No. 7272. The work will include the provision of materials for and the construction of a new steam condensate return system consisting in general of (a) condensate return main and lateral piping of a combined length of approximately 3800 feet to replace a present cast iron condensate return pipe; (b) new manholes, anchors, expansion joints and miscellaneous work as required for the completion of the system.

20—MISC. SUPPLIES AND MATERIALS

OAKLAND, Calif.—Until June 16, 5:30 P. M., to be opened at 8 P. M., bids will be received by John H. Kimball, secretary, East Bay Municipal Utility District, 512 16th St., Oakland to furnish:

- (1) 125,000 cu. ft. oxygen gas;
- (2) 75,000 cu. ft. dissolved acetylene.

Specifications obtainable from the above office; Bid No. 479.

PALMS, Los Angeles Co., Calif.—Soule Steel Co. submitted low bid to A. J. Holm, Los Angeles City Purchasing Agent, at price shown below to furnish and install all hollow metal doors and casings in Water and Power Department's distribution station under construction at 3030 Canfield Ave., Palms, Spec. No. 3069. The bids were as follows:

Soule Steel Co., \$2929. Terms net.
Dahlstrom Metallic Door Co., \$3086. Terms net.
Art Metal Const. Co., \$3194. Terms net.
A. J. Bayer Co., \$3390. Terms net.
Bradfield Bldg. Products Co., \$3453. Terms, 1% 20 days.

SAN FRANCISCO—Until June 12, 2 P. M., under Circular Proposal No. 33-66, bids will be received by U. S. Engineer Office, 401 Custom House, San Francisco, to furnish one 26-in. self-adjusting draghead for U. S. Dredge "W. L. Marshall." Specifications obtainable from above office.

FRESNO, Cal.—Until June 16, 11 A. M., bids will be received by H. S. Foster, city clerk, to furnish Mazda incandescent lamps for term beginning July 1, 1933, to June 30, 1934. Specifications obtainable from above office. Certified check \$500 payable to City of Fresno required with bid.

SAN FRANCISCO.—The following bids received by T. A. Brooks, City Purchasing Agent, under Bid No. 1115 to deliver and return voting machines and deliver election stationery at the special election to be held June 27, as follows:

- (1) deliver and return machines, each, round trip;
- (2) deliver supplies, lump sum.

Bidders follow:

Carley-Halimton, (1) \$3.18 (2) \$258.
Farnsworth & Ruggles, (1) \$2.20; (2) \$350.00.
Overland Freight Transit Co., (1) \$1.83; (2) \$295.00.
ABC Transfer & Storage, (1) \$....; (2) \$198.50.
Dan Gallagher, (1) \$1.98; (2) \$....
A. W. Reid Draying (1) \$1.94; (2) \$240.00.
Thompson Bros., (1) \$3.40; (2) \$....
J. A. Clark Draying, (1) \$1.96; (2) \$....
C. F. Kane, (1) \$2.00; (2) \$....
J. M. McCarthy & Son, (1) \$1.92; (2) \$250.00. 20

Bids held under advisement.

BERKELEY, Alameda Co., Calif.—Standard Oil Co. at \$10 ton (with benefit of any decline in price) submitted low bid to city council to furnish 100 tons asphalt. Complete bids follow:

Standard Oil Co.	\$10.00
Associated Oil Co.	10.00
Gilmore Oil Co. (tank cars)	10.00
(one-way drums)	16.00
(regular drums)	17.10
Shell Oil Co.	16.00
Union Oil Co.	16.00

Bids held under advisement. 20

BERKELEY, Alameda Co., Calif.—Richfield Oil Co. at \$79 per barrel submitted low bid to city council to furnish 1300 barrels of fuel oil. Complete bids follow:

Richfield Oil Co.	\$.79 bbl.
Shell Oil Co.	\$.87 bbl.
Standard Oil Co.	1.01 bbl.
Union Oil Co.	1.01 bbl.
Associated Oil Co.	1.01 bbl.

Bids held under advisement.

BOULDER CANYON, Nevada—Following contracts awarded by A. McD. Brooks, Purchasing Agent, Boulder Canyon, U. S. Bureau of Reclamation, to furnish grouting strips as follows:

- (1) International Nickel Co., Inc., f.o.b. cars Huntington, W. Va., at \$4.425 per lb. for 10,000 lin. ft. No. 20 strips.
- (2) International Nickel Co., Inc., f.o.b. cars Bayonne, N. J., at \$.80 per lb. for 100 lbs. 3/32-in. dia. welding rods.
- (3) John W. Beam, f.o.b. cars Denver, Colo., at \$1.33½ per 100 for 6,000 only strap iron clips for fastening metal stop for item (1).

STOCKTON, San Joaquin Co., Cal.—The Stockton Lumber Co., Stockton, at \$11,000 awarded contract for furnishing lumber for quarters in seven reforestation lumber camps in the Mother Lode, involving approximately 450,000 feet.

BUILDING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

- | | |
|---------------------------------|---|
| 1.—Apartments | 11.—Ice and Cold Storage Plants |
| 2.—Bonds | 12.—Power Plants |
| 3.—Churches | 13.—Public Buildings, Fire Houses and Jails |
| 4.—Factories and Warehouses | 14.—Residences |
| 5.—Flats | 15.—Schools |
| 6.—Garages and Service Stations | 16.—Banks, Stores and Offices |
| 7.—Federal Buildings | 17.—Theatres |
| 8.—Club Buildings | 18.—Wharves & Docks |
| 9.—Hospitals | 19.—Misc. Const. |
| 10.—Hotels | 20.—Misc. Supplies & Materials |

1—APARTMENTS

Preparing Plans.
APARTMENTS Cost, \$300,000
BREMERTON, Washington. Site Not Selected.
 Fifteen-story Class A reinforced concrete apartment building (commercial garage, roof garden, club rooms, dining room, ballroom, etc.)
 Owner—Far West Hotel Co., Inc. (M. Don East, President), Seattle.
 Architect—S. S. Bergseth, 1411 Fourth Avenue Bldg., Seattle, Wash.

APTS. & STORES Cost, \$10,000
SAN FRANCISCO. Fourteenth Street (South of Market St.)
 Two-story frame and stucco apartments and stores 4 3-room and 1 2-room apts.; one store) Pabco roof, Arcola heating system, canvas walls, hardwood floors, etc.
 Owner—Mr. Berry.
 Plans by Owner.
 Contractor—Robt. McCarthy, 1363 14th Ave., San Francisco.
 Heating and Plumbing—P. J. Enright, 2720 McAllister St., San Francisco.
 Roofing—Matott & Peterson, 20th and Harrison Sts., San Francisco.
 Plastering Material—Mission Building Material Co., Church and 16th Sts., San Francisco.
 Plastering—Lynch & Pratt, 17 Whitney St., San Francisco.
 As previously reported, lumber awarded to Sudden Lumber Co., Evans and Quint Sts.; concrete to D. O'Connor & Son, 1367 25th Ave.

Sub-Contracts Awarded.
APARTMENTS Cost, Approx. \$13,000
SAN FRANCISCO. Union and Octavia streets.
 Three-story and basement frame and stucco apartments (5 4-room apts.) tile and composition roof, gas steam heating system, hardwood floors and trim, tiled baths, electric refrigeration, etc.
 Owner—E. J. Pierron.
 Architect—Fabre and Hildebrand, 110 Sutter Street.
 Contractor—DeLuca & Sons, 320 Market Street.
 Heating & Plumbing—Adrain Ramazzotti, 1473 Vallejo St.
 Electric—Grandi Electric Co., 3373 Sacramento Street.
 Structural Steel.—Mortenson Construction Co., 608 Indiana St.
 Rein. Steel—W. S. Wetenhall, 17th & Wisconsin Sts.
 Mis. & Orn. Iron—F. Kern & Sons, 517 6th St.
 Steel Sash—Detroit Steel Products Co., 111 Sutter St.
 Lumber—Roth-Maler Co.

Contract Awarded.
REMODEL APTS. Cost, \$—
RED BLUFF, Tehama Co., Cal. Pine and Jefferson Streets.
 Remodel frame and stucco apartments (6 apts.) stucco exterior, heating and cooling system, electric refrigeration, landscaping, etc.
 Owner—Dr. E. E. Thompson, County Health Officer, Red Bluff.
 Architect—Not Given.
 Contractor—Walter Ternstedt, Red Bluff.

2—BONDS

PASADENA, Calif.—The \$992,000 block of San Gabriel Canyon (Pine Canyon Dam) Project bonds sold by city directors May 31 to Dean, Witter & Co. at par, accrued interest and a premium of \$88. The award was made on a basis of interest at follows: \$544,000 at 5% and \$448,000 at 4½%.

3—CHURCHES

REDWOOD CITY, San Mateo Co., Cal.—Until June 19, 2 P. M., bids will be received by E. B. Hinman for the sale of \$114,000 bonds, 6% interest. Bid to be for par and accrued interest.

Contracts Awarded.
REBUILD Cost, \$8500
SAN FRANCISCO. 2475 California St. Rebuild structure recently destroyed by fire for frame gymnasium.
 Owner—St. Paul's Episcopal Church (Rev. Leslie C. Kelly, Pastor).
 Architect—Arnold Constable, 580 Market Street.
 Carpentry—Anton Lee & Company.
 Plumbing—Dowd & Welch, 3558 16th Street.
 Electric—Electric Lite House, 1428 Haight Street.
Iron—Mortenson Const. Co., 608 Indiana Street.
 Other awards will be announced shortly.

Preparing Plans.
CHURCH Cost, \$3500
PITTSBURGH, Contra Costa Co., Cal. Albers Avenue (50x186 feet).
 Two-story & basement frame church.
 Owner—Ambrose Community Church (Rev. Raymond Cramer, Pastor), Port Chicago.
 Architect—Fred Henderson, Route 1, Pittsburg.
 Members of the building committee are: James Cawthorne, A. E. Hulse and W. H. Sipe.

4—FACTORIES & WAREHOUSES

Reinforcing Steel Bids Opened.
PLANT Cost, \$50,000
SAN FRANCISCO. Washington St.
 Two-story reinforced concrete printing plant.
 Owner—Edward Barry Co., 32 Clay St.
 Architect—H. A. Minton, 525 Market Street.
 Engineer—L. H. Nishkian, 525 Market Street.
 Contractor—David Paganini, 519 California Street.
 Following bids were received by Mr. Paganini:
 W. S. Wetenhall, 17th and Wisconsin Sts. \$2,978
 Gunn, Carle & Co. 3,197
 Pacific Coast Steel Co. 3,235
 Concrete Engineering Co. 3,480
 W. C. Hauck. 3,522
 Truscon Steel Co. 3,593

Soule Steel Co. 3,318
 Bids held under advisement.
 Sub-bids are now being received on electrical work, plumbing and heating.
 As previously reported, wrecking contract awarded to Acme Wrecking Co., 1775 San Bruno Ave.

LONG BEACH, Calif.—Consolidated Aircraft Corp., Major R. H. Fleet, general manager, Buffalo, N. Y., who recently applied for a 25-year lease on thirty acres of the Long Beach city airport, has been notified that the lease has been approved. The corporation proposes investing \$250,000 in a plant to be constructed on the site.

Preparing Preliminary Plans.
BREWERY Cost, \$275,000
SAN FRANCISCO OR OAKLAND.
 Reinforced concrete brewery (100,000 barrel capacity per year) 150 barrel kettles, etc.
 Owner—Samarkand Brewing Co., 893 Folsom Street.
 Plans by Engr. Dept. of Owner.
 An architect may be retained shortly. Directors of the company include J. P. Rettenmayer, Paul L. Schmidt, Frank M. Kenny, Lee M. Olds, Philip H. Hess, L. A. Enge and Walter K. Olds, all of San Francisco.

Planned.
REMODEL Cost, \$—
OAKDALE, Stanislaus Co., Cal. E and Fifth Streets.
 Remodel plant for brewery and bottling plant.
 Owner—J. Contant et al, 2255 North Point St., San Francisco.
 Architect—Not Given.

Additional Sub-Contracts Awarded.
LAUNDRY Cost, \$—
LOS GATOS, Santa Clara Co., Cal. One-story concrete laundry (26x60 ft.) tar and gravel roof, etc.
 Owner—J. Libante.
 Architect—H. C. Baumann, 251 Kearny St., San Francisco.
 Contractor—Vannucci Bros., 1875 San Bruno Ave., San Francisco.
Glass—East Bay Glass Co., 621 Sixth St., Oakland.
Roofing—Bush Roofing Co., St. Claire Bldg., San Jose.
 Other awards reported May 23.

Plans Being Figured.
REMODEL Cost, \$10,000
SANTA ROSA, Sonoma Co., Cal. Remodel Class C winery (new roof, machinery and equipment).
 Owner—Grace Bros., Santa Rosa.
 Engineer—L. H. Nishkian, 525 Market St., San Francisco.
 Machinery and equipment will bring the cost of improvement to \$40,000.
 Bids are being taken on structural steel and carpentry work. Lumber bids are in and under advisement.

Plans Being Prepared.
FACTORY Cost, \$—
LOS ANGELES, Los Angeles Co., Cal. Long Beach and Mele Avenues.
 Three-story reinforced concrete and steel factory (for paint and varnish division).
 Owner—Pittsburgh Plate Glass Co., Pittsburgh, Pa.
 Plans by Engineering Dept. of Owner. Supervising Architect—H. D. Bounte, 222 S. Cliffwood, Brentwood.
 An office building is being erected on the site by Rainey & MacIssac, 2100 E. 25th St., Los Angeles, at the present time.

Painting Contract Awarded.
REMODEL Cost, \$10,000
SAN FRANCISCO. 920 Market St.
 Remodel basement of Class C store for ice cream manufacturing plant (partition work, heating, wiring, painting, plastering, refrigeration)
 Owner—S. H. Kress Company.
 Plans by Engr. Dept. of Owner.
 Contractor — Dinwiddie Const. Co., Crocker Building.
Painting—A. A. Zelinsky, 4420 California Street.
 Other awards reported May 27.

Owner Taking Bids.
REMODEL Cost, \$—
OAKDALE, Stanislaus Co., Cal. E and Fifth Streets.
 Remodel plant for brewery and bottling plant (new equipment, etc.)
 Owner—J. Contant et al, 2255 North Point St., San Francisco.
 Plans by Owner.

Concrete Foundation and Floor Bids Wanted.
FACTORY Cost, \$2000
SAN FRANCISCO. S South Park 122 W Second Street.

One-story and mezzanine floor wood frame factory (25x100 ft.): brick veneer exterior, metal skylights, metal sash, cement floor, tar and gravel roof, etc.
 Owner — Elkington-Helwig Mfg. Co., 621 Minna St., San Francisco.

Grading—J. W. Johnson, 1623 27th Ave., San Francisco.
 As previously reported, carpentry awarded to George J. Elkington, 1291 33rd Ave., S. P.

SAN FERNANDO, Los Angeles Co. Cal.—Architect A. E. Harvey, 3875 Wilshire Blvd., Los Angeles, is preparing preliminary plans for a brewery to be built in the San Fernando Valley for a client. It will be a masonry and steel structure. There will be an ice plant in connection with the plant. Estimated cost, \$200,000.

Planned.
BREWERY Cost, \$250,000
LA GRANDE, Oregon.
 Brewery.
 Owner—Eastern Oregon Brewing Co., La Grande (Wm. McIntosh, Geo. W. Singer, P. J. Lilly).
 Architect—Not Given.

Contract Awarded.
ALTERATIONS Cost, \$5000
SAN FRANCISCO. No. 608 Folsom Street.
 Alterations to offices and warehouse.
 Owner—A. V. Clark, % Contractor.
 Plans by R. Meyer.
 Contractor — R. Meyer, 2059 Clinton Ave., Alameda.

5—FLATS

Contract Awarded.
FLATS Cost, \$6000
SAN FRANCISCO. E Funston Ave. 100 S Kirkham St.
 Two-story and basement frame and stucco flats (2 flats).
 Architect—Not Given.
 Owner—A. Stapleton, 35 Lapidge St., San Francisco.
 Contractor—J. Oliva, 542 Vienna St., San Francisco.

6—GARAGES & SERVICE STATIONS

Contract Awarded.
GARAGES Cont. Price, \$3215
SAN FRANCISCO. Presidio.
 Eleven brick garages (tile roofs, overhead doors, concrete floors).
 Owner—United States Government.
 Plans by Constructing Quartermaster, Fort Mason, San Francisco.
 Contractor — E. Bradshaw, 531 Oak St., El Cerrito.

Dorsch & Thompson, Oakland, have sub-let the brick to W. S. Dickey Clay Co., 116 New Montgomery St., San Francisco.

SUNNYVALE, Santa Clara Co., Cal.—Until June 28, 11 A. M., bids will be received by the Bureau of Yards and Docks, Navy Department, Washington, D. C., for a gasoline filling station at the Naval Air Station, Sunnyvale. Specification No. 7301. Work includes concrete and asphalt macadam pavements; concrete construction; tile and builtup roofing; piping and accessories for gasoline supplies. Plans and specifications available from above office and from Commandant, Twelfth Naval District, 100 Harrison St., San Francisco, upon deposit of \$10.

Sub-Bids Wanted.
GARAGE Cost, \$35,000
SAN FRANCISCO. N Bush St. 106-3 W Webster St.
 Three-story Class B concrete garage (75x127 ft.); concrete floors, 5-year tar and gravel roof, etc.
 Owner—Siri Brothers.
 Architect—H. C. Baumann, 251 Kearny St., San Francisco.
 Contractor — Vannucci Bros. Constr. Co., 1875 San Bruno Ave., San Francisco.

Glass—W. P. Fuller & Co., 301 Mission St., San Francisco.
 Sub-bids are being taken on electric, plumbing, ventilating, miscellaneous iron, roofing, sheet metal, painting, etc., except rough and finish carpentry and concrete work which will be done by the general contractor.

7—FEDERAL BUILDING

Warren Co., 363 E. Ohio St., Chicago, Ill., at \$646 awarded contract by Treasury Department, for furnishing and installing interior lighting fixtures in the U. S. Federal Building at Cheyenne, Wyoming.

WASHINGTON, D. C.—H. A. Framburg & Co., 3320 Carroll Ave., Chicago, Ill., at \$1670 awarded contract by Treasury Department, for furnishing and installing interior lighting fixtures in the U. S. Post Office at Reno, Nevada.

SAN FRANCISCO—Until June 15, 10 A. M., bids will be received by Constructing Quartermaster, Fort Mason, for furnishing and installing linoleum in kitchens and pantries of six Company Officers' quarters and two Field Officers' Quarters at Fort Mason. Information available from above office.

WASHINGTON, D. C.—William Wills, 1529 8th St., W. Seattle, Wash., at \$1280 (for bronze) and \$1100 (for cast iron) submitted low bid to Treasury Department for a new entrance on First Avenue, to the U. S. Federal Building, Seattle, Wash. Second low bid was submitted by the Western Construction Co., Seattle, at \$1335 for bronze and \$1150 for cast iron. Complete list of bids will be published shortly.

WASHINGTON, D. C.—Until June 26, bids will be received by the Constructing Quartermaster at Rockwell Field for an electrical distribution system and transformer vaults at Hockwell Field, Riverside, Calif.

WASHINGTON, D. C.—Walter C. Warren Co., 363 E. Ohio St., Chicago, at \$546 awarded contract by Treasury Department, for furnishing and installing lighting fixtures in the U. S. Post Office in Cedar City, Utah.

WASHINGTON, D. C.—Architectural Modeling Co., Washington, D.

C., at \$287 awarded contract by Treasury Department for plaster molders for the U. S. Post Office at Yuma, Arizona.

WASHINGTON, D. C.—The following have procured plans for the purpose of submitting bids to the Treasury Department on June 15 for furnishing and installing window ventilators in the U. S. post office at Caspar, Wyoming:

- Kane Blind & Screen Co., Kane, Pennsylvania.
- Corry Metal Corp., Corry, Pa.
- Federal Office Supply Co., Kane, Pa.
- The Mills Co., 921 Wayside Road and Nickel Plate R. R., Cleveland.
- Jamestown Metal Equipment Co., Jamestown, N. Y.
- Watson Mfg. Co., Jamestown, N. Y.

MARCH FIELD, Riverside Co., Cal.—Additional contractors who have procured plans for the purpose of submitting bids to the Constructing Quartermaster at March Field on June 14, for erecting an officers' mess building at March Field, are as follows: J. F. Kobler, 932 S. Rimpau Blvd., Los Angeles; A. F. Mowat, 518 McDowell Bldg., Seattle; J. J. Munnemann, Santa Barbara; Contracting Engineers 2310½ W. Vernon Ave., Los Angeles; N. F. Barber, 621 S. Hope St., Los Angeles; Johnson Constr. Co., 2131 Barclay St., Los Angeles; I. M. Bay, 309 Seventh St., San Bernardino; Campbell Constr. Co., 2134 Hyperion Ave., Los Angeles; R. L. Byrd, 321 N. Beverly Drive, Beverly Hills.

Contract Awarded.
MODELING Cont. Price, \$974
RENO, Washoe Co., Nevada. No. 21 Mill Street.
 Modeling for U. S. Post Office.
 Owner—United States Government.
 Architect—F. D. DeLongchamps, Gazette Bldg., Reno, Nevada.
 Contractor—Fred Ferrero & Sons, 1715 Webster St., Alameda.

WASHINGTON, D. C.—E. O. Balzer, 3230 E Sprague St., Spokane, Wash., at \$243.50 awarded contract by Treasury Department for seeding and planting grounds at the Pasco, Washington, post office.

WASHINGTON, D. C.—As previously reported, Wm. Wills, 1529 8th St. W., Seattle, Wash., at \$1280 (for bronze) and \$1100 (for cast iron) submitted low bid to Treasury Department for a new entrance on First Avenue to the U. S. Federal Building Seattle. Following bids received:

(1) bronze entrance; (2) cast iron and hollow steel.	
Wm. Wills, Seattle.....	(1) \$1,280
.....	(2) 1,100
Western Const. Co., Seattle.....	(1) 1,335
.....	(2) 1,155
Peder G. Jarde, Seattle.....	(1) 1,398
.....	(2) 1,220
Edward Ekram, Seattle.....	(1) 1,485
.....	(2) 1,150
Mullin Const. Co., Seattle.....	(1) 1,560
.....	(2) 1,230
I. N. Dally, Seattle.....	(1) 1,568
.....	(2) 1,388
Hedeen Const. Co., Seattle.....	(1) 1,569
.....	(2) 1,249
Walter Bros. Co., New York.....	(1) 1,690
.....	(2) 1,390
W. Pearce, New York City.....	(1) 2,000
.....	(2) 1,520

Bids held under advisement.

SAN DIEGO, Cal.—The Treasury Department will advertise for bids for the construction of the United States Post Office in San Diego immediately following the checking of revised plans and specifications, now in progress in the office of the supervising architect. All bids received on April 3 were rejected. William

Templaton Johnson, San Diego, is the architect for the structure.

NEPHI, Utah.— Until Thursday, June 15, bids will be received by the Custodian, United States Post Office, Nephi, Utah, for seeding and planting.

SUNNYVALE, Santa Clara Co., Cal.—Until June 13, 11 A. M. bids will be received by Public Works Office, Twelfth Naval District, 100 Harrison St., San Francisco, for window shades, Venetian blinds, drape bars and curtain rods at the Naval Air Station, Sunnyvale. Specification No. 7327. Work includes provision and installation of window shades and guides, wood slatted Venetian blinds, drapery bars and curtain rods for windows, doors, transoms and openings. Specifications available from above office on deposit of \$5.

WASHINGTON, D. C.— Pacific Painting & Decorating Company, 5414 Telegraph Ave., Oakland, at \$1789 submitted low bid to Treasury Department for painting the plaster, etc., in the U. S. Post Office Building at Berkeley, Calif. H. J. McKinley, Beverly Hills, at \$1840 submitted second low bid. Complete list of bids will be published shortly.

WASHINGTON, D. C.— Phoenix-Day Co., 729 Mission St., San Francisco, awarded contract by Treasury Department for furnishing and installing lighting fixtures in the U. S. Post Office, San Francisco.

SAN FRANCISCO— James Currie, 1100 Peninsula Ave., Burlingame, at \$2934 submitted low bid to Constructing Quartermaster, Fort Mason, for changing hot water heating system in Headquarters Building No. 220, Presidio. Work involves new steam boiler rating 8500 sq. ft. and some new radiation. Following bids received:
 James Currie, Burlingame.....\$2934
 Mechanical Contracting Co..... 3443
 F. W. Snook..... 3600
 Thos. R. Smith..... 3770
 A. Ramazzotti..... 3950
 George Rehn..... 3967
 Herman Lawson..... 4470
 Bids held under advisement.

SAN DIEGO, Cal.—Until Wednesday, June 14, bids will be received by the Custodian, United States Post Office, San Diego, for repairs to heating plant and elevators in the Post Office.

WASHINGTON, D. C.— Johnson Metal Products Co., Washington, D. C., at \$394 submitted low bid to the Treasury Dept. for insect screens in the U. S. post office at Sterling, Colo. Following bids received:
 Johnson Metal Prod. Co., Washington, D. C.....\$394
 Cincinnati Fly Screen Co., Cincinnati, Ohio..... 403
 Schilling & Scott Lbr. Co., Sterling, Colo..... 435
 Bids held under advisement.

WASHINGTON, D. C.— As previously reported, Walter G. Warren & Co., Jefferson and Washington Avenues, Chicago, at \$344.45 submitted low bid to Treasury Department for interior lighting fixtures in the U. S. post office at Weiser, Idaho. Only other bid was submitted by Edward J. Guth Co., St. Louis, Mo., at \$395. Bids held under advisement.

8—CLUB BUILDINGS

Bids Wanted—To Close June 13th, 7 P. M.
LODGE BLDG. Cost, \$45,000

FRESNO, Fresno Co., Cal. Tuolumne St. and Van Ness Ave.

Two-story stucco and tile lodge building (auditorium to seat 800, 2 secondary lodge rooms, banquet hall to seat 800, clubrooms, ballroom, lighting and ventilating system, etc.; replace lodge building destroyed by fire).

Owner—Woodmen of the World (Jas. Nielsen, clerk) Fresno.
 Architect—E. J. Kump, Rowell Bldg., Fresno.

Following is a partial list of bidders:
 W. T. Harris, 577 McKinley Street, Fresno.
 T. C. Irwin, 269 N Fulton Street, Fresno.
 W. J. Ochs, American Trust Company Bldg., Fresno.
 R. Hodgson & Son, Porterville.
 J. Frank Brown, Hanford.
 Low bids on all portions of the work reported May 29.

Preparing Preliminary Plans.
MEMORIAL Cost, \$80,000
SAN LEANDRO, Alameda Co., Cal. Bancroft Ave. near Estudillo.
 Two-story concrete Veterans' Memorial.
 Owner—County of Alameda.
 Architect—Henry H. Meyers, Kohl Bldg., San Francisco.

Preparing Plans.
CLUB HOUSE Cost, \$55,000
LONG BEACH, Los Angeles Co., Cal. Third and Cerritos Streets.
 Reinforced concrete club house (metal lath and stucco).
 Owner—Ebell Club.
 Engineer—R. D. Van Alstine, 410 E. 9th St., Long Beach.
 A contractor will be selected by the building committee of the club.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$40,000
SAN FRANCISCO, Sutter and Powell Streets.
 Alterations to third and fourth floors of the Sir Francis Drake Hotel.
 Owner—Sir Francis Drake Hotel.
 Architect—W. P. Day, Financial Center Bldg., San Francisco
 Lessee—Bohemian Club.
 Contractor—Lindgren & Swinerton, Inc., 225 Bush St., San Francisco.
Hollow Tile—W. S. Dickev Clay Mfg. Co., 116 New Montgomery St.
Ventilating—Ace Sheet Metal Works, 444 Clementina St.

Plans Being Completed.
LODGE BLDG. Cost, \$—
SAN FRANCISCO, Fourteenth and Landers Streets (125x85 feet).
 Two-story and mezzanine floor and basement Class B reinforced concrete lodge building (auditorium 55x100 ft.) handball and basketball courts, showers, banquet rooms, seven lodge rooms, two card rooms and two committee rooms.
 Owner—United Irish Societies.
 Architect—John J. Foley, 770 Fifth Ave., San Francisco.
 Bids will be asked in about one week from a selected list of contractors.

Contract To Be Awarded.
LODGE BLDG. Cost, \$4000
HOLLISTER, San Benito Co., Cal. One-story wood frame lodge building (paper roof, maple and pine floors etc.) lodge room, 40x70 ft.; kitchen, banquet rooms, retiring rooms, stage.
 Owner—The Union Benefica de Hollister.
 Plans by E. C. Griffin, % Owner.
 Contractor—Hayward Lumber Co., South and East Sts., Hollister. (Mr. Frank Sparling in charge).

9—HOSPITALS

Contracts Awarded.
HOSPITAL Cont. Price, \$73,995
CAMARILLO, Ventura Co., Cal. Lewis Ranch.

Two 1-story reinforced concrete ward buildings (accommodate 900 patients) each unit to contain 10,800 sq. ft. of floor space.
 Owner—State of California.
 Architect—Geo. E. McDaugall, State Architect, Public Works Building, Sacramento.
 Consulting Architect—Harold Burket, 455 E. Main St., Ventura.
 Contractor—Louls A. Geisler, 6212 Middleton St., Huntington Park.
Electric—H. O. Bauerle, 8952 Ellis Ave., Los Angeles, at \$2400.
Heating and Ventilating—Jones Heating Co., 497 S. Broadway Pasadena, at \$7200.

Preparing Plans.
HOSPITAL Cost, \$150,000
SEDRO WOOLLEY, Washington.
 Two-story and attic T shaped hospital (136x126 ft.) concrete construction, plastered exterior, tile roof, attic of mill construction).
 Owner—State of Washington.
 Architect—James E. Blackwell, Medical Arts Bldg., Seattle.
 Bids will be asked within thirty days. Another building may be added to present group at a later date.

Sub-Contracts Awarded.
SAN FRANCISCO—Clinton Stephenson Construction Co., 550 Montgomery St., awarded the following sub-contracts in connection with the construction of the deep therapy pavilion at the University Hospital, Third and Parnassus Aves.:
Concrete Materials—Bode Gravel Co., 235 Alabama St., San Francisco.
Mill Work—National Mill & Lumber Co., 230 California St., S. F.
Glass—W. P. Fuller & Co., 301 Mission St., San Francisco.
Roofing and Damproofing—Malott & Peterson, 20th and Harrison Sts., San Francisco.
Painting—Chas. Gordon, 666 Mission St., San Francisco.
Steel Sash—Soule Steel Co., 1750 Army St., San Francisco.
Miscellaneous Iron—Star Ornamental Iron Co., 1271 Folsom St., San Francisco.
Finish Hardware—Marshall Newell Co., Spear and Mission Sts.
 As previously reported, excavation awarded to J. D. Neall, Lomita Park. Lumber to Loop Lumber Co., Central Basin; reinforcing steel to Gunn, Carle & Co., 20 Potrero Ave.

Planned.
HOSPITAL WING Cost, \$71,750
RENO, Washoe Co., Nevada.
 Wing addition to hospital (second unit).
 Owner—County of Washoe.
 Architect—F. J. DeLongchamps, Gazette Bldg., Reno, Nevada.
 Amounts budgeted for hospital building this year as follows:
 Wing addition.....\$33,000
 Elevator..... 11,400
 Complete surgery..... 9,000
 Linoleum..... 1,850
 Furniture..... 10,500
 Equipment..... 6,000

YOUNTVILLE, Napa Co., Cal.—E. C. Shindler, 1114 Main St., Napa, at \$2,201.85 awarded contract by State Purchasing Department for furnishing and installing venetian blinds, awnings and window shades for the Veterans' Home at Yountville.

SAN FRANCISCO—Until June 16, 3 P. M., bids will be received by T.

A. Brooks, Purchaser of Supplies, for X-Ray films for the San Francisco Hospital. Specifications available from Room 251, City Hall.

LOS ANGELES, Cal.—The superintendent of Rancho Los Amigos has requested the Los Angeles county supervisors to instruct Wm. Davidson, county mechanical engineer, to prepare plans for two infirmary ward buildings to be erected at Hondo. The request was referred to Supervisor Jessup.

10—HOTELS

Planned.
HOTEL Cost, \$—
TAHOE CITY, Placer Co., Calif. Two miles north.
One-story log lodge hotel (50 rooms and baths, 30 camping cottages) knotty pine trim, colored rock veranda and pillars, etc.
Owner—A. L. Nichols, Tahoe City.
Architect—Not Given.

11—ICE AND COLD STORAGE PLANTS

SEATTLE, Wash.—Cork Insulation Co., awarded contract for insulation and the refrigeration work awarded to York Ice Machine Company in connection with the factory building at 1229 Sixth Ave., South, Seattle, for George A. Hormel & Co.

Contract Awarded.
REFRIG. PLANT Cont. Price \$920
SAN RAFAEL, Marin Co., Cal. Lucas Valley.

Refrigeration plant.
Owner—County of Marin (Rob. E. Graham, clerk, Board of Supervisors).

Plans by M. J. Lamperti and L. W. Hunton, San Rafael.
Contractor—George Kaenel, San Rafael (Frigidaire).

Following is complete list of bids:
Geo. Kaenel, San Rafael.....\$920
M. J. Lamperti San Rafael..... 980
Baker Ice Machine Co., Oakland.. 992
Allied Industries, S. F..... 997
Cyclops Iron Works, S. F..... 998
Western Engr. Co., S. F.....1053

PHOENIX, Ariz.—Phoenix Carbonic Ice Corp., 131 W Jefferson St., Phoenix, contemplates erecting a dry ice and carbonic gas manufacturing plant at 19th Ave. and Magnolia St., Phoenix. It will have a daily capacity of 15 tons of ice. James H. Palmer is president of the corporation.

12—POWER PLANTS

LOS ANGELES, Calif.—Until 2 P. M. June 13, bids will be received by the Metropolitan Water District, 306 W 3rd St., Los Angeles for constructing an electric power transmission line in accordance with Spec. No. 38. The work consists of the construction of approximately 17 miles of 33,000-volt transmission line located between Cabazon Substation, about five miles west of Banning, and a point in Blg Morongo Canyon about six miles north of Garnet siding on the Southern Pacific Railway, in Riverside county. Specifications may be obtained from the engineer at Room 1004, 306 W Third St., Los Angeles, upon payment of \$2.00. Certified or cashier's check, 10%. Julian Hinds, acting chief engineer.

LOS ANGELES, Cal.—H. O. Bauerle 8522 Ellis Ave., Los Angeles, awarded a contract by the Metropolitan Water District of Southern California, 306 W. Third St., Los Angeles, May 26, at \$9394, for constructing telephone lines in the Valverde Section. The

work consists of construction of 11.5 miles of 6-conductor telephone trunk line, 16.8 miles of 4-conductor telephone line on existing poles and cross-arms, 1.5 miles of telephone bracket line and three telephone terminal assemblies. Julian Hinds, acting chief engineer.

Contract Awarded.
SUBSTATION Cost, \$—
LOS ANGELES, Cal. Valley Junction.

One-story and gallery reinforced concrete substation (52x103) concrete wood and mastic floors, steel sash metal louvers, plastered partitions hollow tile, steel grilles, reinforcing and structural steel, etc.
Owner—Pacific Electric Railway Co., Los Angeles.

Plans by Engr. Dept. of Owner.
Contractor—R. E. Campbell Const. Co., 108 W 6th St., Los Angeles.

13—PUBLIC BUILDINGS FIRE HOUSES & JAILS

Preparing Preliminary Plans.
ANNEX Cost, \$70,000
SACRAMENTO, Sacramento Co., Cal. SE Tenth and I Streets.

Two-story reinforced concrete annex to City Hall.

Owner—City of Sacramento.
Architect—Harry Devine, California State Life Bldg., Sacramento.

Plans Being Completed.
FIRE HOUSE Cost, \$14,000
SACRAMENTO, Sacramento Co., Cal. L Street near Alhambra Blvd.

One-story brick firehouse (57x92 ft.): tile and composition roof, concrete floors, etc.

Owner—City of Sacramento.
Architect—Charles Dean, California State Life Bldg., Sacramento.

Plans will be completed in about ten days.

SAN FRANCISCO.—O. Monson, 475 6th St., at \$2,346 submitted only bid to Department of Public Works for alterations to the fourth floor windows on the Polk Street side of the Civic Auditorium. Bid held under advisement.

FRESNO, Fresno Co., Cal.—O. R. Osterode, Lind St., Fresno, at \$3,688 awarded contract by county supervisors for painting courthouse, engine room and jail in Fresno.

Planned.
JAIL Cost, \$1800
SAN LEANDRO, Alameda Co., Cal. Three-cell jail.

Owner—City of San Leandro.
Architect—Not Selected.

Funds for the proposed work are not available at this time.

SAN QUENTIN, Marin Co., Cal.—Following bids received by State Purchasing Department, Sacramento, for steel sash doors and sash operating devices for sell blocks at the San Quentin penitentiary:
Michel & Pfeffer Iron Works,
Harrison and 10th Sts., San Francisco\$3480

Soule Steel Co., S. F..... 3954
Detroit Steel Products, S. F..... 4698
Wm. Bayley 4884
Truscon Steel Co., S. F..... 5990

Bids held under advisement.

Planned.
CITY HALL Cost, \$30,000
SAN LEANDRO, Alameda Co., Cal. Site Not Selected.

New City Hall.
Owner—City of San Leandro (A. E. Felton, City Manager).

Architect—Not Selected.
Negotiations for a site are under way.

Completing Plans.
LIBRARY Cost, \$75,000
EVERETT, Washington. SW Hoyt and Everett Avenues.
Two-story library (concrete or mill faced with brick).
Owner—City of Seattle (Mrs. D. E. McIlravy, President of Library Trustees).
Architect—Bebb & Gould, Hoge Bldg., Seattle, Wash.
Bids will be asked about July 15.

GRASS VALLEY, Nevada Co., Cal.—Diamond Match Co., Grass Valley, at \$208 awarded contract by Library Trustees for re-roofing library building at Grass Valley.

14—RESIDENCES

Plans Being Figured.
RESIDENCE Cost, \$10,000
SAN FRANCISCO. Hill and Sanchez Streets.

Two-story and basement frame and stucco residence (7 rooms and 2 baths); tile and composition roof, tile work, concrete work, plastering, millwork, glazing, etc.
Owner—H. L. Gerber, 3701 22nd St., San Francisco.

Plans by Owner.
Lindgren & Swinerton, Inc., 225 Bush St., are figuring the plans and desire sub-bids on all portions of the work.

Plans Being Figured.
ADDITIONS Cost, \$20,000
PALO ALTO, Santa Clara Co., Cal. Stanford Campus.

Alterations and additions to three-story frame and stucco fraternity house (add new third story, alterations and additions to first and second floors, etc.)

Owner—Phi Delta Theta, 538 Lasuen St., Stanford University.
Architect—W. E. Huson, 1913 Green St., San Francisco.

Lindgren & Swinerton, Inc., 225 Bush St., San Francisco, are figuring the plans and desire sub-bids on all portions of the work. Sub-bids to be in their hands not later than June 8.

Contract Awarded.
ADDITION Cost, \$2000
SAN FRANCISCO. 611 Jones Street. Frame addition to residence.

Owner—W. N. Nelson, 744 Castro St.
Architect—Masten & Hurd, 233 Post Street.

Contractor—Strehlow & La Vole, 1070 Dolores Street.

Contract Awarded.
RESIDENCE Cost, \$5000
SAN FRANCISCO. W Funston Ave. 320 S Aerial Way.

Two-story and basement frame and stucco residence.

Owner—A. R. Lyon, Phelan Bldg.
Architect—John B. Anthony, 1191 Oxford St., Berkeley.

Contractor—H. E. Rount, 178 De Soto Street.

Preparing Plans.
RESIDENCE Cost, \$—
NICASIO, Marin Co., Cal. Two-story residence.

Owner—Withheld.
Architect—Oscar R. Thayer, Monadnock Bldg., San Francisco.

Will contain large living rooms with stone fireplace, breakfast room, kitchen, maid's room and bath, stairs leading from living room to balcony, two bedrooms, 2 baths, sleeping porch swimming pool, barbecue pit, two-car garage, water supply and pump to 500-gallon tank, septic sewage system, roads, bridal paths, rustic bridges and gates, etc. Bids will be asked about June 20.

ENGINEERING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

- | | |
|-------------------------------------|-------------------------------------|
| 21.—Bridges | 30.—Reservoirs and Dams |
| 22.—Dredging, Harbor Works, Excave. | 31.—Pile Lines and Walls |
| 23.—Irrigation Proj. | 32.—Sewers & Sewage Disposal Plants |
| 24.—St. Light. Systems | 33.—Water Works |
| 25.—Machinery and Equipment | 34.—Parks & Playgrounds |
| 26.—Railroads | 35.—Tunnels |
| 27.—Fire Alarm Sys. | |
| 28.—Fire Equipment | |
| 29.—Streets & Highways | |

21—BRIDGES

LOS ANGELES, Cal.—Until 2 P. M., June 19, bids will be received by county supervisors to construct concrete and steel bridge on Anaheim-Puente Road over San Jose Creek. W. D. Armstrong, County Bridge Engineer.

Bids will be taken as follows:

- (1) using concrete piles;
- (2) using steel H piling encased in concrete.

The proposed bridge will consist of one 40-ft. span and two spans of 32 ft. 10 in. each. The roadway will be 30 ft. in width. The engineer's estimate of quantities follow:

SUMMARY FOR CONCRETE PILES

- 295.6 cu. yds. class A concrete (including piles);
- 58,250 lbs. reinforcing steel;
- 211 lin. ft. concrete railing;
- 8,874 sq. ft. form area;
- 1,200 lin. ft. concrete piles to drive;
- 96,543 lbs. structural steel furnished by county;
- 50 cu. yds. excavation;
- 12,340 lbs. structural steel bracing;
- 6,624 sq. ft. paint area;
- 2,899 lbs. castings;
- 735 lbs. bearing plates;
- 48 pieces tile;
- removing old bridge.

SUMMARY FOR STEEL PILES

- 234.58 cu. yds. class A concrete;
- 22,518 lbs. reinforcing steel;
- 211 lin. ft. concrete railing;
- 9,090 sq. ft. form area;
- 1,200 lin. ft. steel piles to drive;
- 79,200 lbs. steel piles;
- 96,543 lbs. structural steel furnished by county;
- 12,340 lbs. structural steel bracing;
- 6,624 sq. ft. paint area;
- 2,899 lbs. castings;
- 735 lbs. bearing plates;
- 48 pieces tile;
- removing old bridge.

Mame E. Beatty, 501 Hall of Records, Clerk of the Board.

MARICOPA-VENTURA CO., Cal.—Chas. W. Petit, Chief Engineer of Joint Highway District No. 6 has completed plans for a timber bridge to be constructed on the route of the Maricopa-Ventura Highway across the Cuyama River, located in the northwest corner of Ventura County, between Maricopa in Kern County and Santa Maria in Santa Barbara County. This bridge will cost about \$15,000, but funds will not be available until after July 1. The bridge will be a pile trestle structure, 300 ft. in length, involving:

- 125,000 bd. ft. structural grade redwood;
- 2,240 lin. ft. creosoted (8-lb. treatment) timber piling (32 foot lengths).

Bids will be called within the next 60 days.

STANISLAUS and San Joaquin Cos. Cal.—Carl N. Swenson, 355 Stockton Ave., San Jose, at \$79,932.23 awarded contract by State Highway Commission to reconstruct a bridge across Stanislaus River 7.6 miles south of Manteca, consisting of redecking the two 103-ft. earth filled arch spans and replacing the timber trestle approach span with concrete decks on concrete pile bents, and grading and paving approaches with Portland cement concrete and bituminous treated crushed gravel or stone surfacing.

ORANGE COUNTY, Calif.—Until June 21, 2 P. M., bids will be received by S. V. Cortelyou, District Engineer, State Highway Commission, 808 California State Office Bldg., Los Angeles, to construct approach spans and repair existing bridge at Anaheim Bay Bridge, near Seal Beach involving:

- (1) 1,950 cu. yds. excavation;
- (2) 1,760 lin. ft. furnish crec. Douglas fir piles;
- (3) 44 drive do;
- (4) 65 cu. yds. Class A Portland cement concrete;
- (5) 6 cu. yds. Class E do;
- (6) 8,000 lbs. bar reinf. steel;
- (7) 39,000 lbs. struc. steel;
- (8) 7 MFBM crec. Douglas fir timber, selected struc. grade;
- (9) 150 hours rental of compressor;
- (10) 150 hours rent chipping hammer
- (11) 150 hours rent Gunite outfit;
- (12) 50 hours rent sandblast outfit;
- (13) 20 hours rent tank truck;
- (14) 350 sacks Port. cem. for gunite;
- (15) 90 tons sand for gunite;
- (16) 10 tons sand for sandblasting;
- (17) 1 lot staging complete;
- (18) move equip. to and from job;
- (19) repairs to removable span.

Specifications obtainable from the above office. Certified check 10% required with bid.

SAN BERNARDINO, Cal.—Halsey Machinery & Supply Co., San Bernardino, awarded contract by county supervisors June 5 at \$1825 to move steel span bridge from the old Mojave Highway, 2 miles from Oro Grande and reconstruct same across the Santa Ana River between Greenspot and East Highlands, 11 miles east of San Bernardino. The bridge will have a 250-ft. span and a 20-ft. roadway. The present contract involves the transporting of approximately 70 tons of steel 50 miles and re-erecting same in place.

LOS ANGELES, Cal.—The American Bridge Co., Chicago, awarded contract by the Santa Fe Railway

for fabricating the steel superstructure for the grade separation structure at Orange Ave. and the Santa Fe Railway tracks. The company will start work erecting the steel spans about July 1 when the county will have completed the abutments under a contract awarded March 27 to the Atlas Const. Co. The railway company's work involves about 105 tons of steel.

MONTEREY COUNTY, Cal.—State Railroad Commission authorizes construction of underpass on the Coast highway at the Southern Pacific tracks near Soledad. Cost will be borne by the S. P. Company and the State jointly, or by the State alone.

22—DREDGING, HARBOR WORKS, EXCAVATION

SANTA MONICA, Los Angeles Co., Cal.—Abandonment of the caisson type of construction on new harbor breakwater and the substitution of a rock mounted structure ordered by city council May 26. The council adopted a resolution authorizing the Puget Sound Bridge & Dredging Co. and W. F. Way, Inc., Santa Monica, to change the present contract to cover the proposed round mound type of structure at a cost of \$561,035.40. A credit of \$87,660.40 will be allowed for work already done. The change order calls for 220,000 tons of stone with additional stone, if required, at \$2.03 per ton.

The work is to be completed in 330 days.

The contractors have agreed to complete the pier extension for \$11,122; the marina for \$21,378; and the superstructure for the breakwater at \$22,125.

The proposed breakwater will be 2000 ft. in length, 10 ft. wide at the top, with an elevation of 10 ft. above mean low tide.

A taxpayer's suit to enjoin the city from making this change will come up for hearing in the superior court May 31. The legality of the new contract will thus be determined by the court.

SAN DIEGO, Cal.—The call for bids for dredging Alexander's Shoal, previously set for June 5, rescinded by city council pending result of the June 27 election, at which time disposition of the harbor's annual appropriation of \$150,000 will be decided.

STOCKTON, San Joaquin Co., Cal.—City Planning Engineer J. H. Tarrant to prepare plans for McLeods Lake yacht harbor, involving fill at the west end of the city hall, construction of boulevard at the west end of Miner Ave., and also dredging a portion of Banner Island. Plan will necessitate securing approval of the War Department to change the shore line of the lake.

LONG BEACH, Los Angeles Co., Cal.—Construction of a concrete seawall along the south side of Ocean Blvd., to replace the present wooden structure between Termino Ave. and 44th Place, about 2000 lin. ft. will be considered at the city council meeting. The cost is estimated at \$100,000. The council hopes to finance the work from the federal public works fund.

CAPITAL CITY TITLE COMPANY

J. C. PALEN,
Manager

914 Seventh Street
Sacramento :: California

NYSSA, Oregon—Until June 26, 10 A. M., under Specifications No. 595-D, bids will be received by U. S. Bureau of Reclamation, Denver, Colo., to construct earthwork and structures, North Canal, Station 260 (Owyhee River Siphon) to Station 513, Mitchell Butte Division, Owyhee Project, Oregon-Idaho; work located near Nyssa and Adrian, Ore., on the Oregon Short Line Railroad, and involves: 505,000 cu. yds. open-cut excav., all classes;

15,000 sta. cu. yds. overhaul;
2,600 cu. yds. backfill;
260 cu. yds. concrete (structures);
23,000 lbs. reinf. bars, place;
2,500 lbs. gates and gate hoists, place.

Materials part furnished by contractor and part by Government. Specifications obtainable from above on payment of \$.75 to non-bidders; no charge to bidders. Proposal guarantee, 10%.

PORTLAND, Ore.—Commercial Iron Works, 412 SE Stephens St., Portland, at \$11,869.75 submitted low bid to U. S. Engineer Office, Portland, to drydock, clean and paint and repair U. S. dredge "Clatsop." Complete bids follow:

Commercial Iron Works, Portland	\$11,869.75
Helsler Machine and Marine Works	13,241.60
Albina Engine and Machine Works	13,385.20
Government estimate	8,550.00

Bids held under advisement.

STOCKTON, San Joaquin Co., Cal. U. S. Engineer Office, California Fruit Bldg., Sacramento, will call bids in the near future for widening the turn at Turner Cut and removing a series of minor shoals at the mouth of New York slough at Pittsburgh, in connection with the Stockton deep water channel.

PITTSBURGH, Contra Costa Co., Cal.—R. P. Easley, Antioch, awarded contract by Shell Chemical Co. to dredge 5000 ft. channel from San Joaquin river to plant. Channel will be 40 ft. wide.

23—IRRIGATION PROJ.

MONTE VISTA, Colo.—The San Luis Valley drainage district will request Congress for an \$800,000 appropriation for the construction of a drain through the closed basin of the eastern side of the valley.

ORDWAY, Colo.—The Twin Lakes Reservoir and Canal Co., J. H. Cowden, President, will take bids for the construction of two tunnels for irrigation purposes between Roaring Fork River on the western slope and Twin Lakes Reservoir on the eastern slope. The proposed work includes the raising of the dam 11 ft. to increase the capacity. One tunnel will be 3.82 miles in length, 8x2½ ft., horseshoe shape, the other 1.75 miles in length 7x2½ ft., both concrete lined. A loan of \$1,125,000 has been granted by the Reconstruction Finance Corp. R. J. Tipton, 2083 Clermont St., Denver, Colo., consulting engineer.

24—ST. LIGHT. SYSTEMS

LOS ANGELES COUNTY, Cal.—C. O. Sparks, 2309 E. 9th St., Los Angeles, at \$43,218.25 awarded contract by State Highway Commission to grade and pave with Portland cement concrete 1.3 ml. between Fullerton and Pomona at Brea Canyon Summit.

25—MACHINERY AND EQUIPMENT

OAKLAND, Cal.—J. E. French and Co., 2345 Broadway, Oakland, at \$1-345.50 net, awarded contract by East Bay Municipal Utility Dist., Oakland, to furnish one 5-passenger 8-cylinder 1933 model Dodge sedan, allowance being made for trade-in on used Buick.

SAN FRANCISCO.—San Jose Tractor & Equipment Co., at \$375 awarded contract by Purchasing Officer, 12th Naval District to furnish a scarifier under Bid No. 4201.

SAN FRANCISCO.—The following awards made for the rental of trucks, bids opened by Regional Forester, U. S. Forest Service, May 19:

Poulos & McEwen, 2522 17th Sts., Sacramento.

Two 1½-ton stakeside, \$4 per day, Pro. D. M. M. Kirk, Whitehorse, one 1½-ton, \$3, B. L. Green, 2017 Vicksburg Ave., Oakland.

Two 1½-ton, dump, \$4.19, B and \$4.18, D. J. M. McMorris, Route No. 1, Redding, one 1½-ton dump, \$5.25, B.

Albert H. Watt, 1037 Normal Ave., Chico, 20 1½-ton dump, \$5, D.

C. E. Huls Trucking Co., Merced, two 1½-ton dump, \$4.50, B.

F. A. Nystrom, McCloud, ½-ton pickup, \$2.50, D.

Fred A. Ruffley, Auburn, ten 1½-ton dump, \$5, D.

Proposal B—Forest Service furnishes driver, owner furnishes upkeep, tires and assumes responsibility for accidents.

Proposal D—Forest Service furnishes driver and repairs.

OAKLAND, Cal.—Chevrolet Motor Co. at \$813.65 awarded contract by city council to furnish three motor trucks with steel dump bodies.

OAKLAND, Calif.—Chevrolet Motor Co. at \$593.37 each for seven sedans and \$492.75 for coupe awarded contract by city council to furnish eight automobiles.

SAN FRANCISCO.—Until June 14, 10 A. M., under Bid No. 999, bids will be received by T. A. Brooks, City Purchasing Agent, for the rental of automotive trucks, horse-drawn vehicles, drivers, horse teams with harness, and drivers only. Specifications obtainable from above.

OAKLAND, Cal.—Jenison Machinery Co., 900 Tennessee St., San Francisco, at \$4450 for Type A crane, \$4-570 for Type B crane and \$345 for clam shell bucket, awarded contract by city council to furnish gasoline operated cranes.

LOS ANGELES, Cal.—Pacific Iron & Steel Co., awarded contract by Saul A. Joseph, Purchasing Agent of the Metropolitan Water District, June 6, at \$3150 f. o. b. Los Angeles; \$3220 f. o. b. Indio, for furnishing cranes under Bid No. 10,732.

28—FIRE EQUIPMENT

OAKLAND, Cal.—American Rubber Mfg. Co., Park Ave. and Watts, Oakland, at \$.625 per ft. awarded contract by city council to furnish 10,000 ft. 2¼-in., 50-ft. lengths, fire hose.

30—RESERVOIRS & DAMS

VERDE, Ariz.—The application of the Verde River Power & Irrigation District for a loan of \$7,600,000 for

construction of a dam on the Verde River and canals and other appurtenant works, has been denied by the Reconstruction Finance Corporation on the grounds that the district could not comply with the requirements.

30

LOS ANGELES, Cal.—Until 2 P. M., June 26, bids will be received by the county supervisors to construct Eaton Wash Debris Dam and appurtenant structures. The plans, which have been approved by the state engineer, call for a rolled earth fill dam 1545 ft. in length, 37 ft. in height, 40.5 ft. from foundations to spillway crest. The upstream side will be faced with concrete.

The cost is estimated at \$441,376.

Bids will be taken on three proposals, viz.:

- (1) all work complete;
- (2) earth work;
- (3) concrete and miscell. work.

The quantities follow:

PROPOSAL NO. 1

All Work Complete

- (1) 10.5 acres clear and grub damsite
- (2) 40,000 cu. yds. strip damsite;
- (3) 9.0 acres prepare foundation for dam;
- (4) 164,000 cu. yds. excav. (struc.);
- (5) 3100 cu. yds. excavation (cut-off trenches);
- (6) 167,000 cu. yds. excav. for borrow pit No. 1;
- (7) 196,000 cu. yds. excav. borrow pit No. 2;
- (8) 147,000 cu. yds. embank., impressions (Class A);
- (9) 265,000 cu. yds. do, (Class B);
- (10) 1450 cu. yds. backfill, tamped (Class A);
- (11) 8850 cu. yds. backfill, untamped (Class B);
- (12) 930 cu. yds. concrete cut-off walls (Class A);
- (13) 3540 cu. yds. concrete floor slabs (Class B);
- (14) 250,000 sq. ft. gunite facing slab; Alt. to 14 (14-A) 3980 cu. yds. concrete facing slab;
- (15) 2640 cu. yds. concrete retaining wall (Class D);
- (16) 2125 cu. yds. concrete outlet conduit (Class E);
- (17) 1450 cu. yds. conc. spillway ogee (Class E);
- (18) 1,250,000 lbs. place reinf. steel;
- (19) 200,000 lbs. place gates, hoists, stems, etc.;
- (20) 44,000 lbs. place trash racks;
- (21) 8,000 lbs. place miscel. metal;
- (22) 1,000 lbs. place metal handrail;
- (23) 200 lin. ft. place tile drains;
- (24) 100 lin. ft. drilling dowel holes.

PROPOSAL NO. 2

Earthwork Only.

- (1) 10.5 acres clear and grub damsite
- (2) 40,000 cu. yds. strip damsite;
- (3) 9.0 acres prepare foundation for dam;
- (4) 156,000 cu. yds. excav. for struc. (Class A);
- (5) 3100 cu. yds. excavation (cut-off trenches) Class B;
- (6) 167,000 cu. yds. excav. for borrow pit No. 1 (Class C);
- (7) 196,000 cu. yds. excav. borrow pit No. 2 (Class D);
- (8) 147,000 cu. yds. embank., impressions, (Class A);
- (9) 265,000 cu. yds. do (Class B);
- (10) 1450 cu. yds. backfill, tamped (Class A);
- (11) 8850 cu. yds. backfill, untamped (Class B);

PROPOSAL NO. 3

Concrete and Miscellaneous Work

- (4) 8000 cu. yds. excava. for struc. (Class A);
- (4-A) 5000 cu. yds. excav. final trim upstream (Class E);
- (12) 930 cu. yds. concrete cut-off walls (Class A);
- (13) 3540 cu. yds. concrete floor slabs (Class B);
- (14) 250,000 sq. ft. gunite facing slab;

Alt. to 14 (14-A) 3980 cu. yds. concrete facing slab;
 (15) 2640 cu. yds. concrete retaining wall (Class D);
 (16) 2125 cu. yds. concrete outlet conduit (Class E);
 (17) 1450 cu. yds. conc. spillway ogee (Class F);
 (18) 1,250,000 lbs. place reinf. steel;
 (19) 200,000 lbs. place gates, hoists, stems, etc.;
 (20) 44,000 lbs. place trash racks;
 (21) 8,000 lbs. place miscel. metal;
 (22) 1,000 lbs. place metal handrail;
 (23) 200 lin. ft. place tile drains;
 (24) 100 lin. ft. drilling dowel holes.
 E. C. Eaton, County Flood Control Engineer, 202 N Broadway, Mame B. Beatty, clerk of the board, 501 Hall of Records.

PASADENA, Cal.—Until 11 A. M., June 20, bids will be received by the city directors to furnish pier plates and appurtenances ofr spillway gates for the Pine Canyon Dam. Bids will be taken on items as follows:
 (1) 84 tons semi-steel pier plate castings;
 (2) 1.5 tons anchors and bolts.
 Spec. No. S-G-10. Samuel B. Morris, chief engineer and water superintendent. Bessie Chamberlain, city clerk.

TALLAC, Placer Co., Cal.—Lord & Bishop, Native Sons Bldg., Sacramento, at \$16,750 (proposition No. 5) awarded contract by H. L. Haehl, 1317 Humboldt Bank Bldg., to furnish 1000 cu. yds. sand and gravel and construct concrete dam for Mrs. Anita M. Baldwin, to be constructed at the outlet of Fallen Leaf Lake near Tallac, Lake Tahoe, Calif. Aggregate to be furnished this year; dam to be constructed next year.

ALTADENA, Los Angeles Co., Cal.—C. W. Johnson, 448 E. Valley View St., Altadena, submitted low bid to the Las Flores Water Co., 560 Poppy St., Altadena, June 5, at \$4402 to construct a circular reinforced concrete reservoir, 80 ft. in diameter and 13½ ft. deep, at 560 Poppy St., Altadena.

NEWPORT BAY, Orange Co., Cal. Geo. L. Bates, consulting engineer, Abstract and Tile Bldg., Santa Ana, completed plans for an earth type dam to be built across an unnamed gulch, tributary to Newport Bay, for Geo. H. Veeh of Santa Ana. The proposed dam will be 300 ft. long, 23 ft. high from foundation to spillway crest, with a capacity of 46 acre feet. The spillway will be concrete lined. The work will involve about 7826 cu. yds. material.

LOS ANGELES, Cal.—Until 2 P. M., June 19, bids will be received by the County Supervisors to furnish trash racks, ladders, steel doors and miscellaneous metal for San Gabriel Dam No. 2. Bids will be received as follows:

- (1) furnishing (98,500 lbs.) 26 sets of steel trash racks, including all bearing and clp angles;
- (2) furnishing (1100 lbs.) 3 steel ladders, 1 pipe clamp, 3 ladder steps, 22 ladder anchors, and all necessary bolts, all materials to be galvanized after fabrication;
- (3) furnishing (9000 lbs.) of valve chamber doors complete with hinges, clamps and all bolts and washers, 6 operating chamber doors, and 4 hearing chamber doors.

E. C. Eaton, County Flood Control Engineer, 202 N. Broadway. Mame B. Beatty, 501 Hall of Records, Clerk of the Board.

31—PIPE LINES & WELLS

SAN FRANCISCO.—Until June 16, 3 P. M., bids will be received by the Public Utilities Commission, Felton Taylor, secretary, to lay 16- and 12-in. cast iron feeder mains for Lakeview Hill, Daly City and Crocker-Amazon tract, new specifications involving:

- (1a) 3910 lin. ft. excav. and backfill for 16-in. cast iron pipe;
- (1b) 7800 lin. ft. do for 12-in. do;
- (2) 100 cu. yds. add. excavation and backfill;
- (3) 680 sq. ft. add. pavement removal and replacement;
- (4) 560 tons install pipe and fittings;
- (5a) 1482 lin. ft. make mineralead joints;
- (5b) 495 bolted joints for 12-in. pipe;
- (5c) 715 bolted joints for 16-in. pipe;
- (6) 1 cu. yd. plain concrete;
- (7) 27,915 sq. ft. repavement.

Specifications obtainable from San Francisco Water Department, Room 609, 425 Mason St., on deposit of \$10. Estimated cost, \$20,000. Spec. No. W. D.-38-A.

32—SEWERS & SEWAGE DISPOSAL PLANTS

SAN BRUNO, San Mateo Co., Cal.—Until June 28, 8 P. M., bids will be received by Mrs. Helen W. Bohm, city clerk, to furnish four sewage pumps for the San Bruno-Lomita Pk. Outfall Sewer, two of 120-gpm. capacity and two 400-gpm. capacity. Specifications obtainable from office of the city engineer, R. Classen, Redwood City. Certified check 10% required with bid.

LOS ANGELES, Cal.—Until 2 P. M., June 19, bids will be received by County Supervisors to construct reinforced concrete conduit in Ballona Creek (Venice Blvd., South Roadway), between Rimpau Blvd. and La Brea Ave. The work involves:

- (1) 6700 cu. yds. excavating;
- (2) 6700 cu. yds. backfill;
- (3) 3200 cu. yds. reinforced concrete class A;
- (4) 2400 cu. yds. reinforced concrete, class B;
- (5) 100 lin. ft. drilling dowel holes;
- (6) 1300 lbs. placing corrugated iron pipe;
- (7) 50 lin. ft. placing tile drains.

The county will furnish materials as follows:

Cement and admixture, reinforcing steel and miscellaneous metal ware, except the wire for reinforcing steel, burlap for curing filler, expansion joints, corr. metal pipe and drainage tile. E. C. Eaton, County Flood Control Engineer, 202 N. Broadway. Mame B. Beatty, Clerk of the Board, 501 Hall of Records.

SIERRA MADRE, Los Angeles Co. Cal.—Bids to furnish 826 ft. 30-in. centrifugally spun reinforced concrete pipe to be delivered trenchside in Sycamore Place, Sierra Madre, rejected by city council May 29. The pipe will be purchased in the open market.

GLENDALE, Los Angeles Co., Cal.—American Concrete & Steel Pipe Co. 4635 Firestone Blvd., South Gate, was awarded the contract by city council June 1 at \$31,890 to furnish reinforced concrete pipe for the South St. storm drain.

EL RENO, Okla.—Asplund Const. Co., Enid, Okla., at \$18,925 submitted low bid to Department of Justice under Schedule 883 to construct sewage disposal system at El Reno Reformatory.

LOS ANGELES, Cal.—Case Const. Co., 1927 Thayer Ave., Westwood, submitted low bid to county supervisors June 5 at \$16,485.75 to construct gunite and concrete lined conduit on Verdugo Wash from Canada Blvd., 2625 ft. upstream.

LOS ANGELES, Cal.—Fish Harbor Disposal Plant Machinery-Dorr Co., Inc., 108 W. 6th St., submitted low bid to Board of Public Works, May 31, at \$4445 to furnish machinery and equipment for the proposed Fish Harbor industrial waste disposal plant at Los Angeles Harbor, under Cash Contract, including equipment for sedimentation of unscreened partially salt and partially fresh waste water from several fish canneries, to be of central feed type and so designed to successfully operate in a circular wooden tank of a size to be determined by a period of nine hours in each 24. During this period there will be contributed to the sedimentation unit approximately 3,500,000 gallons of industrial sewage at an approximate uniform rate of 388,888 gallons per hour. The available electric service at the point of installation is 440 volts, 50 cycle, 2 phase. F. L. Weisenheimer, Assistant Chief Engineer of

The other bids were:
 American Concrete & Steel Pipe Co.,

SAN FRANCISCO — Fay Improvement Co., Phelan Bldg., at \$1927.75 awarded contract by Dept. of Public Wrks to improve Lawton St., 37th to 39th Avenues.

33—WATER WORKS

LOS ANGELES COUNTY, Cal.—Lee Wilson and Carl Ehrhart, 2700 Exposition Place, Los Angeles, at \$4364 awarded contract by State Highway Commission to construct 2-in. water line and supply system about 2.4 mi. in length, between Read Spring and Los Alamos maintenance station.

OAKLAND, Cal.—American Brass & Copper Supply Co., 383 7th St., Oakland, at \$4625 awarded contract by East Bay Municipal Utility District, Oakland, to furnish 50,000 lin. ft. ¾-in. seamless copper tubing, less 1% discount for cash 10 days.

OAKLAND, Cal.—U. S. Pipe and Foundry Co., Monadnock Bldg., San Francisco, at \$60,267.50 (lump sum bid) awarded contract by East Bay Municipal Utility District, Oakland, to furnish:

- (1) 73,000 lin. ft. 4-in. cast iron pipe;
- (2) 30,000 lin. ft. 6-in. do;
- (3) 24,000 lin. ft. 8-in. do.

Complete bids published May 29.

LOS ANGELES, Calif.—American Cast Iron Pipe Co. awarded contract by A. J. Holm, city purchasing agent, May 31 at \$30,450 to furnish Water and Power Department with bell and spigot centrifugal cast iron water pipe under Spec. No. 2083. The bids were opened May 22.

SAN FRANCISCO.—Following bids received by City Purchasing Agent under Bid No. 1010 to furnish lawn boxes and hydrants for Park and Recreation Departments for one year July 1, 1933 to June 30, 1934, as follows:

- (1) 1300 brass lawn boxes;
- (2) 300 brass hydrants.

Bidders follow:
 (A) Pacific Brass Foundry.
 (B) Pacific Elec. Mfg. Co.
 (C) M. Greenberg & Sons.
 Unit bids follow:
 (1)..... \$2.22 \$2.09 \$1.835
 (2)..... .98 1.23 1.035
 Bids held under advisement.

BRENTWOOD, Contra Costa Co., Cal.—Enterprise Engine Co., 2949 18th St., San Francisco, at \$43,950 was awarded contract by East Contra Costa Irrigation District, Brentwood, to replace present electric motors on pumps and appurtenant equipment with natural gas engines.

BOULDER CANYON, Nevada—Following contracts awarded under Bid No. A-3214-A by A. McD. Brooks, Purchasing Agent, U. S. Bureau of Reclamation, Custom House, to furnish black steel pipe fittings and tubing for Boulder Canyon:

(6) Republic Steel Corp. at \$2.66 per 100 ft. f.o.b. Butler, Pa., for 50,000 ft. 1-in. O. D. tubing.

(7) Steel & Tubes Inc., f.o.b. Cleveland, Ohio, at \$3.40 per 100 ft., for 2000 ft. 1-in. O. D. tubing.

(9) Steel & Tubes Inc., f.o.b. Cleveland, Ohio, at \$3.35 per 100 ft., for 2000 ft. 1-in. O. D. tubing.

No awards made on items 1 to 5, 8 and 10.

PETALUMA, Sonoma Co., Cal.—California Water Service Corp., Petaluma, plant to improve local water system by installing mains and a booster pump at their Oak Hill reservoir, Park Ave. and Howard St.

SAN FRANCISCO.—Dow Pump and Diesel Engine Co., Oak and Clement Sts., Alameda, at \$785 submitted low bid to Quartermaster Supply Officer, Fort Mason, to furnish 1 pump, horizontal duplex piston, for sanitary purposes, 10x10 $\frac{1}{4}$ x12-inch. Complete bid's follow:

Dow Pum & Diesel Eng. Co.....\$785.00
The Worthington Co., Inc..... 786.15
Gardner-Denver Co. 834.00

SAN DIEGO, Cal.—The public works program being formulated by the San Diego city council and the county supervisors includes \$251,960 for improvements to the city water distribution system. The R. F. C. will be asked to provide the funds.

35—TUNNELS

LOS ANGELES, Cal.—The following contracts awarded by Metropolitan Water District:

SCHEDULE 3.—East Portion, West Eagle Mountain Tunnel, Broderick & Gordon, Denver, Colo., at \$1,435,614.

SCHEDULE 5.—West Portion, West Eagle Mountain Tunnel, L. E. Dixon Co. and Bent Bros. Co., Los Angeles, at \$414,902.80.

SCHEDULE 7.—East Portion, Hayfield Tunnel No. 1, Hunkin-Conkey Const. Co., Cleveland, Ohio, at \$403,276.20.

SCHEDULE 9.—West Portion, Hayfield Tunnel No. 1, Hunkin-Conkey Const. Co., Cleveland, Ohio, at \$411,676.20.

SCHEDULE 11.—Hayfield No. 2 Tunnel, Floyd Shofner and J. N. Gordon, Los Angeles, at \$471,889.

SCHEDULE 13.—Mecca Pass Tunnels, Nos. 1, 2 and 3, Morrison-Knudsen Co., Los Angeles, at \$575,605.

All bids on Schedule No. 1, East Eagle Mountain Tunnel, were rejected and project will be re-advertised.

SAN FRANCISCO.—Until June 22, 3 P. M., bids will be received by the Public Utilities Commission, Felton Taylor, secretary, to construct Lakeview Hill Tunnel, involving:

(1) 790 lin. ft. excav. and line tunnel
(2) 80 ft. tunnel lining in approaches
(3) 70 cu. yds. excav. and backfill, approaches;

(4) 450 sq. ft. repave over approaches
(5) 10 cu. yds. additional excav.;
(6) 50 sq. ft. additional repavement.

Estimated cost, \$35,000. Specifications obtainable from S. F. Water

Department, Room 605, 425 Mason St. Certified check 10% payable to City and County of San Francisco required with bid.

VENTURA COUNTY, Cal.—Until June 27, 2 P. M., bids will be received by U. S. Bureau of Public Roads, 461 Market St., San Francisco, C. H. Sweetser, District Engineer, to line three tunnels on Section A, Route 76, Maricopa-Ventura National Forest Highway, Santa Barbara National Forest, under two proposals as follows:

(A) Steel plate and concrete tunnel lining 369 lin. ft.;

(B) Reinforced concrete tunnel lining, 369 lin. ft.

Specifications obtainable from above office on deposit of \$10, check payable to Regional Fiscal Agent, U. S. Forest Service.

29—STREETS AND HIGHWAYS

SAN FRANCISCO.—Department of Public Works, S. J. Hester, Secretary plans to improve Burnswick, Allison to Concord, and crossing Brunswick and Concord, involving:

(1) 3510 cu. yds. excavation;

(2) 120 cu. yds. embankment.

Specifications will be obtainable shortly from office of John J. Casey, city engineer, 3rd floor, City Hall. Estimated cost, \$2000.

UKIAH, Mendocino Co., Cal.—Until June 14, 7:30 P. M., bids will be received by Fred L. Eosworth, city clerk, for:

(1) 12,933 sq. yds. asph. road surface (armor coat).

(2) 7540 sq. yds. asph. road surf. (dust oil).

Specifications obtainable from the office of City Engineer.

INGLEWOOD, Los Angeles Co., Cal.—All bids for furnishing asphaltic road oil, opened May 22, rejected by city council May 29. The council accepted a bid for furnishing and laying Bitumuls in lieu of the road oil.

LOS ANGELES, Cal.—Marter and Bock, Ltd., 1007 S Harvard, awarded contract by board of public works May 31 at \$5496.68, for improving a 15-ft. strip (to be dedicated by the L. A. Investment Co.), adjacent to the north side of Imperial Highway, formerly 114 St., from the east city boundary adjacent to the south extension of Freeman Ave. to Inglewood-Redondo Road under cash contract.

INGLEWOOD, Los Angeles Co., Calif.—Harvey Bros., Downey Road, Los Angeles, awarded contract by the city council May 29 to furnish crushed rock for the improvement of Freeman Ave. and Prairie Ave:

(1) 965 tons Nos. 2 and 3 rock in equal proportions at \$1.45 ton;

(2) 400 tons Nos. 4 rock at \$1.60 ton.

Arthur W. Cory, city engineer. The bids were opened May 22.

LOS ANGELES, Cal.—Proceedings for Improvement of Remsen St., bet. Farmdale Ave. and Sheldon Ave., abandoned by city council May 26.

LOS ANGELES, Cal.—P. J. Akmad-zich submitted the low to A. J. Holm, City Purchasing Agent, June 5, at \$1.85 per ton, to furnish and deliver to park department, f.o.b. roads in Griffith Park, 12,000 tons of oil and mineral aggregate mixture for road resurfacing under Specification No. 3074. Composition of mixture to be as follows, per ton of 2000 lbs.: Sand, 500 lbs.; commercial No. 3 or No. 4

crushed rock, 1500 lbs.; 90% asphaltum road oil, 12 to 15 gals.

LOS ANGELES, Cal.—Associated Constructors, Inc., 1226 S. La Brea Ave., awarded contract by Board of Public Works, June 5, at \$15,999.20 to improve streets in the 51st St. and Woodlawn Ave. Improvement District, under Cash contract.

LOS ANGELES, Cal.—Carl Ehrhart 2700 Exposition Place, awarded contract by Board of Public Works, June 5, at \$5949.67 to improve Las Palmas Ave., between Milner Rd. and Highland Ave., 396 ft. center line.

CALAVERAS & ALPINE Counties, Cal.—Until June 19, 3 P. M., bids will be received by R. E. Pierce, District Engineer, State Highway Commission, Room 502, State Office Bldg., Sacramento, to treat with fuel oil and asphaltic road oil as a dust palliative 23.8 miles of existing roadbed between Dorrington and Lake Alpine, involving:

(1) 1000 bbls. light fuel oil, Loc. A;

(2) 600 bbls. heavy do;

(3) 500 bbls. light do, Loc. B;

(4) 600 bbls. heavy do;

(5) 750 bbls. asph. road oil, Loc. B.

Specifications obtainable from the above office. Certified check 10% required with bid.

SEATTLE, Wash.—Bids to have been opened today by board of public works to improve Railroad Ave. from Madison to Bay Sts., including construction of a concrete seawall, cancelled and no new date for bids has been set. Project is estimated to cost \$1,200,000.

SAN LEANDRO, Alameda Co., Cal.—San Leandro Rock Co., San Leandro, at prices shown below (one bidder) awarded contract by the city council to furnish rock and screenings for the year ending June 30, 1934, to the City of San Leandro:

Red rock macadam.....\$1.05 cu. yd.

Red rock, 1-in. 1.05 cu. yd.

Red rock screenings 1.05 cu. yd.

Rock fill75 cu. yd.

Concrete rock (blue) 1.45 cu. yd.

Crushed rock screenings

(blue) 1.45 cu. yd.

Birdseye 1.70 cu. yd.

Rock dust75 cu. yd.

SAN LEANDRO, Alameda Co., Cal. Heafey-Moore Co., 344 High Street, Oakland, at \$3.24 per barrel awarded contract by city council to furnish and spread oil on street surfaces in the City of San Leandro for the year ending June 30, 1934.

Only other bid submitted by U. B. Lee, San Leandro, at \$3.35 per bbl.

SEATTLE, Wash.—Until June 15, 10 A. M., bids will be received by the board of public works to improve arterial highways as follows:

Pave Admiral Way from 47th Ave. S.W. to 63rd Ave. S. W.

Pave Boston Street.

Widen roadway and pave section of Tenth Ave. N. E. from Bothell Way to E 83rd St.

Widen roadway and pave E John St., et al.

Construct sewers on W Newton St. from 23rd Ave. W. to Thorndyke Ave.

Estimated cost on the five projects \$60,000. Plans reared by City Engineer M. O. Syllaasen.

ALAMEDA, Cal.—Hutchinson Co., 1450 Harrison St., Oakland, at \$24,499.15 awarded contract by U. S. Bureau of Public Roads, San Francisco, to construct portions of Units 2, 3, 4 and 8, Government Island construction Government Island, Alameda, involving streets, curbs, sidewalks, and street lighting system.

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

GRADE, PAVE AND UNDERGRADE CROSSING—TULARE COUNTY

TULARE COUNTY, Cal. — Basich Bros., 20,550 Normandie Ave., Torrance, at \$146,117.05 submitted low bid May 31 to State Highway Commission, Sacramento, to grade and pave with asphaltic concrete about 4.2 mi. between Plaza Garage and Goshen; and to construct an undergrade crossing under the tracks of the S. P. Co. near Plaza Garage, involving:

- (1) 25 sta. clear and grub right of way;
- (2) 38,000 cu. yds. rdwy. excav., unclass.;
- (3) 800,000 sta. yds. overhaul;
- (4) 5,900 cu. yds. struc. excav.;
- (5) 55,000 cu. yds. imported borrow;
- (6) 53,650 sq. yds. subgrade for pave.;
- (7) 24,000 tons asph. concrete;
- (8) 425 cu. yds. Class A Port. cem. conc. (slope paving);
- (9) 540 cu. yds. do (struc.);
- (10) 295 cu. yds. do (curbs & gutters)
- (11) 760 cu. yds. Class B do (abutments);
- (12) 95,000 lbs. bar reinf. steel (slope paving, struc., curbs & gutters)
- (13) 4200 lbs. cast steel;
- (14) 5500 tons crushed gravel or stone (blt. treated surf.);
- (15) 270 tons cut-back asphalt;

- (16) 800 tons crushed run base;
- (17) 750 bbls. light fuel oil;
- (18) 900 cu. yds. existing conc., remove and dispose of;
- (19) 1600 sq. yds. asph. paint binder;
- (20) 7400 M. gals. water;
- (21) 750 lin. ft. 8-in. corr. metal pipe
- (22) 925 lin. ft. 10-in. do;
- (23) 400 lin. ft. 12-in. do;
- (24) 42 lin. ft. 15-in. do;
- (25) 2716 lin. ft. 18-in. do;
- (26) 606 lin. ft. 24-in. do;
- (27) 152 lin. ft. 30-in. do;
- (28) 2300 lin. ft. 8-in. perf. underdrain
- (29) 650 lin. ft. 10-in. do;
- (30) 21 lin. ft. 10-in. cast iron pipe;
- (31) 784 lin. ft. 12-in. stand. reinf. concrete pipe;
- (32) 2912 lin. ft. 12-in. plain concrete pipe;
- (33) 35 conc. joints, pipe culverts;
- (34) 530 cu. yds. rock backfill under drains and sidewalks;
- (35) 25 cu. yds. sand fill;
- (36) 220 sq. yds. waterproofing;
- (37) 14 lin. ft. pipe handrail;
- (38) 1 lot pumping equip. (2 units);
- (39) 75 cu. yds. drainage sumps;
- (40) 7.5 miles new property fence;
- (41) 50 fence gates;
- (42) 1.25 miles remove and dispose of existing fences;

- (43) .25 mile move and reset property fence;
- (44) 1350 lin. ft. laminated timber guard rail;
- (45) 222 sta. finish roadway;
- (46) 50 monuments complete in place. State will furnish corrugated metal pipe and perforated metal pipe.

Complete bids follow:

- (A) Basich Bros., Torrance, \$146,117.05.
- (B) Union Paving Co., \$154,440.10.
- (C) Peninsula Paving Co., San Francisco, \$163,594.40.
- (D) Frederickson & Watson and Jones & King, Oakland and Hayward, \$164,321.70.
- (E) Oswald Bros., Los Angeles, \$168,239.68.
- (F) Hanrahan Co., San Francisco, \$172,041.55.
- (G) Hemstreet and Bell, Marysville, \$176,104.20.
- (H) Gogo & Rados, Los Angeles, \$169,997.60.
- (I) A. Teichert & Son, Sacramento, \$184,857.19.
- (J) Weymouth Crowell Co. and E. Penn Watson Jr., Pasadena, \$187,749.70.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
(1).....	\$ 4.00	\$ 5.00	\$ 10.00	\$ 5.00	\$ 4.50	\$ 6.00	\$ 5.00	\$ 10.00	\$ 10.00	\$ 4.00
(2).....	.13	.20	.25	.15	.26	.20	.20	.23	.18	.20
(3).....	.003	.008	.001	.003	.003	.0025	.005	.004	.005	.0023
(4).....	.60	.50	.60	.50	.60	.60	.70	.50	.60	.55
(5).....	.20	.20	.30	.25	.31	.27	.30	.255	.25	.25
(6).....	.06	.06	.05	.07	.05	.07	.08	.10	.08	.08
(7).....	2.67	2.25	2.77	3.08	2.80	3.00	2.80	3.10	3.35	3.45
(8).....	9.35	15.0	12.00	10.00	12.00	11.00	15.00	14.00	11.50	14.70
(9).....	14.50	17.00	16.00	14.00	17.00	15.00	14.20	11.00	16.00	18.00
(10).....	11.00	14.00	12.00	12.00	11.00	10.00	14.20	10.00	10.70	11.50
(11).....	12.00	12.50	10.50	13.00	14.50	12.00	11.50	10.00	11.50	11.70
(12).....	.0275	.03	.026	.03	.032	.025	.03	.04	.03	.03
(13).....	.08	.12	.10	.12	.085	.12	.105	.10	.10	.09
(14).....	1.74	2.00	1.75	2.00	1.75	2.50	2.40	2.50	2.42	2.60
(15).....	13.24	9.00	12.50	13.50	14.50	15.00	14.00	20.00	13.00	15.00
(16).....	1.40	2.00	2.00	2.00	1.50	2.25	2.25	3.00	2.00	2.20
(17).....	1.10	1.25	1.25	2.00	1.50	1.40	1.50	2.50	1.40	1.60
(18).....	1.00	1.50	1.00	1.00	.90	1.00	1.00	1.50	1.60	1.00
(19).....	.02	.015	.02	.02	.025	.015	.02	.10	.02	.12
(20).....	.25	1.00	.60	.20	.50	.60	1.00	.40	1.00	.40
(21).....	.20	.20	.20	.15	.15	.20	.20	.20	.25	.20
(22).....	.20	.20	.20	.20	.15	.20	.20	.20	.25	.20
(23).....	.20	.20	.20	.20	.20	.25	.20	.20	.25	.25
(24).....	.20	.25	.25	.25	.20	.30	.20	.20	.30	.25
(25).....	.25	.30	.30	.30	.23	.30	.25	.25	.30	.25
(26).....	.25	.35	.30	.30	.30	.35	.30	.30	.35	.30
(27).....	.35	.40	.40	.40	.35	.45	.35	.60	.45	.30
(28).....	.20	.20	.15	.15	.15	.20	.30	.25	.25	.20
(29).....	.20	.20	.15	.20	.15	.20	.30	.30	.30	.20
(30).....	2.00	2.00	6.00	2.00	4.00	2.00	2.25	5.00	5.00	6.00
(31).....	.80	.60	1.00	1.00	.85	.90	.85	1.25	.85	.90
(32).....	.30	.25	.50	.40	.35	.40	.45	.50	.42	.35
(33).....	2.00	1.00	7.50	5.00	2.50	3.50	7.00	5.00	9.00	2.80
(34).....	2.00	1.50	2.40	2.00	3.00	3.00	2.50	3.00	3.10	2.70
(35).....	2.00	.10	2.00	1.00	1.50	2.50	2.25	1.50	2.20	2.00
(36).....	.30	.20	.25	1.00	.50	1.00	.40	.50	.50	.40
(37).....	2.50	2.00	2.00	1.00	2.75	1.00	2.00	2.00	.65	2.50
(38).....	2000.00	1800.00	3000.00	2400.00	2500.00	2200.00	2500.00	3000.00	2316.00	2175.00
(39).....	3.00	1.00	2.50	2.50	3.00	1.75	2.00	2.00	1.50	2.00
(40).....	275.00	400.00	350.00	300.00	350.00	400.00	315.00	350.00	350.00	360.00
(41).....	10.00	12.00	10.00	13.00	12.50	12.00	15.00	12.00	15.00	14.00
(42).....	50.00	10.00	100.00	50.00	55.00	80.00	60.00	150.00	100.00	50.00
(43).....	150.00	100.00	200.00	150.00	200.00	300.00	140.00	200.00	200.00	216.00
(44).....	.75	.70	1.00	.70	.80	.75	.80	160.00	.75	.95
(45).....	5.00	5.00	4.00	4.00	2.00	5.00	3.00	6.00	5.00	5.00
(46).....	2.00	1.00	2.00	3.00	2.50	2.50	3.00	3.00	2.50	3.00

UNDERGRADE CROSSING — KERN COUNTY

KERN COUNTY, Cal.—Franklin B. Gridley, 256 South Lake Ave., Pasadena, at \$15,863.50 submitted low bid May 31 to State Highway Commission, Sacramento, to construct an undergrade crossing under the tracks of the Minkler branch of the A. T. & S. P. Railway about 4 miles north of Bakersfield, consisting of a 49-ft. 5-in. steel girder beam span with creosoted timber deck supported by concrete abutments with wing walls, involving:

(1) 425 cu. yds. struc. excav.;
 (2) 1260 cu. yds. struc. backfill;
 (3) 485 cu. yds. class B Portland cement concrete;
 (4) 190 cu. yds. class A do;
 (5) 16,500 lbs. bar reinf. steel;
 (6) 163,000 lbs. struc. steel;
 (7) 12,000 ft. b.m. creosoted Douglas fir timber select struc. grade;
 (8) 185 sq. yds. waterproofing;

- (9) 110 lin. ft. pipe handrail;
 (10) 1 lot misc. items of work.
- Complete bids follow:
- (A) Franklin B. Gridley, Pasadena, \$15,863.50.
 (B) Oberg Bros., Los Angeles, \$16,989.25.
 (C) Gogo & Rados, Los Angeles, \$16,989.50.
 (D) Weymouth-Crowell Co., Pasadena \$17,297.50.
 (E) Stroud Bros. & Seahrooke, Bakersfield, \$17,556.20.
 (F) Fredrickson & Watson, Oakland, \$17,602.50.
 (G) Valley Constructors, Inc., Modesto, \$17,669.80.
 (H) Merritt-Chapman-Scott, San Pedro, \$18,018.86.
 (I) Associated Constructors, Inc., Los Angeles, \$18,341.75.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
(1)	\$.30	\$.75	\$.35	\$.54	\$.50	\$.50	\$1.00	\$.30	\$1.65
(2)	.30	.50	.35	.42	.30	.60	.35	.30	.75
(3)	8.75	9.10	8.90	7.28	9.32	11.00	11.00	9.37	8.50
(4)	12.25	12.40	12.00	11.05	10.67	11.50	13.00	13.80	10.75
(5)	.032	.032	.04	.036	.03	.03	.035	.03	.03
(6)	.038	.04	.0365	.0455	.0464	.04	.038	.0425	.046
(7)	70.00	75.00	80.00	90.00	72.50	87.00	80.00	81.28	80.00
(8)	4.50	3.80	6.75	7.00	5.00	4.00	5.50	5.85	4.50
(9)	1.75	2.00	3.50	3.30	1.50	1.00	2.00	2.08	1.80
(10)	200.00	400.00	600.00	160.00	400.00	300.00	269.80	638.00	547.00

FALLEN LEAF LAKE DAM—TALLAC, CALIF.

TALLAC, Placer Co., Cal.—Following bids received May 29 by H. L. Haehl, 1317 Humboldt Bank Bldg., to furnish 1000 cu. yds. sand and gravel and/or construct concrete dam, for Mrs. Anita M. Baldwin, to be constructed at the outlet of Fallen Leaf Lake near Tallac, Lake Tahoe, Calif. Specifications call for furnishing aggregate this year and constructing dam next year, involving:

- (1) 1000 cu. yds. aggregate only;
 (2a) cu. yd. fine aggregate add or ded.;
 (2b) cu. yd. med. do;
 (c) cu. yd. coarse do;
 (3) dam only, aggregate furnished (lump);
 (4a) cu. yd. conc. thin section, add or ded.;
 (4b) cu. yd. do, heavy section do;
 (4c) lb. reinforcing steel;
 (4d) cu. yd. excav. with drainage, add
 (4e) cu. yd. do, ded.;
 (4f) cu. yd. do, without drainage, add;
 (4g) cu. yd. do, red.;
 (4h) ft. pipe railing 2½-in.;
 (4i) MBM lumber excluding forms;
 (4j) acre clear roots grubbed;
 (4k) acre clear stumps cut;
 (5) aggregate and dam (lump sum);

- (6a) cu. yd. fine aggregate (add or ded.);
 (6b) cu. yd. med. do;
 (6c) cu. yd. coarse do;
 (6d) cu. yd. concrete, thin section;
 (6e) cu. yd. concrete, heavy section;
 (6f) lb. reinf. steel;
 (6g) cu. yd. excav. with drainage;
 (6h) cu. yd. excav. without drainage;
 (6i) ft. pipe railing (2½-in.);
 (6j) MBM lumber excluding forms;
 (6k) acre clearing roots grubbed;
 (6l) acre clearing stumps cut level.

- Bidders follow:
 (A) H. C. Vensano Co., San Francisco
 (B) Wm. T. Loesch, Pasadena.
 (C) A. V. Alder, San Francisco.
 (D) Lord & Bishop, Oroville and Sacramento.
 (E) A. Teichert & Son, Sacramento.
 (F) C. Mankel, Sacramento.
- The following stipulations were made by bidders:
 (A) Dam to be constructed this year.
 (B) Dam to be constructed this year, adjustments for next year.
 (D) Dam to be built next year. Deduct \$300 for this year.
 (E) Dam to be constructed this year. Add for next year.
 (F) Bid withdrawn.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)
(1)	\$ 5,700.00	\$ 5,700.00	\$ 17,50.00	\$ 2,750.00	\$ 3,020.00	\$
(2a)	5.30	5.60	1.50	3.00	2.50	.....
(2b)	5.30	5.70	1.50	2.60	3.50	.....
(2c)	5.30	5.80	1.50	2.60	3.50	.....
(3)	18,173.00	9,900.00	.....	14,400.00	18,250.00	.....
(4a)	19.00	12.50	.....	16.00	24.00	.....
(4b)	12.00	9.75	.....	14.00	18.00	.....
(4c)	.04	.03	.....	.04	.05	.....
(4d)	4.00	.90	.....	5.00	3.50	.....
(4e)	2.00	.90	.....	5.00	3.50	.....
(4f)	1.50	.70	.....	1.00	2.10	.....
(4g)	.50	.70	.....	1.00	2.10	.....
(4h)	1.00	1.00	.....	.80	1.00	.....
(4i)	75.00	70.00	.....	50.00	65.00	.....
(4j)	800.00	200.00	.....	500.00	1,000.00	.....
(4k)	600.00	125.00	.....	200.00	300.00	.....
(5)	15,600.00	.....	.....	16,750.00	21,050.00	24,611.60
(6a)	5.60	.....	.....	3.00	2.50	5.88
(6b)	5.70	.....	.....	2.60	3.50	5.88
(6c)	5.80	.....	.....	2.60	3.50	5.88
(6d)	19.90	.....	.....	16.00	24.00	24.00
(6e)	17.15	.....	.....	14.00	18.00	21.00
(6f)	.03	.....	.....	.04	.05	.12
(6g)	.90	.....	.....	5.00	3.50	2.00
(6h)	.70	.....	.....	1.00	2.10	1.50
(6i)	1.00	.....	.....	.80	1.00	3.76
(6j)	70.00	.....	.....	50.00	65.00	195.00
(6k)	200.00	.....	.....	500.00	1,000.00	250.00
(6l)	125.00	.....	.....	200.00	300.00	180.00

- Bidders follow:
 (A) Roscoe Moss, Los Angeles.
 (B) San Jose Well & Pump Works, Ltd., San Jose.
 (C) W. G. Cexton, Tulare.
 (D) D. P. Bramlette, Fresno.
 (E) Western Well Drilling Co., San Jose.
 (F) Livermoore, Fresno (no check, bid out).

Unit bids follow:

	(1)	(2)	(3)
(A)	\$3523.00	\$	\$2531.00
(B)	4487.50	.....	.....
(C)	.....	3700.00	2700.00
(D)	.....	4409.94	.....
(E)	4170.00	.....	.....

- Alternates, etc., follow:
 (A) on (1) less or more than 400-ft. deep, \$6.30 per ft. (guaranteed, \$5000). On (3) \$5.30 per ft. additional.
 (B) on (1) \$9.75 per ft. less; \$11.-21875 per ft. more than 400 ft.
 (C) on (2) \$4.25 per ft. less than 400; 400 to 450, \$5.15; 450 to 500, \$5.65; 500 to 550, \$6.15. On (3) \$4.25 per ft. to 400 ft.
 (D) \$5.82 per ft. on (2).
 (E) \$9.20 per ft. on (1).

BERKELEY, Alameda Co., Calif.—Lee J. Immel, 1031 Evelyn Avenue, Berkeley, at \$2780 submitted low bid to city council to construct storm sewer in Ensenada Ave. from Capistrano Ave. south to the existing culvert south of Tacoma Ave., involving:
 (1a) 335 lin. ft. 33-in. sewer pipe reinf. concrete, centrif.;
 (1b) 335 lin. ft. 33-in. reinf. concrete sewer pipe, machine made (alt. to 1a);
 (1c) 335 lin. ft. 33-in. vit. ironstone sewer pipe (alt. to 1a);
 (2) 75 lin. ft. 10-in. vit. pipe;
 (3) 3 catchbasins;
 (4) 1 manhole with water seal;
 (5) 1 ordinary manhole.

- Complete bids follow:
 (A) L. J. Immel, Berkeley.....\$2780.00
 (B) Martin Murphy, Berkeley 2864.75
 (C) W. J. Tobin, Oakland..... 2949.75
 (D) R. B. McNair, Oakland..... 3036.25
 (E) Oakland Sewer Const. Co. 3217.75

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)
(1a)	\$ 7.00	7.45	.....	7.50	7.95
(1b)	.....	6.95	.....	7.85	7.95
(1c)	7.50	7.90	7.35	7.85	7.95
(2)	1.00	1.50	1.40	1.25	1.50
(3)	50.00	73.00	75.00	70.00	80.00
(4)	150.00	125.00	80.00	155.00	124.00
(5)	60.00	80.00	70.00	65.00	78.00

Bids held under advisement.

MADERA, Madera Co., Cal.—Roscoe Moss, 4560 Worth St., Los Angeles, at \$2531 for 18-in. plain well unguaranteed, and W. G. Cexton, Tulare, at \$3700 for guaranteed and \$2,700 for unguaranteed well, submitted bids which will be considered by city council for the drilling of an 18-inch gravel envelope well, 1500-gpm., 110-ft. lift against a 184-ft. head. Bids were taken as follows:
 (1) 18x32-in. gravel encased well, no guarantee, including testing;
 (2) Alt., 18-in. well, no gravel envelope, guaranteed and tested;
 (3) Alt., 18-in. well, no gravel en-

WASHINGTON, D. C.—As previously reported, E. E. Black, Ltd., Honolulu, T. H., at \$11,728 submitted low bid to Bureau of Yards and Docks, Navy Department, under Spec. No. 7209 to construct 6-in. cast iron pipe water line approximately 3,736 feet long with 3,180 ft. to be submerged, at Pearl Harbor, T. H. Following is complete list of bids:
 E. E. Black, Honolulu.....\$11,728
 Kahill Cont. Co., Honolulu..... 12,750
 Hawaiian Dredg. Co., Honolulu 13,631
 R. J. Whinery, Los Angeles..... 14,141
 W. P. Thurston, Richmond, Va. 19,800
 A. J. Marshall, Honolulu..... 25,000

EXTEND OUTER HARBOR TERMINAL WHARF OAKLAND

OAKLAND, Cal.—M. B. McGowan, 74 New Montgomery St., San Francisco, at \$47,955 submitted low bid June 5 to Board of Port Commissioners, Grove Street Pier, Oakland, to construct a 329 ft. extension to Outer Harbor Terminal Wharf, involving:

- (1) 16-in. reinf. conc. piles, per lin. ft. in place;
- (2) reinf. conc. jackets, in place, incl. grouting on concrete piles;
- (3) creosoted piles in place, per lin. ft.;
- (4a) class A reinf. conc., incl. form work, but not incl. reinf. steel;
- (4b) class B do;
- (5) reinf. steel in place in forms, per lb.;
- (6a) creos. timber and lumber, 6 lb. treatment in place, incl. fastenings, per MFEM;
- (6b) do, 12 lb. treatment;

(7) Riprap rock in place on slopes, per ton (2000 lbs.);
Complete bids follow:

- (A) M. B. McGowan, San Francisco, \$47,955.
- (B) Duncanson-Harrelson Co., San Francisco, \$51,691.
- (C) A. W. Kitchen, San Francisco, \$52,643.
- (D) Barrett & Hill, San Francisco, \$54,254.
- (E) Healy Tibbits Constr. Co., San Francisco, \$54,888.
- (F) R. W. Littlefield, Oakland, \$55,686.
- (G) J. F. Knapp, Oakland, \$66,660.
- (H) Schuler & McDonald, Oakland, \$67,973.
- (I) Fredrickson & Watson, Oakland, \$68,358.
- (J) W. A. Bechtel, San Francisco, \$72,500.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
(1).....	\$ 1.25	\$ 1.45	\$ 1.26	\$ 2.00	\$ 1.50	\$ 1.90	\$ 2.00	\$ 1.85	\$ 2.00	\$ 2.24
(2).....	2.00	2.65	2.36	37.50	5.00	34.00	60.00	2.05	50.00	4.70
(3).....	.45	.68	.66	.65	.60	.85	.75	.79	.80	.83
(4a).....	9.00	12.00	11.70	15.00	14.00	13.00	15.00	13.00	16.00	23.30
(4b).....	8.00	11.00	12.16	14.00	13.50	12.50	15.00	12.50	15.00	15.75
(5).....	.025	.03	.026	.03	.035	.025	.023	.023	.03	.035
(6a).....	50.00	72.00	71.00	60.00	45.00	50.00	70.00	55.00	80.00	66.00
(6b).....	55.00	79.00	97.40	65.00	65.00	56.00	90.00	65.00	85.00	74.50
(7).....	1.55	2.50	2.25	3.00	2.00	3.00	3.50	5.00	2.50	2.00

30-IN. PIPE LINES — SAN FRANCISCO

SAN FRANCISCO.—Theo. Cohn, Russ Bldg., at \$18,211 submitted low bid June 6 to Public Utilities Commission to lay 30-in. steel plate pipe lines for San Francisco Water Department, involving:

- (1) 3060 ft. excavation and backfill of trench;
- (2) 100 cu. yds. additional do;
- (3) 650 sq. ft. add. pave. remove and replace, bitumen on concrete;
- (4) 140 lin. ft. add. field welding, joints;

- (5) 132 tons install pipe and fittings;
- (6) 11,780 sq. ft. repave., bitumen on concrete;
- (7) 3060 lin. ft. fabricate pipe from 3/16-in. steel plate.

Complete bids follow:

- (A) Theo. Cohn\$18,211.00
- (B) J. O'Shea 18,936.40
- (C) S. F. Water Dept. 20,478.10
- (D) C. L. Harney 21,150.00
- (E) Eaton & Smith 21,332.40
- (F) M. B. McGowan 22,183.90
- (G) Fay Imp. Co. 23,291.40

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
(1).....	\$.60	\$ 1.10	\$ 1.39	\$ 1.50	\$ 1.00	\$ 1.50	\$ 1.43
(2).....	2.00	1.00	1.00	1.00	1.00	3.25	1.00
(3).....	.30	.20	.27	.28	.30	.31	.29
(4).....	2.00	1.50	1.28	2.54	.50	1.30	2.80
(5).....	13.00	12.00	18.70	18.00	34.00	16.00	28.00
(6).....	.20	.22	.22	.22	.23	.28	.24
(7).....	3.80	3.58	3.50	3.58	3.50	3.75	3.83

JUDAH STREET PIPE LINE—SAN FRANCISCO

SAN FRANCISCO.—J. O'Shea, 2100 17th St., at \$6808.60 submitted low bid to Public Utilities Commission to lay 16- and 12-in. cast iron pipe line on Judah Street from 19th Ave. to 29th Ave., and on Ocean Ave. from Faxon to Phelan, involving:

- (1a) 3150 lin. ft. excav. and backfill for 16-in. c. i. pipe;
- (1b) 2500 lin. ft. do for 12-in. do;
- (2) 50 cu. yds. additional excav. and backfill;
- (3) 340 s. ft. additional pavement, remove and replace, bitumen on

- concrete;
- (4) 280 tons install pipe and fittings;
- (5) 1950 lin. ft. make mineraloid joints
- (6) 14,163 sq. ft. repavement—bitumen for concrete.

Complete bids follow:

- (A) J. O'Shea, \$6808.60.
- (B) Lowrie Paving Co., \$6897.75.
- (C) S. F. Water Dept., \$6928.66.
- (D) Eaton & Smith, \$7705.25.
- (E) Fay Improvement Co., \$8188.22.
- (F) T. Cohn, \$8238.96.

Unit bids follow:

	(1a)	(1b)	(2)	(3)	(4)	(5)	(6)
(A).....	\$.54	\$.54	\$.50	\$.15	\$1.50	\$.22	\$.20
(B).....	.42	.40	2.00	.25	1.50	.22	.25
(C).....	.46	.50	1.00	.27	1.80	.24	.22
(D).....	.50	.50	1.00	.30	2.50	.25	.25
(E).....	.65	.59	1.00	.29	2.60	.20	.24
(F).....	.80	.50	2.00	.39	2.40	.23	.22

SONOMA, Sonoma Co., Cal.—American Steel Co., Visalla, at \$1441 and \$1253 (bid submitted by telegram, bid and check in mail May 29) submitted low bids to city council to drill two wells 10- and 8-in., cased, pumped and tested. Bids were taken as follows:

- (1) 2 10-in. double red seal well casing 12-gauge, 1st 200-ft.;
- (2) each additional foot, 200- to 300-ft.;
- (3) do, 300- to 400-ft.;
- (4) testing each well;
- (5) 2 8-in. double red seal well casing 12-gauge, 1st 200-ft.;
- (6) each additional foot 200- to 300-ft.;
- (7) do, 300- to 400-ft.;
- (8) testing each well.

Complete bids follow:

- (A) American Steel Co., Visalla, 10-in., \$1441; 8-in., \$1253.
- (B) Fred H. Bents, Napa, 10-in., \$1840; Alt., screw casing, \$1500; 8-in., \$1680; Alt., screm casing, \$1352.
- (C) D. Volquaadson, Sonoma, 10-in., \$1352; 8-in., \$922 (neither includes testing).

(D) W. W. McDonald, Petaluma, (no check).

(E) W. M. Quien, Napa (no check).

Unit bids follow:

	(A)	(B)	(C)
(1).....	\$	\$724.00	\$480.00
(2).....	2.81	4.12	3.00
(3).....	3.06	4.12	3.00
(4).....	.....	196.00	196.00
(5).....	.....	644.00	450.00*
(6).....	2.27	3.72	2.75
(7).....	2.52	3.72	2.75
(8).....	.....	196.00*

*screw casing.

Alternate bids were as follows:

(A) \$1.56 less for each foot under 200 ft. Bid was including test on either size well.

(B) \$392 for 72-hour test; \$2 per hour for each hour over 72. Alternate on screw casing, \$1892; \$4.25 per additional foot. Alternate on 8-inch screw casing, \$1352; \$3 per additional foot.

(C) Alternate using special shoe, \$11 per well extra, making a total of \$922 for both wells, 8-in. screw casing.

(A) Also submitted bid of \$1285 for two 10-in. wells, tested, using 14-gauge.

PORTLAND, Ore. — As previously reported, Parker - Schram Co., 513 Couch Bldg., Portland, at \$69,706 submitted low bid to U. S. Engineer Office, for rock excavation and removal, reconstruction of miter sill and thrust walls, lock gate and timber fenders, construction of emergency dam and riprap for dike, all in Willamette river, in and between Lock No. 1 (lowest lock of locks at Willamette Falls near Oregon City) and a point about one mile downstream from Willamette Falls. Complete bids follow:

- Parker - Schram Co., Portland\$69,706.00
- Myers Contract Co., Portland 72,541.00
- Oregon Bridge & Dredg. Co. 75,341.00
- Kern & Kibbe, Portland..... 79,936.30
- Puget Const. Co., Seattle..... 92,911.10
- The Gilpin Const. Co., Portland 9.....\$20.50
- Engineer's estimate 61,249.00

OAKLAND, Cal.—Pacific Fire Extinguisher Co., at \$6850 submitted low bid to city council to furnish chemical fire extinguisher, two 60-gallon tanks and one 40-gallon tank. Complete bids follow:

- Pacific Fire Extinguisher Co.....\$6850
- General Fire Turck Co..... 7885
- America-LaFrance Corp. 7900
- Alternate 9150
- Alternate 10150
- S. S. & N. W. Hirsch, L. A..... 8150
- Ahrens Fox Co..... 9150
- Seagrave Co. 9150

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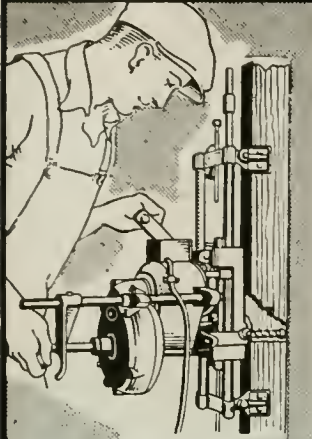
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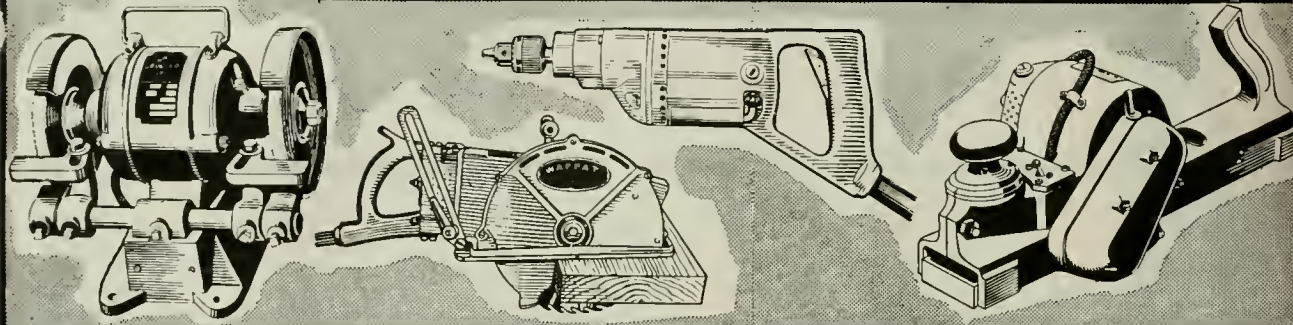
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With which is Consolidated Building and Engineering News



SAM B. EUBANKS, *Editor*

Vol. XVI

SAN FRANCISCO, CALIF., JUNE 17, 1933

No. 22

R.F.C. CASH FOR S. F. BAY BRIDGE IS TRANSFERRED

**State Receives Initial \$2,000,-
000 of Construction
Loan**

Cash for the San Francisco-Oakland bay bridge was in the state treasury yesterday to the amount of \$2,000,000, the initial advance from the Reconstruction Finance Corporation.

The corporation presented its check through the San Francisco Federal Reserve Bank to the California Toll Bridge Authority in exchange for an interim certificate in lieu of \$2,000,000 worth of revenue bonds.

The money was immediately deposited by State Director of Public Works Earl Lee Kelly on behalf of Governor James Rolph, Jr., head of the Toll Bridge Authority, in the Anglo-California National Bank and Bank of America.

Intensive preparations for sinking a coffer dam for the most westerly pier on the San Francisco-Oakland bridge are now going on at the tip end of Pier 24. Charles F. Swigert, President of Transbay Construction Company, informed Chief Engineer C. H. Purcell yesterday. Alterations on Pier 24 are already in progress to make way for the bridge pier to be sunk to a depth of 100 feet on this site.

The next work will start on Yerba Buena Island where the Clinton Construction Company is to dig the 540-ft. largest bore tunnel in the world through the solid rock island.

At the same time Healy-Tibbitts Construction Company are assembling equipment with which to gorge out the base of Rincon Hill for the huge concrete monolith of 68,000 cubic yards which will serve as the San Francisco cable anchorage.

Bridge Builders, Inc., have announced the award of a contract to the Moore Drydock Company for construction of three caissons for the deep water piers of the Eastbay substructure.

The Moore company already has a \$1,250,000 contract for four gigantic caissons for the west span.

THE WEEK'S NEWS Highlights

WORK STIMULANT. Outstanding news of the week to all industry is passage of the National Industrial Recovery Act. President is given absolute control over United States industry, authorized to approve competitive codes adopted by majority in any industry and compel dissenting elements to agree or go out of business. Trade associations are working rapidly to present acceptable regulations for their respective groups, sensing official recognition finally of practices which majority of industry has tried to enforce with indifferent success for many years.

Second title of the new act is that carrying authorization for \$3,300,000,000 public works program. Of this amount \$400,000,000 will be distributed to states specifically for highway construction, allotments based on usual Federal aid proportions (California more than \$15,000,000). Balance to be expended virtually as President may determine through his public works administrator. Part will be used to carry forward public buildings program already planned by treasury department and interrupted with the change of administration. Promised \$50,000,000 awards immediately (within six weeks), an equal amount withing ninety days.

Municipalities and other political subdivisions will be allowed to borrow for all types of public projects, a portion of the amount loaned may be an outright gift of the Federal government.

Federal rivers and harbors program and forestry road improvements also are provided for amply.

First benefits to coast are in authorization to architects to proceed with plans for various federal buildings, including Salinas, Hayward and Lodi.

33 MILLION L. A. FLOOD CONTROL PROGRAM READY

**Approval of Federal Govern-
ment on Financing Plan
Expected**

Twenty-one flood control projects, estimated to cost \$33,000,000 are included in the Los Angeles county flood control district's program which has been placed before the Reconstruction Finance Corporation to be financed under the terms of the National Industrial Recovery Act, according to E. C. Eaton, chief engineer.

Mr. Eaton has just returned from Washington where he conferred with the directors and engineers of the corporation and administrators of the public works program.

During his month's leave of absence, Mr. Eaton visited New Orleans, Washington, New York, Boston, Cleveland, Toronto, Montreal and various points in Nova Scotia. His chief comment was that a general air of prosperity pervaded practically all of the cities he visited, especially in New England and New York State, where returning business is being manifested in the reports of manufacturers and banking circles.

The comprehensive plan for flood control and conservation submitted to the federal engineers will be checked thoroughly by engineering representatives who will be sent from Washington to make first-hand studies of the projects. A formal application by the board of supervisors will have to be made to set in motion the machinery to procure the funds. All of the 21 projects have received favorable preliminary attention by the federal board.

ASSOCIATION PREPARES LEGISLATIVE SUMMARY

Industrial Association of San Francisco has issued a summary of important bills affecting business and industry which were passed at the last session of the California legislature.

RENOVIZE DRIVE COMMITTEE TO BE NAMED BY MAYOR

Meeting at City Hall Endorses Campaign for Property Modernization

Preliminary steps to launch a community renovize campaign as a stimulant to local building were taken yesterday at a meeting in the San Francisco city hall called by Mayor Angelo Rossi.

Mayor Rossi was asked by the representatives of many civic groups present to appoint an executive committee with authority to arrange the campaign and a committee to organize the house to house canvass that will be undertaken to obtain pledges for remodeling and repair work, termed "renovizing" in similar drives that have been successful in other cities.

R. F. Byrnes, secretary-manager of the San Mateo County Building Industries Association, was the principal speaker at yesterday's meeting. He described other campaigns which have created millions of dollars worth of work for building and allied industries.

He cited the Philadelphia drive which netted pledges of \$21,500,000 for work to be done by property owners. Of this total 24,700 pledges were obtained from home owners for \$8,018,000. Employment by building contractors increased 16 percent in March in that city compared with February and payrolls increased 22 percent.

The Philadelphia campaign has been followed by similar programs in about sixty cities, according to reports to the Bureau of Standards at Washington. The idea has spread even into state campaigns.

Impetus would be given a local drive at the present time, it was pointed out, by the rapidly rising prices of building materials which may be expected to accelerate as the industrial recovery program gains momentum.

The goal set for San Francisco's campaign will probably be set at \$10,000,000. San Mateo County is already underway with organization of a similar campaign with the goal at \$1,000,000.

"The Federal Reserve Bank estimates that every dollar put into the channels of trade changes hands twenty-five times within a year," said Mayor Rossi in his opening remarks. "That means that if San Francisco can pledge \$10,000,000 worth of work, no less than \$250,000,000 dollars will be placed in circulation in this city. It will

DETERDING NAMED FIRST MANAGER OF SACRAMENTO COUNTY

Charles W. Deterding, Jr., Sacramento county engineer for the past twelve years, has been appointed the first county manager under the new charter. His appointment is effective July 1.

Mr. Deterding has been in Sacramento county public service since 1908 when he entered the county engineer's office as an assistant. He was born in Sacramento and graduated from the Sacramento schools.

In his new position he will receive a salary of \$6000 a year. The appointment is for a minimum of two years, the new charter providing that the first manager cannot be removed within two years except on charges of incompetency or malfeasance.

Mr. Deterding announced that he would continue to handle the duties of the county engineer, thereby eliminating the \$4500 salary for this office.

LUMBER WAGE MEET IN PORTLAND JUNE 23

Loggers and lumbermen of the Pacific Northwest will meet in Portland on June 23 and 24 to consider rates of pay and working conditions for the lumber industry to be approved in compliance with the National Industrial Recovery Act. Wage rates for logging camps planing mills, shingle mills and other wood products plants will be determined at the meeting.

HESTER TO BECOME CHIEF WORKS DEPUTY

Appointment of Sidney J. Hester, since 1927 secretary of the Department of Public Works, to the post of chief deputy director of public works, was announced yesterday by Wm. H. Worden, Director.

flow into every pocket and till in San Francisco. Fear is the only thing that has brought about economic depression. If we all work together on a definite program looking toward recovery, the depression will be behind us."

The Mayor announced that he would organize his campaign committee within the next few days, choosing as general chairman of the campaign some outstanding citizen of San Francisco willing to devote his time to work for the public good.

DECISIVE VOTE AGAINST RAID ON FUND URGED

State Organizations in Campaign To Prevent Loss of Highway Money

Efforts of statewide groups opposing Propositions No. 9 and No. 10 on the June 27 ballot (diversion of gasoline tax money from the Highway Fund to the General Fund) are being directed not only toward defeat of the proposals but to rolling up a "No" vote so decisive that it will serve as a lasting mandate for the people on the subject of diversion," reports the California State Automobile Association.

The statement points out that the fight against No. 9 and No. 10 is being led by statewide organizations representing practically a cross-section of the population of California, including such groups as the California State Federation of Labor, League of California Municipalities, County Supervisors Association, California State Automobile Association, Automobile Club of Southern California, and many chambers of commerce and other civic and business groups.

Opponents to diversion of the gasoline tax for general fund purposes declare that the principle involved is identical with the one presented in a diversion proposal at the election last November, which was defeated by a vote of 1,103,891 to 544,222, or more than two to one. It is pointed out that the proposition defeated at that time called for the diversion of a comparatively small sum from the highway fund to the general fund, and that the heavy "No" vote was mainly significant as an expression of public opinion against use of highway money for any other purposes than those to which it has been specifically pledged.

\$290,000 BERKELEY WORK IS ADVISED

A ten-year plan for street improvements in the city of Berkeley, involving an estimated expenditure of \$290,000 has been presented to the city council by the Regional Advisory Committee of Berkeley, that will be needed to facilitate traffic movement toward the bay bridge.

Major items include widening of Tunnel road at a cost of \$73,750; repaving of San Pablo avenue between street car tracks, \$60,000; northerly extension of Seventh St., \$30,000; widen Los Angeles avenue \$25,000.

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LOAN COMPANIES PROMISE MONEY FOR NEW BLDG.

Oakland Real Estate Board Reports Relaxation of Lending Restrictions

Resumption of the lending of mortgage money for the financing of home purchases, announced to the Oakland Real Estate Board during the past week by several lending agencies, has been an immediate stimulus to the local realty market, according to a market letter by James H. L'Hommedieu, president of the board.

One of the lending companies reported that restrictions on its lending policies which have been effective for many months have been removed as of June 7, and it now has available for local home loans many millions of dollars. Interest rates, terms and conditions are to be substantially the same as those commonly in operation prior to 1930 when stringently restrictive loan policies were adopted by practically all lending institutions.

Although decision to resume the making of home loans has been announced by relatively few concerns, it is expected that others will do so in the near future and that the effect on the realty market will be one of steady and dependable advance in general activity.

Of special significance, L'Hommedieu points out, is the fact that one of the lending companies which has resumed the making of loans, is prepared to lend for home building. This concern reports that it has more than \$8,000,000 now available for such purposes.

"The greatest obstacle to the selling of homes and the building of homes during the last two or three years has been the almost total absence of mortgage money," L'Hommedieu states. "A return of capital to the field of home financing is of the greatest importance to the realty dealer handling existing homes and the resumption of building loans in the Eastbay will have an immediate beneficial effect on the entire community

BIDS JUNE 22 ON KEY PIER

Bids on three departments of the Key System pier reconstruction will be received Thursday, June 22, Architects Kent and Hass, 525 Market street, announced yesterday. The work on which proposals are invited is the following: (1) fabrication delivery and erection of structural steel; (2) sheet metal, including steel, decks, glazed skylights, flag poles, steel ladders, rolling doors, tar and gravel roofs; (3) steel sash installed and glazed. Bids will be received for general and segregated contracts. Plans and specifications will be available at the offices of Kent and Hass after 1 o'clock today.

through stimulation of employment.

"Reports to the Realty Board from members dealing in residence property clearly indicate the need for new home construction in almost every area of the city and almost every class of property. Existing properties of desirable types and locations and reasonably priced are almost eliminated from the current market.

"No new homes have been built of any consequence of numbers for several years. Local occupancy of single-family homes is far above normal and many of the Eastbay's 100,000 such homes are now occupied by more than one family. Gradual resumption of employment and the return of confidence has, during the last two weeks, brought a marked increase in home purchases. The potential shortage of homes which now exists in this district will soon be an actual shortage which can be met only by new construction.

"Many builders of the Eastbay have been ready to launch new construction projects for several months but have been unable to finance their operations. Individuals planning the building of new homes have been prevented from doing so because of the unresponsive policy of lending institutions. Announcement that these concerns are beginning to lend

LUMBER STOCK RATIO LOWEST IN THREE YEARS

West Coast Association Says Industry in Best Position Since 1931

For the first time in two years the lumber industry is in a favorable statistical position, reports the West Coast Lumbermen's Association in its weekly bulletin, which shows another increase in production.

"The volume of new business continues to be unusually high and more than 50 percent greater than production," says the bulletin.

"Since January 1 orders have averaged 22.6 percent in excess of production and 13 percent more in volume than in the same period last year. Production since January 1 has been 5 percent under the same period in 1932. Stocks are 18 percent lower than at this time last year and unfilled orders now represent 38 percent of the lumber in pile, the largest ratio since January, 1930."

A total of 252 down and operating mills which reported to the West Coast Lumbermen's Association for the week ending June 3 produced 82,815,943 board feet of lumber. This was an increase of 627,738 feet or .76 per cent over their cut in the preceding week. The average week's production of this group of sawmills in 1933 has been 62,758,041 feet; during the same period of 1932, their weekly average was 65,704,180 feet.

The new business reported last week by 180 mills is 111,993,830 board feet against a production of 74,137,558 feet and shipments of 88,370,179 feet. Their shipments were over their production by 19.77 percent and their current sales were over production by 51.39 percent. The orders booked last week by this group of identical mills were less than their orders of the preceding week by \$64,785 feet or .77 percent.

money for such purposes again is of the greatest importance and significance."

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Stockton, Calif.

PERMITS AND CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
380	Christensen	Owner	4000
381	Draeger	Lindgren	1000
382	Wider	Owner	3000
383	Chalmers	Gladstone	5000
384	De San Mattini	Byrne	3000
385	Moertoronia	Owner	2400
386	Rericayral	Parodi	2500
387	Ross	Blincoe	4000
388	Montgomery	Owner	1000
389	Willett	Electrical	1000
390	Poggetto	Standard	3500
391	Wall	McCarthy	7000
392	Jennings	Coburn	1000
393	Federated	Barrett	4000

DWELLING

(380) S BRENTWOOD AVE. 135 E Maywood; 2-story and basement frame dwelling.
Owner—H. Christensen, 1422 27th Ave.
Architect—C. F. Strothoff, 2274 15th Street. \$4000

STORE

(381) SW 40th AVE. and Taraval St.; one-story and basement frame store.
Owner—G. A. Draeger.
Architect—D. E. Jaekle, Cali Bldg.
Contractor—A. C. Lindgren, 346 Lowell. \$1000

DWELLING

(382) W 21st AVE. 143 N Noriega; one-story and basement frame dwelling.
Owner—Dr. H. C. Wider, 301 Elizabeth St.
Architect—Not Given. \$3000

ALTERATIONS

(383) 210 SPRUCE ST.; alter dwelling.
Owner—G. Chalmers, 170 Funston Avenue.
Architect—H. H. Gutterson, 526 Powell Street.
Contractor—D. B. Gladstone, 553 Market Street. \$5000

DWELLING

(384) W SIDE WATERVILLE ST. 275 ft. N Thorton Ave.; one-story and basement frame dwelling.
Owner—Lawrence De San Martini, 252 Waterville St.
Architect—Not Given.
Contractor—Wm. Byrne, 26 Heyman Avenue. \$3000

DWELLING

(385) SE FORTY-SIXTH AVE. AND Judah St. One-story frame store and dwelling.
Owner—F. Moertoronia, 1553 Grove St., San Francisco.
Architect—Not Given. \$2400

DWELLING

(386) W LANE 25 S Oakdale St. One-story and basement frame dwelling.
Owner—M. Rericayral, 5134 3rd St., San Francisco.
Architect—Not Given.
Contractor—G. Parodi. \$2500

DWELLING

(387) W THIRTY-EIGHTH AVE. 180 S Clement St. One-story and basement frame dwelling.
Owner—A. A. Ross, 2663 15th Ave., San Francisco.
Architect—Not Given.
Contractor—C. O. Blincoe, 2663 15th Ave., San Francisco. \$4000

ALTERATIONS

(388) NO. 111 SUTTER ST. Alter

office building.
Owner—Montgomery & Sutter Bldg. Co., 111 Sutter St., S. F.
Architect—Not Given.
Contractor—Montgomery & Sutter Bldg. Co., 111 Sutter St., S. F. \$1000

SIGN

(389) NO. 690-A MARKET ST. Electric sign.
Owner—Dr. C. Russell Willett, Prem.
Architect—Not Given.
Contractor—Electrical Products Corp., 255 Golden Gate Ave., \$1000

DWELLING

(390) NW SHAFTER AND INGALLS Sts. One-story and basement frame dwelling.
Owner—P. Dal Poggetto, 44 Sloat Blvd., San Francisco.
Architect—Not Given.
Contractor—Standard Building Co., 218 Castenada Ave., S. F. \$3500

FLATS

(391) N JERSEY 75 E Church St. Two-story and basement frame (2) flats.
Owner—Mr. Wall, % Contractor.
Architect—Not Given.
Contractor—R. McCarthy, 1363 14th Ave., San Francisco. \$7000

REPAIRS

(392) NO. 2736 PIERCE ST. Repair fire damage to flats.
Owner—Mr. Jennings, % Contractor.
Architect—Not Given.
Contractor—I. W. Coburn, 2048 Market St., San Francisco. \$1000

WAREHOUSE

(393) S FOLSOM ST. 152 E Spear. Class C warehouse.
Owner—Federated Metals Corp., 75 Folsom St., San Francisco.
Engineer—Ellison & Russell, Pacific Bldg., San Francisco.
Contractor—Barrett & Hilp, 918 Harrison St., S. F. \$4000

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
200	Cross	Burks	1500
201	Urch	Owner	5700
202	Horning	Watson	3200
203	Home	Owner	4000
204	Loeb	Confer	1750
205	Revelli	Owner	2500
206	Martini	Armstrong	3750
207	St. Mark	Bunker	1900
208	Warnock	Owner	2000
209	Bridge	Owner	1500
210	Shane	Cederborg	1900
211	Shane	Cederborg	1900
212	Peters	Owner	1200
213	Perry	Owner	1500
214	City	McGowan	47955
215	Souza	Rose	2000

REPAIRS

(200) 2030 BROADWAY, OAKLAND; fire repairs.
Owner—R. H. Cross, Mills Bldg., San Francisco.
Architect—Not Given.
Contractor—C. E. Burks, 4129 Randolph Ave., Oakland. \$1500

DWELLING

(201) 5733 ROSS ST., OAKLAND; one-story 6-room dwelling and 1-story garage.
Owner and Builder—Ernest W. Urch, 1924 50th Ave., Oakland.
Architect—Not Given. \$5700

DWELLING

(202) 4045 NORTON AVENUE, OAKLAND; one-story 5-room dwelling.

Owner—R. O. Horning, 4245 Redding St., Oakland.
Architect—Not Given.
Contractor—Wm. Watson, 4750 Melton Ave., Oakland. \$3200

DWELLING

(203) 3245 MILLSVIEW AVE., OAKLAND; one-story 6-room dwelling.
Owner and Builder—Home Builders, Inc., 1939 Courtland Ave., Oakland.
Architect—Not Given. \$4000

DWELLING

(204) E SHASTA 200 E Queens Rd., BERKELEY. One-story 5-room frame dwelling.
Owner—Mrs. L. Loch, 2800 Shasta St. Berkeley.
Architect—Not Given.
Contractor—F. W. Confer, 2800 Shasta Road, Berkeley. \$1750

DWELLING

(205) NO. 5968 MARSHALL STREET OAKLAND. One-story five-room dwelling.
Owner—E. Revelli, 6143 Fremont St., Oakland.
Architect—Not Given. \$2500

DWELLING

(206) NO. 3864 BROWN AVE., OAKLAND. One-story 5-room dwelling and one-story garage.
Owner—Frank Martini, 4117-D Penniman Ave., Oakland.
Architect—Not Given.
Contractor—J. R. Armstrong, 1131 Fleet Road, Oakland. \$3750

ALTERATIONS

(207) NO. 1212 FRANKLIN STREET, OAKLAND. Alterations.
Owner—St. Mark Hotel, Premises.
Architect—H. Slocombe, 931 Monte Cresta Ave., Oakland.
Contractor—Glenn Bunker, 953 Ordway St., Berkeley. \$1900

DWELLING

(208) NO. 6500 BURNELL DRIVE, OAKLAND. One-story four-room dwelling.
Owner—F. D. Warnock, 1315 Hopkins St., Oakland.
Architect—Not Given. \$2000

OFFICE

(209) PARR TERMINAL WHARF, OAKLAND. One-story office and tool house and one-story shop.
Owner—Bridge Builders, Inc., 155 Sansome St., San Francisco.
Architect—Not Given. \$1500

DWELLING

(210) S TERRACE WALK 125 W Mariposa St., BERKELEY. One-story three-room frame dwelling.
Owner—Mrs. Mary Lee Shane, 89 San Mateo Road, Berkeley.
Architect—Gwynn Officer, 2328 Warring St., Berkeley.
Contractor—A. Cederborg, 1455 Excelsior Ave., Oakland. \$1900

DWELLING

(211) S TERRACE WALK 125 W Mariposa St., BERKELEY. One-story three-room frame dwelling.
Owner—Mrs. Mary Lee Shane, 89 San Mateo Road, Berkeley.
Architect—Gwynn Officer, 2328 Warring St., Berkeley.
Contractor—A. Cederborg, 1455 Excelsior Ave., Oakland. \$1900

DWELLING

(212) NO. 837A THIRTIETH ST., OAKLAND. One-story 3-room dwelling.

Owner—Frank B. Peters, 837 30th St., Oakland.
 Architect—Not Given. \$1200

DWELLING
 (213) NO. 420 HALE AVE., OAKLAND. One-story 4-room dwlg.
 Owner—Chas. M. Perry, 1168 Centini Ave., Oakland.
 Architect—Not Given. \$1500

WHARF
 (214) OUTER HARBOR TERMINAL, OAKLAND. Concrete Wharf.
 Owner—City of Oakland, Grove St. Pier.
 Plans by Port of Oakland Commission
 Contractor — M. B. McGowan, Inc., Call Bldg., S. F. \$47,955

ALTERATIONS
 (215) NO. 1438 LAKESHORE AVE., OAKLAND. Alterations and addition to apartments.
 Owner—John Souza, 1438 Lakeshore Ave., Oakland.
 Architect—Not Given.
 Contractor — Mervin P. Rose, 6329 Shattuck Ave., Oakland. \$8000

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

82 Draeger	Lindgren	2600
83 Chalmers	Gladstone	7267
84 Ruegg	Lindsay	3625

STORE & GARAGE
 (82) SW COR. 40th AVE. and Taraval St.; one-story frame store and garage.
 Owner—Gustave A. Draeger, 19 G 48th Ave.
 Architect—Not Given.
 Contractor—Albin C. Lindgren, 68 Ramona Street.
 Filed June 8, '33. Dated June 7, '33.
 When roof sheeting is on.....\$650
 Brown coated 650
 Bldg. is completed..... 650
 15 days after..... 650
TOTAL COST, \$2600
 Limit, 60 days.

ALTERATIONS
 (83) E SPRUCE ST. adj. SE COR. Washington St. All work for alterations to three-story frame dwelling and garage.
 Owner—George Chalmers, 170 Funston Ave., San Francisco.
 Architect — Henry H. Gutterson, 526 Powell St., San Francisco.
 Contractor—D. B. Gladstone, 557 Market St., San Francisco.
 Filed June 12, '33. Dated June 9, '33.
 On or about 5th of each month 75%
 Upon completion sum sufficient
 to increase total to..... 75%
 Usual 35 days..... 25%
TOTAL COST, \$7267
 Bond, none. Limit 80 days. Forfeit, none. Plans and specifications filed.

BUILDING
 (84) E HARVARD 100 N Silliman St. 25x120. All work for frame building.
 Owner—Edwin and Sophie A. Ruegg, 625 Pennsylvania Ave., San Francisco.
 Architect—Not Given.
 Contractor—Claude T. Lindsay, 4363 26th St., San Francisco.
 Filed June 14, '33. Dated June 13, '33.
 Tar and gravel roof on.....\$925
 Brown plaster on..... 900
 When completed 900
 Usual 35 days..... 900
TOTAL COST, \$3625
 Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.

ALAMEDA COUNTY

27 Shane	Cederborg	3822
28 Kindig	Furlong	4630

DWELLINGS
 (27) LOT 27 BLK I, Northbrae Terrace, Berkeley. All work for two one-story frame dwellings with concrete foundations.
 Owner — Mary Lea Shane, 89 San Mateo Road, Berkeley.
 Architect—Gwynn Officer, 2328 Warring St., Berkeley.
 Contractor—A. Cederborg, 1455 Excelsior Blvd., Oakland.
 Filed June —. Dated June —.
 Frame up and roof on.....\$955.63
 Exterior and interior walls on 955.63
 Completed and accepted..... 955.62
 Usual 35 days..... 955.62
TOTAL COST, \$3822.50
 Bond, none. Limit, 60 days. Forfeit, none. Plans and specifications filed.

DWELLING
 (28) LOT 1, MONTCLAIR VISTA, Oakland. All work for two-story and basement frame dwelling and garage.
 Owner—A. S. Kindig, 6121 Merriwood St., Oakland.
 Architect—William Edward Schirmer, 1700 Financial Center Bldg., Oakland.
 Contractor — Thos. L. Furlong, 460 Jerome Ave., Oakland.
 Filed June 14, '33. Dated May 19, '33.
 Sheathing on\$1157.50
 Brown coat plaster in exterior and interior 1157.50
 When completed 1157.50
 Usual 35 days..... 1157.50
TOTAL COST, \$4630.00
 Bond, \$4630. Surety, Coast Surety Corporation, Limit, 100 days. Forfeit, none. Plans and specifications filed.

SAN MATEO COUNTY

RESIDENCE
 LOT 16 SUB NO. 2, Hillsboro Heights San Mateo. All work for two-story frame and stucco residence and garage.
 Owner—Benjamin F. Cator, 831 Walnut St., Burlingame.
 Architect—James H. Mitchell, 369 Pine St., San Francisco.
 Contractor—C. H. Bessett Bldg. Co., 326 Walnut St., San Mateo.
 Filed June 13, '33. Dated June 12, '33.
 As work progresses.....
TOTAL COST, \$10,948
 Bond, \$10,948. Surety, Massachusetts Bonding & Insurance Co. Limit, 90 working days. Forfeit, none. Plans and specifications, none.

SAN FRANCISCO UNDER \$1000

ALTER store, \$900; 486 Ellis St.; owner, Packard & Lurner, 436 Ellis St.
ALTER dwelling, \$100; 363 20th Ave.; owner, F. Stotzer, 363 20th Ave.
REPAIR fire damage to shop, \$300; 234 12th St.; owner, La Grande Laundry Co., % Engineer; engineer, J. E. Krafft & Sons, Phelan Bldg.; contractor, D. O'Neill, 273 Minna St.
ALTER dwelling, \$500; 399 Naples St. owner, L. Vuglizzi, Premises.
SIGN, cloth, \$19; 2 Valencia St.; owner, S. A. Scherer, Prem.; contractor, De Vaux Sign Co., 27 Polk St.
SIGN, electric, \$300; 5515 Geary St.; owner, Maack & Saunders, Prem.; contractor, Pioneer Electric Co., 2128 Market St.
SIGN, electric, \$100; Johnson Ave. and Geary St.; owner, The Texas Co., Premises; contractor, QRS Neon Corp., Ltd., 690 Potrero Ave.
SIGN, electric, \$100; 3269 Mission St.;

owner, B. Fox, Premises; contractor, QRS Neon Corp, Ltd., 690 Potrero Ave.
ALTER apartments, \$425; 1048 Union St.; owner, Capital Co., 625 Market St.; contractor, Langfelder & Schuster.
SIGN, electric, \$300; 1551 Mission St.; owner, Lynch Bros., Premises; contractor, Pioneer Elec. Co.; 2128 Market St.
SIGN, electric, \$200; 1234 Pine St.; owner, Lawrence, Woods, Prem.; contractor, QRS Neon Corp., Ltd., 690 Potrero Ave.
ALTER stores, \$600; 4150 18th St.; owner, Mr. Gunn, 2048 Market St.; contractor, Ira W. Coburn, 2048 Market St.
ALTER dwelling, \$800; 38 Bay View St.; owner, Delano, Premises.
SIGN, electric, \$125; 1600 Eddy St.; owner, Dutch Lunch, Prem.; contractor, American Elec. Sign Co., 1740 Eddy St.
ALTER store, \$475; 2643 San Bruno Ave.; owner, M. Briosotti, 2643 San Bruno Ave.; contractor, J. Kuslich, 650 Brussels St.
STUCCO dwelling, \$150; 174 Clipper St.; owner, A. Fewings, Prem.
SIGN, electric, \$100; 1815 Irving St.; owner, J. Behrens, 1815 Irving St.; contractor, QRS Neon Corp., Ltd.; 690 Potrero Ave.
SIGN, electric, \$150; 129 Oak St.; owner, Oak St. Garage, Premises; contractor, Pioneer Electric Co., 2128 Market St.
GARAGE, private, \$200; 35 Ledyard St.; owner, V. Galetti, Premises.
CHIMNEYS (4) patent, \$150; 689 14th St.; owner, J. J. Barry, Prem.; contractor, Frank Murphy, 3119 Harrison St.

ALAMEDA COUNTY UNDER \$1000

ADDITION, \$125; 1151 Elmhurst Ave., Oakland; owner, D. Maggiora, 1151 Elmhurst Ave.
FIRE repairs, \$282; 304 E-18th St., Oakland; owner, W. R. Jurgewitz, 1324 E-13th St.; contractor, W. F. Lynn, 1037 Ashmount Ave.
GARAGE, one-story, \$75; 2366 E-21st St., Oakland; owner, T. J. Morgan, 1618 72nd Ave.
FIRE repairs, \$250; 232 Grove St., Oakland; owner, N. Christophoson, 2321 Grove St.; contractor, Geo. A. Mayer.
SHED, one-story, \$480; Foot of Adeline St., Oakland; owner, Oakland Scavenger Co., 20th and Peralta Sts.; contractor, A. T. Leckett, 244 Scenic Drive, Piedmont.
ALTERATIONS ad addition, \$90; 2166 E-24th St., Oakland; owner, Mrs. J. F. McCarthy, Premises.
ALTER dwelling, \$750; 25 Redding Place, Oakland; owner, F. E. Wixon, Premises.
SHED, 1-story, \$100; 5873 San Pablo Ave., Oakland; owner and builder, Carl Penther, 1112 Stanford Ave., Oakland.
ALTERATIONS, \$325; 1416 Neilson St., Berkeley; owner, M. Meretti, 1416 Neilson St., Berkeley; contractor, Chas. Marietti, 1201 Stauage Ave., Berkeley.
ALTERATIONS, \$75; 2215 Rose St., Berkeley; owner and contractor, A. H. Smith, 2215 Rose St., Berkeley.
ALTERATIONS, \$200; 2112 McKinley Ave., Berkeley; owner and contractor, E. M. Grady, 2112 McKinley Ave., Berkeley.
LOCKER room, 1-story and 1-story office and storeroom, \$500 each; Parr Terminal Wharf, Oakland; owner and builder, Bridge Builders, Inc., 155 Sansome St., San Francisco.
ALTER for store, \$200; 3613 Park Blvd., Oakland; owner and contractor, Mrs. N. Newman, 3618 Park Blvd., Oakland.

BUILDING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

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| 1.—Apartments | 11.—Ice and Cold Storage Plants |
| 2.—Bonds | 12.—Power Plants |
| 3.—Churches | 13.—Public Buildings, Fire Houses and Jails |
| 4.—Factories and Warehouses | 14.—Residences |
| 5.—Flats | 15.—Schools |
| 6.—Garages and Service Stations | 16.—Banks, Stores and Offices |
| 7.—Federal Buildings | 17.—Theatres |
| 8.—Club Buildings | 18.—Wharves & Decks |
| 9.—Hospitals | 19.—Misc. Const. |
| 10.—Hotels | 20.—Misc. Supplies & Materials |

1—APARTMENTS

Additional Sub-Contracts Awarded.
APARTMENTS Cost, Approx. \$13,000
SAN FRANCISCO. Union and Octavia Streets.
 Three-story and basement frame and stucco apartments (5 4-room apts.) tile and composition roof, gas steam heating system, hardwood floors and trim, tiled baths, electric refrigeration, etc.
 Owner—E. J. Pierron.
 Architect—Fabre & Hildebrand, 110 Sutter St., San Francisco.
 Contractor—DeLuca & Sons, 320 Market St., San Francisco.
Plastering—Piconi Constr. Co., Ltd., 63 Gilbert St., San Francisco.
Oak Floors—Oak Floor Co., 325 Arlington St., San Francisco.
Mill Work—Harder Planing Mill, 2845 Oakdale St., San Francisco.
Stairs—Di Cristina & Son, 3150 18th St., San Francisco.
Tile Work—Art Tile & Mantel Co., 221 Oak St., San Francisco.
Roofing—D. Paoli.
 Other awards reported June 6.

Contract Awarded.
ALTERATIONS Cost, \$8000
OAKLAND. Alameda Co., Cal. No. 1433 Lakeshore Blvd.
 Alterations and additions to apartments.
 Owner—John Souza, 1438 Lakeshore Blvd., Oakland.
 Architect—Not Given.
 Contractor—Mervin P. Rose, 6329 Shattuck Ave., Oakland.

2—BONDS

BOND ELECTION

SEAL BEACH, Orange Co., Cal.—The Seal Beach Elementary School District has called an election for June 19 for the purpose of voting on a \$65,000 bond issue for the erection of a new school building to replace the structure damaged by the recent earthquake. The proposed building will be a one-story structure, containing 10 classrooms, kindergarten, library, administrative offices and auditorium. Marsh, Smith and Powell, 816 W 5th St., Los Angeles, architects. 2

BONDS DEFEATED

HUNTINGTON PARK, Los Angeles Co., Cal.—Huntington Park voters defeated a \$100,000 bond issue at the June 6 election. Proceeds were to have been used for the construction of a new city hall. 2

LOS ANGELES, Cal.—The Reconstruction Finance Corp. submitted the only bid to the Metropolitan Water District June 9 for the purchase of an \$8,064,000 block of Colorado River Aqueduct bonds. The bid was taken under advisement.

LONG BEACH, Los Angeles Co., Cal.—The Long Beach Board of Education is considering plans for holding a bond election to provide funds for rehabilitation of all city schools. The only other means of financing the work is through a Reconstruction Finance Corporation loan.

3—CHURCHES

Plans Being Figured—Bids Close June 24.

RECTORY Cost, \$70,000
LOS ANGELES, Los Angeles Co., Cal. No. 114 E. Second Street.

Four-story Class A reinforced concrete rectory (31 rooms), 94x76 ft. tile covered reinforced concrete roof, metal roof vents, ornamental iron, fire escapes, mastic concrete stairways, electric elevator, dumbwaiter, reinforced concrete vault cement waterproofing, structural steel heating and ventilating systems, incinerator, etc.

Owner—Roman Catholic Diocese of Los Angeles and San Diego.
 Architect—Ross Montgomery, 3328 Amesbury Road, Los Angeles.

4—FACTORIES & WAREHOUSES

Concrete Contract Awarded.
WAREHOUSE Cost, \$4500
SAN JOSE, Santa Clara Co., Calif. Park and McAvoy Streets.

Two-story frame and stucco warehouse (120x51 ft.) concrete floor, stucco exterior, tar and gravel roof.

Owner—D. Schiro, premises.
 Plans by C. S. Cismond, 323 Josefa St., San Jose.
Concrete—Clarence M. Kerr, 926 No. First St., San Jose.
 Other portions of the work will be sub-let by the owner.

Electrical Contract Awarded.
REMODELING Cost, \$16,000
EUREKA, Humboldt Co., Cal. Broadway.

Remodel brewery (repaint, clean and replace some brick work, recondition machinery, installation of new machinery, steel and wood tanks, new bottle house equipment, new electrical equipment, new wiring, switchboard and motors, etc.; capacity of 70,000 to 100,000 barrels per year).

Owner—Humboldt Brewery Co. (H. C. Howe, President; G. H. Mullin, et al, 5th floor, Ruse Building, San Francisco).

Architect—Not Given.
 Contractor—Barrett & Hiip, 918 Harrison St., San Francisco.
Electric—Baker & Crosby, Eureka.

June 10, 1933
 Steel and Lumber Contracts Awarded
REMODEL Cost, \$10,000
SANTA ROSA, Sonoma Co., Cal.
 Remodel Class C winery (new roof, machinery and equipment).
 Owner—Grace Bros., Santa Rosa.
 Engineer—L. H. Nishkian, 525 Market St., San Francisco.
 Machinery and equipment will bring

the cost of improvement to \$40,000.
Structural Steel—Judson Pacific Co., 609 Mission St., San Francisco.
Lumber—Hammond Lumber Co., Alaska Commercial Bldg., S. F.

LOS ANGELES, Cal.—General Cable Corp., J. C. Pyle, manager of the Los Angeles branch, 939 E 4th St., will erect a cable manufacturing plant in Los Angeles in which the copper cable for the Los Angeles Water & Power Bureau's Boulder Canyon transmission line will be manufactured. The plant will be a permanent Los Angeles industry and will be located in the city on a site to be announced in about 30 days. The General Cable Corp. was awarded a contract by the Water and Power Bureau on June 7 for furnishing cable for the transmission line, which will consist of six cables 271 miles long.

Planned.
BREWERY Cost, \$90,000
MEDFORD, Oregon.
 New brewery.
 Owner—Southern Oregon Brewing Co. Medford.

Architect—Not Given.
 Members of the company are: Geo. W. Porter, Max Ge Bauer and Ted. Ge Bauer.

Construction Started.
WINERY Cost, \$—
ST. HELENA, Napa Co., Cal.
 Winery (22,000 sq. ft. floor space) reinforced concrete columns and lentils with panels filled with concrete blocks, concrete and structural steel roof, etc.
 Owner—L. M. Martini, Kingsburg and St. Helena.
 Engineer and Supt. of Const.—Lewis Nelson.

June 14, 1933
 Being Done by Day's Work by Owners
WAREHOUSE, ETC. Cost, \$—
OAKLAND, Alameda Co., Calif. Parr Terminal.
 Field office & warehouse (rough construction).
 Owner—Bridge Builders Inc., 155 Sansome St., San Francisco.
 Plans by Engr. Dept. of Owner.
 Work is under way by owner's own forces.

Contract Awarded.
WAREHOUSE Cost, \$5000
SAN FRANCISCO. S Folsom St. 152 E Spear St.
 Two-story Class C reinforced concrete warehouse (40x50 ft.) composition roof, concrete floors, metal sash, etc.
 Owner—Federated Metals Corp., 75 Folsom St., San Francisco.
 Engineer—Ellison & Russell, Pacific Bldg., San Francisco.
 Contractor—Barrett & Hiip, 918 Harrison St., San Francisco.

Additional Contracts Awarded.
REMODEL Cost, \$10,000
SANTA ROSA, Sonoma Co., Cal.
 Remodel Class C winery (new roof, machinery and equipment).
 Owner—Grace Bros., Santa Rosa.
 Engineer—L. H. Nishkian, 525 Market St., San Francisco.

Machinery and equipment will bring the cost of improvement to \$40,000.
Reinforcing Steel—Gunn, Carle & Co., 20 Potrero Ave., San Francisco.
Steel Bolts and Plates—Fair Mfg. Co., 617 Bryant St., San Francisco.
Redwood Tanks—Hammond Lumber Co., Alaska Commercial Bldg.,

San Francisco.

As previously reported, structural steel awarded to Judson Pacific Co., 609 Mission St., S. F.; lumber to Hammond Lumber Co., Alaska Commercial Bldg., San Francisco.

Foundation Contract Awarded.

PLANT Cost, \$—
OAKLAND, Alameda Co., Calif.

One-story plant for hatching concrete (work involves timber structure, concrete work, steel work, machinery, installation of machinery, weighing apparatus, electric work, water and air lines and compressors).

Owner—Concrete Products Sales Co., 1522 Latham Square Bldg., Oakland.

Plans by Engr. Dept. of Owner.

Foundations—A. W. Kitchen, 110 Market St., San Francisco, at approximately \$9,000.

5—FLATS

June 9, 1933

Contract Awarded.

FLATS Cost, \$6000
SACRAMENTO, Sacramento Co., Cal.
2536 16th Street.

Two-story frame and stucco flats (9 rooms).

Owner—R. R. Swaney.

Architect—Not Given.

Contractor—Long & Artz, premises (1771) 5

Sub-Bids Being Taken.

FLATS Cost, \$9000
SAN FRANCISCO, Jersey and Church Streets.

Two-story and basement frame and stucco flats (2 5-room flats) Pabco roof, steam heating system, canvas walls and ceilings, tiled baths, electric refrigeration, hardwood floors, etc.

Owner—T. Wall.

Private Plans.

Contractor—Robert McCarthy, 1363 14th Ave., San Francisco.

Sub-bids are wanted on all portions of the work.

Contract Awarded.

FLATS Cost, \$10,000
SAN FRANCISCO, Taraval St. near 24th Avenue.

Two-story and basement frame and stucco flats (two 7-room flats) tile and composition roof, gas heating system, hardwood floors, tiled baths, etc.

Owner—James E. Bush.

Architect—Sydney A. Colton, 544 Market Street.

Contractor—H. H. Isaac, 1733 Page Street.

Sub-Contracts Awarded.

FLATS Cost, \$9000
SAN FRANCISCO, Jersey and Church Streets.

Two-story and basement frame and stucco flats (2 5-room flats) Pabco roof, steam heating system, canvas walls and ceilings, tiled baths, electric refrigeration, hardwood floors, etc.

Owner—T. Wall.

Private Plans.

Contractor—Robert McCarthy, 1363 14th Ave., San Francisco.

Lumber—Sudden Lumber Co., Evans and Quint Sts., San Francisco.

Concrete—D. O'Connor & Son, 1367 25th Ave., San Francisco.

Roofing—James Reilly, 20 Isabel St., San Francisco.

6—GARAGES & SERVICE STATIONS

Sub-Contracts Awarded.

GARAGE Cost, \$35,000
SAN FRANCISCO, N Bush St. 106-3 W Webster St.

Three-story Class B concrete garage (75x127 ft.); concrete floors, 5-year tar and gravel roof, etc.

Owner—Siri Brothers.

Architect—H. C. Baumann, 251 Kearny St., San Francisco.

Contractor—Vannucci Bros. Constr. Co., 1875 San Bruno Ave., San Francisco.

Electric and Ventilating—W. B. Baker & Co., 15 Harriet St., San Francisco.

Lumber—Sudden Lumber Co., Evans and Quint St., San Francisco.

Reinforcing Steel—W. C. Hauck & Co., 280 San Bruno Ave., S. F.

As previously reported, glass awarded to W. P. Fuller & Co., 301 Mission St., San Francisco.

Sub-bids are being taken on plumbing, miscellaneous iron, roofing, sheet metal, painting, etc., except rough and finish carpentry and concrete work which will be done by the general contractor.

SUNNYVALE, Santa Clara Co., Cal.

Following have procured plans for the purpose of submitting bids to the Bureau of Yards and Docks, Navy Department, Washington, D. C., on June 28 for a gasoline filling station at the Naval Air Station, Sunnyvale. Spec. No. 7301. Work involves concrete and asphalt macadam pavements, concrete construction, tile and built-up roofing, piping and accessories for gasoline supplies:

E. T. Lesure, 87 Ross Circle, Oakland.

Herman Lawson, 465 Tehama St., San Francisco.

Crane Co., 61 New Montgomery St., San Francisco.

Clinton Stephenson Const. Co., 550 Montgomery St., San Francisco.

Dinwiddie Const. Co., Crocker Bldg. San Francisco.

Scott Co., 243 Minna St., San Francisco.

J. F. Hunt, 7 Front St., San Francisco.

Vance M. Brown, 1226 Middlefield Road, Palo Alto.

K. E. Parker Co., 135 South Park, San Francisco.

Theo. Johanns, 2020 15th St., San Francisco.

George Peterson, San Leandro.

Baldwin & Butler, 620 Cragmont Ave., Berkeley.

Leroy Eldg. Service, 165 Jessie St., San Francisco.

H. C. Miller, Santa Clara.

Merco Nordstrom Valve Co., 2431 Peralta St., Oakland.

Pacific Truck Service, 646 Park Ave. San Jose.

F. W. Snook, 536 Clay St., San Francisco.

Carl N. Swenson, 355 Stockton Ave., San Jose.

Neves & Harp, Santa Clara.

7—FEDERAL BUILDING

WASHINGTON, D. C.—Until July 10, 2 P. M., bids will be received by Treasury Department, Washington, D. C., for furnishing and installing interior lighting fixtures in the U. S. post office at Porterville, Cal. Plans and specifications available from the above office.

WASHINGTON, D. C.—W. G. Clark 408 Aurora Ave., Seattle, Wash., at \$1,234 (bronze) and \$922 (steel) submitted low bid to Treasury Department for a new entrance on First Avenue to the U. S. Federal Building, Seattle. Complete list of bids published June 8.

Preparing Working Drawings.

POST OFFICE Cost, \$100,000
HAYWARD, Alameda Co., Cal. NE Watkins and C Streets.

One-story and basement Class A concrete and brick Post Office.

Owner—United States Government.

Architect—Bliss & Fairweather, Balboa Bldg., San Francisco.

Preliminary Plans Approved.

POST OFFICE Cost, \$175,000
SALINAS, Monterey Co., Cal. Block bounded by Lincoln, Church, Howard and Allisul Sts.

One-story and basement Class B concrete Post Office (60x160 ft).

Owner—United States Government.

Architect—O'Brien Bros. and W. L. Peugh, 333 Montgomery St., San Francisco.

Working drawings will be started within one week.

ALHAMBRA, Los Angeles Co., Cal.

—Architect John Walker Smart, 39 E. Main St., Alhambra, has been authorized to proceed with working drawings for the new United States Post Office to be erected on South Garfield Ave., Alhambra. The sum of \$175,000 is available for the structure.

WASHINGTON D. C.—As previously reported, Walter G. Warren Co., 363 E Ohio St., Chicago, at \$713 submitted low bid June 8 to the Treasury Department, Office of the Supervising Architect, Washington, D. C., for furnishing and installing interior lighting fixtures at the U. S. post office, etc., at Redlands, Calif.

Complete bids follow:

W. G. Warren Co., Chicago.....\$713.15
E. P. Snyder Elec. Contractor, Redlands 720.00
H. A. Framberg & Co., Chicago 740.00
Horn & Brannen Mfg. Co.....1158.63

WASHINGTON D. C.—As previously reported, H. A. Framberg & Co., Chicago, at \$795 submitted low bid June 8 to Treasury Department, Office of the Supervising Architect, for furnishing and installing the interior lighting fixtures at the U. S. post office at Oroville, Cal.

Complete bids follow:
H. A. Framberg & Co., Chicago.\$795
Edwin F. Guth Co., St. Louis..... 826
W. G. Warren Co., Chicago..... 859

WASHINGTON, D. C.—Until 2 P. M., June 28, bids will be received by the Treasury Department, Office of the Supervising Architect, Washington, D. C., for furnishing exterior lighting fixtures for Federal buildings at various locations. Plans may be obtained from the architect in Washington.

LOS ANGELES, Cal.—The Treasury Department has under consideration plans for moving the present Los Angeles Federal Building to a new site immediately north of the present location, instead of razing the structure. The supervising architect in Washington has instructed the regional engineer in Southern California to start an immediate investigation of the feasibility of such a plan and to obtain estimates of the probable cost. Unofficial estimates would not exceed \$1,000,000.

Supplemental Bids Being Taken—To Close July 14.

POST OFFICE Cost, \$113,400
MARSHFIELD, Oregon.
Two-story and basement Class A Post Office (112x65 feet) (red brick exterior).

Owner—United States Government.
Architect—Johnson & Wallwork, U. S. Bank Bldg., Portland, Oregon.

On previous bid opening lowest bid was submitted by McCarthy Bros. Construction Co., Roosevelt Bldg., St. Louis, at \$120,720.

WASHINGTON, D. C. — As previously reported, J. W. Rollinson, 1202 N. 46th St., Seattle, Wash., at \$4395 submitted low bid to Treasury Department for waterproofing exterior walls, pointing and patching stonework at the Federal and Territorial Building at Juneau, Alaska. Following bids received:

J. W. Rollinson, Seattle, Wash.....\$4395
Grohne Concrete Products Co.,
Decatur, Ill. 4900
Gotham Metal Weatherstripping
Co., New York City..... 9400
Bids held under advisement.

WASHINGTON, D. C. — Until July 17, bids will be received by the Treasury Department, Washington, D. C., for the construction of a quarantine station at Los Angeles. Appropriation, \$63,000. Further details will be announced shortly.

PT. TOWNSEND, Wash.—Until 3 P. M., June 27, bids will be received by the Treasury Department, Office of the Supervising Architect, Washington, D. C., for the construction of a quarantine station, boat basin and gracing at Port Townsend, Wash.

SUNNYVALE, Santa Clara Co., Cal.—Following have procured plans for the purpose of submitting bids to the Bureau of Yards and Docks, Navy Department, Washington, D. C., on June 28 for landscaping at the Naval Air Station, Sunnyvale. Specification No. 7255:

Leonard Coates Company.
J. F. Hunt, 7 Front St., San Francisco.
E. Lavala.
Walter A. Hoff, 526 Powell St., San Francisco.
California Nursery, Niles, Calif.
Peterson Bros., Hayward.
Louis Smaus.
R. G. Kann.
Chas. A. Navlet Co., 423 Market St., San Francisco.

Preparing Sketches.
POST OFFICE Cost, \$105,000
LODI, San Joaquin Co., Cal.
One-story and basement Class A brick and steel post office.
Owner—United States Government.
Architect—S. Heiman, 605 Market St., San Francisco.

Sketches will be completed in about two weeks and forwarded to Washington, D. C., for approval.

SUNNYVALE, Santa Clara Co., Cal.—Following bids received by the Public Works Officer, 12th Naval District, San Francisco, for window shades, Venetian blinds, drape bars and curtain rods at the Naval Air Station, Sunnyvale. Specification No. 7327. Work includes provision and installation of window shades and guides, wood slatted Venetian blinds, drapery bars and curtain rods for windows, doors, transoms and openings.

D. N. & E. Walter, 562 Mission St., San Francisco, \$2,284.20.
Sherman Co., Palo, Alto (window shades) \$1,469.55; (blinds), \$857.68.
L. Lyon & Son, San Francisco, \$2,158.63; Alt. 1, \$2,158.63; Alt. 2, \$2,273.63.

Bids held under advisement.

SUNNYVALE, Santa Clara Co., Cal.—Fred. W. Snook, 596 Clay St., San Francisco, at \$2,620 submitted the low bid to Public Works Officer, San Francisco, for addition to heating facilities in Bids. No. 19 and No. 10 at the Naval Air Station, Sunnyvale; Spec. No. 7245. Work involves provision and installation of gas fired steam boiler together with necessary piping, fittings, appliances, appurtenances, pipe covering, boiler foundations, etc., for barracks building No.

19 and unit heaters and cast iron radiators, piping, accessories, fittings, etc., for additional heating facilities in helium re-purification plant, Bldg. No. 10.

Following bids received:
F. W. Snook, San Francisco.....\$2,620
Herman Lawson, S. F..... 3,588
E. Sugarman, S. F..... 3,590
Scott Co., S. F..... 3,595
Bids held under advisement.

SAN FRANCISCO.—Date of opening bids has been postponed indefinitely in connection with the extension of sewers, water mains, roads, sidewalks and underground electric light distributing line for nine officers quarters at Fort Mason.

Bids were scheduled to be opened June 15 by the Constructing Quartermaster, Fort Mason.
(1552) 1st report May 19; 3rd, June 1, 1933. 7

WASHINGTON, D. C.—W. M. Wolf, Cordova, Alaska, at \$2,125 awarded contract by Treasury Department for interior lighting fixtures for the U. S. post office at Cordova, Alaska. 7

MARCH FIELD, Riverside, Calif.—Date of opening bids has been postponed indefinitely in connection with the construction of the officers' mess building at March Field, for which bids were scheduled to be opened on June 14 by the Constructing Quartermaster, March Field.
(1604) 1st report May 24; 3rd, June 8, 1933. 7

WASHINGTON D. C.—As previously reported, Pacific Painting and Decorating Co., 5414 Telegraph Avenue, Oakland, at \$1,789 submitted low bid to Treasury Department for painting the plaster, etc., in the U. S. post office building at Berkeley, Calif. The following is a complete list of bids: Pacific Painting & Decorating Co.

Oakland\$1,789
H. J. McKinley, Beverly Hills..... 1,840
K. P. Paoli, San Francisco..... 2,210
Patterson Bros., Berkeley..... 2,385
Bids held under advisement.
(1505) 1st report May 15; 4th, June 7, 1933. 7

WASHINGTON, D. C.—The Cincinnati Fly Screen Co., Cincinnati, O., at \$489 submitted low bid to Treasury Department for furnishing and installing insect screens in the U. S. post office at Caldwell, Idaho. Following bids received:

Lindgard Bros., Berkeley..... 2,400
Cincinnati Fly Screen Co., Cincinnati, Ohio\$489
Watson Mfg. Co., Inc., Jamestown, New York 491
Ceco Weatherstrip Co., Chicago..... 670
Orange Screen Co., Maplewood,
New Jersey 720
Johnson Metal Prod. Co., Washington, D. C. 797
Chamberlin Metal Weatherstrip Co., Detroit, Mich. 821
Bids held under advisement. 7

SAN FRANCISCO.—All bids rejected June 6 by Construction Division, Army Dept., Washington, D. C., for sewer extension, water main extension, roads, sidewalks and electric pole line for eleven double Non-Commissioned Officers' Quarters at Fort Winfield Scott, for which low bids were submitted May 16 by Fred W. Snook, 596 Clay St., San Francisco, at \$830 for sewer extension and at \$1278 for water main extension; by J. S. Heilmann, 2703 21st St., San Francisco, at \$3435 for road extension, sidewalks, etc.; and by G. H. Armstrong Electric Co., 2890 Howard Street, at \$474 for extension to electric pole line.

WASHINGTON, D. C.—Until July 12, 3 P. M., bids will be received by the Treasury Department, Washington, D. C., for the construction of the U. S. post office at Big Springs, Tex. Plans and specifications are available from above office upon deposit of \$25.

Bids Rejected.
HDQTRS. BLDG. Cost, \$40,000
SAN RAFAEL, Marin Co., Cal. Hamilton Field.

Concrete and hollow tile headquarters building (177 ft. long, 2-story center) tile roof, Spanish Mission style.

Owner—United States Government.
Plans by Constructing Quartermaster, Hamilton Field.

Complete list of bids published May 25.

WASHINGTON, D. C.—As previously reported, Pacific Painting & Decorating Co., 5414 Telegraph Ave., Oakland, Calif., at \$1789 submitted low bid to Treasury Department for painting the plaster, etc., in the U. S. Post Office Building at Berkeley, Calif. Complete bids follow:
Pacific Painting & Decorating Co., Oakland\$1789
H. J. McKinley, Beverly Hills..... 1840
R. P. Paoli & Co., San Francisco 2210
Patterson Bros., Berkeley..... 2385
Lindgard Bros., Berkeley..... 2400
Bids held under advisement.

MARCH FIELD, Riverside Co., Cal.—All bids rejected by Construction Division, Army Dept., for construction of medical detachment barracks and hospital contagious wards at March Field.

George Mitty, 134 N. Ave. 29, Los Angeles, submitted low bid at \$29,975, March 22. Complete bids were published March 24.

WASHINGTON, D. C.—Date of opening bids has been postponed indefinitely in connection with the construction of electrical distribution system and transformer vaults, for which bids were scheduled to be opened on June 26 by the Constructing Quartermaster, Rockwell Field.

WASHINGTON, D. C.—Walter G. Warren Co., 363 E. Ohio St., Chicago, Ill., at \$713 submitted low bid June 8 to Treasury Department, Office of the Supervising Architect, Washington, D. C., for furnishing and installing interior lighting fixtures at the U. S. Post Office, etc., at Redlands, Calif. Complete bids will be published shortly.

WASHINGTON, D. C.—A. Framburg, at \$795 submitted low bid June 8 to Treasury Department, Office of the Supervising Architect, for furnishing and installing interior lighting fixtures at the U. S. Post Office at Oroville, Butte Co., Cal.

Second low bid submitted by Edwin S. Guth Co., at \$826.
Complete bids will be published in an early issue.

ENID, Okla.—Until 3 P. M., July 12, bids will be received by the Treasury Department, Office of the Supervising Architect, Washington, D. C., for extension and remodeling of the United States Post Office at Enid, Okla. Plans may be obtained from the architect in Washington, D. C., upon deposit of \$25. Cost, \$140,000.

VENTURA, Cal.—The Treasury Department, will readvertise for bids for the United States Post Office to be erected in Ventura. North-Moller Co., Jackson, Mich., submitted low bid at \$147,789 on March 24. Harold E. Burket, 455 E. Main St., Ventura, architect.

PORTLAND, Oregon—Until Wednesday, June 21, bids will be received by the Treasury Department, Division of Supply, Washington, D. C., for furnishing 245 Venetian blinds for the Portland Post Office; Proposal 8693.

Bid Opening Postponed Indefinitely. MAINTENANCE BLDG. Cost, \$—
SAR KAFANEL, Marin Co., Cal. Hamilton Field.

One-story structural steel and concrete maintenance utility shop (68x123.6 feet) asbestos protected metal roof.

Owner—United States Government. Plans by Constructing Quartermaster, Hamilton Field.

Work involves taking down structural steel from hangar at Mather Field for use in building.

Bids were scheduled to be opened June 21 by the Constructing Quartermaster, Hamilton Field.

8—CLUB BUILDINGS

Plans To Be Prepared. LODGE BLDG. Cost, \$200,000
SACRAMENTO, Sacramento Co., Cal. Ninth and K Streets.

New lodge building. Owner—I. O. O. F. (G. W. McKay, chairman of the building committee), 9th and K Sts., Sacramento.

Architect—Not Selected. Sketches are being received from three architects and a selection will be made within two weeks.

Bids Opened. LODGE BLDG. Cost, \$45,000
FRESNO, Fresno Co., Calif. Tuolumne St. and Van Ness Ave.

Two-story stucco and tile lodge building (auditorium to seat 800, 2 secondary lodge rooms, banquet hall to seat 800, clubrooms, ballroom, lighting and ventilating system, etc.; replace lodge building destroyed by fire).

Owner—Woodmen of the World (Jas. Nielsen, clerk) Fresno. Architect—E. J. Kump, Rowell Bldg., Fresno.

Low Bidder—W. J. Ochs, American Trust Company Bldg., San Jose.

Following is a complete list of bids:
W. J. Ochs, San Jose.....\$43,117
F. J. Reilly, San Francisco..... 43,479
T. C. Irwin, Fresno..... 43,510
W. T. Harris, Fresno..... 44,892
Hodgson & Sons, Porterville..... 45,457
Wm. Spivock, San Francisco..... 45,800
M. B. Folsom, Merced..... 46,815
J. D. Shorb, Fresno..... 47,999
Bids held under advisement until June 20.

9—HOSPITALS

Planned. HOSPITAL ADDN. Cost, \$—
STOCKTON, San Joaquin Co., Calif. State Hospital.

Addition to hospital (to accommodate 65 patients).

Owner—State of California. Architect—Geo. B. McDougall, State Architect, Public Works Building, Sacramento.

STOCKTON, San Joaquin Co., Cal.—Until June 26, 11 A. M., bids will be received by Eugene D. Graham, county clerk, to furnish and install water tube boiler at the San Joaquin General Hospital near French Camp. Specifications prepared by W. Y. Trathaway, county purchasing agent and are available upon deposit of \$10.

Date of Opening Bids Postponed Until Aug. 16th, 2:30 P. M. PSYCHOPATHIC BLDG. Cost, \$—
SAN FRANCISCO, Potrero Ave. and

Twenty-second Street. Five-story Class A steel frame and reinforced concrete psychopathic institute building (tar and gravel roof, steam heating system to connect to main plant, etc.)
Owner—City and County of San Francisco.

Architect—Alfred I. Coffey and Martin J. Rist, associated, Phelan Bldg. Structural Engineer—H. J. Brunner, Sharon Bldg.

Mechanical Engineer—Hunter & Hudson, 41 Sutter St.

10—HOTELS

Additional Contracts Awarded. IMPROVE HOTEL Cost, \$30,000
STOCKTON, San Joaquin Co., Cal. E Weber Street.

Improvements to hotel (re-decorate entire building, new cooling system, all 30 new shower baths).

Owner—McDonough Estate, % Baldwin and Howell, 318 Kearny St., San Francisco, (W. L. Clark, in charge).

Plumbing—O. H. Chain, 41 S Sutter St., Stockton.

Electric—Con J. Franke, 748 E Weber St., Stockton.

Bids on heating work will be asked shortly.

As previously reported, ventilating system awarded to Atlas Heating and Ventilating Co., 557 Fourth St., San Francisco; shower baths, etc., to O. H. Chain, 41 S Sutter St., Stockton.

Contract Awarded. ALTERATIONS Cost, \$1900
OAKLAND, Alameda Co., Cal. No. 1212 Franklin Street.

Alterations to hotel. Owner—St. Mark Hotel, 12th and Franklin Sts., Oakland.

Architect—F. H. Slocombe, 931 Monte Cresta Ave., Oakland.

Contractor—Glenn Bunker, 953 Ordway St., Berkeley.

Plans Being Prepared. HOTEL-STORE Cost, \$35,000
GALT, Sacramento Co., Calif. Fourth Street.

Three-story Class C reinforced concrete hotel and store building (32 rooms and baths, eight 2-room apts.) composition roof, air cooling system, steam heat, circulating ice water and electric refrigerators; six stores.

Owner—Louis Alderman, 213 4th St., Galt.

Architect—Jens C. Petersen, 826 26th St., Sacramento.

Bids will be asked in about 30 days.

11—ICE AND COLD STORAGE PLANTS

PULLMAN, Washington—Bids will be received by E. O. Holland, President of the State College, Administration Bldg., Pullman, Washington, for refrigeration machinery and insulation, construction of an additional unit to greenhouse, etc. Specifications available from Stanley A. Smith, Department of Architectural Engineering.

12—POWER PLANTS

LOS ANGELES, Calif.—Norton and Norton Electric Co., Ltd., 1375 North Broadway, Los Angeles, at \$96,734.58 submitted low bid June 9 to Metropolitan Water District to construct telephone lines in the Hayfield-Colorado River Section. The work consists of constructing approximately 113 miles of telephone trunk line and 35 miles of telephone bracket line, and the furnishing and installing of 16 telephone terminal assemblies and

two protective assemblies. Newberry Electric Corp. and Quality Elec. Co., Ltd., Los Angeles, second low at \$104,561.60; H. H. Walker, Inc., Los Angeles, third low at \$107,231.04. Only other bid submitted by Osborn Co., Pasadena, and Fritz Ziebarth, Long Beach, at \$110,380.

LOS ANGELES, Cal.—General Cable Corp. awarded contract by A. J. Holm, City Purchasing Agent, June 8, at \$285 per M. ft., or a total of \$2,399,000 to furnish overhead transmission line conductor and appurtenances for the Boulder Canyon transmission line, between Los Angeles and the Boulder Dam, under Spec. No. 3070. The line will be 271 miles in length and consist of double circuit lines involving six cables or 1624 miles. The cable will be hollow of 1.4 inch diameter, of special design as developed by the General Cable Corp. The bids were opened May 24.

LOS ANGELES—Norton & Norton Electric Company, Ltd., 1375 North Broadway, Los Angeles, submitted low bid to the Metropolitan Water District, 306 West 3rd St., Los Angeles, June 9, at \$96,734.58, for constructing telephone lines in the Hayfield-Colorado River Section. The work consists of constructing approximately 113 miles of telephone trunk line and 35 miles of telephone bracket line and the furnishing and installing of 16 telephone terminal assemblies and 2 protective assemblies. The items are:

- (1) constructing 7.8 mi. trunk line from Pole 2092 to Eagle Mtn. Junction;
- (2) constructing 1 mi. trunk line from Eagle Mtn. Junction to Division No. 3 Headquarters Camp Office;
- (3) constructing 15 mi. trunk line from Eagle Mtn. Junction to the Coxcomb Tunnel east of portal tap line;
- (4) constructing 72.4 mile trunk line from Coxcomb Tunnel, east portal tap line to Aarp tap line;
- (5) constructing 16.8 mi. trunk line from Earp tap line to Division No. 1 Headquarters Camp office;
- (6) constructing 35 miles bracket line;
- (7) constructing 14 telephone terminal assemblies (Drawing E-797);
- (8) constructing 2 telephone terminal assemblies (Drawing E-804);
- (9) constructing 2 telephone protective assemblies (Drawing E-688);

The total bids were:
(A) Norton & Norton Electric Co., Ltd., \$96,734.58.
(B) Newberry Electric Co. and Quality Electric Co., Ltd., Los Angeles, \$104,561.60.
(C) H. H. Walker, Inc., Los Angeles, \$107,231.04.
(D) Osborn Co., Pasadena, and Fritz Zeibarth, Long Beach, \$110,380.

The Bids follow:

	(A)	(B)	(C)	(D)
(1)	\$983.38	\$930.90	\$710.00	\$960.00
(2)	1930.60	1578.29	1800.00	1520.00
(3)	755.64	802.08	933.50	860.00
(4)	685.81	751.47	818.35	780.00
(5)	798.93	898.55	770.00	1000.00
(6)	333.81	356.80	361.20	380.00
(7)	43.42	79.11	42.55	100.00
(8)	120.53	159.45	112.35	150.00
(9)	94.11	137.29	121.80	100.00

LOS ANGELES, Cal.—General Elec. Supply Co. awarded contract by S. A. Joseph, Purchasing Agent of the Metropolitan Water District, June 8, to furnish copper cable under Bid No. 11177. All bids were identical at \$9,782.84 f.o.b. Los Angeles, and \$9774.88

f.o.b. Colton. The bidders follow: General Cable Corp., Westinghouse Electric Supply Co., Graybar Electric Co., Phelps-Dodge Copper Products Corp., John Roebling's Sons Co., and General Electric Supply Corporation.

**13—PUBLIC BUILDINGS
FIRE HOUSES & JAILS**

TEHACHAPI, Kern Co., Cal.—Los Angeles Fence Co., 1114 N Orange Ave., Los Angeles, submitted low bid to State Purchasing Department, Sacramento, for fencing at the Tehachapi Jail. Following bids received:

- (1) work complete.
- (2) materials, only, f.o.b. cars.
- (3) installation only.
- L. A. Fence Co., L. A. (1) \$10,000
- Alternate (2) 9,000
- Alternate (2) 7,100
- Alternate (3) 6,100
- Southern Calif. Fence Co., Los Angeles (1) 10,509
- Crown Fence Co., S. F. (1) 11,561
- (2) 6,318
- (3) 3,445
- Anchor Post Fence, S. F. (1) 13,069
- (2) 7,581
- (3) 3,582
- Pacific Fence Co. (1) 13,069
- (2) 7,581
- (3) 3,445
- Standard Fence Co., S. F. (1) 13,330
- (2) 7,782
- (3) 3,635
- California Wire Cloth, S. F. (1) 13,536
- (2) 7,886
- (3) 3,708
- Pacific Fence Co., S. F. (1) 13,853
- (2) 7,997
- (3) 3,784
- Kamlan Fence Co., S. F. (1) 13,863
- (2) 7,997
- (3) 3,784
- Anderson Fence Co., L. A. (1) 13,900
- (2) 8,906
- (3) 2,400
- Michel & Pfeffer, S. F. (1) 14,130
- (2) 8,196
- (3) 3,812
- Western Steel & Fence Co., San Francisco (3) 5,190
- West Coast Wire & Iron Works, San Francisco (3) 5,245
- Modern Iron Works, L. A. (3) 7,046
- Bids held under advisement. (1773) 13

SAN QUENTIN, Marin Co., Cal.—Michel & Pfeffer Iron Works, Harrison and Tenth Sts., San Francisco, at \$3480 awarded contract by State Purchasing Department, Sacramento, for steel sash doors and sash operating devices for cell blocks at the San Quentin Penitentiary.

SAN FRANCISCO—O. Monson, 475 6th St., at \$2346 awarded contract by Department of Public Works for alterations to the fourth floor windows on the Polk Street side of the Civic Auditorium.

Completing Plans.
ADDITION Cost, \$70,000
SACRAMENTO, Sacramento Co., Cal. SE Tenth and I Streets.
Central fire house and two-story addition to City Hall (reinforced concrete construction, flat roof, etc.)
Owner—City of Sacramento.
Architect—Harry Devine, California State Life Bldg., Sacramento.
Bids will be asked shortly.

LIBRARY Cost, \$250,000
BAKERSFIELD, Kern Co., Cal. 17th and K Streets.
New library building.
Owner—County of Kern.
Architect—Chas. H. Biggar, Habersfelde Bldg., Bakersfield.

SAN FRANCISCO—Until July 5, 2:30 P. M., bids will be received by S. J. Hester, Chief Deputy Director, Department of Public Works, for locking device for cell door at the Jail at Sneath Ranch for the City and County of San Francisco. Estimated cost, \$17,000.

14—RESIDENCES

Owner Taking Segregated Bids.
RESIDENCE Cost, \$6000
BERKELEY, Alameda Co., Cal. Euclid Avenue.
One-story rustic residence (6 rooms) shingle roof, gas heating system, hardwood floors, etc.)
Owner—F. W. Peak, 2122 Shattuck Ave., Berkeley.
Architect—E. L. Snyder, 2102 Shattuck Ave., Berkeley.

Segregated Bids Being Taken.
ALTERATIONS, ETC. Cost, \$—
BERKELEY, Alameda Co., Calif. 945 Arlington Avenue.
Concrete garage and additions and alterations to residence (add one room, etc.)
Owner—W. F. Morrish, 945 Arlington Ave., Berkeley.
Architect—Jas. Plachek, Mercantile Bank Bldg., Berkeley.

Sub-Contracts Awarded.
RESIDENCE Cont. Price, \$11,050
PLEDMONT, Alameda Co., Cal. St. James Wood.

Two-story and basement frame and stucco residence (9 rooms and 3 baths); hot air heating system, slate roof, steel sash, hardwood floors, tiled baths, etc.
Owner—A. M. Mejnec.
Architect—W. E. Schirmer, Financial Center Bldg., Oakland.
Contractor—Jensen & Pederson, 3443 Adeline St., Oakland.
Lumber—Sunset Lumber Co., 400 High St., Oakland.
Plumbing—J. A. Fazio, 402 Castro St., Oakland.
Electric—F. W. Parkhurst, 6432 Pinehaven Road, Oakland.
Roofing—General Roofing Co., 3985 Beach St., Oakland.

Contracts Awarded.
ALTERATIONS Cost, \$3000
BERKELEY, Alameda Co., Cal. Location Withheld.

Alterations and additions to two-story frame and stucco residence (interior tile work, plastering, tile roofing, brick work, exterior plaster, hardwood flooring, etc.)
Owner—Alice Dibble.
Architect—Wm. Rich, Orinda.
Plumbing and Heating—Scott Co., 113 10th St., Oakland.
Tile—Rigney Tile Co., 3012 Harrison St., Oakland.
Electric—Scott-Buttner Co., 19 Grand Ave., Oakland.
Lumber—Tilden Lumber Co., Oakland
Sash and Doors—Western Door & Sash Co., Oakland.
Bids are being taken on plastering and roofing.

Preparing Plans.
RESIDENCE Cost, \$—
SAN MATEO, San Mateo Co., Calif. Baywood Park.
1½-story frame and stucco residence (7 rooms, 2 baths) tile roof, gas heating system, interior stucco & canvas, tiled baths and kitchen.
Owner—A. L. Scott.
Architect—Harold Stone, 810 Ulloa St. San Francisco.
Bids will be asked about June 30.

Plans Being Completed.
RESIDENCE Cost, \$—
SAN FRANCISCO, Forest Hill.
Two-story and basement frame and stucco residence (9 rooms and 2

baths) tile roof, warm air heating system, tiled baths and kitchen, interior stucco and canvas, etc.
Owner—M. A. Miller.
Architect—Harold Stoner, 810 Ulloa St.
Bids will be asked about June 15.

Contract Awarded.
RESIDENCE Cost, \$5000
SAN FRANCISCO, W 38th Ave. 180 & Clement St.
One-story and basement frame and stucco residence.
Owner—A. A. Ross, 2663 15th Ave.
Architect—Not Given.
Contractor—C. O. Blincoe, 2663 15th Avenue.

Plans Being Figured—Bids Close June 19th.
ADDITION Cost, \$—
SAN FRANCISCO, Clay Street.
Addition to 2-story frame and stucco residence.
Owner—Not Given.
Architect—Farr & Ward, 68 Post St.
A bid is being taken from one contractor only.

Plans Being Prepared.
RESIDENCE Cost, \$—
SAN FRANCISCO, Forest Hill.
Two-story and basement frame and stucco residence (8 rooms and 3 baths) tile roof, warm air heating system, tiled baths and kitchen, interior stucco and canvas, hardwood floors, etc.
Owner—L. R. Jackson.
Architect—Harold Stoner, 810 Ulloa St., San Francisco.
Bids will be asked about June 30.

Contract Awarded.
RESIDENCE Cost, \$12,000
MT. TAMALPAIS, Marin Co., Cal.
Two-story frame and stucco residence (9 rooms and 3 baths) full tile roof, gas heating system, oak floors, tiled baths, ornamental iron electric refrigeration, etc.
Owner—T. J. Sewell.
Architect—D. E. Jaekle, Call Bldg., San Francisco.
Contractor—Melvin Klyce, 25 Eugene St., Mill Valley.

Sub-Bids Being Taken.
RESIDENCE Cost, \$4000
BURLINGAME, San Mateo Co., Cal.
One-story and basement frame and stucco residence (5 rooms) tile and composition roof, gas heating system, hardwood floors, etc.
Owner and Builder—Chas. Hammer, 1524 Floribunda Ave., Burlingame.
Architect—D. E. Jaekle, Call Bldg., San Francisco.

Plans Being Figured.
ALTERATIONS Cost, \$—
OAKDALE, Stanislaus Co., Cal.
Alterations and additions to frame residence (new heating plant, two baths, wrought iron stairway, hardwood floors throughout, new kitchen, etc.)
Owner—Mr. Brichetto.
Architect—G. N. Hillburn, 1213 I St., Modesto.

Contract Awarded.
RESIDENCE Cost, \$5000
SACRAMENTO, Sacramento Co., Cal. 1321 Vallejo Way.
One-story and basement frame and stucco residence (6 rooms).
Owner—Olga Orland.
Architect—Not Given.
Contractor—N. H. Lund, 2549 6th Ave. Sacramento.

Additional Sub-Contracts Awarded.
RESEIDENCE Cost, \$4600
OAKLAND, Alameda Co., Cal. Trestle Glen Road.
One-story and basement frame and stucco residence (6 rooms) shingle

roof, gas heating system, hardwood floors, tiled baths, etc.
 Owner—Miss H. Johnson.
 Architect — Fabre & Hildebrand, 110 Sutter St., San Francisco.
 Contractor — W. J. Baker, 2255 Ransome St., Oakland.
Painting—C. R. Montgomery, 4526 Pampas St., Oakland.
Cement Work — Allan MacDonald, Oakland.
Sheet Metal and Furnace — Aavaks Heating Co., 2313 Valley Street, Oakland.
Tile Work—Meiring Tile Co., 852 29th St., Oakland.
Shingle Roof—W. L. and W. C. Ridout, 641 Central St., Oakland.

To Be Done By Day's Work.
RESIDENCE Cost, \$5000
 SAN FRANCISCO. S Brentwood Ave. 135 E Maywood St.
 Two-story and basement frame and stucco residence.
 Owner—H. Christensen, 1422 27th Avenue.
 Architect—Chas. Strothoff, 2274 15th Street.

To Be Done By Day's Work.
RESIDENCE Cost, \$5000
 OAKLAND, Alameda Co., Calif. 3245 Millsview Avenue.
 One-story and basement frame and stucco residence (6 rooms).
 Owner and Builder—Home Builders, Inc., 1939 Courtland Ave., Oakland.
 Plans by Owner.

June 10, 1933

Contract Awarded.
RESIDENCE Cost, \$2750
 FRESNO, Fresno Co., Cal. No. 342 D Street.
 Dwelling and garage.
 Owner—Christ Hartman.
 Architect—Not Given.
 Contractor—Adam Haas, 704 Collins St., Fresno.

Plans Being Figured—Bids Close June 21.
RESIDENCE Cost, \$16,000
 OAKLAND, Alameda Co., Cal. Estates Drive and Park Blvd.
 Two-story and basement frame and stucco residence (9 rooms.)
 Owner — Dr. T. E. Reynolds, 1624 Franklin St., Oakland.
 Architect — J. K. Ballantine, 37 Harlan Place, San Francisco.

Sub-Bids Being Taken.
RESIDENCE Cost, \$6500
 OAKLAND, Alameda Co., Calif. 5733 Ross Street.
 One-story and basement frame and stucco residence (6 rooms).
 Owner and Builder—Ernest W. Urch, 1924 50th Ave., Oakland.

Contract Awarded.
ALTERATIONS Cost, \$5000
 SAN FRANCISCO, 210 Spruce St.
 Alterations to residence.
 Owner—Mr. Chalmers.
 Architect—H. H. Gutterson, 526 Powell Street.
 Contractor—D. B. Gladstone, 557 Market Street.

Plans Being Figured.
RESIDENCE Cost, \$7000
 SAN FRANCISCO. St. Francis Wood.
 Two-story and basement frame and stucco residence (7 rooms and 2 baths) tile roof, gas heating system, hardwood floors, tiled baths.
 Owner—Withheld.
 Architect—Chas. Strothoff, 2274 15th Street.

Contract Awarded.
RESIDENCE Cost, \$4000
 SAN FRANCISCO. W Waterville 275 N Thorton Ave.
 One-story and basement frame and stucco residence.

Owner—Lawrence De San Martin, 252 Waterville St.
 Architect—Not Given.
 Contractor—Wm. Byrne, 26 Heyman Avenue.

Sub-Contracts Awarded.
RESIDENCE Cost, \$5000
 BERKELEY, Alameda Co., Cal. Corona Court.
 Two-story frame and stucco residence (6 rooms) shingle roof, gas heating system, electric refrigeration, oak flooring, etc.

Owner and Builder —J. W. Brazier, 607 37th St., Oakland.
 Architect—John Hudson Thomas, 31 Norwood Ave., Berkeley.
Plastering—Giachetto and Marinetti 1209 Derby St., Berkeley.
Plumbing—Suendermann Plbg. Co., 921 University Ave., Berkeley.
Tile—Superior Tile & Products Co., 3742 Broadway, Oakland.
Electric—Rochester Elec. Co., 2138 University Ave., Berkeley.
Chimney—A. B. McMurry, 6326 Broadway, Terrace, Berkeley.

Commissioned To Prepare Plans.
RESIDENCE Cost, \$100,000
 BEL AIR, Los Angeles Co., Cal.
 Two-story wood frame brick and stone residence (17 rooms, 7 baths). slate roof, steel sash, metal roller screens, tile and rubber tile floors, hardwood panelling, leaded and art glass, tennis court, swimming pool with filtration system, etc.
 Owner—Warner Baxter.
 Architect—Harry E. Werner, 357½ N. Beverly Drive, Beverly Hills.

Tile Contract Awarded.
ALTERATIONS Cost, \$7000
 SAN FRANCISCO. No 2910 Lake St.
 Aterations and additions to frame residence.
 Owner—August Fritze.
 Architect—Hyman & Appleton, 68 Post St., San Francisco.
 Contractor—Jacks & Irvine, 74 New Montgomery St., San Francisco.
Tile — Mangrum Holbrook Co., 1235 Mission St., San Francisco.

Contract Awarded.
RESIDENCE Cost, \$8000
 SAN FRANCISCO. Thirtieth Avenue and Fulton Street.
 Two-story frame and stucco residence (8 rooms and 3 baths); tile roof, gas heating system, electric refrigeration, tiled baths, steel sash
 Owner—Evelyn Kearny.
 Architect — D. D. Stone, 110 Sutter St., San Francisco.
 Contractor—Fred Du Puy, 1067 Market St., San Francisco.

To Ask Bids In One Week.
RESIDENCE Cost, \$15,000
 SAN FRANCISCO. Marina Blvd. nr. Fillmore Street.
 Two-story and basement frame and stucco residence (9 rooms and 3 baths); tile and composition roof, gas hot air heating system, tiled baths, oak floors, electric refrigeration, ornamental iron, etc.
 Owner—Capt. D. W. Thomsen.
 Architect — D. D. Stone(110 Sutter St., San Francisco.

Contract Awarded.
ADDITIONS Cost, \$20,000
 PALO ALTO, Santa Clara Co., Calif. Stanford Campus.
 Alterations and additions to 3-story frame and stucco fraternity house (add new third story, alterations and additions to first and second floors, etc.)
 Owner—Phi Delta Theta, 533 Lasuen St., Stanford University.
 Architect—W. E. Huson, 1913 Green St., San Francisco.
 Contractor—Lindgren and Swinerton, Inc., 225 Bush St., San Francisco.

Plans Being Revised.
RESIDENCE Cost, \$10,000
 SAN FRANCISCO. Hill and Sanchez Streets.
 Two-story and basement frame and stucco residence (7 rooms and 2 baths) tile and composition roof, tile work, concrete work, plastering, millwork, glazing, etc.
 Owner—H. L. Gerber, 3701 22nd St.
 Plans by Owner.
 New bids will be asked shortly.

To Ask Bids Within One Week.
RESIDENCE Cost, \$6500
 WALNUT CREEK, Contra Costa Co., Calif.
 One-story frame and stucco residence (8 rooms and 2 baths) asbestos shingle roof, oil burning heating system, hardwood floors, tiled baths, etc.
 Owner—Withheld.
 Architect—Ray Keefer, 770 Wesley Ave., Oakland.

Contract Awarded.
RESIDENCE Cost, \$4500
 OAKLAND, Alameda Co., Cal. No. 3864 Brown Avenue.
 One-story and basement frame and stucco residence (5 rooms).
 Owner—Frank Martini, 4117D Penniman Ave., Oakland.
 Architect—Not Given.
 Contractor — J. H. Armstrong, 1131 Fleet Road, Oakland.

Contract Awarded.
RESIDENCE Cost, \$5000
 SAN JOSE, Santa Clara Co., Cal. No. 1480 Calaveras Ave.
 Two-story frame and stucco residence (7 rooms).
 Owner—Fred Shipp, 1236 Emory St., San Jose.
 Architect—Not Given.
 Contractor—Geo. S. Koehler, Graphic Arts Bldg., San Jose.

Sub-Contracts Awarded.
RESIDENCE Cost, \$30,000
 WOODSIDE, San Mateo Co., Cal.
 Two-story brick veneer residence (16 rooms and 5 baths) slate roof, oil burning hot air heating system, ornamental iron grilles, oak panelling, tiled baths and kitchen, electric refrigeration, etc.
 Owner—Mr. Vonti.
 Architect — Henry H. Gutterson, 526 Powell St., San Francisco.

Contract Awarded.
RESIDENCES Cost, \$2500 each
 BERKELEY, Alameda Co., Cal. Terrace Walk.
 Two one-story frame bungalows (3 rooms each); shingle roof, gas heating, hardwood floors, etc.
 Owner—Miss Mary Lea Shane.
 Architect—Gwynne Officer, 2328 Warring St., Berkeley.
 Contractor — A. Cederborg, 1455 Excelsior Ave., Oakland.

Contract Awarded.
RESIDENCE Cost, \$6500
 SAN FRANCISCO. St. Francis Wood.
 Two-story and hasement frame and stucco residence (7 rooms and 3 baths) English type, slate roof, tiled baths, gas hot air heating system, hardwood floors, leaded glass, some brick veneer, two-car garage, etc.
 Owner—Withheld.
 Architect—Masten & Hurd, 233 Post St., San Francisco.
 Contractor—Henry Papenhausen, 595 Victoria St., San Francisco.
 Following are other bids received in order listed:
 Clinton-Stephenson Constr. Co.
 William Martin.
 Moore & Madsen.

Contract Awarded.

RESIDENCE Cost, \$5800
 BERKELEY, Alameda Co., Cal. San Miguel at Santa Rosa.
 Two-story and basement frame and stucco residence (8 rooms and 2 baths); tile and composition roof, hardwood floors, tiled baths, etc.
 Owner—C. C. Iradfield.
 Architect—Hardman & Russ, Berkeley Bank Bldg., Berkeley.
 Contractor—C. M. Norgrove, 2220 Roosevelt St., Berkeley.

Da. Of Opening Bids Postponed Until June 21st, 11 A. M.

RESIDENCE Cost, \$7000
 SAN CARLOS, San Mateo Co., Cal. White Oaks Tract.

1½-story frame and stucco residence (7 rooms) Johns-Manville roofing, oil burning equipment, steel sash, hardwood floors, mahogany trim, tiled baths, etc.

Owner—W. W. Bradford.
 Architect—Charles McKenzie, Twohy Bldg., San Jose.

Following have procured plans:
 T. N. Gesso, 1201 Vancouver, Burlingame.

J. McDonald, Redwood City.
 Roy Babcock, 72 S 6th St., San Jose.
 J. F. C. Kay, Sunnyvale.

Wm. Caldwell, 1241 Hedding Street, San Jose.

J. E. Perkins, San Jose.
 Fred Nelson, San Jose.

M. W. Reese, 1210 Minnesota St., San Jose.

To Ask Bids June 19.

RESIDENCE Cost, \$15,000
 SAN FRANCISCO, Marina Blvd. nr. Fillmore Street.

Two-story and basement frame and stucco residence (9 rooms and 3 baths) tile and composition roof, gas hot air heating system, tiled baths, oak floors, electric refrigeration, ornamental iron, etc.

Owner—Capt. D. W. Thomsen.
 Architect—D. D. Stone, 110 Sutter St.

Contract Awarded.

RESIDENCE Cost, \$7500
 SAN MATEO, San Mateo Co., Calif. Lot 5 Blk 11, Grinnell.

Two-story frame and stucco residence
 Owner—J. R. Mitchell.
 Architect—Not Given.
 Contractor—Lengfeld & Olund, 220 3rd Ave., San Mateo.

Contract Awarded.

RESIDENCE Cost, \$10,948
 HILLSBOROUGH HGTS, San Mateo Co., Calif.

Two-story and basement frame and stucco residence (11 rooms and 3 baths) wood roof, gas heating system, hardwood floors, tiled baths.
 Owner—Benjamin F. Cator, 831 Walnut St., Burlingame.

Architect—James H. Mitchell, 369 Pine St., San Francisco.

Contractor—C. H. Bassett Bldg. Co., 826 Walnut St. San Mateo.

Sub-Contracts Awarded.

RESIDENCE Cost, \$7500
 SACRAMENTO, Sacramento Co., Cal. 1100 Forty-sixth Street.

Two-story frame and stucco residence (7 rooms).

Owner—W. H. Fingaldo, 2317 Q St., Sacramento.

Architect—Not Given.
 Contractor—Hansen and Sutter, 308 Oakmont Ave., Sacramento.

Concrete—Chas. Goodell, 3325 V St., Sacramento.

Heating and Sheet Metal—Frank Zahl 1615 21st St., Sacramento.

Plumbing—A. W. Sweet, 1436 Del Paso Blvd., Sacramento.

Millwork and Lumber—Sierra Mill & Lumber Co., 201 V St., Sacramento.

Plastering—Joe Wilkening, 3955 12th Ave., Sacramento.

Brick Work—H. E. Christensen, 3401 20th Ave., Sacramento.

Steel Sash—Soule Steel Co., 1750 Army St., San Francisco.

Roofing contract will be awarded shortly.

Sub-Contracts Awarded.

RESIDENCE Cost, \$8225
 SACRAMENTO, Sacramento Co., Cal. Freeport Blvd. and Pine Ave.

Two-story and basement frame and stucco residence.

Owner—Peter Cecearelli.
 Contractor—Hansen and Sutter, 308 Oakmont Ave., Sacramento.

Heating and Sheet Metal—Frank Zahl 1615 21st St., Sacramento.

Plumbing—A. W. Sweet, 1436 Del Paso Blvd., Sacramento.

Millwork and Lumber—Sierra Mill & Lumber Co., 201 V St., Sacramento.

Roofing—Bush Roofing Co., 1912 K St. Sacramento.

Plastering—Joe Wilkening, 3955 12th Ave., Sacramento.

Brick Work—H. E. Christensen, 3401 20th Ave., Sacramento.

Steel Sash—Soule Steel Co., 1750 Army St., San Francisco.

Sub-Contracts Awarded.

RESIDENCE Cost, \$6000
 SAN FRANCISCO, S Beach 232 E Webster St.

Two-story and basement frame and stucco residence.

Owner—P. Dohrmann, 2534 Union St.

Architect—A. B. Talbot, 3060 Pacific Avenue.

Contractor—H. E. Gray, 1646 North Point Street.

Concrete—Bay Concrete Company, 365 Ocean Avenue.

Lumber and Mill Work—Sudden Lbr. Co., Evans and Quint Sts.

Plumbing—Geo. Rehn, 1919 Mission.

Glass—W. P. Fuller & Co., 301 Mission Street.

Plastering—Lee Nix, 4127 Kirkham.

Sub-Contracts Awarded.

RESIDENCE Cost, \$6500
 BERKELEY, Alameda Co., Cal. North Cragmont District.

Two-story frame and stucco residence (6 rooms) tile roof, hot air heating system, hardwood floors, tiled baths, electric refrigeration, etc.

Owner—George Dallas.
 Architect—E. L. Snyder, 2102 Addison St., Berkeley.

Contractor—W. A. Netherby, 3853 Lyman Road, Oakland.

Rough & Finish Lumber—Smith Lbr. Co., 19th and The Estuary, Oakland.

Plumbing—J. A. Fazio, 402 Castro St. Oakland.

Steel Sash—Soule Steel Co., 1750 Army St., San Francisco.

Brick Work—C. M. Goodell, 2836 Minna St., Oakland.

Foundations—Cowell Cement Co., 81 Franklin St., Oakland.

Plaster—P. Richardson, 5216 Proctor, Oakland.

Glass—East Bay Glass Co., 621 6th St., Oakland.

Hardware—B. Simon Bros., 639 Broadway, Oakland.

Sheet Metal and Furnace—Atlas Htg. & Vent. Co., 1451 32nd St., Oakland.

Sub-bids are being taken on inside tile, hardwood floors, finish cement, shades, sewer, brick fence.

Plans Being Figured—Bids Close June 21.

RESIDENCE Cost, \$7500
 BERKELEY, Alameda Co., Cal. Arch Street.

Two-story frame and stucco residence (7 rooms, 2 baths) tile roof, gas hot air heating system, tiled baths hardwood floors, steel sash, etc.

Owner—A. Nainzer.
 Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.

Following is a partial list of the prospective bidders:

Beckett & Wight, 722 Scenic Ave., Berkeley.

F. W. Confer, 5930 Keith Ave., Berkeley.

J. M. Walker, 1709 Grove St., Berkeley.

15—SCHOOLS

Plans Being Figured—Bids Close July 1st, 7 P. M.

SCHOOL Cost, \$8500
 TULE LAKE, Siskiyou Co., Cal.

One-story wood frame school (four classrooms, office, etc.) 75x60 ft.; hot air heating system, coal or wood burner, maple floors, wood shingle roof, wood exterior and interior, sheet rock with plaster finish, wood sash, blackboards and shades, septic tank, fixtures, etc.

Owner—Siskiyou Union High School District, Yreka.

Architect—Arthur O. Johnson, Sir Francis Drake Hotel, San Francisco.

Engineer—Woodworth Wethred, Sir Francis Drake Hotel, San Francisco.

Bids are being received as follows:

(1) General Work.

(2) Heating.

(3) Electric.

(4) Plumbing.

(5) Combined bid including general work and mechanical work.

Plans available from the architect and engineer, L. S. Newton, county superintendent, Court House, Yreka, A. G. Grant, high school supt., Park Hotel Bldg., Mt. Shasta, and from G. W. Martin, Tule Lake, upon deposit of \$10. Bond in the amount of 10% of amount bid required with bid.

RED BLUFF, Tehama Co., Calif.—

Roller Arbuckle, Anderson, Cal., has procured plans for the purpose of submitting a bid to the Red Bluff Grammar School District on June 19 in connection with the construction of the one-story frame and brick veneer auditorium at Red Bluff. Dragon and Schmidts, Mercantile Bank Building, Berkeley, architects.

SAN RAFAEL, Marin Co., Cal.—

Until June 29, 8 P. M., bids will be received by Ada M. Fusselman, Secretary, Junior College District, for supplies, materials and equipment for use by the Marin Union Junior College, during the fiscal year ending June 30, 1934, involving:

Office supplies, materials and equipment.

Science laboratory supplies, materials and equipment.

Mechanical and electrical engineering supplies, materials and equipment.

School furniture, equipment and supplies.

Janitor's supplies, materials and equipment.

Garden supplies, materials and equipment.

Building hardware, lumber and materials.

Physical education supplies and equipment.

Fuel oil.

Specifications for the kind and quality of articles required may be obtained from A. C. Olney, President of the Marin Union Junior College buildings at Kentfield, Calif.

SAN FRANCISCO—Following bids received by Purchasing Department, City Hall, for furnishing linoleum for the school Department:

Western Asbestos Magnesia Co., \$2580 ranging to \$5040.

Venor Company	\$2897.00
.....	Alternata 3295.00
D. N. & E. Walter.....	3055.37
.....	Alternata 3347.31
H. E. Higgins Lumber Co.....	3210.00
Conklin Bros.....	3223.00
W. & J. Sloane.....	3617.60
Van Fleet Freear Co.....	3949.80

Bids held under advisement.

SAN FRANCISCO—M. E. Vukicevich, 666 Mission St., at \$3982 awarded contract by the Department of Public Works for new wood floors in High School of Commerce.

June 12, 1933

Prospective Bidders.
HIGH SCHOOL Cost, \$25,000
ALBANY, Alameda Co., Calif. Ramona and Garfield Streets.
Two - story and basement reinforced concrete high school (8 classrooms 1st unit) to be known as Herbert Hoover Junior High School.

Owner—City of Albany.
Architect—P. L. Drgan and C. R. Schmidts, 3016 Telegraph Avenue, Berkeley.

Will have composition roof, steam heating system, pine floors, linoleum corridors, stucco finish, cement stairs, tile and wainscoting in toilet rooms, steel partitions, etc.

Following have procured plans. Bids open June 27th, 8 P. M.:

George J. Maurer, 50 York Drive, Oakland.
N. H. Sjoberg & Sons, Call Bldg., San Francisco.
E. T. Guay, Albany.
O. Monson, 475 6th St., San Francisco.

K. E. Parker Co., 135 South Park, San Francisco.
J. H. Johnson, 639 Brannan Street, San Francisco.
J. W. Cobby & Son, 260 Tehama St., San Francisco.
J. D. Hannah, 251 Kearny St., San Francisco.

Villadsen Brothers, 417 Market St., San Francisco.
Plans available from architects upon deposit of \$20.00.

WILLIAMS, Colusa Co., Cal.—Fire destroyed the auditorium of the grammar school at Williams, June 10. Damage estimated at from \$5000 to \$25,000. The building was erected in 1930 at a cost of \$125,000. Starks & Flanders, Sacramento, architects.

SAN FRANCISCO—Michel & Pfeffer Iron Works, Harrison and Tenth Streets, at \$33.50 submitted low bid to Department of Public Works for steel gates for the gymnasium at the Aptos Junior High School. Following bids received:

Michel & Pfeffer Iron Works.....	\$33.50
National Orno. Iron Works.....	37.50
Standard Fence Co.....	41.00
.....	Alternata 49.00
Anchor Post Fence Co.....	45.00
West Coast Wire & Iron Works	45.00
Eureka Iron & Wire Works.....	50.00
Eureka Iron & Wire Works.....	54.00
Monarch Iron Works.....	59.50
Fair Manufacturing Co.....	63.00
Bay City Iron Works.....	81.00

Bids held under advisement.

Preparing Working Drawings.
ALTERATIONS Cost, \$5000
BERKELEY, Alameda Co., Cal. Rose and Josephine Streets.
Alterations to Jefferson School Cafeteria (partition work, new concrete slab, tables, counters, excavation work, cafeteria equipment, etc.)
Owner—Berkeley City School District.

Architect—Hardman & Russ, Berkeley Bank Bldg., Berkeley.

Plans will be completed in about ten days and forwarded to Sacramento for approval by the State Board of Architecture.

16—BANKS, STORES AND OFFICES

Contract Awarded.
NEWSPAPER BLDG. Cost, \$—
LOS ANGELES, Calif. SW First and Spring Streets.

Two- to five-story Class A newspaper building (365x165) steel frame, concrete walls and floors, terra cotta and granite exterior, metal windows and doors, marble and tile work, passenger and freight elevators, steam heat, air conditioning system, etc.

Owner—Los Angeles Times.
Architect—Gordon B. Kaufmann, Union Bank Bldg., Los Angeles.
Contractor—P. J. Walker Co., W. M. Garland Bldg., Los Angeles.

OAKLAND, Cal.—Until June 22, 12 noon, bids will be received by Architects Kent ad Hass, 525 Market St., San Francisco, for the construction of new boat and train concourses for the Key Terminal Railway, Ltd., at the Key Pier, Oakland. Work involves:

- (1) fabrication, delivery and erection of structural steel;
- (2) sheet metal (including steel, decks glazed skylights, flag poles, steel ladders, rolling doors, tar and gravel roofs;
- (3) steel sash, installed and glazed.

Plans are available at the office of the architects after 1 P. M. today. Bids being taken on a general and segregated basis.

June 14, 1933

Decorative Tile Bids Being Taken.
REMODEL STORE Cont. Price, \$1180
SAN FRANCISCO. Bush Street near Powell Street.

Remodel Class C concrete store (new tile front, partition work, leaded glass, lavatories, etc.)

Owner—Mr. Dragon.
Architect—Fabre and Hildebrand, 110 Sutter Street.
Contractor—G. P. W. Jensen, 320 Market Street.

Mill Work—Balboa Mill & Cabinet Co. 100 Havelock Street.

Contract Awarded.
STORE Cost, \$2600
SAN FRANCISCO. SW 40th Avenue and Taraval Street.

One - story and basement frame and stucco store (25x100-ft.) felt and gravel roof, concrete floors, etc.

Owner—G. A. Draeger.
Architect—D. E. Jaekle, Call Bldg.
Contractor—A. C. Lindgren, 346 Lowell Street.

Bids Opened.
MARKET Cost, \$18,000
SACRAMENTO, Sacramento Co., Cal. NE 13th and K Streets.

One-story brick market (80x160).
Owner—Ochsner Est., Ochsner Bldg, Sacramento.

Architect—W. E. Coffman, Forum Bldg., Sacramento.
Low Bidder—Yoho & Danger, 3419 4th Ave., Sacramento.

Following bids received:
Yoho & Danger, Sacramento...\$17,375
Henry Finnigan, Sacramento... 17,404
Wm. Keating, Sacramento..... 19,350
H. W. Robertson, Sacto..... 19,422
Azevedo & Sarmiento, Sacto..... 20,900
Bids held under advisement.

Additional Contracts Awarded.
MARKET Cont. Price, \$14,357
BAKERSFIELD, Kern Co., Cal. 18th and I Streets.

One-story reinforced concrete market (60x110 ft.) steel roof, trusses; parking area, 72x115 ft., etc.

Owner—Mattson Brothers.
Architect—Edwin J. Symmes, Habersfelde Bldg., Bakersfield.
Lessee—Scholar & Scholar.
Contractor—W. A. Croft, Bakersfield.
Fixtures—Weber Showcase and Fixture Co., \$6,800

Refrigeration—New York - California Const. Co., \$1,800.

Structural Steel—Consolidated Steel Corp., Bakersfield.

SAN FRANCISCO.—Clinton Stephenson Const. Co., 550 Montgomery St., at \$3,981 (Prop. 1) and \$3,431 (Prop. 2) submitted low bid to Public Utilities Commission for alterations and additions to the Administration Bldg. at the San Francisco Airport. Following is a complete list of bids:

(1) work complete.	
(2) omitting small portion of work.	
Clinton Stephenson Construction Co.	(1) \$3,784
.....	(2) 3,178
Thos. A. Cuthbertson.....	(1) 3,790
.....	(2) 3,190
Empire Const. Co.....	(1) 3,860
.....	(2) 3,380
Val Franz	(1) 3,981
.....	(2) 3,431
Frank J. Reilly	(1) 4,131
.....	(2) 3,531
C. L. Wold	(1) 4,237
.....	(2) 3,477
Alfred H. Vogt	(1) 4,242
.....	(2) 3,663
M. E. Vukicevich	(1) 4,287
.....	(2) 3,763
H. L. Petersen	(1) 4,393
.....	(2) 3,651
F. C. Amoroso & Sons.....	(1) 4,398
.....	(2) 3,757
H. H. Larson	(1) 4,741
.....	(2) 4,183
Commercial Const. Co.....	(1) 4,888
.....	(2) 4,157
Villadsen Bros.	(1) 4,969
.....	(2) 4,227
G. W. Williams Co.	(1) 5,286
.....	(2) 4,620
Ernest Icardi	(1) 5,935
.....	(2) 5,338

Bids held under advisement.

Work Under Way By Owners.
REMODELING Cost, \$—
OAKLAND Alameda Co., Calif. 1338 E 12th Street.

Extensive remodeling and redecoration of studio building for cabaret.

Owner—V. L. Maston and L. R. Foss, 1338 E 12th St., Oakland.
Architect—Not Given.

Contracts Awarded.
REMODEL STORE Cost, \$—
EUREKA, Humboldt Co., Calif. 413 Fifth Street.

Remodel for store.
Owner—Purity Stores, Ltd.
Plans by Owners.
Front—Gilman & D. Turner.
Plate Glass—F. A. Matthews & Son.
Painting—Steve Corippo.
Electric Fixtures—Home Elec. Co. All of Eureka.

Preparing Working Drawings.
BUILDING Cost, \$15,000
FRESNO, Fresno Co., Cal. North Fulton St. near Sumner Ave.

Two-story concrete, frame and stucco medical office building (70x80 ft.); 20 rooms and five-room apartment (flat composition roof, gas heating system, etc.)

Owner—Dr. Roscoe F. Wallace, Fresno
Architect—Charles E. Butner, Cory Bldg., Fresno, and Glikbarg Bldg., Salinas.

Bids will be asked in about three weeks from a selected list of contractors.

Contract Awarded.
ALTERATIONS Cost, \$5000
SAN JOSE, Santa Clara Co., Calif.
 4149 S Second St.
 Remodel department store (82x137 ft.;
 new trusses, new brick front,
 sheet metal, wood work, wiring.)
 Owner—Max Blum, San Jose.
 Architect—Harold Ferree, 435 Valle
 Vista Ave., Oakland.
 Contractor—H. A. Bridges, 1398 Lin-
 coln Ave., San Jose.

Planned.
STORE Cost, \$—
REDWOOD CITY, San Mateo Co.,
 Cal. Broadway and Hamilton Sts.
 Two-story and basement reinforced
 concrete store (60x150).
 Owner—David J. Davis, 500 Chelms-
 ford Road, Hillsborough.
 Architect—Not Given.
 Lessee—Montgomery Ward Company.
 Further details will be announced
 shortly.

Roofing Bids Being Taken.
STORE Cost, \$10,000
SAN MATEO, San Mateo Co., Cal. S
 Third Ave. W Ellsworth Ave.
 One-story reinforced concrete store
 (30x65 ft.) English type.
 Owner and Builder—Alfred H. Vogt,
 250 Eleventh St., San Francisco.
 Architect—E. L. Norberg, 407 Occi-
 dental Ave., Burlingame.
 As previously reported, reinforcing
 steel awarded to Pacific Coast Steel
 Co., 20th and Illinois Sts., S. F.

Planned.
STORE Cost, \$—
OAKLAND, Alameda Co., Calif. NE
 Foothill Blvd. and Coolidge Ave.
 (100x124).
 One-story brick and tile store (Mis-
 sion style of architecture).
 Owner—Ewin A. Roller.
 Architect—Not Given.
 Lessee—Flagstrom's Food Stores, 10,
 626 E 14th St., Oakland.

17—THEATRES

Preparing Working Drawings.
THEATRE Cost, \$1500
STOCKTON, San Joaquin Co., Calif.
 North Pacific Avenue.
 Open-air theatre (to seat 1360) earth
 embankment, stadium type wood-
 en seats, light towers, stage and
 lighting equipment (stage will be
 concrete platform, 24x88).
 Owner—College of the Pacific.
 Architect—H. G. Bissell, 328 E Miner
 St., Stockton.
 Plans will be completed in about 3
 weeks and work will probably be
 done by day's labor.

Contract Awarded.
THEATRE Cost, \$—
LINDSAY, Tulare Co., Cal.
 Rebuild theatre (raise brick wall 12'
 add concrete, wood trusses, com-
 position roof, etc. new stage, bal-
 cony and projection room, seating
 capacity of 800.
 Owner—Brunswick Amusement Co.
 Architect—J. Lloyd Conrich, 214 9th
 Ave., San Francisco.
 Contractor—Sallh Bros., 25 Taylor St.,
 San Francisco.

18—WHARVES & DOCKS

Piling Contract Awarded.
REBUILD PIER Cost, \$200,000
OAKLAND, Alameda Co., Cal. Key
 Route Terminal.
 Piling for ferry boat and train ter-
 minal (steel columns and trusses,
 timber flooring, corrugated walls
 and roof, glass skylights, deck
 covering, etc.)
 Owner—Key Route System, Oakland.
 Architect—Kent & Hass, 625 Market
 St., San Francisco.
 Piling—Barrett & Hilp, 918 Harrison

St., San Francisco, approx. \$25,000
 Bids for the superstructure will be
 asked shortly from a selected list of
 contractors by the architects.

SAN FRANCISCO.—Western Pa-
 cific Railroad awarded sub-contract
 by Kaiser Paving Co. (subcontractors
 for mixed concrete on the San Fran-
 cisco-Oakland Bay Bridge) to con-
 struct 500-ft. wharf from its Eastbay
 mole on the north side of the estuary
 and about 1500 ft. easterly from the
 present end of the Western Pacific
 mole; wharf to be of concrete and
 timber construction.

Contract Awarded.
EXTENSION Cont. Price, \$47,955
OAKLAND, Alameda Co., Cal. Foot
 of 14th Street.
 Extension of outer harbor wharf (320
 ft. long, 60 ft. wide).
 Owner—City of Oakland Port Com-
 mission (G. R. Hegardt, secretary)
 Grove St. Pier, Oakland.

Plans by Engr. Dept. of Owner.
 Contractor—M. B. McGowan, 74 New
 Montgomery St., San Francisco.
 Sixteen feet will be of pile and tim-
 ber construction and 44 ft. will be
 reinforced flat slab construction on
 concrete piles.

19—MISC. CONSTRUCTION

ALAMEDA, Alameda Co., Cal.—The
 date of opening bids has been post-
 poned indefinitely in connection with
 the 50-foot steel flag pole at Benton
 Field Air Depot, for which bids were
 scheduled to be opened June 8 by the
 Constructing Quartermaster, Benton
 Field Air Depot, Alameda.

June 9, 1933

Contracts Awarded.
TEA HOUSE Cost, \$—
WOODSIDE, San Mateo Co., Calif.
 La Honda Road.
 Wood tea house (15 ft. square) tile
 work, glass, etc.
 Owner—E. Wobber, La Honda Road,
 Woodside.

Architect—Albert Schroepfer, 631 Mar-
 ket St., San Francisco.
 Tile—N. Clark & Sons, 116 Natoma
 St., San Francisco.
Leaded Glass—Habenicht & Howlett,
 529 Clay St., San Francisco.
Mill Work—Acme Planing Mill, 1855
 San Bruno Ave., San Francisco.
 (1778) 19

LOS ANGELES, Cal.—Architects
 Hibbard, Gerly & Kerton, Architects'
 Bldg., have prepared plans for two
 grandstands, a cafe building and two
 toilet buildings to be erected at the
 southeast corner of Beverly Blvd. and
 Fairfax Ave., for the A. F. Gilmore
 Co., Ltd., 727 W. Seventh St. It has
 not been definitely determined how the
 structures will be built. The grand-
 stands will be wood frame structures,
 each 51x390 feet in area and 32 feet
 high. The cafe will be one-story, 20
 x65 feet, and each toilet building will
 be 15x41 feet. Total cost, \$18,500.

SAN FRANCISCO.—Until June 22,
 11 A. M., bids will be received by the
 Construction Quartermaster, Ft. Mas-
 son, for grading, constructing roads,
 re-laying water line, constructing
 concrete wall, etc., at the San Fran-
 cisco National Cemetery, San Fran-
 cisco. Plans and specifications avail-
 able at above office upon deposit of
 \$5.00.

DESERT CENTER, Riverside Co.,
 Cal.—Pacific System Homes, Inc., 5300
 S Boyle Ave., Vernon, awarded con-
 tract by Metropolitan Water District
 at \$18,952.33 to construct eight frame
 buildings and utilities at Division 3
 headquarters, near Desert Center. The
 work consists of furnishing all labor
 and materials for erecting one office

building, one mess hall, one 12-car
 garage and repair shop, one ware-
 house, one 6-room cottage, one 2-car
 garage, one 20-man dormitory and one
 guest lodge, together with appurte-
 nant sewers, water supply system
 and grading.

Lumber Contract Awarded.
DOG TRACK Cost, \$150,000
BAYSHORE, San Mateo Co., Cal.
 Dog racing track.
 Owner—Bayshore Kennel Club (Thos.
 Keene, J. Foppiano, et al), Bel-
 mont.

Plans by Thomas Keene, Belmont.
 Mgr. of Constr.—Thomas Keene.
Lumber—McCallum Lumber Co., 748
 Bryant St., San Francisco.
 As previously reported, structural
 steel contract awarded to McClintic
 Marshall Corp., 2050 Bryant St., San
 Francisco.

To Take Segregated Bids Within A
 Few Days.

BUILDING Cost, \$6000
RICHMOND, Contra Costa Co., Cal.
 One-story wood frame classroom bldg.
 (metal lath and plaster interior,
 rustic exterior, wood flooring,
 composition roofing, gas heating
 system, etc.)

Owner—Missionary Society of the Sa-
 lesians Congregation.
 Architect—J. A. Porporato, 619 Wash-
 ington St., San Francisco.

SUNNYVALE, Santa Clara Co., Cal.
 Following have procured plans for
 the purpose of submitting bids to the
 Bureau of Yards and Docks, Navy
 Department, Washington, D. C., on
 June 28 for irrigation system, grading
 and concealed lawn sprinkling system
 at the Naval Air Station, Sunnyvale.
 Specification No. 7034:

Brooks of California, Los Angeles.
 Peterson Bros., Hayward.
 Herman Lawson, 465 Tehama St.,
 San Francisco.

Crane Co., 61 New Montgomery St.,
 San Francisco.
 J. F. Hunt, 7 Front St., San Fran-
 cisco.

Atlas Skinner Co.
 W. J. Tobin, 527 Balfour St., Oak-
 land.

W. F. Snook, 596 Clay St., San
 Francisco.

P. L. Burr, 320 Market St., San
 Francisco.

Scott Co., 243 Minna St., San Fran-
 cisco.

Haddon Company, Alhambra.
 California Nursery, Niles, Calif.

California Corrugated Culvert Co.,
 Fifth and Parker Sts., Berkeley.

James H. Pinkerton, 927 Howard
 St., San Francisco.

H. C. Vensano, 251 Kearny St., San
 Francisco.

C. Williamson, P. O. 151, Redwood
 City.

Oakland Sewer Construction Co.,
 10003 S2nd St., Oakland.

Nu-Way Lawn Sprinkler Co., 1438
 Clay St., San Francisco.

Peter Moss.
 G. J. Krattiger, 1150 Union St., San
 Francisco.

N. R. LeBaron.

SEATTLE, Wash.—Until July 5th,
 bids will be received by the North-
 land Transportation Co., Seattle, to
 construct a new passenger and freight
 motorship for the Seattle-Alaska ser-
 vice, estimated cost \$500,000.

Vessel to be 231 ft. long, beam 40.6-
 ft., depth 23-ft.; will have twin Dis-
 sel engines, 1000-hp. each, 12½ knots
 speed.

Construction Under Way.
DANCE PAVILION Cost, \$16,000
CAPITOLA, Santa Cruz Co., Calif.
 One- and two-story frame dance pa-
 vilion and concessions.
 Owner—C. P. Davidson.

Preliminary plans by Wm. I. Garren, 233 Post St., San Francisco. Contractor—Earl McCooms, Santa Cruz.

SEATTLE, Wash.—American Mall Line taking bids for the repair of the steamer "President Madison" recently damaged when she partly capsized in port. A previous estimate of cost on repair work is \$1,000,000.

Plans Being Completed. RECREATION CENTER Cost \$5000 RICHMOND, Contra Costa Co., Cal. Nichol Park.

Two one-story frame and stucco recreation bldgs. (men's unit, 27.6x55; women's unit, 21x27.6) locker and shower rooms, toilets, etc., tile roof, conc. floors (Spanish style). Owner—City of Richmond.

Plans by Engr. Dept. of Owner. Bids will be asked in one week from local contractors only. The Nichol Estate has donated \$5,000 for the construction.

SAN FRANCISCO.—National Ornamental Iron Works, 434 9th St., at \$95 submitted low bid to Department of Public Works for iron work for partitions on the first floor at 425 Mason Street for the San Francisco Water Department. Following bids received:

National Orn. Iron Works.....	\$ 95.00
Monarch Iron Works.....	138.00
Anchor Post Fence Co.....	140.50
Fair Manufacturing Co.....	225.00
Eureka Iron & Wire Works.....	242.00
*Bay City Iron Works.....	65.00

*Furnish only.

PASADENA, Los Angeles Co., Cal.—Standard Arch Co., Frostberg, Md., represented by St. Louis Fire Brick & Clay Co., 3050 East Slauson Ave., Huntington Park, submitted low bid to city directors June 13, at \$9220 for furnishing air-cooled suspended arches for municipal incinerator and air-cooled suspended walls and appurtenances, in connection with settings for Stirling boilers at the municipal light and power plant. The bids were: Standard Arch Co.—\$9220, time 60 days.

J. T. Thorpe, Inc., \$9630, 30 days. Calmo Engineering Co., \$9780, 40 days. R. G. Meyler Corp., \$9873, 60 days in operation. F. Herbert Lanyon, \$10,379, 56 days.

To Ask Bids In One Week. REPAIRS Cost, \$15,000 SAN FRANCISCO. Golden Gate Park Repairs to conservatory (repair floors, etc.)

Owner—City and County of San Francisco (Park Commission), Golden Gate Park. Architect—Fred H. Meyer, 525 Market St., San Francisco. Bids will be asked in one week.

SAN FRANCISCO—Until June 21, 1:45 P. M., informal bids will be received by S. J. Hester, Chief Deputy Director, Department of Public Works, for concrete stairs on the north side of 22nd street, between Kansas and Rhode Island Sts. Estimated cost, \$600.

20—MISC. SUPPLIES AND MATERIALS

SAN FRANCISCO.—Following bids submitted June 9 under Bid No. 1020 to T. A. Brooks, city purchasing agent, to furnish ready-mix concrete as follows:

- (1) delivered to various playgrounds, 1500 cu. yds.;
- (2) 30 cu. yds. to other points;
- (3) 1000 cu. yds. to points along Municipal Railway;

- (4) cartage charge per load for less than 2 cu. yd. lots;
- (5) free standing time—minutes
- (6) charge for standing per hour above free time.

Bidders follow:
(A) Readymix Concrete Co.
(B) Bode Gravel Co.
(C) Golden State Atlas Materials Co.

Unit bids follow:

	(A)	(B)	(C)
(1).....	\$7.45	\$7.45	\$7.45
(2).....	7.45	7.45	7.45
(3).....	6.95	6.95	6.95
(4).....	1.50	1.50	1.50
(5).....	15 min	15 min.	15 min.
(6).....	4.00	4.00	4.00

Bids held under advisement.

MERCED, Merced Co., Cal.—Until June 20, 2 P. M., bids will be received by P. J. Thornton, clerk of the Board of Supervisors, to furnish supplies to the County of Merced for the year beginning July 1, 1933. Bids to be made upon schedules supplied by the clerk of the Board of Supervisors.

SAN FRANCISCO.—Until June 19, 3 P. M., under Bid No. 1029, bids will be received by T. A. Brooks, City Purchasing Agent, to furnish fir, redwood and spruce for term July 17, 1933 to January 17, 1934. Specifications obtainable from above office.

LOS ANGELES, Calif.—Until 11 A. M., June 20, bids will be received by A. J. Holm, city purchasing agent, 107 City Hall, to furnish and deliver to Los Angeles Bureau of Engineering, 1000 tons per month of 90 per cent asphaltum road oil during period commencing July 1, 1933, and ending Dec. 31, 1933, under Spec. No. 3115, as follows:

- (1) f.o.b. insulated tank cars or trucks on A. T. & S. F. spur, 2445 McPherson St.;
- (2) f.o.b. city trucks at dealer's plant;
- (3) f.o.b. insulated tank cars or trucks at Hewitt Station, 12251 Sherman Way in San Fernando Valley.

SAN FRANCISCO.—Following bids submitted June 9 under Bid No. 1014 to T. A. Brooks, city purchasing agent, to furnish four miles of trolley wire for Municipal Railway:

- (1) price per 100 lbs.
- (2) allowance for reels, each.
- (3) delivery.

Bidders follow:
(A) Maydwell & Hartzell, Inc.
(B) General Elec. Supply Corp.
(C) General Cable Corp.
(D) Henger-Seltzer.

Unit bids follow:

	(A)	(B)	(C)	(D)
(1).....	\$19.32	\$19.32	\$19.32	\$19.32
(2).....	20.00	20.00	20.00	20.00
(3).....	50	40	35	40

days days days days

Bids held under advisement.

LOS ANGELES, Cal.—Until 9 A. M., June 16, bids will be received by Saul A. Joseph, Purchasing Agent of the Metropolitan Water District, Room 504, 306 West Third St., Los Angeles, for liner plates with or without ribs, bent and punched for arch of 6 ft. 3-in. radius, and structural steel members, complete with splices, bolts, and wrenches, for 480 linear feet to tunnel adit, in accordance with specifications and drawing No. E-759, under Bid No. 11551.

LOS ANGELES, Calif.—Until 11 A. M., June 20, bids will be received by A. J. Holm, city purchasing agent, for furnishing the Bureau of Engineering approximately 400 tons per day of oil and mineral aggregate during a period from July 1 to December 31, 1933, delivered direct from mixer to

city trucks under Spec. No. 3114. Composition of materials per ton to be as follows:
Sand, 300 to 700 lbs.
Commercial No. 4 crushed rock, 300 to 600 lbs.;
Crushed rock coarser than commercial No. 4, 900 to 1200 lbs.;
90% asphalt road oil, 12 to 15 gals., as instructed by the city engineer.

BERKELEY, Alameda Co., Calif.—Richfield Oil Co. at \$.79 per barrel awarded contract by city council to furnish 1300 barrels of fuel oil.

LOS ANGELES, Calif.—Until 11 A. M., June 22, bids will be received by A. J. Holm, city purchasing agent, 107 City Hall, for furnishing and delivering to Bureau of Engineering, f. o. b. city truck at dealer's plant or bunkers, 700 tons washed concrete sand per month during period beginning July 1, 1933, and ending Dec. 31, 1933, under Spec. No. 3120.

BERKELEY, Alameda Co., Calif.—Following bids received by the city council to furnish rock and screenings to be delivered as ordered during the fiscal year commencing July 1, 1933:

Transit Concrete, Ltd., Oakland, 1½ to ¾-in. \$1.50 ton, f.o.b. bunker; ¾- to ¼-in., \$1.50 do; ¼- to 1/8-in. \$1.85 do.

California Rock & Gravel Co., San Francisco, 1½- to ¾-in. washed gravel, \$1.25 ton f.o.b. supr, Berkeley.

Hutchinson Co., Oakland, 2½-in. and under, \$1.00 f.o.b. spur, \$.60 f.o.b. bunker; 2½- to 1½-in., \$1.40, \$1.10; 1½- to ¾-in., \$1.40, \$1.10; ¾- to ½-in., \$1.40, \$1.10; ½- to ¼-in., \$1.75, \$1.60; ¼-in. and under, \$.60, \$.20; ¼ in. and under, \$.75, \$.35.

Bids held under advisement.

SAN DIEGO, Cal.—California Portland Cement Co., Henry Cowell Lime & Cement Co., Monolith Portland Cement Co., Pacific Portland Cement Co., Riverside Cement Co. and Southwestern Portland Cement Co. submitted identical bids to the Navy Department, Bureau of Supplies and Accounts, on June 6, at \$6940, for furnishing 3000 bbls. cement for San Diego; Schedule 150, Y. & D.; Lot 1190.

LOS ANGELES, Cal.—Until 11 A. M., June 22, bids will be received by A. J. Holm, City Purchasing Agent, 107 City Hall, for furnishing and delivering to Bureau of Engineering, 185 tons stone dust (for asphalt mixture) per month during period commencing July 1, 1933, and ending December 31, 1933, under Specification No. 3119. The bids will be taken as follows:
(1) f.o.b. cars on A. T. & S. F. spur in alley north of McPherson St. and east of Santa Fe Ave.
(2) f.o.b. cars on S. P. spur at Hewitt Station in San Fernando Valley.

SAN FRANCISCO—Bethlehem Shipbuilding Corp., 20th and Illinois Sts., at \$649 submitted low bid to U. S. Engineer Office, to furnish one 26-in. self-adjusting draghead for U. S. Dredge "W. L. Marshall." Complete bids follow:

Bethlehem Shipbuilding Corp.....	\$ 649.00
Union Machine Co.....	775.00
Moore Dry Dock Co.....	785.00
Golden State & Miners Iron Works.....	799.50
Pelton Water Wheel Co.....	815.00
General Eng. & Dry Dock Co.....	1205.50

SALINAS, Monterey Co., Cal.—Until June 19, 7:30 P. M., bids will be received by J. F. Iverson, City Clerk, to furnish from 12,000 to 15,000 gals. gasoline. Specifications obtainable from above office.

ENGINEERING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

21.—Bridges	30.—Reservoirs and Dams
22.—Dredging, Harbor Works, Excava.	31.—Pipe Lines and Wells
23.—Irrigation Proj.	32.—Sewers & Sewage Equipment
24.—St. Light. Systems	33.—Water Works
25.—Machinery and Equipment	34.—Parks & Play-grounds
26.—Railroads	35.—Tunnels
27.—Fire Alarm Sys.	
28.—Fire Equipment	
29.—Streets & Highways	

21—BRIDGES

ORANGE AND RIVERSIDE CO., Cal.—A. C. Fulmor, Engineer for the Ortega Highway being constructed by the counties of Orange and Riverside, is preparing plans for a bridge to be built across San Juan Creek. The proposed bridge will be 160 ft. in length with a 27-ft. roadway. Whether the bridge will be steel and wood or steel and concrete has not been determined. The overall cost is estimated at \$15,000. Bids will be called in July.

KERN COUNTY, Cal.—Franklin E. Gridley, 256 South Lake Ave., Pasadena, at \$15,863.50 awarded contract by State Highway Commission, Sacramento, to construct an undergrade crossing under the tracks of the Minkler branch of the A.T.&S.F. Railway about 4 miles north of Bakersfield, consisting of a 49-ft. 5-in. steel girder beam span with creosoted timber deck supported by concrete abutments with wing walls.

SAN FRANCISCO.—Moore Drydock Co., foot of Adeline St., Oakland, awarded sub-contract to construct 3 caissons in connection with the sub-structure, East Bay Crossing, San Francisco-Oakland Bridge, for which Bridge Builders, Inc., hold the contract.

SACRAMENTO, Cal.—M. A. Jenkins, 3560 Y St., Sacramento, at \$1876.84 awarded contract by county supervisors to construct small concrete bridge near Elk Grove.

SACRAMENTO, Cal.—Carl R. Fiedler, 2631 30th St., Sacramento, at \$3468.95 awarded contract by county supervisors to construct two bridges on the Lower Stockton Road.

22—DREDGING, HARBOR WORKS, EXCAVATION

LOS ANGELES, Calif.—Artukovich Bros., 912 Atlantic Blvd., Hynes, submitted low bid to board of public works June 7 on type 1 at \$10,607.93, and on type 2 at \$10,112.60, for constructing sewers in Colfax Ave. bet. Magnolia Ave. and 1320 ft. south of Moorpark Ave., under the 1911 act.

PORTLAND, Ore.—Port of Astoria, Astoria, Ore., at \$16,000 submitted low bid to U. S. Engineer Office, Portland, to dredge approximately 256,000 cu. yds. of material from Skipanon Channel, on the south side of the Columbia river three miles west from Astoria, and about ten miles from the mouth of the river. Complete bids follow:

Port of Astoria, \$.0625; \$16,000.
Oregon Bridge & Dredging Co., Portland, \$.095; \$24,320.
Government estimate, \$.066; \$16,896.
Bids held under advisement.

SAN LUIS OBISPO, Cal.—County Supervisors order survey of Morro Bay harbor with a view to constructing a breakwater; project will be financed by funds from the National Industry Recovery Act. Work at Port San Luis is also contemplated.

25—MACHINERY AND EQUIPMENT

LOS ANGELES, Calif.—American Liquid Gas Co. (Harold W. Smith), 222 Transamerica Bldg., Los Angeles awarded contract by the Metropolitan Water District at \$1190 each for constructing one liquid gas plant at Thousand Palms Camp and an option to furnish five liquid gas plants at above price per plant at any time within 12 months. The price per gallon of liquified petroleum gas is 5.85¢ per gallon. The bids were opened May 31.

SAN FRANCISCO—Eaton & Smith, 715 Ocean Ave., at \$1692 submitted low bid to Golden Gate Bridge & Highway District to dismantle, break up and remove three disappearing cannon mounts. Complete bids follow:
Eaton & Smith.....\$1692.00
Barrett & Hilp, 15 days..... 2060.00
H. G. Shattuck, 21 days..... 2150.00
Mendelson & Bauer, 15 days.... 2490.00
M. B. McGowan, 40 days..... 2895.00
M. Levin & Sons, 15 days..... 2991.48
S. F. Bridge Co., 15 days..... 3150.00
Harry Sugarman, 15 days..... 3185.00
Thompson Bros., 15 days..... 3300.00
P. L. Burr, 15 days..... 3890.00
J. H. Kuehlind, 20 days..... 5400.00
Joe Garrick (irregular).

Provision contained in bid form that a penalty of the amount of salary of offender will be assessed by the district if successful contractor employs on the job any non-resident of the Bridge District, or anyone not a citizen of the United States.

SAN FRANCISCO.—Until June 20, bids will be received at office of Board of Marine Underwriters of San Francisco, 233 Sansome St., for the sale of the steel passenger ferry steamer "Peralta" 2075 gross tons register, now lying at Moore Drydock Company yard, Oakland. Bids wanted "as is where is." Further specifications obtainable from above. Certified check 25% required with bid.

CAPITAL CITY TITLE COMPANY

J. C. PALEN,
Manager

914 Seventh Street
Sacramento :: California

HEALDSBURG, Sonoma Co., Calif.—Standard Machine Works, Healdsburg, at \$643 awarded contract by city council to furnish one coupe for city. Complete bids follow:
Standard Machine Works.....\$643
Alternate 560
S. H. Cooley, Healdsburg..... 620
G. S. Cummings, Healdsburg..... 653

26—RAILROADS

LOS ANGELES, Cal.—United Commercial Co. awarded contract by Saul A. Joseph, purchasing agent of the Metropolitan Water District, June 8, at \$7500 to furnish steel rail under Bid No. 10988.

30—RESERVOIRS & DAMS

ALTADENA, Los Angeles Co., Cal.—C. W. Johnson, 448 East Valley View St., Altadena, tentatively awarded contract by the Las Flores Water Co. at \$4402 for constructing a reinforced concrete reservoir at 560 Poppy St. The proposed reservoir will be circular, 80 ft. in diameter, 13½ ft. deep, Allin Bros., 303 Kendall Bldg., Pasadena, consulting engineers. The bids were opened June 5.

31—PIPE LINES & WELLS

MADERA, Madera Co., Cal.—W. G. Cexton, Tulare, at \$1462.44 awarded contract by city council to drill water well, 18-in., perforated casing at the South D Street plant.

SAN FRANCISCO.—Theo. Cohn, Russ Bldg., at \$18,211 awarded contract by Public Utilities Commission to lay 30-in. steel plate pipe lines for San Francisco Water Department.

SAN FRANCISCO.—J. O'Shea, 2100 17th St., at \$6808.60 awarded contract by Public Utilities Commission to lay 16- and 12-in. cast iron pipe line on Judab St. from 19th Ave. to 29th Ave. and on Ocean Ave. from Faxon to Phelan.

SAN FRANCISCO.—E. J. Treacy, 309 Call Bldg., at \$7,392.25 awarded contract by Public Utilities Commission to lay 16-in. cast iron pipe line on San Pablo Ave., Yerba to Wildwood Ave.

SAN FRANCISCO.—Eaton & Smith 715 Ocean Ave., at \$5,989.25 awarded contract by Public Utilities Commission to lay 16-in. cast iron pipe line through Forest Hill subdivision.

SAN FRANCISCO.—Until June 23, 3 P. M. bids will be received by Public Utilities Commission, Felton Taylor, Secretary, to drill four inspection wells, Calaveras Dam, involving:
(1) drill 10-in. dia. well and furnish and install 10-in. steel casing, 250 lin. ft.;
(2) 200 ft. do, 8-in. well, 8-in. steel casing;
(3) 50 ft. do, 6-in. well, 6-in. casing;
(4) 50 ft. do, 4-in. well, 4-in. casing;
(5) 250 ft. furnish and install 8-in. steel casing inside larger casing;
(6) 150 ft. 6-in. do, inside larger casing;
(7) 60 ft. 4-in. do, inside larger casing;
(8) 160 ft. furnish and install 5½-in. screw and socket joint wrought casing inside larger casing;
(9) 200 ft. perforate steel casing in place;

- (10) 350 sq. ft. machine perforation before installing;
- (11) 150 sq. ft. perforations in screw and socket casing before installing;
- (12) drill through concrete culvert wall and install brass pipe and fittings;
- (8a) (alt. for 8) 160 ft. furnish and install 7 $\frac{1}{2}$ -in. screw and socket joint wrought casing inside larger casing;
- (8b) (alt. for 8) 160 ft. furnish and install 4 $\frac{1}{2}$ -in. screw and socket joint wrought casing inside larger casing.

S. F. Water Department Specifications No. 39 obtainable from Room 605, 425 Mason St.

32—SEWERS & SEWAGE DISPOSAL PLANTS

LOS ANGELES, Calif.—Until 10 A. M., June 28, bids will be received by board of public works to construct sewers in the Chicago St. and alley south of Marengo St. Sewer District. The work involves:

- (1) sanitary sewer, involving \$17.91 ft. 8-in. cement pipe, including 44 8x 6-in. wyes, one manhole B, one drop manhole S, one flushing tank No. 2, three manhole frame and cover sets, 188 lin. ft. concrete reinforcing type X, for 8-in. pipe.
- (2) 175 ft. house connections, including seven one-eighth bends, 7 ft. deep, joint compound throughout.
- (3) 802 sq. ft. Class A resurfacing.
- (4) 15 sq. ft. gutter resurfacing.
- Average depth of structures, 10.3 ft. Engineer's estimate, \$1699.80.

CAPITOLA, Santa Cruz Co., Cal.—County supervisors continue action on outfall sewer system for Capitola, bids for which were opened May 29, for two weeks until their next meeting June 23.

Complete bids were published June 1st.

LONG BEACH, Calif.—Pacific Clay Products Co., 1151 S Broadway, Los Angeles, submitted low bid to City Manager E. S. Dobbin, June 8 at \$6,500 to furnish and deliver vitrified clay sewer pipe.

BERKELEY, Alameda Co., Calif.—All bids rejected and new bids will be received until June 20, 10 A. M., by Florence E. Turner, city clerk, to construct storm sewer in Ensenda Ave. from Capistrano Ave. south to the existing culvert south of Tacoma Ave., involving:

- (1a) 335 lin. ft. 33-in. sewer pipe, reinforced concrete, centrif.;
- (1b) 335 lin. ft. 33-in. reinf. concrete sewer pipe, machine made (alt. to 1a);
- (1c) 335 lin. ft. 33-in. vit. ironstone sewer pipe (alt. to 1a);
- (2) 75 lin. ft. 10-in. vit. pipe;
- (3) 3 catchbasins;
- (4) 1 manhole with water seal;
- (5) 1 ordinary manhole.

LOS ANGELES, Cal.—Case Constr. Co., 1927 Thayer Ave., Westwood, awarded contract by County Supervisors, June 12, at \$16,485.75 to construct gunite and concrete lined conduit on Verdugo Wash from Canada Blvd., 2625 ft. upstream.

LOS ANGELES, Cal.—The board of directors of County Sanitation District No. 5 met June 13 in regular monthly meeting with Los Angeles City Councilman Charles H. Randall, President of the Los Angeles City Council and member of the board, presiding, and adopted a resolution approving a report of the Investigating Committee relative to the White's Point Outfall

and recommending that the districts proceed with the ocean outfall construction. The resolution authorized the chief engineer, A. K. Warren, to proceed with the preparation of plans for the outfall.

About thirty days will be required for the compilation of data gathered from the test drilling and submarine survey now under way. The engineer believes that a call for bids for the construction may be issued within sixty days, at least.

MONTEREY PARK, Los Angeles Co., Cal.—The state department of public health has granted to the City of Monterey Park a permit to construct a sewage disposal plant to serve a population of 6000. The appointment to the zoning committee of county regional planning commission for a ruling on the city's right to establish the plant on the Rio Hondo. A decision will be made by the commission June 21. Data to be incorporated in a final application for Reconstruction Finance Corp. funds is being prepared by the engineers, Black & Veatch (Alva J. Smith, local representative, 918 Boylston Street, Pasadena).

LOS ANGELES, Cal.—Five identical bids were received by county supervisors, June 12, at \$2.40 per bbl., total \$9000, for furnishing 3750 barrels of portland cement for the construction of conduit on Verdugo Wash from Canada Blvd. 2625 feet upstream. E. C. Eaton, 202 N. Broadway, clerk of the board. The bidders follow: Southwestern Portland Cement Co., Monolith Portland Cement Co., Blue Diamond Corp., Riverside Cement Co. and California Portland Cement Co.

33—WATER WORKS

LOS ANGELES, Calif.—Rich Mfg. Co. awarded contract by A. J. Holm, City Purchasing Agent, June 8, at \$17,320 for furnishing Water & Power Department with gate valves under Spec. No. 3068.

OAKLAND, Cal.—Until June 23, 8 P. M., bids will be received by John H. Kimball, secretary, East Bay Municipal Utility District, 512 16th St., Oakland, to furnish 1515 cast iron b&s water pipe fittings, sizes from 4- to 8-in. Specifications No. LS-110 obtainable from above office.

OAKLAND, Cal.—California Steel Products Co., 452 Bay St., San Francisco, at \$1627 each submitted low bid to East Bay Municipal Utility District to furnish two steel storage tanks, 120,000-gal. capacity, one for the Saranap County Water District and the other for the Fairview County Water District, in connection with construction of reservoirs and pipe lines, work being done by the East Bay District by force account. Complete bids follow:

California Steel Products Co., \$1,627 each.

Steel Tank & Pipe Co., \$1794 each.

Boiler Tank & Pipe Co., \$2195 for Saranap; \$2160 for Fairview.

Bids held under advisement.

SOUTH PASADENA, Los Angeles Co., Cal.—Bids for furnishing 5000 ft. 10-in. Class 250 centrifugally cast, cast iron pipe or Class B pipe opened by city council June 7. The bids, which were referred to the city manager until June 14, were:

U. S. Pipe & Foundry Co.—Class 250 DeLavaud 18-ft. lengths, \$1.20 ft.; alt. Class "150", 99¢; second alt. Class "150", 18-ft. lengths, \$1.09.

Ipamco Pipe Corp.—Class B, five-metre lengths, 86¢ ft.

Utilities Supply Co.—Class "250", \$1.0675 ft.; alt. Class "150", 89.5¢ ft.

Central Foundry Co.—Class "250", \$1.10 ft.

Pacific States Cast Iron Pipe Co.—no check—Class "250", \$1.39 ft.

SELMA, Fresno Co., Calif.—City council appropriates funds and appoints Hussey & Belcher, Sundicate Bldg., Oakland, as engineers to make survey for proposed municipal water system. 33

ALHAMBRA, Los Angeles Co., Cal.—The \$340,000 bond issue for the development of the Rio Hondo Water Project and other improvements to the city water system was defeated at the election June 6.

SAN FRANCISCO—F. J. Behneman, Receiver for the Joshua Hendy Iron Works, 200 Pine St., at \$6650 awarded contract under Bid No. 1000 by T. A. Brooks, city purchasing agent, to furnish two 60-in. butterfly valves for Hetch Hetchy Project.

SAN FRANCISCO—Standard Oil Co. at \$18 per ton awarded contract under Bid No. 1002 by T. A. Brooks, city purchasing agent, to furnish approximately 304 tons of 30-in. cast iron b & s pipe, involving 152 pieces, 12-ft. lengths.

SAN FRANCISCO—Central Foundry Co., 100 Potrero Ave., at \$2.063 for 16-in., and \$1.252 for 12-in. awarded contract under Bid No. 1004 by T. A. Brooks, city purchasing agent, to furnish 4210 ft. 16-in. and 5100 ft. 12-in. class 150 cast iron water pipe.

WAPATO, Wash.—Union Concrete Pipe Co., Yakima, at \$8553 submitted low bid to U. S. Indian Service, Wapato, to furnish concrete pipe for the reservation. Only other bid submitted by Yakima Cement Prod. Co., Yakima, at \$9580.

LOS ANGELES, Cal.—Kimball-Krogh Pump Co., awarded contract by Saul A. Joseph, Purchasing Agent of the Metropolitan Water District, June 10, at \$1345, for furnishing turbine pump under Bid No. 11281.

LOS ANGELES, Cal.—E. E. Mc-Nerney, Pacific Coast Manager of the Valvoline Oil Co., 124 Center St., has announced that the company will expend about \$25,000 for the construction of petroleum storage tanks on the company's property at the southeast corner of Union Pacific Ave. and Esperanza St.

POMONA, Los Angeles Co., Cal.—Southern Pipe & Casing Co., Azusa, awarded contract by Water Department at 79.4¢ ft. to furnish 5600 ft. 12-in. I. D. electric welded steel pipe, 25 lbs. to the foot.

SAN FRANCISCO—The Worthington Co., Inc., 543 Howard St., at \$786.15 (delivered) awarded contract by Quartermaster Supply Officer, Fort Mason, to furnish one pump horizontal duplex piston, for sanitary purposes, 10x10 $\frac{1}{4}$ x12-in.

DALY CITY, San Mateo Co., Cal.—Until July 18, 8 P. M., bids will be received by Stella L. Jensen, clerk, Jefferson Union High School, Daly City, to furnish one pump and motor; pump to be multistage horizontal split case centrifugal pump, connected to 15-hp, 3-phase 60-cycle 220-volt 1750-rpm. motor. Further specifications obtainable from above office.

SEATTLE, Wash.—Queen City Construction Co., Seattle, at \$72,915 submitted low bid to board of public

works to construct water main on Alki Ave., involving 15,600 ft. 20-in pipe, concrete, steel, cast iron or wood. Joe Coluccio second low bidder at \$75,045.

HAYWARD, Alameda Co., Calif.—Until June 23, 8 P. M., bids will be received by M. E. Templeton, city clerk, to construct a 25,000-gal. elevated steel tank, 60-ft. to bottom capacity, for the municipal water system. Specifications obtainable from city clerk's office or from office of John A. Mancini, city engineer, on deposit of \$5, returnable.

LOS ANGELES, Cal.—Until 11 A. M., June 26, bids will be received by A. J. Holm, City Purchasing Agent, 107 City Hall, to furnish and deliver to Water and Power Department f.o. b. locations shown below, miscellaneous bell and spigot cast iron water pipe under Specifications No. 3123. The items are as follows:

F. o. b. bidder's trucks, Department of Water and Power, Hewitt St. yard, Los Angeles:

(1) 15,000 ft. 6-in. I.D. pipe, delivery to be made on or about Nov. 15, 1933;

(2) 25,000 ft. 8-in. I.D. pipe, delivery to be made on or about Oct. 7, 1933;

(3) 25,000 ft. 8-in. I.D. pipe, delivery to be made on or about Jan. 7, 1933;

(4) 20,000 ft. 12-in. I.D. pipe, delivery to be made on or about Sept. 1, 1933;

F. o. b. cars or trucks, Department of Water and Power, Slausen and Compton Ave. yard, Aqua Siding, A. T. & S. F. Railway delivery, Los Angeles:

(5) 15,000 ft. 6-in. I.D. pipe, delivery to be made on or about Sept. 15, 1933;

(6) 25,000 ft. 8-in. I.D. pipe, delivery to be made on or about Dec. 7, 1933;

(7) 15,000 ft. 12-in. I.D. pipe, delivery to be made on or about Nov. 1, 1933.

F. o. h. bidder's trucks, Department of Water and Power's yard at Aetna and Vesper Sts., Van Nuys:

(8) 15,000 ft. 6-in. I.D. pipe, delivery to be made on or about Aug. 15, 1933;

(9) 15,000 ft. 6-in. I.D. pipe, delivery to be made on or about Oct. 15, 1933;

(10) 25,000 ft. 8-in. I.D. pipe, delivery to be made on or about Sept. 7, 1933;

(11) 25,000 ft. 8-in. I.D. pipe, delivery to be made on or about Nov. 7, 1933;

(12) 20,000 ft. 12-in. I.D. pipe, delivery to be made on or about Aug. 1, 1933;

(13) 15,000 ft. 12-in. I.D. pipe, delivery to be made on or about Oct. 1, 1933;

(14) 15,000 ft. 12-in. I.D. pipe, delivery to be made on or about Dec. 1, 1933.

EL CENTRO, Imperial Co., Calif.—The Imperial Inter-Cities Water District has applied to the Reconstruction Finance Corp. for a loan of \$900,000 to finance the development of a water supply and the construction of a supply line to serve the cities of Calexico, Heber, El Centro, Imperial, Brawley and Mexicali. The proposed project will involve the drilling of four or five wells, to develop about 3000-gpm., the well to be between 300 and 350 ft. in depth, with deep well turbine pumping plants. The proposed supply line will be of gravity type, 55 miles in length, covered conduit with flat top (varying up to 52-in. width) and parabolic invert of reinforced Gunlite construc-

tion. The wells are to be sunk in the sand hills east of Calexico between the edge of the Imperial Valley and the city of Yuma. The total supply will probably amount to 14,400,000 gallons daily. Chas. N. Perry, 732 N. Heliotrope Drive, Los Angeles, consulting engineer.

LA MESA, Imperial County, Cal.—American Concrete and Steel Pipe Co. 4635 Firestone Blvd., South Gate, has been awarded contract by the La Mesa, Lemon Grove and Spring Valley Irrigation District at about \$35,000 for replacing about 1.5 miles of wooden flume east of El Cajon with 36-inch reinforced concrete siphon. The pipe will be constructed at the company's plant near Old Town, San Diego. Work will start in July.

LOS ANGELES, Cal.—Southern Pipe & Casing Co., at \$4140 and \$260, Indio, awarded contract by Saul A. Joseph Purchasing Agent, Metropolitan Water District, June 12, for furnishing pipe under Bid No. 11362.

SAN FRANCISCO—Until June 23, 3 P. M., under Bid No. 1032, bids will be received by T. A. Brooks, City Purchasing Agent, to furnish:
(1) 50,000 ft. 6-in. b&s cast iron pipe;
(2) 50,000 ft. 8-in. do.
Specifications obtainable from above office.

PANAMA CANAL ZONE.—Bids submitted to the Purchasing Office, Panama Canal, Washington, D. C., June 6, to furnish valves, pipes, etc., under Schedule No. 2870, were:

American Cast Iron Pipe Co., Birmingham, Ala., Item 6, \$6002.60; item 7, \$2010.52.

American District Steam Co., North Tonawanda, New York, Class 3, \$447. Chris., 7 days, on board; 2%, 10 days.

Ladger Fire Extinguisher Co., 61 St. James Ave., Boston, Mass., Class 3, \$3290; Chris. 40 days; 2%, 10 days.

M. L. Bayard & Co., Inc., 20th and Indiana Ave., Philadelphia, Pa., Class 3, \$676.50; Chris. 40 days.

Birdsboro Steel Foundry & Machine Co., Birdsboro, Pa., Class 1 (part) \$607.95; Chris. 38 days. Items 1 and 16 only.

Consolidated Ashcroft-Hancock Co., Inc., Bridgeport, Conn., Class 1 (part) \$44.22. Item 15 only; Chris. 35 days, 2% 10 days. Class 5, \$56.70; Chris. 35 days; 2%, 10 days.

Construction Supplies Co. of America, 500 5th Ave., New York City—Class 6 (part) \$2978.68. All items except 1 to 35, 37, 38, 35, 45, 60; 60 days; 2%, 20 days.

Cooper Mfg. Co., 411 S 1st St., Marshalltown, Ia., Class 11, \$30.26; 2%, 10 days.

Crane Export Corp., 4730 29th St., Long Island City, N. Y., Class 5, \$91.-47. 40 days, 2% 10 days. Class 6, \$6.-682.23. 40 days, 2% 10 days. Class 8, \$214.80, 40 days, 2% 10 days. Class 9, \$337.86, 40 days, 2% 10 days. Class 10, \$170.06, 40 days, 2% 10 days. Class 11, \$53.05, 40 days, 2% 10 days.

Davis Regulator Co., 2541 S Wash-
tew Ave., Chicago, Class 4, \$35, 15 days, 2% 1 day.

The Fairbanks Co., 393 Lafayette St., New York City, Class 1 (part) \$6815.97, 30 to 45 days, 2% 10 days. All items except 12 to 18, inclusive.

The Fischer Governor Co., Marshalltown, Ia., Class 4, \$29.16; 2 days, New Orleans, 2% 10 days.

B. F. Goodrich Rubber Co., Akron, O., Class 11, \$45, 60 days, 2% 10 days.
Goslin Birmingham Mfg. Co., Inc., Birmingham, Ala., Class 6 (part) \$3-586, 40 days. Items 21, 35, 37, 38 and 44 only. Class 7, \$1956, 40 days.

Green-Wolfe Co., Inc., 30 Church St., New York City, Class 1, \$7348.92; 40 days, 1% 20 days. Class 2, \$1,-241.25; 40 days, 2% 10 days. Class 3,

\$529.80, 40 days, 2% 1 day, 1% 20 days. Class 5, \$62.25, 40 days, 2% 1 day, 1% 20 days.

Hajoca Corp., Roslyn, Va., Class 1 (part) \$1322.22, 40 days. Items 4 to 12, inclusive, 7 and 16 only 5% 10 days; 2% 20 days.

Homestead Valve Mfg. Co., Coraopolis, Pa., Class 2, \$1110.48, 40 days 2% 10 days.

Howard Iron Works, 287 Chicago St. Buffalo, N. Y., Class 3, \$359, 25 days; ½% 10 days.

C. G. Hussie & Co., 2850 2nd Ave., Pittsburgh, Pa., Class 10, \$127.19; 30 days; 1% 10 days.

Jinkins Bros., 133 N 7th St., Philadelphia, Pa., Class 1 (part) \$4334.15; 45 days, 2% 10 days. Items 1, 4 and 10 only.

Kennedy Valve Mfg. Co., Elmira, N. Y., Class 1 (part) \$5359, 40 days; 2% 10 days. Items 15, 16 and 17.

J. E. Lonergan Co., 213 Race St., Philadelphia, Pa., Class 1 (part) \$27; shipment 15 days; 2% 1 day. Item 15 only. Class 5, \$56.70; 19 days shipment; 2% 10 days.

Ledlow Valve Mfg. Co., Troy, N. Y. Class 1 (part) \$5956.30. All except items 15, 16 and 17.

Metalla Gasket Co., 16 Bethany St., New Brunswick, N. J., Class 10, \$101.91 2% 10 days, 1% 20 days. Class 11, \$45.50; 30 days, 2% 10 days, 1% 20 days.

M. & H. Valve & Fitting Co., P. O. Box 773, Anniston, Ala., Class 6, \$4630.33; 40 days, 2% 10 days.

Mneller Steam Specialty Co., Inc., 349 W 26th St., New York City, Class 4, \$28; 15 days; 2% 10 days; 1½% 20 days, 1% 30 days.

National Cast Iron Pipe Co., Birmingham, Ala., Class 6 (part) \$7156; 40 days. All except \$5 and \$6. Class 7, \$1893.92; 40 days.

Phoenix Specialty Mfg. Co., 155 Wooster St., New York City, Class 10, \$89.92; New York, 20 days; 2% 1 day. Class 11, \$33.72; New York, 20 days; 2% 10 days.

Pittsburgh Pipe & Equip. Co., 43rd St. and A. V. R. R., Pittsburgh, Class 1, \$6923.75; 40 days; 2% 10 days. Class 2, \$1167; 40 days; 2% 10 days.

HUNTINGTON PARK, Los Angeles Co., Cal.—U. S. Pipe & Foundry Co., 2326 E 8th St., Los Angeles, awarded contract by city council June 5 at 54.5e ft., for 6000 ft. 6-in. cast iron pipe.

35—TUNNELS

LOS ANGELES, Cal.—Walsh Construction Co., Davenport, Iowa, and 904 Chester Williams Bldg., Los Angeles, for schedules 1, 2, 3, 4, 5 and 6, total including all deductions as contained in stipulations, \$4,357,780.40.

West Construction Co., Boston, Mass., or 616 Richfield Oil Bldg., Los Angeles, at \$1,051,637.50 for Schedule 7, submitted low bids June 12 to Metropolitan Water District, Los Angeles, to construct the Colorado River, Copper Basin, Whipple Mountain and Whitewater Tunnels, schedules and quantities as follows:

SCHEDULE 1

Construct Colorado River tunnel and appurtenant works, between Station 10+40 and Station 67+40. Tunnel length 5640 ft.

Note: No bid will be considered for less than all the items of a schedule.

- (1) Does not apply here;
- (2) 2100 cu. yds. excav. in approach cut;
- (3) 61,000 cu. yds. excav. in tunnel;
- (4) 40 cu. yds. excav. tunnel enlargement;
- (5) Does not apply here;
- (6) 15,900 cu. yds. conc. in tunnel;
- (7) 35 M. feet b.m. furnish and place

- permanent timbers in tunnel;
- (8) 10 tons erect steel support in tunnel;
- (9) 150 cu. yds. Gunite coat rock, tunnel;
- (10) 80 connections for grouting;
- (11) 100 cu. yds. mix and place grout;
- (12) 50,000 lbs. place reinf. steel;
- (13) 5000 cu. yds. mi. overhaul conc. agg.;
- (14) 700 ton-mil. haul. steel;
- (15) 73,000 ton-mile overhaul cement;

SCHEDULE 2

Construct entire No. 1, and East portion No. 2, Copper Basin tunnels and appurtenant works, between Station 179+70 and Station 246+60. Tunnel length 6140 ft.

Note: No bid will be considered for less than all the items of a schedule.

- (1) Does not apply here;
- (2) 12,000 cu. yds. excavation in approach cut;
- (3) 66,800 cu. yds. excav. in tunnel;
- (4) 40 cu. yds. excav. for tunnel enlargement;
- (5) 560 cu. yds. concrete in approach section;
- (6) 17,400 cu. yd. concrete in tunnel;
- (7) 45 M. feet b.m. furnish and place permanent timbers in tunnel;
- (8) 10 tons erect steel support in tunnel;
- (9) 150 cu. yds. Gunite coat rock, tunnel;
- (10) 80 connections for grouting;
- (11) 100 cu. yds. mixing and placing grout;
- (12) 175,000 lbs. placing reinforcing steel;
- (13) 6000 cu. yds. mi. overhaul conc. aggregates;
- (14) 1800 ton-miles hauling steel;
- (15) 80,000 ton-miles hauling cement

SCHEDULE 3

Construct West portion, Copper Basin No. 2 tunnel and appurtenant works, between Station 246+60 and Station 309+10. Tunnel length, 6140 feet.

Note: No bid will be considered for less than all items of a schedule.

- (1) Does not apply here;
- (2) 4000 cu. yds. excavation in approach cut;
- (3) 66,800 cu. yds. excav. in tunnel;
- (4) 40 cu. yds. excav. tunnel enlarge;
- (5) Does not apply here;
- (6) 17,400 cu. yds. concrete in tunnel;
- (7) 25 M. feet b.m. furnish and place permanent timbers in tunnel;
- (8) 10 tons erecting steel support in tunnel;
- (9) 150 cu. yds. Gunite coat, rock in tunnel;
- (10) 80 connections for grouting;
- (11) 100 cu. yds. mix and place grout;
- (12) 40,000 lbs. placing reinforcing steel;
- (13) 6000 cu. yds. miles overhaul of concrete aggregates;
- (14) 400 ton-miles hauling steel;
- (15) 57,000 ton-miles hauling cement;

SCHEDULE 4

Construct East portion, Whipple Mountain tunnel and appurtenant works, between Station 350+90 and Station 452+70. Tunnel length 10,000 feet.

Note: No bid will be considered for less than all items of a schedule.

- (1) Does not apply here;
- (2) 7300 cu. yds. excav. in approach cut;
- (3) 109,800 cu. yds. evcav. in tunnel;
- (4) 50 cu. yds. excav. for tunnel enlargement;
- (5) Does not apply here;
- (6) 28,600 cu. yds. concrete in tunnel;
- (7) 210 M. feet b.m. furnish and place permanent timbers in tunnel;
- (8) 20 tons erect steel support in tunnel;
- (9) 150 cu. yds. Gunite coat rock, tunnel;
- (10) 75 connections for grouting;
- (11) 100 cu. yds. mix and place grout;
- (12) 50,000 lbs. place reinforcing steel
- (13) 10,000 cu. yd. miles overhaul of concrete aggregates;

- (14) 600 ton-miles hauling steel;
- (15) 92,000 ton-miles hauling cement;

SCHEDULE 5

Construct Central portion, Whipple Mountain tunnel and appurtenant works, between Station 452+70 and Station 620+60. Tunnel length 16,790 feet.

Note: No bid will be considered for less than all items of a schedule.

- (1) tunnel access work (lump sum);
- (2) Does not apply here;
- (3) 185,400 cu. yds. excav. in tunnel;
- (4) 50 cu. yds. excav. for tunnel enlargement;
- (5) Does not apply here;
- (6) 48,200 cu. yds. concrete in tunnel
- (7) 350 M. feet b.m. furnish and place permanent timbers in tunnel;
- (8) 30 tons erecting steel support in tunnel;
- (9) 260 cu. yds. Gunite coat rock in tunnel;
- (10) 125 connections for grouting;
- (11) 150 cu. yds. mix and place grout;
- (12) 75,000 lbs. place reinf. steel;
- (13) 16,000 cu. yd. miles overhaul of concrete aggregates;
- (14) 900 ton-miles hauling steel;
- (15) 147,000 ton-miles hauling cement;

SCHEDULE 6

Construct West portion, Whipple Mountain tunnel and appurtenant works, between Station 620+60 and Station 676+10. Tunnel length 5400 ft.

Note: No bid will be considered for less than all items of a schedule.

- (1) Does not apply here;
- (2) 7300 cu. yds. excav. in approach cut;
- (3) 59,300 cu. yds. excav. in tunnel;
- (4) 40 cu. yds. excav. for tunnel enlargement;
- (5) 280 cu. yds. concrete in approach section;
- (6) 15,400 cu. yds. concrete in tunnel;
- (7) 110 M. feet b.m. furnish and place permanent timbers in tunnel;
- (8) 10 tons erect steel support in tunnel;
- (9) 40 connections for grouting;
- (10) 50 cu. yds. mix and place grout;
- (11) 25,000 lbs. place reinf. steel;
- (12) 5000 cu. yd. miles overhaul of concrete aggregates;
- (13) 120 ton-miles hauling steel;
- (14) 21,000 ton-miles hauling cement;

SCHEDULE 7

Construct Whitewater Nos. 1 and 2 tunnels and appurtenant works, bet. Station 9961+80 and Station 9787+70. Tunnel length 10,040 feet.

Note: No bid will be considered for less than all items of a schedule.

- (1) Does not apply here
- (2) 37,300 cu. yds. excav. in approach cut;
- (3) 123,900 cu. yds. excav. in tunnel;
- (4) 50 cu. yds. excav. for tunnel enlargement;
- (5) 1400 cu. yds. concrete in approach section;
- (6) 28,600 cu. yds. concrete in tunnel;
- (7) 870 M. feet b.m. furnish and place permanent timbers in tunnel;
- (8) 1150 tons erect steel support in tunnel;
- (9) 300 cu. yds. Gunite coat rock in tunnel;
- (10) 20 connections for grouting;
- (11) 25 cu. yds. mix and place grout;
- (12) 100,000 lbs. place reinf. steel;
- (13) Does not apply here;
- (14) 1850 ton-miles hauling steel;
- (15) 14,300 ton-miles hauling cement.

LOS ANGELES, Calif.—Culjak and Zelko, 1358 S Bonnie Beach Place, awarded contract by board of public works, June 9, at \$2196.14, for constructing a sanitary sewer in Montecito Drive, between Griffin Avenue and a point 651.83 ft. south, under 1911 Act.

LOS ANGELES, Cal.—The Triple Tunnel Assn., has requested the park board to approve rights-of-way for tunnel extension in Western, Bronson and Vermont Aves. in connection with

a plan to construct a series of tunnels through the Hollywood Hills to facilitate traffic from San Fernando Valley reaching Los Angeles by the most direct route. The proposed projects involve three tunnels under Griffith Park, one in Western Ave. Canyon and one in Vermont Canyon to connect with a road in Brush Canyon at the head of Bronson Ave., where a third tunnel will carry the traffic through the main ridge into the valley. The cost is estimated at \$7,000,000. The Bronson Ave. tunnel, which will be the main tunnel, the others being branches, will be about 3500 ft. in length, with a 40-ft. roadway.

29—STREETS AND HIGHWAYS

LOS ANGELES, Calif.—Until 10 A. M., June 28, bids will be received by board of public works to improve first alley south of Pico Blvd. bet. Wooster St. and Robertson Blvd., under 1911 act. The proposed work involves:

- (1) grading (138 cu. yds. cut);
- (2) 5315 sq. ft. 6-in. concrete paving;
- (3) 761 sq. ft. 4-in. rock and oil surfacing;
- (4) reset one manhole.

LOS ANGELES, Cal.—A. O. Nelson 136 N Huntington Drive, Pasadena, submitted low bid to board of public works June 7 at \$1423.23 to improve Strickland Ave. bet. Burwood Terrace and 220 ft. west, under the 1911 act.

BURBANK, Los Angeles Co., Cal.—Geo. R. Curtis Paving Co., 2440 East 26th St., Vernon, submitted low bid to city council June 6 at \$5920.90 to improve Hollywood Way between Empire St. and Winona Ave. The existing roadway is paved with cement concrete to a width of 24 ft. The improvement consists of paving a strip 18 ft. wide on the west side and a strip 22 ft. wide on the east with asphaltic concrete. The rough grading will be done by unemployment relief forces.

ALAMEDA, Alameda Co., Calif.—Date of opening bids has been postponed indefinitely in connection with the placing of bituminous or concrete surfacing on the roads and the paved areas at the Benton Field Air Depot, Alameda.

Bids were scheduled to be opened June 15 by the Constructing Quar-master, Benton Field Air Depot.

ALAMEDA, Alameda Co., Calif.—Date of opening bids has been postponed indefinitely in connection with the grading or runways, placing rock under fill and constructing extension to drainage system at Benton Field Air Depot.

Bids were scheduled to be opened June 15 by the Constructing Quar-master, Benton Field Air Depot.

ROCKWELL FIELD, Cal.—All bids rejected June 6 by Construction Division, Army Department, to construct approximately 200,000 sq. ft. 6-in. reinforced concrete pavement, with driveways, storm sewers, etc., at Rockwell Field, Coronado. On bid opening May 1, low bid was submitted by Weymouth Crowell Co., 2104 E 15th St., Los Angeles, at \$36,200.

LOS ANGELES, Cal. — The city council has authorized the city engineer to prepare plans for improving Lincoln Blvd., from Venice Blvd. to Washington Blvd., utilizing the eighty-foot width of street acquired by condemnation proceedings in 1929. The Board of Supervisors will be asked to allocate the sum of \$40,000 toward the cost.

STOCKTON, San Joaquin Co., Cal.—Willard, Biasotti & Lovatti, 40 W. Clay St., Stockton, at \$10,649 awarded contract by county supervisors to improve Davis and Telegraph roads from the Five Mile House on the Davis road and from the north end of Wagner Heights road over the first drainage canal on the Telegraph road, involving:

- (1) 900 cu. yds. grading;
- (2) 1230 tons gravel;
- (3) 80 barrels fuel oil;
- (4) 3350 tons top course, asph. conc., plant mix.

Complete bids follow:
(A) Willard, Biasotti & Lovatti, \$10,649.00.

(B) C. W. Wood, Stockton, \$12,935.50. Unit bids follow:

	(A)	(B)
(1).....	\$.40	\$.50
(2).....	1.05	1.85
(3).....	1.50	2.00
(4).....	2.65	3.00

OAKLAND, Calif.—Hutchinson Co., 1450 Harrison St., Oakland, at prices shown below, submitted low bid for first three items to East Bay Municipal Utility District for 40,000 sq. ft. of street repair work, as follows:

- (1) 1,300 cu. ft. asph. conc. base, complete in place;
- (2) 35,000 sq. ft. asph. street paving, complete surface;
- (3) 3,000 sq. ft. asph. street paving repair, skin patching only;
- (4) 500 cu. yds. concrete, wet mix, delivered at trench, exclusive of spreading.

Bidders follow:

- (A) Hutchinson Co., Oakland.
- (B) Independent Const. Co., Oakland.
- (C) W. H. Larson, Berkeley.
- (D) Transit Concrete, Ltd., Oakland.
- (E) Makin & Kennedy, Oakland.
- (F) Melrose Bldg. Materials Co., Oakland.

Unit bids follow:

	(1)	(2)	(3)	(4)
(A).....	\$.25	\$.19	\$.08	\$.....
(B).....	.35	.195	.10	8.16
(C).....	.40	.22	.05	.....
(D).....	.....	.....	.....	8.16
(E).....	.....	.....	.....	8.16
(F).....	.....	.....	.....	8.16

Bids held under advisement.

SEATTLE, Wash.—Until June 22, 10 A. M., bids will be received by Board of Works, Seattle, to construct Railroad Ave. improvement, including sea wall, sewers, sidewalks, etc., and paving work bet. Madison and Bay Sts., involving:

- 3,561 tons steel sheet piling;
 - 245,000 cu. yds. embankment;
 - 403,000 lin. ft. piling;
 - 2,288 MFBM lumber;
 - 1,754 tons reinf. steel;
 - 15,000 cu. yds. concrete;
 - 40,640 sq. yds. 9-in. conc. paving;
 - 9,740 ft. c. i. watermains;
 - 6,200 ft. pipe sewers.
- Estimated cost, \$1,200,000. Previous bids returned unopened.

PORT TOWNSEND, Wash.—Until June 27, bids will be received by U. S. Treasury Dept., Washington, D. C. for construction of a boat basin and grading in connection with the Port Townsend Quarantine Station.

LOS ANGELES, Cal. — Bids will be called at once by the Board of Public Works for improving streets in the Gaffey St. and Fourth St. Improvement District, San Pedro, under the 1911 Act. The council previously allocated \$200,000 toward this work and approximately fifty per cent of the waivers of damages have been obtained by the city engineer. The board of public works was also authorized to award the contract when all the waivers have been obtained. The streets to be improved are: Gaffey St., Channel St., to 9th St.; Channel

St., Wilmington-San Pedro Rd. to Gaffey St.; First St., Grand Ave. to Cabrillo Ave.; Third St., Grand Ave. to Gaffey St.; Marshall Court, and General Ave., Elberon Ave. to Summerland Ave. The work involves:

- Grading (73,500 cu. yds. cut, 48,000 cu. yds. fill);
- 241,718.91 sq. ft. 6-in. concrete base with 2-in. asphalt concrete wearing surface;
- 183,543.36 sq. ft. 6-in. asphalt concrete base with 2-in. asphalt concrete wearing surface;
- 434.19 sp. ft. 7-in. asphalt conc. pavement;
- 21,490.76 sq. ft. 8-in. asphalt concrete pavement;
- 4,598.47 sq. ft. 8-in. conc. pavement
- 45,989.31 sq. ft. 7-in. conc. pavement
- 481.46 sq. ft. 6-in. conc. pavement
- 8,744.68 sq. ft. 5-in. conc. pavement
- 2,580 sq. ft. 8-in. concrete (local depressions);
- 2,566.86 sq. ft. 6-in. concrete (drive-ways);
- 94,493.92 sq. ft. resurfacing (variable thickness, average 3½-in.);
- 8,600.09 ft. combination gutter;
- 5,565.19 sq. ft. concrete curb;
- 16,102.19 ft. heavy curb;
- 53,254.52 sq. ft. walk;
- 25,246.03 sq. ft. oiled roadway;
- 4,260 ft. lighting conduit.

SAN FRANCISCO.—Until June 23, 3 P.M., bids will be received by the Public Utilities Commission, Felton Taylor, secretary, to repave street or sidewalk openings where pavement has been removed for San Francisco Water Department for fiscal year ending June 30, 1934, involving:

- (1) 60,000 sq. ft. light traffic concrete pavement;
 - (2) 100 sq. ft. heavy concrete with binder;
 - (3) 27,000 sq. ft. 6-in. Class E concrete pavement;
 - (4) 500 sq. ft. brick pave, on conc. base, incl. brick gutter;
 - (5) 100 sq. ft. asph. conc. 3½-inch base and 1½-in. wearing surf.;
 - (6) 400 basalt blocks on conc. base;
 - (7) 5000 do on sand;
 - (8) 47,000 sq. ft. sidewalk, all types;
 - (9) 100 sq. ft. 2-in. sheet asph. wearing surface;
 - (10) 100 sq. ft. 6-in. Class F concrete base;
 - (11) 120,000 sq. ft. asph. concrete 6-in. base and 2-in. wear. surf.;
 - (12) 100 sq. ft. do 8-in. base, 1½-in. binder course and 1½-in. wearing surface;
 - (13a) 100 sq. ft. oiled macadam, 4-in. base;
 - (13b) 2500 sq. ft. do, 8-in. base.
- Specifications obtainable from S. F. Water Dept., 425 Mason St., room 605.

FAIRFAX, Marin Co., Cal.—No further bids received and project abandoned by city council on Manor Hill Section street improvement. Project includes paving, curb and gutters, involving:

- (1) 15,104 cu. yds. grading;
 - (2) 10,380 lin. ft. conc. curb and gutter;
 - (4) 206 ft. 10-in. metal pipe culvert;
 - (5) 356 ft. 12-in. do;
 - (6) 192 ft. 18-in. do;
 - (7) 46 ft. 48-in. do;
 - (8) 22 concrete catchbasins, c.i. grating;
 - (9) 33 cu. yds. reinf. concrete retaining wall;
 - (10) 250 lin. ft. 6-in. sanitary sewer;
 - (11) 1 lamphole.
- Estimated cost, \$30,000. J. C. Oglesby, city engineer.

SPOKANE, Wash.—Chas. A. Power, S. 1703 Grand, Spokane, at \$18,467 with \$2 additional per cu. yd. solid rock excavated and backfill below base line, awarded contract by city council to pave a 20-ft. strip on Boone Ave. from Division to Monroe St.

SAN RAFAEL, Marin Co., Cal.—U. B. Lee, 1059 Carpentier St., San Leandro, at \$3940 awarded contract by county supervisors to treat with emulsified asphalt and screenings from 6-mi. northwest of Inverness Store, on the Point Reyes Light House Road, 2 mi., involving 200,000 sq. ft. emulsified asphalt and screenings in place. Complete bids follow:

- U. B. Lee, San Leandro.....\$3940
- Lee J. Immel, Berkeley..... 4140
- P. S. Harless, San Rafael..... 4320
- Helwig Constr. Co., Sebastopol.... 4360
- E. A. Forde, San Anselmo..... 4580
- Heafey-Moore Co., Oakland..... 5000

SAN JOSE, Santa Clara Co., Cal.—Until June 26, 11 A. M., bids will be received by Henry A. Pfister, County Clerk, to improve San Salvador St., from Meridian Road to the east line of Hannah St., in Supervisor District No. 4, involving 65,240 sq. ft. oil macadam. Specifications obtainable from Robert Chandler, county surveyor, on payment of \$1, not returnable.

SAN DIEGO COUNTY, Cal.—Until 2 P. M., June 21, bids will be received by S. V. Cortelyou, District Engineer, State Highway Commission 808 California State Office Bldg., Los Angeles, for highway construction between Sorrento Creek and Del Mar about 0.25 mile in length, to be graded and paved with portland cement concrete, involving:

- (1) 1000 cu. yds. imported borrow in place;
- (2) 5300 sq. yds. subgrade for pave.;
- (3) 1120 cu. yds. Class A portland cement conc. in place (pave.);
- (4) 25,000 lbs. bar reinf. steel in place (pave.);
- (5) 125 bbis. heavy fuel oil in place;
- (6) 150 cu. yds. existing surfacing to be removed and disposed of;
- (7) 460 lin. ft. existing guard rail to be removed and salvaged;
- (8) 14 stations finishing roadway.

FRESNO, Cal.—Until 11 A. M., June 23, bids will be received by the City of Fresno for furnishing 3000 feet of 2½-in. double jacket, rubber lined fire hose and couplings coupled in 50-ft. lengths for the fire department. A certified check in the amount of 10% must accompany each bid. H. S. Foster, City Clerk.

MONTEREY PARK, Los Angeles Co., Cal.—Woods Rock & Sand Co., Box 145, Azusa, awarded contract by city council to furnish rock, gravel and sand for a period of one year as follows:

- No. 1, 2, 3 and 4 rock at 90c ton.
- Gravel at 90c ton.
- Concrete and plaster sand at 95c ton.

SAN JOSE, Santa Clara Co., Cal.—Until June 26, 11 A. M., bids will be received by Henry A. Pfister, County Clerk, to improve Kooser Road from San Jose to Almaden Road to the Los Gatos and Almaden Road, Supervisor District No. 4, involving:

- (1) 223,600 sq. ft. asph. concrete;
 - (2) 4,460 sq. ft. additional 16-ft. pavement.
- Specifications obtainable from Robt. Chandler, county surveyor, on payment of \$1, not returnable.

TULARE COUNTY, Cal.—Basleh Bros., 20,550 Normandie Ave., Torrance, at \$146,117.05 awarded contract by State Highway Commission, Sacramento, to grade and pave with asphaltic concrete about 4.2 mi. between Plaze Garage and Goshen; and to construct an undergrade crossing under the tracks of the S. P. Co. near Plaza Garage.

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

IMP. VENICE BLVD. — LOS ANGELES

LOS ANGELES, Calif.—Associated Constructors, Inc., 1226 S La Brea Ave., submitted low bid to the board of public works May 31 at \$101,004.30 for the improvement of Venice Blvd. (south roadway) between La Cienega Blvd. and Overland Ave., cash contract, involving:

- (1) grading (9154 yds. excav., 1181 yds. fill);
- (2) 399,609 sq. ft. 8-in. compressed concrete paving;
- (3) 16,733 sq. ft. 8-in. Class E concrete paving;
- (4) 511 sq. ft. 8-in. concrete paving (including local depressions);
- (5) 484 sq. ft. 8-in. concrete gutter;
- (6) 472 sq. ft. 6-in. concrete gutter (Class E concrete);
- (7) 417 tons asphalt concrete wearing surface;
- (8) 507 tons asphalt concrete base;
- (9) 420 sq. ft. 6-in. asphalt concrete paving (4-in. base & 2-in. wearing surface);
- (10) 25,308 sq. ft. 4-in. asphalt concrete wearing surface;

- (11) 2511 ft. unplastered heavy curb;
- (12) 86 ft. unplastered heavy curb with vertical back;
- (13) 519 ft. curb armor;
- (14) 5407 sq. ft. 3-in. concrete walk;
- (15) 318 sq. ft. 4-in. concrete walk (driveways);
- (16) 230 sq. ft. 7-in. concrete gutter;
- (17) 350 sq. ft. 6-in. do;
- (18) storm drain;
- (19) 74 ft. galv. iron pipe guard rail;
- (20) concrete curtain walls and concrete curb walls, not including guard rail;
- (21) ornamental lighting reconstruction and installation;
- (22) 22 manholes to be reset.

The total bids were:

- (A) Associated Constructors, Inc., \$101,004.30.
- (B) Geo. H. Oswald, \$102,104.15.
- (C) Southern California Roads Co., \$105,084.13.
- (D) J. L. McClain, \$105,556.56.
- (E) Griffith Co., \$106,775.55.
- (F) Engineer's estimate, \$106,517.13.

The unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)
(1).....	\$5331.00	\$4000.00	\$4700.00	\$5000.00	\$5560.00	\$5430.00
(2).....	.203	.213	.215	.215	.22	.215
(3).....	.165	.16	.18	.19	.18	.183
(4).....	.18	.17	.18	.19	.18	.18
(5).....	.14	.21	.20	.19	.22	.204
(6).....	.115	.13	.16	.15	.15	.15
(7).....	2.73	2.60	3.00	2.90	2.65	2.83
(8).....	2.73	2.60	3.00	2.90	2.60	2.81
(9).....	.11	.10	.12	.12	.10	.106
(10).....	.06	.075	.08	.07	.07	.07
(11).....	.36	.40	.40	.40	.40	.41
(12).....	.30	.40	.40	.40	.40	.41
(13).....	.82	.80	.75	.80	.70	1.00
(14).....	.11	.09	.10	.10	.10	.092
(15).....	.13	.125	.12	.13	.12	.14
(16).....	.135	.20	.20	.17	.17	.18
(17).....	.12	.18	.16	.14	.15	.167
(18).....	2794.00	2000.00	2400.00	2800.00	2000.00	2980.00
(19).....	1.50	1.60	1.50	1.70	1.50	2.00
(20).....	115.00	160.00	300.00	200.00	150.00	185.00
(21).....	2334.00	1250.00	1350.00	1350.00	1300.00	1800.00
(22).....	72.00	100.00	75.00	100.00	150.00	88.00

OAKLAND, Calif.—Art Concrete Works, 24th and Aedline Sts., Oakland, at \$3950 submitted low bid to East Bay Municipal Utility District, Oakland, to furnish:

- (1) 3000 concrete meter boxes;
- (2) 5000 concrete covers;
- (3) 75 boxes with covers;
- (4) 75 boxes with covers.

Complete bids follow:

- (A) Art Concrete Works, Oakland, \$3950.00.
- (B) Forni Mfg. Co., Oakland, \$4112.50

Unit bids follow:

	(A)	(B)
(1).....	\$1050.00	\$1200.00
(2).....	2450.00	2500.00
(3).....	123.75	112.00
(4).....	326.75	300.00

Bids held under advisement.

OAKLAND, Calif.—Theo. Johanns, 2020 15th St., San Francisco, at \$4,964.50 submitted low bid to county supervisors to construct a reinforced concrete box culvert on the Valle Vista Road, Eden Township, involving:

- (1) 260 cu. yds. struc. excav.;
- (2) 275 cu. yds. concrete in struc.;
- (3) 44,000 lbs. reinf. steel;
- (4) remove existing bridge, lump sum.

Complete bids follow:

- (A) Theo. Johanns, S. F., \$4964.50
- (B) J. R. Armstrong, Oakland 5213.35

- (C) F. A. Stead, Berkeley, 5420.25
- (D) Whited & Whited Santa Rosa 5487.50
- (E) W. E. Lyons, Oakland 5626.00
- (F) Martin Murphy, Berkeley 5672.50
- (G) H. Sneed, Berkeley, 5845.00
- (H) Albany Cement Cont., 5948.00
- (I) E. T. Lesure, Oakland 5972.50
- (J) J. H. Fitzmaurice, Oakland 6073.80
- (K) C. A. Bruce & Sons Pleasanton 6529.50
- (L) L. Sartorio, S. F., 6529.50

Unit bids follow:

	(A)	(B)	(C)	(D)
(A).....	\$1.00	\$11.62	\$.0275	\$ 299.00
(B).....	.55	10.97	.0239	1002.00
(C).....	2.00	12.95	.02475	250.00
(D).....	.70	12.70	.027	625.00
(E).....	.55	13.20	.025	753.00
(F).....	1.50	11.50	.03	800.00
(G).....	1.00	13.40	.03	490.00
(H).....	1.00	12.00	.0225	1398.00
(I).....	.85	13.86	.025	840.00
(J).....	1.50	14.00	.024	767.00
(K).....	.75	14.00	.027	1000.00
(L).....	1.25	15.00	.028	600.00

Bids held under advisement until June 15.

LOS ANGELES, Calif.—Bids for furnishing and delivering to water and power department, f.o.b. warehouse at 410 Ducommun St., for hydraulically-operated gate valves, Specifications No. 3094, opened by City Purchasing Agent, A. J. Holm, June 6. The bids were taken as follows:

- (1) one 30-in. gate valve;

- (2) one 18-in. gate valve.

Bidders follow:

- (A) Hacker Pipe & Supply Co. (net).
- (B) Grinnell Co., (2% 30 days).
- (C) Rensselaer Valve Co. (net).
- (D) Crane Co., (2%, 30 days).
- (E) Crane Co.—Alt., cast steel (2% 30 days).
- (F) Water Works Supply Co. (net).

	(1)	(2)	Days
(A).....	\$1699.00	\$ 794.00	60
(B).....	1774.75	801.25	60
(C).....	1785.00	855.00	45
(D).....	1900.00	855.00	40
(E).....	2248.00	1066.50	40
(F).....	1955.00	882.00	60

SACRAMENTO, Cal.—The following submitted low bids to county supervisor for highway construction:

Rio Linda Road—A. Teichert and Son, P. O. Box 1118, Sacramento, at \$4002.10 for shoulder construction, involving:

- (1) 23,570 sq. ft. road rock, 2½-feet wide, 4-in. thick;
- (2) 28,150 sq. ft. asph. macadam top, 2-in. thick, 2½-in. wide.

Complete bids follow:

- (A) A. Teichert & Son, Sacramento \$4002.10
- (B) J. R. Reeves, Sacto., 4303.26
- (C) E. F. Hilliard, Sacto., 4326.83

Unit bids follow:

	(A)	(B)	(C)
(1).....	\$.085	\$.093	\$.094
(2).....	.071	.075	.075

Old Marysville Road—E. F. Hilliard 1355 43rd St., Sacramento, at \$2688.38, involving:

- (1) 23,750 sq. ft. road rock shoulders;
- (2) 6,332 sq. ft. 2-in. asph. macadam top.

Complete bids follow:

- (A) E. F. Hilliard, Sacto., \$2688.38
- (B) J. R. Reeves, Sacto., 2889.45
- (C) A. Teichert & Son, Sacramento 2924.29

Unit bids follow:

	(A)	(B)	(C)
(1).....	\$.09	\$.095	\$.097
(2).....	.087	.10	.098

El Paso Blvd.—McGillivray Const. Co., Folsom Blvd. and 65th St., Sacramento, at \$8389.80, involving:

- (1) 50,500 sq. ft. asph. conc. paving;
- (2) 1,670 cu. yds. excavation;
- (3) 4,670 lin. ft. 2x4-in. headers;
- (4) 70 lin. ft. 12-in. corr. metal pipe
- (5) 100 lin. ft. 8-in. do.

Complete bids follow:

- (A) McGillivray Const. Co., Sacramento \$8389.80
- (B) Clark & Henry, Stockton 8945.70
- (C) A. Teichert & Son, Sacramento 9284.90

Unit bids follow:

	(A)	(B)	(C)
(1).....	\$.128	\$.137	\$.145
(2).....	.69	.76	.72
(3).....	.10	.10	.10
(4).....	1.95	1.80	1.90
(5).....	1.70	1.65	1.60

Greenback Lane—W. H. Larson, 2805 Parker St., Berkeley, at \$4257 (\$,099 sq. ft.) for 43,000 sq. ft. asph. macadam shoulders 6-in. thick. Other bids follow:

- A. Teichert & Son, Sacramento, \$5117.
- E. F. Hilliard, Sacramento, \$122; \$5246.
- J. R. Reeves, Sacramento, \$15; \$6,450.

All bids held under advisement.

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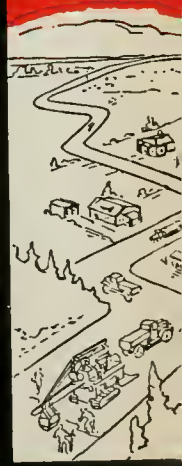
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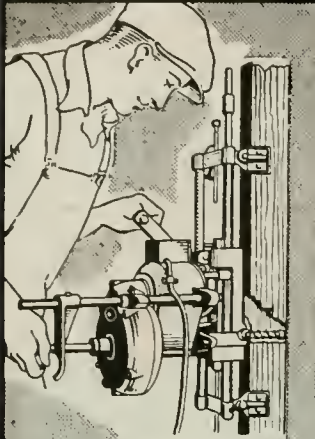
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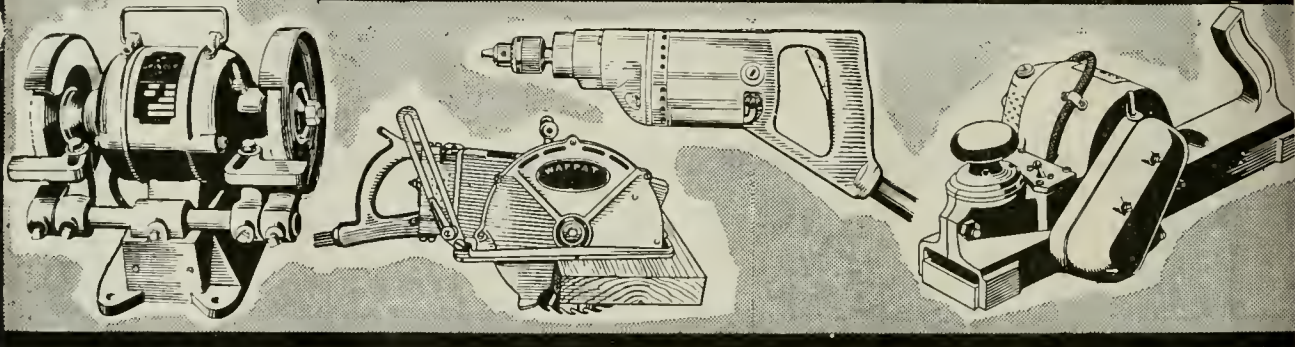
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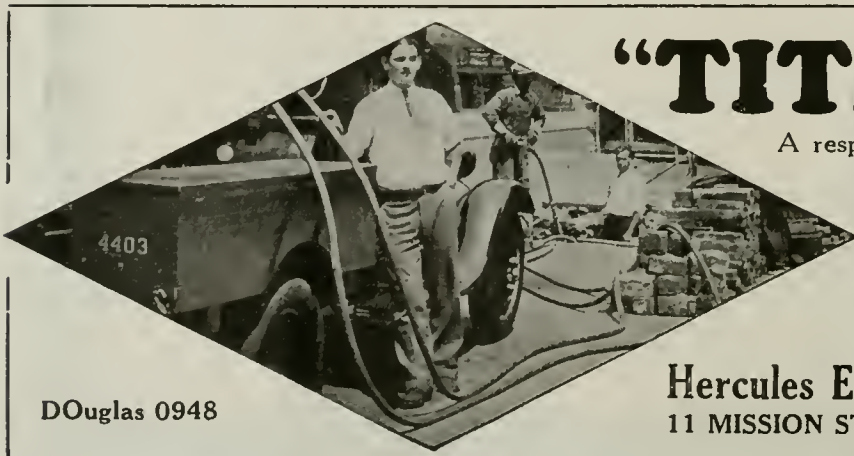
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SAM B. EUBANKS, Editor

Vol. XVI

SAN FRANCISCO, CALIF., JUNE 24, 1933

No. 23

LUMBER BACKLOG NOW 41 Pct. OF MILL INVENTORY

New Business Increases To Set Weekly Record For Two Years

Orders at western lumber mills reporting to the West Coast Lumbermen's Association for the week of June 10, increased 17,000,000 feet from the previous week, reaching the highest point recorded since the corresponding week in 1931.

Gains were registered in the rail and domestic cargo markets, foreign and local trades both decreasing.

Unfilled orders are 41 per cent of the stocks in the Douglas fir region, the highest ratio since October, 1929. Since January 1 orders have averaged 24.6 per cent in excess of production and 17 per cent more in volume than during the same period last year. Production since January 1 has been 2.9 per cent under the same period in 1932.

"These factors combined with active buying result in a better marketing position for the industry than at any time in two years. The weakness is lack of consumption through building," says the association report.

A total of 252 down and operating mills in the week ending June 10 produced 94,268,283 board feet of lumber. This was an increase of 1,452,340 feet or 13.8% over their output of the preceding week. The average week's production of this group of sawmills in 1933 has been 54,160,650 feet; during the same period in 1932, their weekly average was 65,615,503 feet.

The new business reported last week by 180 mills is 123,855,768 board feet against a production of 83,518,409 feet and shipments of 104,286,119 feet. Their shipments were over their production by 23.47% and their current sales were over production by 54.45%. The orders booked last week by this group of identical mills were more than their orders of the preceding week by 16,861,938 feet or 15.06%.

The unfilled order file at those mills stood at 422,064,944 board feet, an increase of 24,755,835 feet from the week before.

THE WEEK'S NEWS Highlights

MATERIAL PRICES—Increases in the price of both lumber and steel were announced in the bay district during the week. Lumber was advanced \$2 per thousand. Steel prices were established at approximately 20 per cent above former quotations. Other increases in principal lines are expected daily.

TRADE CODES—Various contractor and material groups are hastening to complete competitive fair practice codes under terms of the National Industrial Recovery Act. California State Builders' Exchange directors voted to call conferences of builders in San Francisco and Los Angeles at an early date to consider a workable code for the state industry. Associated General Contractors will meet in Chicago June 26 to approve a national code for general contractors embracing all contractors undertaking construction work in its entirety to cost more than \$1000. Lumbermen will be among the first material groups to operate under national regulation, the National Lumber Manufacturers Association having taken the leadership in drafting regulations which will be submitted for final approval at a Chicago meeting June 30.

HIGHWAY WORK—First contracts to be advertised under the new Federal highway program are those for forest road work authorized by the Bureau of Public Roads. State highway departments are preparing to issue bid calls as soon as money is available. Work in California has been suspended pending a decision on the allocation of gasoline tax money. When the legislature convenes again in July it will decide finally whether or not \$17,000,000 of revenue to be collected from the gasoline tax in the next biennium will be diverted to pay old bonded indebtedness for state highways. Legislators are expected to take their cue from the state vote on Propositions 9 and 10 next Tuesday.

CITY IS ASSURED FEDERAL BENEFITS, MAYOR INFORMED

San Francisco In Excellent Position To Obtain Public Work Assistance

In response to a telegram asking whether outstanding long term bonds for city construction projects would be purchased by the federal government under the National Industrial Recovery Act, Mayor Angelo J. Rossi Saturday received word from Paul V. Betters, secretary of the United States Conference of Mayors at Washington, to the effect that the government would decidedly favor cities having such bonds for sale.

"San Francisco is singularly fortunate in being able to offer such unsold bonds," Betters said. "The government, in my opinion, is anxious to consider first projects against which bonds have been issued."

"The city may either sell the bonds to cover the total cost of the project, and use the federal thirty per cent grant to meet principal and interest payments for a number of years, or use the grant for construction and sell the bonds to make up the remaining seventy per cent."

Answering the mayor's query as to the system of allocation of funds to be followed by the federal administrator, Betters said:

"There has been no official statement as yet. I believe no fixed allocation of limit to states or cities will be made. Each project will be considered on the grounds of necessity and merit, and with regard to unemployment relief and financial condition of the city in question."

"On the above basis, I believe that San Francisco is in a very favorable position to obtain assistance."

Betters pointed out that the proposed hundred per cent grant for municipal highway projects would especially affect San Francisco.

He assured Mayor Rossi that he will keep him posted on developments at Washington.

The mayor has on file in his office a list of tentative projects submitted by city department heads, ready to be forwarded to the federal or state administrator of the \$3,300,000,000 federal fund.

FIRMS JOIN IN COMMITTEE TO PROMOTE FIBRE

Eleven Manufacturers of In- sulation Materials Form Technical Board

The eleven companies constituting the Insulation Statistical Bureau have organized a committee to deal with technical phases of the manufacture and use of fibre insulating boards. Formation of this committee is the result of the rapid growth of the fibre insulation board industry since 1920.

The committee consists of E. C. Lloyd, Chief Engineer, Armstrong Cork & Insulation Co.; R. T. Miller, Chief Engineer, The Masonite Corp.; E. W. Morrill, Assistant to General Sales Manager, The Insulite Co.; C. K. Roos, Manager, Research Dept., United States Gypsum Co., and T. B. Munroe, The Celotex Co., Chairman.

The general functions of the committee include the following five specified activities:

1. To acquire and circulate data of technical nature which affects the insulation board industry.
2. To associate itself with assistance such as American Society of Testing Materials, National Committee on Wood Utilization, etc., or the Technical Department of any member company.
3. The study of standards and specifications of insulation board in manufacture and in use. This to include the study of sizes, thicknesses, specifications for various uses.
4. To collect through its members all building codes affecting fibre board industry and report to the Bureau with recommendations for action thereon.
5. Keeping contact with various government departments and following government specifications of a technical nature so as to make recommendations regarding government specifications of a technical nature so as to make recommendations regarding government specifications as affecting the products of members.

The companies constituting the bureau are: Armstrong Cork Co., The Celotex Co., The Insulite Co., Johns-Manville Co., Masonite Corporation, National Gypsum Company, Stewart Inso-Board Corp.; U. S. Gypsum Co., The Upson Co., Wood Conversion Co., Wood Fibre Board Corp., Hawaiian Cane Products, Ltd.

NAME ARCHITECTS FOR NEW BREWERY

O'Brien Brothers and W. D. Peugh, architects, have been commissioned to prepare plans for a brewery to be built by the Samarkand Brewing Co. of San Francisco. The brewery will be located in Oakland, on a site to be announced later. It will cost \$275,000 and will be of 100,000 barrel capacity. Original announcement of the project was made coincident with incorporation of the company, which is associated with the Samarkand Ice Cream Company, 893 Folsom street.

LICENSE FEES

DUE JUNE 30

Delinquency Doubles Registra- tion Cost, Registrar

Warns

California contractors are cautioned by Col. Carlos W. Huntington, state registrar of contractors, that they must apply for their new license for the ensuing year before June 30, if they intend to continue in business.

With improved economic conditions and an optimistic business outlook prevailing, it is expected that the number of contractors who will obtain a license during the ensuing fiscal year will show a sharp increase, according to the registrar. Approximately 22,000 contractors are now registered.

Under the provisions of Assembly Bill 780, recently approved by Governor James Rolph, Jr., the renewal fee for persons engaged in the building and construction industry was reduced 50 percent, or from \$10 to \$5. New applicants are required to pay a fee of \$10.

Col. Huntington, who is also director of professional and vocational standards in the Governor's cabinet, estimated that the cut in license renewal fee would result in a saving of \$110,000 yearly for the building and construction industry.

"Under the provisions of the amendments to the contractors' registration act," Col. Huntington said, "we are compelled to require every person engaged in the building and construction industry to apply for their license before June 30.

WORK RUSHED ON S. F. BAY BRIDGE BY CONTRACTORS

Kelly Inspects Preparations for Actual Construction of Span

After inspecting San Francisco Oakland Bay Bridge preparatory work on both sides of the bay in company with contractors and Chief Engineer C. H. Purcell State Director of Public Works Earl Lee Kelly expressed satisfaction that every possible effort was being made to rush the actual construction of this project.

"Governor Rolph's order that the bridge work start as early as possible on as many sectors as possible to give the greatest number of men employment at the earliest possible date is being carried out with enthusiasm by every man on this bridge," Director Kelly declared.

By July 9, when ground will be officially broken, everything will be in readiness to start work on both the east and west bay substructures and Yerba Buena Island.

Director of Public Works Kelly and Chief Engineer Purcell were accompanied on the tour of inspection by H. Buford Fisher, chairman of the Junior Chamber of Commerce Ground Breaking Committee, and Barrett G. Hinds, Vice-Chairman.

Chas. F. Swigert, President, and J. A. McEachern, Vice President of the Transbay Construction Co. which has made a construction office of Pier 24, showed the visitors the work on the piling at the end of Pier 24, which piles are being removed to make way for the most westerly pier of the San Francisco Oakland bridge.

After an inspection of this work the state officials and junior chamber officers were taken in a speed boat owned by Henry J. Kaiser President of Bridge Builders, Inc. to the east bay where preparations for the substructure between Yerba Buena Island and Oakland were viewed.

They also visited the construction office and storage yard of Bridge Builders, Inc., on the Pier Terminals in the east bay, and the site of the three concrete mixing plants to be installed by the Kaiser Paving Company on the Western Pacific Railroad mole, Southern Pacific mole, and Yerba Buena Island, which will supply ready mixed concrete by barge to the contractors building piers in the bay.

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\$65,000,000 S. F. STREET PROGRAM IS RECOMMENDED

Planning Commission Outlines Traffic Routes To Bay Bridge Approaches

A \$65,000,000 program for street improvement in San Francisco, treating traffic arteries to facilitate vehicle movement toward the two bay bridges, has been prepared by the City Planning Commission.

The special study of arterial highway needs for the city includes the following recommendations:

Harrison - Duboce - Panhandle Golden Gate Park route to Funston and thence through Presidio, to create main highway between two bridgeheads. Cost \$3,600,000.

Lombard street widening, Van Ness to Lyon with diagonal new street to reach elevated viaduct through Presidio to the Golden Gate bridge. Cost, \$1,400,000

Nineteenth avenue widening, from Lincoln Way to Sloat Boulevard and sunken road across Golden Gate Park to Funston avenue and Fulton street. Cost, \$1,765,000.

Panhandle extension to Duboce to Harrison and second route northerly to Scott to any suitable street between Oak and Fulton. Cost, \$3,100,000.

Broadway tunnel—Gives a direct route from down town to Western Addition. Cost, \$1,500,000.

Fulton street, Franklin to Masonic, widening. Cost, \$1,150,000.

Potrero, widening and extension, Harrison to Army. Cost, \$1,550,000. San Jose Ave. widening. Cost, \$1,800,000.

Dolores street, tunnels to avoid heavy grades at two points. Cost indefinite, depending upon plan adopted.

Divisional highway, Castro to Divisadero. Cost, \$250,000.

BEWARE OF FAKE LICENSE INSPECTOR

Complaints have been received by the San Francisco office of the State Registrar of Contractors of the operations of a subscription solicitor who poses as a collector of license fees for the state bureau. His methods are similar to those used to victimize contractors in other parts of the state last fall. The solicitor pretends to issue a license receipt in return for a subscription to a contractors' magazine. Investigation by N. J. Morrissey, district inspector from the local office, has provided the bureau with a description of the imposter who is said to have displayed faked credentials in soliciting license renewals.

CIVIL SERVICE EXES FOR ROAD ENGINEERS

Examinations for federal civil service lists in the classifications of senior highway construction supervisor and senior highway design engineer have been announced by the United States Civil Service Commission to close July 14.

The examinations are to fill vacancies in the Bureau of Public Roads, Department of Agriculture, Washington, D. C., and vacancies occurring in positions requiring similar qualifications throughout the United States.

The entrance salaries for these positions range from \$4,600 to \$5,400 a year, less a deduction of not to exceed 15 per cent as a measure of economy and a retirement deduction of 3½ per cent.

Competitors will not be required to report for a written examination, but will be rated on their education and experience. Applicants must have had certain specified education and experience.

Full information may be obtained from the Secretary of the United States Civil Service Board of Examiners at the post office or customhouse in any city, or from the United States Civil Service Commission, Washington, D. C.

PENINSULA MEN SEEK POSITION AS INSPECTOR

San Mateo Manager Will Name County Building Authority Next Week

The race for position of San Mateo county building inspector under the new charter, which attracted a dozen candidates from all parts of the county, has narrowed down to three men, one of whom will be recommended to the board of supervisors next week, it was announced by County Manager Walter P. Kellogg at Redwood City yesterday.

The first county building inspector will be one of the following men it was reported:

William Logue, Jr., 1400 B street, San Mateo, business agent of the County building trades council; Wm. Watson, 11 East Carol avenue Burlingame, prominent San Francisco architect; Stanley W. Schawler, Atherton, builder.

The large number of candidates, all well fitted for the job, necessitated the list being narrowed down to those with the highest qualifications, the manager explained. He is now studying the merits of those three. Numerous endorsements from San Mateo county civic and business leaders makes the final selection difficult, Kellogg stated.

The new building chief will take an active part in the drafting of new county building codes, particularly as they apply to the unincorporated areas and will work hand in hand with the county planning commission, according to Kellogg. The inspector's salary is not fixed by the charter so must be set by the supervisors.

OFFICES MOVED

T. E. McNulty, manufacturer's representative for Corry Metal screens and blackboards, has moved to a new location at 130 Battery street. His offices formerly were at 320 Market street residence.

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YOUNG OPPOSES PLAN TO RAID HIGHWAY FUND

**Proposal is Betrayal of State's
Promise in Levying Tax,
Says Ex-Governor**

Diversion of \$17,000,000 of gasoline tax monies in the State general fund, as provided for in Propositions 9 and 10 on the June 27 special election ballot, would be unwise and dangerous, former Governor C. C. Young said yesterday in a statement issued through the Highway Protective Committee.

An ardent supporter of California's highway program through a long legislative career and as lieutenant governor and then governor of the state, ex-Governor Young views with apprehension the move to use gas funds for purposes other than those for which they were authorized, namely the construction and maintenance of good roads. Young said:

"In my opinion, Propositions 9 and 10 are unwise and dangerous, as creating a precedent of transferring to the general fund money which was raised by a special tax on the motorist for the specific purpose of maintaining and improving our highways. I do not believe that gas taxes which have been willingly paid for this purpose can justly be diverted to any other purpose, and I believe that this first attempt at such diversion should be strongly rebuked at the polls.

"The payment of interest on old highway bonds was from the first clearly regarded as a charge against the general fund, and has always been paid from that fund, the gas tax being devised ten years ago, not to pay the bills for previous highways, but to pay for highway construction and maintenance in the future.

"The proposed diversion of gas tax funds is especially unwise at the present time for two reasons:

1. The legislature has just enacted laws taking over 6600 miles of county roads to be hereafter maintained by the State, and furthermore devoting a portion of the gas tax for the improvement of city streets. By these two actions, to preserve every cent of our present gas tax funds is doubly necessary, and at the same time sharp reductions in local road and street taxes is made possible.

2. The proposed diversion of gas tax money will so restrict highway construction as to throw thousands of men out of work, since 90% of highway costs goes to labor. It seems a little absurd to vote \$20,000,000 in bonds for the relief of unemployment and at the same election to vote away nearly the same amount of practical unemployment relief.

"This gas tax diversion is asked as an aid to balancing the present budget; but I urge that it be balanced otherwise than by the unjust confiscation of money paid by the motorist for another district purpose."

NEW WOOD UTILITY TO CHANGE MILLING

Saw mill operators will soon be called upon to deliver prefabricated structural lumber, bored, drilled and shaped, guaranteed as to quality and moisture content and ready for immediate erection without further cutting, according to Axel H. Oxholm, Director, National Committee on Wood Utilization, of the Department of Commerce.

Only in this manner can full advantage of the modern connector system be secured. This new construction method recently was introduced by the National Committee on Wood Utilization and the Forest Products Laboratory of the Department of Agriculture. An engineering report under the title of "Modern Connectors for Timber Construction," was released.

According to Oxholm, who has followed the practical application of this system in Europe, the most important European sawmills catering to this trade are equipped to furnish the lumber cut, shaped, drilled and bored according to blue prints. Our sawmills must go one step further and in addition deliver stocks seasoned to a definite guaranteed moisture content. Under certain conditions seasoned lumber is twice as strong as green material. It is therefore easily seen that the engineers must definitely know the moisture content of each piece in order to determine its load carrying capacity. Each structural member might also be marked so as to show its minimum strength.

Undoubtedly this modern connector system will require a further development of standard sizes and grades of prefabricated building lumber.

Through a process of simplification of sizes and grades distributors will be able to keep in stock certain prefabricated building lumber items most in demand. It is also possible to visualize the development of standard designs of certain wood structures partly made up of interchangeable wooden members.

This new construction system also permits chemical treatment after prefabrication thereby protecting against exposed surfaces.

"A new era of wood construction has arrived. It is up to the lumber industry to make this new construction system a success," concludes Oxholm.

OAKLAND ENGINEERING SERVICE IS FORMED

G. F. Dodge and J. E. Searles announce their association in the practice of mechanical and industrial engineering, with headquarters at 142 McGee avenue, Oakland. They will offer consultation in all engineering work with special experience in mine, mill and smelter construction, sand and gravel and crushed rock plants, building heating and ventilation and industrial power plants.

FOUR-YEAR TREND REVERSED BY MAY GAIN IN BUILDING

**Residential Work Increases
Over April for First Time
Since 1929**

Indicated expenditures for total building construction in May were 128.6 percent greater than in April 1933, according to reports received by the Bureau of Labor Statistics of the United States Department of Labor from 761 identical cities having a population of 10,000 or over. The 1933 increase of May over April was over five times greater than the increase shown in comparing these two months in 1932.

Comparing May 1933 with April 1933, there was an increase of 32.8 percent in the number and an increase of 75.6 percent in the estimated cost of new residential buildings. This is the first time in four years that indicated expenditures for residential buildings was greater in May than in April.

New nonresidential buildings increased 16.2 percent in number and 240.9 percent in indicated expenditures. There was an increase of 12.7 percent in the number of additions, alterations and repairs and an increase of 31.7 percent in indicated expenditures for this type of structure. The total number of building operations increased 14.6 percent during this period. During May 1933, 3,732 family-dwelling units were provided in new buildings. This is an increase of 61.0 percent as compared with April. The index number of total building operations increased from 9.5 in April to 21.7 in May.

The various agencies of the United States Government awarded contracts during May for buildings to cost \$2,127,603. This is over \$2,500,000 less than the value of contracts awarded during April 1933, and more than \$27,000,000 less than in May 1932.

Comparing permits issued in 347 identical cities having a population of 25,000 or over in May 1933 and May 1932, there was a decrease of 12.1 percent in the number of new residential buildings, but an increase of 5.4 percent in indicated expenditures for new residential buildings. New nonresidential buildings decreased 16.8 percent in number and 15.9 percent in estimated cost.

There was an increase in both the number and estimated cost of additions, alterations, and repairs. The number increased 12.8 percent and indicated expenditures 19.1 percent. The total number of building operations, comparing May 1933 with May 1932, increased 3.7 percent, while indicated expenditures decreased 7.4 percent. The number of family-dwelling units provided in these 347 cities increased 16.1 percent, comparing May 1933 with May 1932.

PERMITS AND CONTRACTS

SAN FRANCISCO COUNTY

394	Chevrolet	Andersen	1000
395	Bray	Morris	7000
396	Herbst	Siegrist	4700
397	Hunt	Papenhausen	6500
398	Solari	Coburn	15000
399	Ruegg	Lindsay	3625
400	Bush	Isaac	6450
401	Biglieri	DeLuca	23000
402	Herzig	Owner	8000
403	Herzig	Owner	4000
404	Stevens	Owner	3000
405	Traverso	Masarie	6000
407	Acme	Owner	4000
408	Warden	Warden	3000
409	Inberg	Owner	2000
410	Binet	Owner	4000
411	Hutchins	Bowman	5887
412	Giacobbi	Hjul	1000
413	Kearney	Duprey	8000
414	Cicero	Owner	3000
415	Liebman	Owner	35000
416	Neiger	Johnston	3000
417	Mercantile	Thulin	1000
418	Chevrolet	Anderson	1000
419	Arnott	Owner	4000
420	Arnott	Owner	4500
421	Gilpin	Medrow	4000

ALTERATIONS

(394) NO. 1710 VAN NESS AVE.
Alter store.
Owner—Chevrolet Motor Co. of California, Premises.
Architect—Not Given.
Contractor—L. R. Andersen, 253 States St., San Francisco. \$1000

FLATS

(395) W FOURTEENTH AVE 58 N Kirkham St. Two-story and basement frame (2) flats.
Owner—W. G. Bray, 3500 Fulton St., San Francisco.
Plans by Contractor.
Contractor—A. T. Morris, 3500 Fulton St., San Francisco. \$7000

ADDITION

(396) E TENTH ST. 80 S Mission. Addition to shop.
Owner—Herbst Bros., 1525 Mission St., San Francisco.
Architect—Not Given.
Contractor—F. R. Siegrist, 604 Mission St., San Francisco. \$4700

DWELLING

(397) E SAN BENITO 277 S San Anselmo. Two-story and basement frame dwelling.
Owner—Anne P. Hunt, 118 Santa Clara St., San Francisco.
Architect—Masten & Hurd, 233 Post St., San Francisco.
Contractor—H. Papenhausen, 595 Victoria St., S. F. \$6500

REPAIRS

(398) 1185 PINE ST.; repair fire damage to apts.
Owner—Solari, care contractor.
Architect—Not Given.
Contractor—L. W. Coburn, 2048 Market Street. \$15,000

DWELLING

(399) E HARVARD 100 N Silliman; one-story and basement frame dwelling.
Owner—E. & S. Ruegg, 625 Pennsylvania St.
Architect—Not Given.
Contractor—B. C. Lindsay, 4363 26th Avenue. \$3625

FLATS

(400) 1427 TARAVAL ST.; two-story and basement frame (2) flats.
Owner—J. Bush, care contractor.
Architect—S. A. Colton, Flatiron Bldg.
Contractor—H. H. Isaac, 1738 Page St. \$6430

APARTMENTS

(401) E PARKER AVE. 175 N Geary St. Three-story and basement frame apartments (12 families).
Owner—J. Biglieri, 166 Parker Ave., San Francisco.

Architect—Not Given.
Contractor—De Luca & Son, Inc., 320 Market St., S. F. \$23,000

DWELLINGS

(402) E TWENTY-FIRST AVE. N from Cor. Eucalyptus. Two one-story and basement frame dwlg.
Owner—A. J. Herzig, 2300 Ocean Ave., San Francisco.
Architect—Not Given. \$4000 each

DWELLING

(403) E TWENTY-FIRST AVE 165 N Ocean Ave. One-story and basement frame dwelling.
Owner—A. J. Herzig, 2300 Ocean Ave., San Francisco.
Architect—Not Given. \$4000

DWELLING

(404) NW BRODERICK AND ELLIS Sts. Two-story frame dwelling.
Owner—Amy C. Stevens, 135 Stockton St., San Francisco.
Architect—Not Given. \$3000

ALTERATIONS

(405) SE GRANT AVE. and Greenwich St.; alter tenement house.
Owner—V. Traverso, Grant Ave. and Greenwich St.
Architect—Not Given.
Contractor—Masarie & Cuneo, 1285 Union St. \$6000

BREWERY

(406) 5050 MISSION ST.; three-story frame brewery.
Owner—El Rey Brewing Co., 5050 Mission Street.
Architect—Matthew & Bolles, Menadnock Eldg. \$20,000

OFFICE BLDG.

(407) NO. 1855 SAN BRUNO AVE. Two-story frame office building.
Owner—Acme Mfg. Co., Inc., Prem.
Architect—Not Given. \$4000

DWELLING

(408) W TWENTY-SIXTH AVE 100 S Lawton. One-story and basement frame dwelling.
Owner—A. E. Warden, 1675 8th Ave., San Francisco.
Architect—Not Given.
Contractor—Allan Warden, 1675 8th Ave., San Francisco. \$3000

DWELLING

(409) E WEBSTER ST. 50 S North Point. One-story and basement frame dwelling.
Owner—A. Inberg, 3924 20th St., San Francisco.
Architect—Not Given. \$2000

DWELLING

(410) W TWENTY-SECOND AVE. 189 N Wawona St. One-story and basement frame dwelling.
Owner—J. J. Binet, 364 Bush St., San Francisco.
Architect—Not Given. \$4000

REPAIRS

(411) NO. 256-58-60 CARL ST. Repair fire damage to apartments.
Owner—Ida M. Hutchins, 260 Carl St., San Francisco.
Architect—Not Given.
Contractor—M. M. Bowman, 233 Camino Del Mar. \$5887

REPAIRS

(412) NO. 73 CONVERSE ST. Repair fire damage to shop.

Owner—L. A. Giacobbi.

Architect—Not Given.
Contractor—J. H. Hjul, 128 Russ St., San Francisco. \$1000

FLATS

(413) NE FULTON ST & THIRTIETH AVE. Two-story and basement frame (2) flats.
Owner—E. Kearney, 473 Page St., San Francisco.

Architect—Not Given.
Contractor—Fred R. Duprey, 110 Sutter St., San Francisco. \$8000

DWELLING

(414) W TWENTY-FIFTH AVE. 40 S Ocean Ave. One-story and basement frame dwelling.
Owner—C. Cicero, 4261 23rd St., San Francisco.
Architect—Not Given. \$3000

APARTMENTS

(415) NE NORTH POINT & FILLMORE Sts. Three-story and basement frame (18) apartments.
Owner—Ben Liebman, 1555 Francisco St., San Francisco.
Architect—Irvine & Ebbets, 2048 Market St., San Francisco. \$35,000

DWELLING

(416) S HANCOCK ST. 210 Sanchez St. One-story and basement frame dwelling.
Owner—S. Neiger, 658 Van Ness Ave. South, San Francisco.
Architect—Not Given.
Contractor—G. W. Johnston, 942 Capp St., San Francisco. \$3000

REPAIRS

(417) NO. 1920 POST. Repair fire damage to stores and apartments.
Owner—Mercantile Properties Corp.
Architect—Not Given.
Contractor—A. L. Thulin, 63 Brady St., San Francisco. \$1000

ALTERATIONS

(418) NO. 1720 VAN NESS AVENUE. Alter auto shop.
Owner—Chevrolet Motor Co., 1720 Van Ness Ave., San Francisco.
Architect—Not Given.
Contractor—L. R. Anderson, 253 States St., San Francisco. \$1000

DWELLING

(419) E TWENTY-SIXTH AVE. 174 N Ocean Ave. One-story and basement frame dwelling.
Owner—J. A. Arnott, 633 Taraval St., San Francisco.
Architect—Not Given. \$4000

DWELLING

(420) E TWENTY-SIXTH AVE. 526 N Ocean Ave. One-story and basement frame dwelling.
Owner—J. A. Arnott, 633 Taraval St., San Francisco.
Architect—Not Given. \$4500

DWELLING

(421) W TWENTY-NINTH AVE 100 N Taraval St. One-story and basement frame dwelling.
Owner—T. D. Gilpin, 265 San Leandro Way, San Francisco.
Architect—Not Given.
Contractor—H. L. Medrow, 1817 Oak St., San Francisco. \$4000

ALAMEDA COUNTY

No.	Owner	Contractor	Am't.
216	Stimson	Davis	3000
217	I. O. O. F.	Gassett	1000
218	Jasper	Joaquin	2000
219	Mentz	Addison	4000
220	Cox	Dolan	5000
221	Woolley	Owner	5000
222	Bradfield	Norgrove	5765

223	Smith	Owner	1680
224	Perry	Owner	2940
225	Zietler	Haulman	1000
226	Rector	Owner	1500
227	Kindig	Furlong	4630
228	Golden	Owner	1500
229	Brown	Courtright	6600
230	Sanford	Walker	3500
231	Scully	Trippell	3800
232	Glden	Owner	15000
233	Pfrang	Owner	5000
234	Howard	Gerwick	27793
235	Turner	Henderson	8000

RESIDENCE

(216) NO. 622 GLENN DRIVE, SAN LEANDRO. Residence.

Owner—B. J. Stimson.
Architect—Not Given.
Contractor—Stanley Davis, 949 Bridge Road, San Leandro. \$3000

ADDITION

(217) NO. 1252 E-FOURTEENTH ST. SAN LEANDRO. Addition.

Owner—I. O. O. F. Bldg. Assn., 1252 E-14th St., San Leandro.
Architect—Not Given.
Contractor—Chester Gassett, 327 Woodland Park, San Leandro. \$1000

RESIDENCE

(218) LEWIS AVE., SAN LEANDRO Residence.

Owner—W. Jasper.
Architect—Not Given.
Contractor—M. Joaquin, 124 Harlan St., San Leandro. \$2000

STORE

(219) 822 CLAY ST., OAKLAND; 1-story brick store.

Owner—Wm. J. Mentz, 547 8th St., Oakland.
Architect—Not Given.
Contractor—George W. Addison, 4000 Maybelle Ave., Oakland. \$4000

DWELLING

(220) 1554 33rd AVE., OAKLAND; one-story 6-room dwelling.

Owner—F. Cox, 316 17th St., Oakland.
Architect—Not Given.
Contractor—Leo. J. Dolan, 316 17th St., Oakland. \$5000

DWELLING

(221) N. 1638 MORELAND DRIVE, ALAMEDA. One-story 6-room frame and stucco dwelling.

Owner—Fred J. Wooley, 3926 Vale Ave., Oakland.
Architect—Not Given. \$5000

DWELLING

(222) WEST SIDE SAN MIGUEL at Santa Rosa, BERKELEY; two-story 7-room frame dwelling and garage.

Owner—C. C. Bradfield, 909 Cerrito, El Cerrito.
Architect—Russ & Hardman, Whitecotton Bldg., Berkeley.
Contractor—C. M. Norgrove, 2220 Roosevelt Ave., Berkeley. \$5765

DWELLING

(223) 34 VICENTE PL., OAKLAND; one-story 3-room dwelling.

Owner and Builder—L. D. Smith, 331 Vicente Road, Oakland.
Architect—Not Given. \$1680

DWELLING

(224) 1753 105th AVE., OAKLAND; one-story 5-room dwelling.

Owner and Builder—R. E. Perry, 2012 38th Ave., Oakland.
Architect—Not Given. \$2940

ADDITION & ALTERATIONS

(225) 2439 DELMAR AVENUE, OAKLAND; addition and alterations.

Owner—G. A. Zeitler, 2439 Delmar Ave., Oakland.
Architect—Not Given.
Contractor—P. R. Haulman, 1243 Broadway, Alameda. \$1000

DWELLING

(226) 1940 100th AVE., OAKLAND; one-story 2-room dwelling.

Owner and Builder—F. B. Rector, 304 Foothill Blvd., Oakland.
Architect—Not Given. \$1500

DWELLING

(227) 5351 HARBOARD DR., OAKLAND; two-story 6-room dwelling.

Owner—A. S. Kindig.
Architect—W. E. Schirmer, Financial Center Bldg., Oakland.
Contractor—Thos. F. L. Furlong, 460 Jerome Ave., Piedmont. \$4630

ALTERATIONS

(228) SW COR: SEVENTH and Kirkham Sts., OAKLAND; alterations.
Owner and Contractor—Golden West Biewing Co., 7th and Kirkham, Oakland.
Architect—Not Given. \$1500

DWELLING

(229) SPRUCE ST. AND HOLKIN Lane, BERKELEY. Two-story 6 room frame dwelling and garage.

Owner—Herrick C. Brown, Palm Ave., Piedmont.
Architect—Hardman & Russ, 206 Whitcotton Bldg., Berkeley.
Contractor—T. D. Courtwright, 349 St., Oakland. \$6600

DWELLING

(230) W HILLDALE AVE. 300 S Marin St., BERKELEY. Two-story 6-room frame dwelling and garage.

Owner—R. M. Sanford, 3827 Wilson St., Oakland.
Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.
51st Street, Oakland. \$3500

DWELLING

(231) NO. 3439 E-EIGHTEENTH ST., OAKLAND. One-story six-room dwelling.

Owner—James Scully, 3439 E-18th St., Oakland.
Architect—Not Given.
Contractor—Karl Trippell, 3539 Mangels Ave., Oakland. \$3800

ALTERATIONS

(232) NO. 1430 BROADWAY, OAKLAND. Alterations.

Owner—Golden State Theatre Corp., 25 Taylor St., San Francisco.
Architect—Meyer & Jorgensen, 525 Market St., San Francisco. \$15,000

DWELLING

(233) NO. 5668 CARBERRY STREET, OAKLAND. Two-story six-room dwelling.

Owner—C. J. Pfrang, 6300 Claremont Ave., Oakland.
Architect—Not Given. \$5000

REPAIRS

(234) FOOT OF MARKET STREET, OAKLAND. Repair and rebuild piera.

Owner—Howard Terminal Co., First and Market Sts., Oakland.
Architect—W. G. Corlett, Bank of America Bldg., Oakland.
Contractor—Ben C. Gerwick, Inc., 112 Market St., San Francisco. \$27,793

BUILDING

(235) E TELEGRAPH AVE 200 N Bancroft Way, BERKELEY. Two story 6-room Class C building.

Owner—F. C. Turner, 2710 Durant Ave., Berkeley.
Architect—W. R. Yelland, Financial Center Bldg., Oakland.
Contractor—Herbert K. Henderson, 333 40th St., Oakland. \$8000

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
85	Hunt	Papenhausen	7045
86	Saulovich	Wengard	1091
87	Traverso	Masarie	6822

DWELLING

(85) LOT 19 BLK 12 Map St. Francis Wood Extension No. 1; all work on two-story and basement frame and stucco dwelling with detached garage.

Owner—Anne P. Hunt, 118 Santa Street.
Architect—Masten & Hurd, 233 Post Street.

Contractor—Henry Papenhausen, 595 Victoria Street.

Filed and dated, June 15, 1933.

Completion of the frame.....25%
Brown coated25%
Bldg. completed25%
Usual 35 days25%TOTAL COST, \$7045.50
Bond, \$3522.75. Sureties, Robt. Postler and C. W. Higgins. Limit, ninety days. Plans and Spec. filed.

ALTERATIONS

(86) 3192 16th STREET; alterations to building.

Owner—Nick Saulovich.
Architect—Fabre and Hildebrand, 110 Sutter Street.

Contractor—Carl Wengard, 546 Sansome Street.

Filed, June 15, '33. Dated, June 12, '33

Brown coated\$408.75
When completed 408.00
Usual 35 days..... 275.00
TOTAL COST, \$1091.75

Limit, 23 days. Plans and Spec. filed.

BUILDING

(87) SE GRANT AVE AND GREENWICH St. S 23-6x E 70. Sheet metal work, etc., for reconstruction of two-story and basement and sub-basement frame building.

Owner—Luisa Traverso, Premises.
Architect—Not Given.

Contractor—V. Masarie & A. U. Cuneo, 1285 Union St., San Francisco.

Filed June 20, '33. Dated June 19, '33.

Entire frame and roof on.....\$1705.50
Brown coat plaster on..... 1705.50
Building completed 1705.50
Usual 35 days..... 1705.50

TOTAL COST, \$6822.00

Bond, \$4000. Sureties, Elizabeth Caselli and Fedele Da Col. Limit, 100 days. Forfeit, none. Plans and specifications filed.

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
29	Brown	Courtright	6085

RESIDENCE

(29) LOT 33 BLK 8 as shown on map North Cragmont, Berkeley, Southeast corner Spruce St. and Holkin Lane; all work on residence.

Owner—Herrick C. Brown, 217 Palm Drive, Berkeley.

Architect—Hardman & Russ, Whitecotton Bldg., Berkeley.

Contractor—T. D. Courtwright, 5098 Manila Ave.

Filed and Dated June 16, 1933.

Frame work in, roof, and wall sheathing on\$1521.25
Plastering completed 1521.25
Completion 1521.25Clear of all claims, if any.... 1521.25
TOTAL COST, \$6085.00

Limit, 120 days. Plans and Spec. filed.

BUILDING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

- | | |
|---------------------------------|---|
| 1.—Apartments | 11.—Ice and Cold Storage Plants |
| 2.—Bonds | 12.—Power Plants |
| 3.—Churches | 13.—Public Buildings, Fire Houses and Jails |
| 4.—Factories and Warehouses | 14.—Residences |
| 5.—Flats | 15.—Schools |
| 6.—Garages and Service Stations | 16.—Banks, Stores and Offices |
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| 8.—Club Buildings | 18.—Wharves & Docks |
| 9.—Hospitals | 19.—Misc. Const. |
| 10.—Hotels | 20.—Misc. Supplies & Materials |

1—APARTMENTS

Contract Awarded.
REPAIR APTS. Cost, \$15,000
 SAN FRANCISCO. No. 1185 Pine St. Repair fire damage to apartments. Owner—Fred Solari. Architect—Not Given. Contractor—I. W. Coburn, 2048 Market St., San Francisco.

Contract Awarded.
APARTMENTS Cost, \$25,000
 SAN FRANCISCO. E Parker Ave. 150 N Geary Street.

Three-story and basement frame and stucco apartments (12 4-rm. apts.) steel sash, separate showers, glass doors, Erskine radiators, individual electric refrigerators, canvas walls, etc.

Owner—G. Biglieri, % Architect. Architect—Irvine & Ebbets (R. R. Irvine, architect), 2048 Market St. San Francisco.

Contractor—De Luca & Son, 320 Market St., San Francisco.

Contract Awarded.
ALTERATIONS Cost, \$6000
 SAN FRANCISCO. SE Grant Avenue and Greenwich Street.

Alterations to tenement house. Owner—V. Traverso, Grant Ave. and Greenwich St.

Architect—Not Given. Contractor—Masarie and Cuneo, 1285 Union Street.

Contract Awarded.
APARTMENTS Cont. Price, \$10,500
 SAN FRANCISCO. S Greenwich 100 W Pierce Street.

Two-story and basement frame and stucco apartments (two 3-room & one 6-room apts.) tar and gravel roof, hot air furnace, hardwood floors, etc.

Owner—Withheld. Plans by A. Frascina, 1666 Lombard St., San Francisco.

Contractor—Vittorio F. Pera, 2706 Greenwich St., San Francisco.

Following are four low bids:
 V. F. Pera.....\$10,500
 Fraccia & Truffelli..... 10,599
 Jos. Galli 10,745
 Peter Sartorio.....10,850

Sub-Bids Being Taken.
APARTMENTS Cost, \$60,000
 SAN FRANCISCO. NE North Point and Fillmore Streets.

Three-story and basement frame and stucco apartments (18 3 and 4-rm. apts.) ten-year roof, some terra cotta, Spanish tile, steam heating system, electric refrigeration,

hardwood floors, tiled showers, etc.
 Owner & Builder—Ben Lieberman, 1555 Francisco St., San Francisco.
 Architect—Irvine & Ebbets (R. R. Irvine, architect) 2048 Market St., San Francisco.

2—BONDS

SEAL BEACH, Orange Co., Calif.—City of Seal Beach defeated \$65,000 bond issue at election held June 19. Proceeds were to have been used for the erection of a new school building to replace the structure damaged by the recent earthquake. Marsh, Smith & Powell, architects, 816 W 5th St., REDWOOD CITY, San Mateo Co., Cal.—Weeden & Co., 315 Montgomery St., San Francisco, awarded contract for \$114,000 bonds, 6% interest; bid for par and accrued interest.

LONG BEACH, Los Angeles Co., Cal.—The Long Beach Board of Education is considering plans for holding a bond election to provide funds for rehabilitation of all city schools. The only other means of financing the work is through a Reconstruction Finance Corporation loan. Estimates of the Long Beach Architectural Club on the replacement or repair of school buildings follow: Poly High, \$820,000; Woodrow Wilson High and Junior College, \$200,000; John Dewey Vocational Junior High, \$100,000; Edison Junior High and Elementary, \$210,000; Franklin Junior High, \$400,400; Hamilton Junior High, \$400,000; Jefferson Junior High, \$400,000; Lindbergh Junior High, \$125,000; Washington Junior High and Elementary, \$140,000; Jane Adams, \$85,000; Atlantic Avenue, \$45,000; Bryant, \$45,000; Burbank, \$250,000; Burnett, \$150,000; Fremont, \$280,000; Garfield, \$55,000; Grant, \$65,000; Starr King, \$20,000; Lafayette, \$25,000; Lincoln, \$165,000; Longfellow, \$100,000; Los Cerritos, \$40,000; Lowell, \$100,000; Horace Mann, \$135,000; McKinley, \$20,000; John Muir, \$200,000; Naples, \$15,000; Roosevelt, \$280,000; Seaside, \$40,000; Signal Hill, \$35,000; Temple, \$125,000; Whittier, \$125,000; Willard, \$280,000; new elementary for North Long Beach, \$100,000; new junior high, Belmont Shore, \$150,000. The figures, which total \$5,755,000, are on the basis of earthquake resistive types. No inspection of the Avalon Junior and Senior High and Elementary Schools was made. The damage there was slight it is understood Los Angeles.

3—CHURCHES

Sub-Contracts Awarded.
CHURCH Cost, \$7500
 TURLOCK, Stanislaus Co., Cal. Third and A Streets.

One-story and basement reinforced concrete church (48x96 ft.) balcony to seat 125, auditorium to seat 475 (16 ft. walls in auditorium and 8 ft. walls in basement).

Owner—Pentecostal Mission Church (Church C. Nelson, pastor) Turlock.

Plans by Mr. Hillberg. Contractor—C. A. Hillberg, Turlock. **Plumbing & Sheet Metal**—Lundstrom & Swanson, Turlock.

Electric Wiring—R. Noland, Turlock Heating, plastering and painting contracts will be awarded shortly. As previously reported, concrete awarded to H. Johanson, Turlock.

Plans Being Figured.
HEATING PLANT Cost, \$—
 SAN FRANCISCO. Masonic Avenue near Page Street.

Steam heating plant for church. Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St. Architect—Arnold Constable, 580 Market Street.

Mechanical Engineer—George Atkins, Hobart Building.

Steam heating plant to be installed in the St. Agnes Church (Rev. J. A. Butler, rector). Bids will be received by the architect.

4—FACTORIES & WAREHOUSES

Commissioned To Prepare Plans.
BREWERY Cost, \$275,000
 OAKLAND, Alameda Co., Cal. Location not given.

Reinforced concrete brewery (100,000 barrel capacity per year) 150 barrel kettles, etc.

Owner—Samarkand Brewing Co., 893 Folsom St., San Francisco.

Architect—O'Brien Bros. and W. D. Peugh, 333 Montgomery St., San Francisco.

Directors of the company include J. P. Rettenmayer, Paul L. Schmidt, Frank M. Kenny, Lee M. Olds, Phillip H. Hess, L. A. Enge and Walter K. Olds, all of San Francisco.

(1711) 1st report June 3, 1933 4

June 16, 1933
 Superstructure Contract Awarded.
PLANT Cost, \$—
 OAKLAND, Alameda Co., Calif.

One-story plant for batching concrete (work involves timber structure, concrete work, steel work, machinery, installation of machinery weighing apparatus, electric work, water and air lines and compressors).

Owner—Concrete Products Sales Co., 1522 Latham Square Bldg., Oakland.

Plans by Engr. Dept. of Owner. Contractor—J. F. Fattin, 2925 Hille-gass, Berkeley, approx. \$5500.

As previously reported, foundations awarded to A. W. Kitchen, 110 Market St., San Francisco, at approximately \$9,000.

(1622) 1st report May 26; 2nd, June 15, 1933. 4

Contract Awarded.
ADDITION Cost, \$4700
 SAN FRANCISCO. E Tenth St. 80 S Mission St.

Addition to shop. Architect—Not Given.

Contractor—V. R. Siegrist, 604 Mission Street.

Plans Being Completed.
BREWERY Cost, \$100,000
 SEATTLE, Washington. No. 3100 Airport Way.

Remodel three and four-story steel frame building for brewery (16,000 sq. ft. of floor space); steel frame interior, concrete and steel plate floors covered with mastic covering, etc.

Owner—Century Brewing Association of Canada.

Plans by Joseph Wohleb, Chambers Bldg., Olympia, Wash.

Wrecking of Interior—A. D. Bellanger, Seattle.

Bids Wanted—To Close June 27, 3 P. M.
WAREHOUSE Cost, \$—

WALLA WALLA, Washington. State Penitentiary.
Brick and concrete warehouse.
Owner—State of Washington, Olaf L. Oisen, Director).
Architect—George M. Rasque, Spokane Savings Bank Bldg., Spokane.
Plans and specifications available from architect upon deposit of \$10.

To Be Done By Day's Work.
SHEDS & WAREHOUSE \$12,000
FRESNO, Fresno Co., Cal. Hamilton Field and E Avenues.
Six storage sheds and one warehouse.
Owner—Sun Maid Growers, Hamilton, Fresno.
Plans by Owner.

To Be Done By Day's Work.
ADDITION Cost, \$25,000
SAN FRANCISCO. 5050 Mission St.
Additions to brewery (heavy timber construction, concrete floors and foundations, gravel roofing, etc.) malt house, brew house, fermenting house, etc.
Owner—El Rey Brewing Co. (E. J. Preston, president) Palace Hotel.
Architect—E. A. Mathews, Call Bldg.
Construction will be done under the supervision of Mathews & Bolles.

Contract Awarded.
PLANT Cont. Price, \$19,030
VISALIA, Tulare Co., Cal. Ben Maddox Way.

One-story and basement walnut packing plant (120x90 ft.) several mezzanine floors, concrete foundations basement floor and loading platform, wood frame construction, roofing, sheet metal skylights, redwood siding, wood sash, factory grade maple main floor, toilets.
Owner—Sequoia Walnut Growers' Association (Fletcher Ayres, President), Visalia.
Architect—Albert C. Martin, Higgins Bldg., Los Angeles.
Contractor—J. J. Bedel, Visalia.

Painting Contract Awarded.
ALTERATIONS Cost, \$4000
SAN FRANCISCO. Twelfth & Bryant Streets.

Alterations to brewery.
Owner—Rainier Brewery, premises.
Engineer—Leland Rosener, 233 Sansome Street.
Contractor—Lindgren and Swinerton, Inc., 225 Bush Street.
Painting—D. Zelinsky, 165 Grove St.

Commissioned To Prepare Plans.
BREWERY Cost, \$50,000
LAS VEGAS, Nevada.
Brewery (daily capacity of 50 barrels)
Owner—Withheld.
Architect—A. L. Worswick, Las Vegas (1888) 4

Commissioned to Prepare Plans.
MFG. PLANT Cost, \$500,000
ELMHURST, Alameda Co., Cal. Jones Avenue.
Manufacturing plant (2-story reinforced concrete structure).
Owner—Standards Brands, Inc., 595 Madison Ave., New York City.
Engineer—G. J. Patitz, 595 Madison Ave., New York City.
Architect—Bliss & Fairweather, Balboa Bldg., San Francisco, (9546) 1st report Aug. 9, 1932; 3rd, March 22, 1933.

Additional Contracts Awarded.
FACTORY Cost, \$2000
SAN FRANCISCO. S South Park 122 W Second Street.
One-story and mezzanine floor wood frame factory (25x100 ft.); brick veneer exterior, metal skylights, metal sash, cement floor, tar and gravel roof, etc.
Owner—Elkington-Helwig Mfg. Co., 421 Minna St., San Francisco.
Plans by Owner.

Concrete Foundations and Floors —
Plombo Bros., 1571 Turk St.
Skylights—Caster Sheet Metal Works
1374 15th Avenue.

As previously reported, grading awarded to J. W. Johnson, 1623 27th Ave.; carpentry to George J. Elkington, 1291 33rd Ave.

Contract Awarded.
WAREHOUSE Cost, \$—
LOS ANGELES, Calif. Calada and Noakes Streets.
Four-story grist mill (126x177) two warehouses and office building.
Owner—Co-Milling Company (new corporation).
Architect—Not Given.

Contractor—A. A. Laisy & Co., 2110 Venice Blvd., Los Angeles.
The type of construction has not yet been definitely determined. Estimates are being taken for reinforced concrete and brick and steel and concrete construction.

Planned.
DISTILLERY Cost, \$—
TACOMA, Washington.
Brandy distillery.
Owner—Pacific Distillers.
Architect—Not Given.

The Pacific Distillers with a capital stock of \$559,000 has been organized with Carl R. Christoferson, R. A. Olson and Fred W. Thiel of Tacoma as prominent stockholders.

LOS ANGELES, Cal.—Norman F. Barber, Pacific Finance Bldg., Los Angeles, to \$19,886 submitted low bid to State Highway Commission, Public Works Bldg., Sacramento, for the erection and completion of a maintenance station building in Los Angeles County at Los Alamos, about 9 miles south of Gorman, consisting of the following group of buildings and appurtenances: superintendent's cottage cook house, bunkhouse, truck shelter, blacksmith shop, gasoline and oil house, generator house, septic tank and leaching field, station sign, fencing, electric distribution system, water and gas pipe line and connections.

Contract Awarded.
BOTTLING PLANT Cost, \$20,000
STOCKTON, San Joaquin Co., Calif. Stanislaus and Oak Streets.
One-story brick and concrete bottling plant and one-story brick and concrete office building.
Owner—Eldorado Brewing Co. (A. D. Rotherbush) 626 N American Ave. Stockton.
Plans by Owner.
Contractor—J. F. Shepherd, Shepherd Bldg., 108 E Miner St., Stockton.

Sub-Contracts Awarded.
WAREHOUSE Cost, \$5000
SAN FRANCISCO. S Folsom St. 152 E Spear Street.
Two-story Class C reinforced concrete warehouse (40x50 ft.) composition roof, concrete floors, metal sash.
Owner—Federated Metals Corp., 75 Folsom Street.
Engineer—Ellison and Russell, Pacific Building.
Contractor—Barrett & Hilp, 918 Harrison Street.

Concrete—Golden Gate Atlas Materials Co., 16th and Harrison Sts.
Lumber—Loop Lumber Co., Central Basin.
Metal Sash—Detroit Steel Prod. Co., 111 Sutter St.
Steel Forms—Steelform Contracting Co., 131 Perry St.
Reinforcing Steel—W. S. Wetenhall, 17th and Wisconsin Sts.

5—FLATS

Contract Awarded.
FLATS Cost, \$7000
SAN FRANCISCO. W 14th Ave. 58 N Kirkham St.

Two-story and basement frame and stucco flats (2 flats).
Owner—W. G. Bray, 3500 Fulton St.
Plans by Mr. Morris.
Contractor—A. T. Morris, 3500 Fulton.

Completing Plans,
FLATS AND STORES Cost, \$20,000
SAN FRANCISCO. North Beach District.

Two-story, basement and sub-basement frame and stucco flats (2 5-room flats and one store and sub-basement); flat composition roof, individual gas radiators, individual electric refrigeration, tiled baths, hardwood floors, etc.
Owner—Withheld.

Architect—Irvine & Ebbets (R. R. Irvine, Architect), 2048 Market St., San Francisco.
Contractor—Selected (Withheld).

Contract Awarded.
FLATS Cost, \$10,000
SAN FRANCISCO. NE Fulton Street and 30th Avenue.
Two-story and basement frame and stucco flats (2 flats).
Owner—E. Kearney, 473 Page Street.
Plans by Mr. Du Puy.
Contractor—F. R. Du Puy, 110 Sutter Street.

Plans Being Figured—Bids Close June 26, 4 P. M.

FLATS Cost, \$14,000
SAN FRANCISCO. Thirtieth and Dolores Streets.
Two two- and three-story frame and stucco flats (2 4-room, 1 5-room and 1 6-room flats); tile and composition roof, gas heating system, oak floors, canvas ceilings, tiled baths, colored fixtures, etc.

Owner—C. Schroeder.
Architect—Chas. Strothoff, 2274 15th St., San Francisco.

6—GARAGES & SERVICE STATIONS

Plans Being Prepared.
SERVICE STATION Cost, \$—
OAKLAND, Alameda Co., Calif. NW Harrison and Grand Avenue.
New service station.
Owner—Signal Oil & Gas Co., 2301 Blanding Ave., Alameda.
Plans by Engr. Dept. of Owner (H. J. Schauffle, engineer).

Sub-Contracts Awarded.
GARAGE Cost, \$35,000
SAN FRANCISCO. N Bush St. 106-3 W Webster St.
Three-story Class B concrete garage (75x127 ft.) concrete floors, 5-year tar and gravel roof, etc.

Owner—Siri Brothers.
Architect—H. C. Baumann, 251 Kearny Street.
Contractor—Vannucci Brothers Const. Co., 1875 San Bruno Avenue.

Reinforcing Steel—W. C. Hauck, 17th and Wisconsin Streets.
Roofing—Alta Roofing Co., 976 Indiana Street.

Steel Sash—Detroit Steel Prod. Co., 111 Sutter St.

Electric and Ventilating—W. B. Baker & Co., 15 Harriet St.
Sub-bids are wanted on plastering, miscellaneous iron and painting. As previously reported, glass and glazing contract awarded to W. P. Fuller & Co., 301 Mission Street.

Additional Sub-Contracts Awarded.
SERVICE STATION Cost, \$3000
OAKLAND, Alameda Co., Cal. No. 2400 E-14th Street.

One-story brick and concrete super-service station.
Owner—I. Shemanski, San Francisco.
Architect—Not Given.
Contractor—A. W. Swanson, 3906 Laguna Ave., Oakland.

Reinforcing Bars—H. Rosenthal & Son, Third and Washington Sts., Oakland.
Plumbing—J. A. Freitas, 2815 E-10th St., Oakland.
Roofing—R. E. Brewer Roofing Co., 2252 Ramson Ave., Oakland.
 Other awards reported June 2, 1933

Plans Being Completed.
SERVICE STATION Cost, \$—
 OAKLAND, Alameda Co., Calif. NW Harrison and Grand Avenue. New service station.
 Owner—Signal Oil and Gas Co., 2301 Blanding Ave., Alameda, and Los Angeles.
 Plans by Engr. Dept. of Owner (H. J. Schaufle, engineer).
 Plans are being completed in the Los Angeles office and bids will be asked from the Oakland office within one week.

7—FEDERAL BUILDING

June 16, 1933
 Additional Sub-Contracts Awarded.
HOSPITAL BUILDINGS
 Contract Price, \$898,810
SAN FRANCISCO. Fort Milley.
 Six - story reinforced concrete hospital (300 beds) 3-story concrete administration bldg., nurses' home, garage, storehouse, laundry, etc. (prepared roof).
 Owner—United States Government.
 Plans by U. S. Veterans' Administration, Veterans' Hospital, Palo Alto
 Contractor—Herbert M. Baruch Corp., 625 S Olive St., Los Angeles.
Plastering—Chas. L. Hoskins, San Diego.
Steel Lockers & Shelves—Lyons Metal Products Co., 58 Sutter St.
Steel Cabinets—Hamilton Mfg. Co., Los Angeles.
Mill Work—C. E. Reinhart & Co., 535 Tenth Street.
Architectural Terra Cotta and Wall Blocks—L. Johsens, 3209 Lorenzo St., Oakland.
Metal Stall Partitions—The Mills Co., San Francisco.
 Contracts on terrazzo and brick work will be awarded shortly.
 (8283) 1st report March 31; 27th, May 4, 1933. 7

Bids Wanted—To Close July 17, 3 P. M.
QUARANTINE STATION \$63,000
SAN PEDRO, Los Angeles Co., Cal. Reservation Point.
 Two-story quarantine building (laboratory, dispensary, surgeon's quarters and temporary detention facilities, garage, warehouse, float and roadway).
 Owner—United States Government.
 Plans by Supervising Architect, Treasury Dept., Washington, D. C.
 (1804) 1st report June 13, 1933 7

June 16, 1933
 Preliminary Plans Approved.
POST OFFICE Cost, \$87,000
VAN NUYS, Los Angeles Co., Cal. Sylvan St., bet. Van Nuys Blvd. and Vesper Street.
 One-story and mezzanine floor post office (Spanish style) steel and masonry construction.
 Owner—United States Government.
 Architect — J. Roberts Harris, 6715 Hollywood Blvd., Los Angeles.
 (790) 1st report Feb. 25; 2nd May 31, 1933. 7

SUNNYVALE, Santa Clara Co., Cal. —Until July 5, (date postponed from June 28) bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., for landscaping at the Naval Air Station, Sunnyvale, Specification No. 7255.

PORT TOWNSEND, Wash. — The following contracts have procured plans for the purpose of submitting

bids to the Treasury Department on June 27 for the construction of quarantine station, boat basin and grading at Port Townsend, Wash.: Smythe & Co., 1416 F St., N. W., Washington, D. C.; Tloga Contracting Co., 921 W. Tloga St., Philadelphia, Pa.; High-bridge International Co., 1536 Sedgwick Ave., Morris Heights Station, New York City; Universal Constr. Co., 228 Medical Arts Bldg., Fort Wayne, Ind.; General Engineering Corp., Integrity Bldg., Philadelphia, Pa.; Earl E. Garber & Co., 203 W. Fourth St., Bethlehem, Pa.; Wm. Pearce, 220 W. 42nd St., New York City; Dougan-Hammond Constr. Co., Studio Bldg., Portland; J. W. Bailey Constr. Co., 1621 Boren Ave., Seattle; Johnson Bros., Lloyd Bldg., Seattle; Peter P. Gjarde, Lyon Bldg., Seattle; Wm. Wills, 1529 8th St., W., Seattle; McRae Bros., 614 5th Ave., Seattle; W. G. Clark, 408 Aurora Ave., Seattle; Puget Sound Bridge & Engrg. Co., Seattle; Western Constr. Co., 1401 Textile Tower, Seattle; Thos. Holmberg, % Hansen & Rowland, Washington Bldg., Tacoma, Wash.; Harry Boyer Sons & Co., % Hanson & Rowland, Washington Bldg., Tacoma, Wash.; West Coast Constr. Co., Lloyd Bldg., Seattle; Allertson-Cornell, 1113 A St., Tacoma, Wash.

MARSHFIELD, Ore.—The following contractors have procured plans for the purpose of submitting bids to the Treasury Department on July 14 for the construction of the U. S. post office at Marshfield, Ore.: W. F. Jackson Co., Denrike Bldg., Washington, D. C.; L. H. Hoffman, 347 Columbia St., Portland; Geo. Isackson, 3297 N. E. Irving St., Portland; Johnson Bros. Lloyd Bldg., Seattle; Dougan - Hammond Const. Co., Studio Bldg., Portland; M. F. Mowat, McDowell Bldg., Seattle; H. M. Baruch Corp., 625 S Olive St., Los Angeles; Harry Boyer Son & Co., Olympia, Wash.; William Wills, 1529 8th St., W., Seattle; The Chambliss Co., Inc., Washington, D. C.; Coath & Goss, 1109 S State St., Chicago; Consolidated Const. Co., New York; Murch Bros. Const. Co., 4111 Lindell Blvd., St. Louis; Peter Gjarde, Lyon Bldg., Seattle; Wm. MacDonald Const. Co., 3829 W Pine Blvd., St. Louis; K. E. Parker Co., 135 South Park, San Francisco; Western Const. Co., Textile Tower, Seattle.

SUNNYVALE, Santa Clara Co., Cal. —Dinwiddie Const. Co., Crocker Bldg. San Francisco, awarded the following additional sub-contracts in connection with the construction of the hangar at the Naval Air Station, Sunnyvale:
Glass—W. P. Fuller & Co., 301 Mission St., San Francisco.
Painting—Aristo Painting Co., 473 Bryant St., San Francisco.
Asphalt Paving—Urban Bros., Palo Alto.

MARE ISLAND, Cal.—Work is under way by yard forces for the installation of new metal roofs over Buildings No. 109-A and 109-B at the Mare Island Navy Yard. Estimated cost \$900.

SAN RAFAEL, Marin Co., Calif.—Bids have been rejected by Quartermaster's Division for furnishing and installing linoleum in kitchens and pantries of twelve company officers' quarters at Hamilton Field (Marin Meadows) Bombing Base. Complete list of bids published May 12.

SAN FRANCISCO. — Lindgren and Swinerton, Inc., 225 Bush St., awarded a contract to the Aristo Painting Co., 473 Bryant St., for liquid floor hardener in connection with the San Francisco post office under construction at Seventh and Mission Sta.

WASHINGTON, D. C.—Until July 12, 2 P. M., bids will be received by Supervising Architect, Treasury Department, Washington, D. C., for furnishing and installing interior lighting fixtures in the U. S. Post Office at Visalia, Calif. Plans and specifications available from above office.

WASHINGTON, D. C.—Until July 5, 2 P. M., bids will be received by Supervising Architect, Treasury Department, Washington, D. C., for painting the plaster, etc., in the U. S. Custom House at Denver, Colo. Plans and specifications available from above office.

Preparing Working Drawings.
POST OFFICE Cost, \$120,000
WHITTIER, Los Angeles Co., Cal. Washington Ave. and Bailey St.
 One-story and basement steel and masonry post office.
 Owner—United States Government.
 Architect — R. L. Warren, Emporium Bldg., Whittier.

SAN FRANCISCO.—Following bids received by Constructing Quartermaster, Fort Mason, for furnishing and installing linoleum in kitchens and pantries of six company officers' quarters at Fort Mason,
 (1) job complete;
 (2) add for addn. officers' quarters.
 Conklin Bros., Inc. (1) \$273.00
 Alternate..... 269.00
 Alternate..... 287.00
 Alternate..... 283.00
 W. & J. Sloane..... 277.85
 (2) 37.48
 D. N. & E. Walter..... (1) 288.30
 (2) 41.25
 Alternate..... 371.00
 (2) 53.10
 J. E. Higgins Lbr. Co. (1) 331.00
 (2) 46.00

Bids held under advisement.
Bids Wanted—To Close July 28.
POST OFFICE Cost, \$99,000
NORTH HOLLYWOOD, Los Angeles Co., Cal. Chandler Boulevard and Bakman Street.
 Class A steel and masonry post office (110x85 ft.) Italian style.
 Owner—United States Government.
 Architect—J. R. Harris, 6715 Hollywood Blvd., Los Angeles.

Plans Being Figured—Bids Close July 11th, 3 P. M.
POST OFFICE Cost, \$—
ELY, Nevada.
 Owner—United States Government.
 Plans by Supervising Architect, Treasury Dept., Washington, D. C.
 Plans and specifications available from Supervising Architect's office upon deposit of \$15.00.

TUCSON, Ariz.—Until 2 P. M., June 30, bids will be received by Treasury Department, Office of the Supervising Architect, Washington, D. C., for painting plaster in the U. S. post office at Tucson. Specifications may be obtained from the custodian of building or from the architect in Washington.

8—CLUB BUILDINGS

June 16, 1933
 Preparing Plans.
CLUB Cost, \$55,000
LONG BEACH, Los Angeles Co., Cal. Third and Cerritos Streets.
 Rebuild club (reinforced concrete construction, metal lath and plaster, interior plastering, plumbing, fixtures, wood floors, etc.)
 Owner—Ebeli Club.
 Architect—Pipe & Kahrs, 1224 Linden Ave., Long Beach.

June 22, 1933

Sub-Contracts Awarded.
CLUB Cont. Price, \$574,000
SAN FRANCISCO. NE Taylor and Post Streets.
 Four-story Class A brick and terra cotta club, gymnasium, dormitory dining room, kitchen, elevators). Owner — Bohemian Club (Timothy Healy, Secretary).
 Architect—Lewis P. Hobart, Crocker Bldg., San Francisco.
 Structural Engineer—W. P. Day, Financial Center Bldg., S. F.
 Mechanical Engineer—Atkins & Parker, Hobart Bldg., S. F.
 Contractor—Dinwiddle Construction Co., Crocker Bldg., San Francisco.
Structural Steel—Judson Pacific Co., 409 Mission Street.
Lathing and Plastering—A. Knowles, 582 Bryant Street.
Terra Cotta—Gladding, McBean & Co., 660 Market Street.
Cement—Santa Cruz Portland Cement Co., Crocker Building.
Gravel—San Francisco Gravel Co., 552 Berry Street.
Mill Work—Lannom Bros. Mfg. Co., Fifth and Mangolia Sts., Oakland.
Marble — Joseph Musto-Sons-Keenan Co., 555 North Point St.
Elevator—Otis Elevator Co., 1 Beach Street.
Plumbing, Heating and Electric—Alta Electric & Mechanical Co., 467 O'Farrell Street.
Terrazzo — P. Grassi, 1945 San Bruno Avenue.

Plans Being Figured.
LODGE BLDG. Cost, \$—
SAN FRANCISCO. Fourteenth and Landers Streets (125x85 feet).
 Two-story and mezzanine floor and basement Class B reinforced concrete lodge building (auditorium 55x100 feet) handball and basketball courts, showers, banquet rooms, seven lodge rooms, two card rooms and two committee rooms.
 Owner—United Irish Societies.
 Architect — John J. Foley, 770 Fifth Ave., San Francisco.
 Bids are being taken from a selected list of contractors.

9—HOSPITALS

Completing Plans.
HOSPITAL Cost, \$150,000
SEDRO WOOLLEY, Washington.
 Two-story and attic T-shaped hospital (136x126 ft.) concrete construction, plastered exterior, tile roof, attic of mill construction.
 Owner—State of Washington.
 Architect—James E. Blackwell, Medical Arts Bldg., Seattle.
 Bids will be asked in about two weeks.

AGNEW, Santa Clara Co., Calif.—California Ornamental Iron & Bronze Co., 835 8th St., Oakland, at \$2,721 submitted low bid to State Purchasing Department, Sacramento, for window guards at the Agnew State Hospital.
 Following bids received:
 California Orn. Iron & Bronze Co., Oakland\$2,721
 California Wire Cloth Co., Oakland 2,750
 S. F. Wire & Iron Works 3,383
 Standard Fence Co., S. F. 3,726
 Michel & Pfeffer, S. F. 3,970
 West Coast Wire & Iron, S. F. ... 4,450
 Patterson & Koster, S. F. 4,598
 Eureka Iron & Wire W'ks, S. F. 4,992
 Monarch Iron Works, S. F. 6,194
 Bids held under advisement.

STOCKTON, San Joaquin Co., Cal.—California Wire Cloth Company, 1001 22nd Ave., Oakland, at \$270 awarded

contract by State Purchasing Department, Sacramento, for window guards at the State Hospital at Stockton. Following bids received:
 Calif. Wire Cloth Co., Oakland, \$270.00
 Calif. Ornamental Iron & Bronze Co. 270.00
 Anchor Post Fence Co., S. F. 278.00
 Michel & Pfeffer Iron Works, San Francisco 296.00
 Standard Fence Co., S. F. 296.32
 Patterson & Koster Iron Works San Francisco 369.00
 Sacramento Wire Co., Sacto. 378.00
 West Coast Wire & Iron Works San Francisco 400.00

11—ICE AND COLD STORAGE PLANTS

Bids Wanted—To Close June 27, 12 Noon.
BUILDING Cost, \$70,000
VANCOUVER, B. C. Ballantyne Pier. Cold storage unit for storage of fresh fruits (capacity of 50,000 boxes); brine leads, insulation, coolers, fans, etc.
 Owner—Vancouver Harbor Commissioners (W. J. Enright, Secretary)
 Plans by Engineering Dept. of Owner. Plans and specifications obtainable from Chief Engineer upon deposit of \$20.

12—POWER PLANTS

Bids Wanted—To Close June 27th, 3 P. M.
POWER HOUSE Cost, \$—
WALLA WALLA, Wash. State Penitentiary.
 Brick and concrete power house.
 Owner—State of Washington (Olaf L. Olsen, Director).
 Architect—Geo. M. Rasque, Spokane Savings Bank Bldg., Spokane.
 Plans and specifications available from architect upon deposit of \$10.

LOS ANGELES, Cal. — Norton & Norton Electric Company, Ltd., 1375 North Broadway, Los Angeles, awarded contract by the Metropolitan Water District, June 16, at \$96,734.58 to construct telephone lines in the Hayfield-Colorado River Section. The work consists of constructing approximately 113 miles of telephone trunk line and 35 miles of telephone bracket line, and the furnishing and installing of 16 telephone terminal assemblies and 2 protective assemblies.

LOS ANGELES, Calif.—Until July 14, 11 A. M., bids will be received by A. J. Holm, City Purchasing Agent, 107 City Hall, to furnish transmission towers for the construction of the Boulder Canyon Transmission Line, under Spec. No. 3106.

PASADENA, Calif.—Standard Arch Co., Frostberg, Md., represented by St. Louis Fire Brick and Clay Co., 3050 E Slauson Ave., Huntington Pk., awarded contract by city directors on June 21 at \$9220 to furnish air-cooled suspended arches for municipal incinerator and air-cooled suspended walls and appurtenances in connection with settings for Stirling boilers at the municipal light & power plant. The bids were opened June 13.

13—PUBLIC BUILDINGS FIRE HOUSES & JAILS

Prospective Bidders.
FIRE HOUSE Cost, \$14,000
SACRAMENTO, Sacramento Co., Cal. L Street near Alhambra Blvd.
 One-story brick firehouse (57x92 ft.); tile and composition roof, concrete floors, etc.
 Owner—City of Sacramento.

Architect — Charles Dean, California State Life Bldg., Sacramento.
 Following have procured plans. Bids open June 28, 5 P. M.:
 Chas. F. Unger, 4532 E St., Sacramento.
 Fred H. Betz, 1017 43rd St., Sacramento.
 W. C. Keating, Forum Bldg., Sacramento.
 Azevedo & Sarmento, 920 O St., Sacramento.
 Henry Finnigan, 1714 16th St., Sacramento.
 George W. Kopp, 1514 15th St., Sacramento.
 C. J. Hopkinson, 1810 28th St., Sacramento.
 Eugene Kenyon, 11 Canterbury Rd., Sacramento.

WATSONVILLE, Santa Cruz Co., Cal.—City of Watsonville will ask Federal Aid to finance construction of a new library building to cost \$14,000 and a new Veterans Hall to cost \$60,000 under the National Recovery Act.

SAN MATEO, San Mateo Co., Cal.—City of San Mateo will ask Federal Aid in the amount of \$30,000 to finance construction of a new Fire Station in the Beresford Park District under the National Recovery Act.

Additional Sub-Contracts Awarded.
ARMORY Cont. Price, \$33,565
SAN JOSE, Santa Clara Co., Cal. N. Second Street.
 One and two-story reinforced concrete armory (60x134 ft.) reinforced concrete walls, roof and floors steel trusses, structural steel, part composition and slate tile roof, etc.; drill hall with seating capacity of 1500.
 Owner—State of California.
 Architect—George B. McDougall, State Architect, Public Works Building, Sacramento.
 Contractor—William Spivock, Hobart Bldg., San Francisco.
Sheet Metal — Edgar W. Anderson, 3103 San Pablo Ave., Oakland.
Plastering—G. Roman, 465 Minor Ave. San Jose.
Glass—Slyvain Le Deit, 762 Lenzen Ave., San Jose.
 Other awards previously reported.

TEHACHAPI, Kern Co., Cal.—Los Angeles Fence Co., 1114 N Orange Ave., Los Angeles, at \$10,000 awarded contract by State Purchasing Department, Sacramento, for fencing at the Tehachapi Jail. Complete bids published June 9.

Plans Being Figured—Bids Close June 28, 5 P. M.
FIRE HOUSE Cost, \$14,000
SACRAMENTO, Sacramento Co., Cal. L Street near Alhambra Blvd.
 One-story brick firehouse (57x92 ft.); tile and composition roof, concrete floors, etc.
 Owner—City of Sacramento.
 Architect — Charles Dean, California State Life Bldg., Sacramento.

CRESCENT CITY, Del Norte Co., Cal.—Specifications will be prepared by the Del Norte County Supervisors for painting the Court House at Crescent City.

Plans Being Completed.
ALTERATIONS Cost, \$100,000
PORTLAND, Oregon.
 Reconstruction of interior of city hall. Owner—City of Portland.
 Architect—Doyle & Associates, Pacific Bldg., Portland.
 Plans will be submitted for approval within one week.

SANTA MARIA, Santa Barbara Co., Cal.—Santa Maria proposes asking for federal aid in financing the construction of a new city hall to cost approximately \$50,000. About 70 per cent of the cost could be met by the city without the necessity of a bond issue.

VENTURA, Cal.—Ventura will ask for a total of \$500,000 federal funds for municipal improvement projects under the national public works act just signed by the President. Building projects included in the list are: City Hall, \$75,000; Beach Pavilion, \$20,000, Plaza Pavalin, \$10,000.

Planned.
JAIL Cost, \$—
SOLEDAD, Monterey Co., Cal.
 New jail.
 Owner—City of Soledad and County of Monterey.
 Architect—Not Given.

The city and county will stand equal shares of the cost of the proposed building.

14—RESIDENCES

Plans Being Figured—To Close June 20.
RESIDENCE Cost, \$15,000
SAN FRANCISCO, Marina Blvd. nr. Fillmore Street.
 Two-story and basement frame and stucco residence (9 rooms and 3 baths) tile and composition roof, gas hot air heating system, tiled baths, oak floors, electric refrigeration, ornamental iron, etc.
 Owner—Capt. D. W. Thomsen.
 Architect—D. D. Stone, 110 Sutter St.

Plans Being Completed.
RESIDENCE Cost, \$—
WATSONVILLE, Santa Cruz Co., Cal.
 Two-story frame, plaster and brick veneer residence (7 rooms and 3 baths) wood shingle roof, gas hot air heating system, wood sash, tiled baths, hardwood floors, etc.
 Owner—Dr. E. H. Eiskamp, Watsonville.
 Architect—W. W. Wurster, 260 California St., San Francisco.
 Bids will be asked in about 1 week from a selected list of contractors.

Contract Awarded.
ADDITION Cost, \$—
ORINDA, Contra Costa Co., Cal.
 Addition to 2-story frame and stucco residence (add 5 rooms, etc.) tile work, flooring, etc.
 Owner—W. P. Stephenson, University of California, Berkeley.
 Plans by Owner.
 Contractor—H. K. Henderson, 20 Avis Road, Oakland.

Additional Sub-Contracts Awarded.
RESIDENCE Cost, \$30,000
WOODSIDE, San Mateo Co., Cal.
 Two-story brick veneer residence (16 rooms and 5 baths) slate roof, oil burning hot air heating system, ornamental iron grilles, oak paneling, tiled baths and kitchen, electric refrigeration, etc.
 Owner—Mr. Vouti.
 Architect—Henry H. Gutterson, 526 Powell St., San Francisco.
 Contractor—Frank Appelbe, 2405 Ac-ton St., Oakland.
Sheet Metal—Aarvaks Heating Appliance Co., 2313 Valley St., Berkeley
Reinforcing Steel—W. S. Wetenhall Co., 17th and Wisconsin Sts., San Francisco.
Mill Work—Clinton Mill & Lumber Co., 701 4th Ave., Oakland.
 Other awards reported June 13.

Additional Sub-Contracts Awarded.
RESIDENCE Cont. Price, \$11,050
PIEDMONT, Alameda Co., Cal. St. James Wood.
 Two-story and basement frame and stucco residence (9 rooms and 3 baths); hot air heating system, slate roof, steel sash, hardwood floors, tiled baths, etc.
 Owner—A. M. Meljnek.
 Architect—W. E. Schirmer, Financial Center Bldg., Oakland.
 Contractor—Jensen & Pederson, 3443 Adeline St., Oakland.
Concrete—Nat Lena, 1174 19th St., Oakland.
Stone Work—George Pittock & Son, Berkeley.
Painting—W. H. Pollard, 522 Grand Ave., Oakland.
 Other awards reported June 14.

Plans Being Figured—Bids Close June 27, 5 P. M.
RESIDENCE Cost, \$—
OAKLAND, Alameda Co., Cal. Contra Costa Road.
 One-story and basement frame, brick veneer and stucco residence (five rooms) shake roof, steel sash, stucco interior walls, oak floors, tiled baths, warm air heating system, etc.
 Owner—C. J. Borgenson.
 Architect—Ray Keefer, 770 Wesley Ave., Oakland.
 Following will submit bids:
 B. F. Woolley, 5621 Thorn Road, Oakland.
 C. H. Thrans, 28 Home Place, Oakland.
 Emil Person, 829 San Luis St., Berkeley.
 I. H. Reimers, 565 Kenmore St., Oakland.
 J. R. Armstrong, 1131 Fleet Road, Oakland.
 A. Beckett, 224 Scenic Ave., Berkeley
 C. Dudley DeVelbiss, 369 Pine St., San Francisco.

Plans Being Figured.
RESIDENCE Cost, \$6500
WALNUT CREEK, Contra Costa Co.
 One-story frame and stucco residence (8 rooms and 2 baths) asbestos shingle roof, oil burning heating system, hardwood floors, tiled baths, etc.
 Owner—Withheld.
 Architect—Ray Keefer, 770 Wesley Ave., Oakland.

Contract Awarded.
RESIDENCE Cost, \$9000
VALLEJO, Solano Co., Cal. Fleming Tract.
 Two-story and basement frame and stucco residence (8 rooms and 2 baths); tile roof, gas furnace, hardwood floors, tiled baths, etc.
 Owner—J. J. Madigan.
 Architect—Ed. Perry, Vallejo.
 Contractor—David Paganini, 519 California St., San Francisco.
Plumbing—A. J. Wise, Vallejo.
Sheet Metal—Claus Sheet Metal Wks., Vallejo.
Electric—Alca Electric Co., Vallejo.
Plastering—Ed. Borne, Vallejo.

Electrical Contract Awarded.
ADDITIONS Cost, \$20,000
PALO ALTO, Santa Clara Co., Calif. Stanford Campus.
 Alterations and additions to 3-story frame and stucco fraternity house (add new third story, alterations and additions to first and second floors, etc.)
 Owner—Phi Delta Theta, 538 Lasuen St., Stanford University.
 Architect—W. E. Huson, 1913 Green St., San Francisco.
 Contractor—Lindgren & Swinerton, Inc., 225 Bush St., San Francisco.
Electric—Alta Electric Co., 467 O'Farrell St., San Francisco.

Contract Awarded.
RESIDENCE Cost, \$6000
LOS ALTOS, Santa Clara Co., Calif.
 Two-story and basement frame and stucco residence (6 rooms and 2 baths) tile roof, gas heating system, hardwood floors, tile baths.
 Owner—Mr. Hlotte, % architect.
 Architect—Farr & Ward, 68 Post St., San Francisco.
 Contractor—Carl Rosberg, 485 Stow St., Oakland.

Contract Awarded.
RESIDENCE Cost, \$4500
MODESTO, Stanislaus Co., Cal. McHenry Road.
 One-story and basement dipped shingle residence (7 rooms and 2 baths) shingle roof, stucco interior, tiled baths, oak floors, gas heating system, electric refrigeration, etc.
 Owner—G. B. Pierron.
 Architect—G. N. Hilburn, 1312 I St., Modesto.
 Contractor—C. A. Hilberg, 301 Cahill Turlock.

Contract Awarded.
RESIDENCE Cost, \$5000
OAKLAND, Alameda Co., Cal. Clemens Road.
 Two-story frame and stucco residence (6 rooms) Spanish type, tile and composition roof, gas heating system, hardwood floors, etc.
 Owner—T. J. Walsh.
 Architect—Miller & Warnecke, Financial Center Bldg., Oakland.
 Contractor—Olaf Petersen, 1937 East 15th St., Oakland.

Sub-Bids Wanted.
RESIDENCE Cost, \$5000
OAKLAND, Alameda Co., Cal. No. 3245 Millsview Avenue.
 One-story and basement frame and stucco residence (6 rooms).
 Owner and Builder—Home Builders, Inc., 1939 Courtland Ave., Oakland.
 Plans by Owner.
Excavation—J. Catucci, 1212 18th Ave., Oakland.
Lumber—Scammell Lumber Co., Foot of Ninth Ave., Oakland.
Plumbing—H. E. Lee, Oakland.
Concrete Foundations—A. Casqueiro, 2851 75th Ave., Oakland.
 Sub-bids are wanted on wood frame, wiring, patent chimney, brick chimney, gas furnace, plastering, roofing (composition and tile), painting, sash, doors and finishing trim, hardwood floors, hardware, electric fixtures, tiling and cement work.

Plans Being Figured.
RESIDENCE Cost, \$—
SAN FRANCISCO, Forest Hill.
 Two-story and basement frame and stucco residence (9 rooms and 2 baths) tile roof, warm air heating system, tiled baths and kitchen, interior stucco and canvas, etc.
 Owner—M. A. Miller.
 Architect—Harold Stoner, 810 Ulloa St.

Contract Awarded.
RESIDENCE Cost, \$9000
PALO ALTO, Santa Clara Co., Cal. No. 1408 Hamilton Avenue.
 Two-story and basement frame and stucco residence.
 Owner—Miss Georgia Crowell.
 Architect—Not Given.
 Contractor—E. J. Schmalig, 863 Melville Ave., Palo Alto.

Contract Awarded.
RESIDENCE Cost, \$7500
PALO ALTO, Santa Clara Co., Cal. No. 1407 Hamilton Avenue.
 Two-story frame and stucco residence
 Owner—Herbert J. Cornish, 744 Forest St., Palo Alto.
 Plans by Leslie J. Nichols.
 Contractor—E. J. Schmalig, 863 Melville Ave., Palo Alto.

Contract Awarded.

RESIDENCE Cost, \$7600
OAKLAND, Alameda Co., Cal. Ocean View Drive.

Two-story and basement frame and stucco residence (8 rooms and 3 baths) Spanish type, tile and composition roof, gas heating system, tiled baths, hardwood floors, etc.

Owner—R. Lencioni.

Architect—W. E. Schirmer, Financial Center Bldg., Oakland.

Contractor—F. C. Stolte, 3449 Laguna St., Oakland.

Plans Being Figured—Bids Close June 26th.

RESIDENCE Cost, \$—
SAN FRANCISCO, Forest Hill.
Two-story frame and stucco residence (English type).

Owner—C. E. Foye.

Plans by Ora Jenkens, Mill Valley and Stinson Beach.

Clinton Stephenson Const. Co., 550 Montgomery St., San Francisco, are figuring the plans and desire sub-bids on all portions of the work.

Warm Air Heating Contract Awarded IMPROVE RESIDENCE Cost, \$—
ATHERTON, San Mateo Co., Cal. Improvements to residence (painting, plumbing, roof repairs, etc.)

Owner—Louis Lurie, 333 Montgomery St., San Francisco.

Architect—Gardner Dailey, 210 Post St., San Francisco.

Warm Air Heating System—Ace Sheet Metal Works, 444 Clementina St., San Francisco.

Bids will be taken next week on the electrical and plumbing work.

Construction To Start Shortly.

RESIDENCE Cost, \$9500
PIEDMONT, Alameda Co., Cal. Sandringham Road.

Two-story and basement frame and stucco residence (6 rooms) tile roof, gas hot air heating system, tiled baths, hardwood floors, etc.

Owner and Builder—A. Hammarberg, 2340 Leconte Ave., Berkeley.

Plans by Owner.

Preparing Sketches.

RESIDENCE Cost, \$15,000
SAN FRANCISCO, St. Francis Wood.
Two-story and basement frame and stucco residence (8 rooms and 3 baths) slate roof, gas hot air heating system, hardwood floors, tiled baths, etc.

Owner—Withheld.

Architect—Irvine & Ebbets (R. R. Irvine, architect) 2048 Market St.

Sub-Bids Being Taken.

RESIDENCES Cost, \$—
OAKLAND, Alameda Co., Cal. 1554-1560 33rd Avenue.

Two one-story and basement frame and stucco residences (6 rooms each) Spanish type, tile roof, gas hot air heating system, hardwood floors, steel sash, tiled baths and shower, etc.

Owner and Builder—Leo J. Dolan, 770 Wesley Ave., Oakland.

Plans by Owner.

Sub-Bids Wanted.

RESIDENCE Cost, \$—
OAKLAND, Alameda Co., Cal. No. 3251 Mormcom Street.

One-story and basement frame and stucco residence.

Owner and Builder—Ernest W. Urch, 1924 50th Ave., Oakland.

Plans by Owner.

Sub-bids are wanted on all portions of the work.

Plans Being Figured.

RESIDENCE Cost, \$8000
SAN FRANCISCO, St. Francis Wood.

Two-story and basement frame and stucco residence (8 rooms and 3 baths) shingle tile roof, gas heating system, hardwood floors, hardwood trim, tiled baths, canvas walls, etc.

Owner—Dr. Windeler.

Architect—Chas. Strothoff, 2274 15th St., San Francisco.

Prospective Bidders.

RESIDENCE Cost, \$—
SAN FRANCISCO, Forest Hill.
Two-story and basement frame and stucco residence (9 rooms and 2 baths) tile roof, warm air heating system, tiled baths and kitchen, interior stucco and canvas, etc.

Owner—M. A. Miller.

Architect—Harold Stoner, 810 Ulloa St., San Francisco.

Following will submit bids. Bids Open June 26:

George Stanley, 467 Turk St.
Moore & Roberts, 693 Mission St.
A. J. Wilbe, 318 Kearny St.
Stoneson & Thorenson, 279 Yerba Buena Avenue.

J. Prout, 515 Magellan Ave.
Standard Building Co., 218 Castenada Ave.

June 22, 1933

Sub-Contracts Awarded.
RESIDENCE Cost, \$6500
SAN FRANCISCO, St. Francis Wood.

Two-story and basement frame and stucco residence (7 rooms and 3 baths) English type, slate roof, tiled baths, gas hot air heating system, hardwood floors, leaded glass, some brick veneer, two-car garage, etc.

Owner—Withheld.

Architect—Masten & Hurd, 233 Post St., San Francisco.

Contractor—Henry Papenhausen, 595 Victoria St., San Francisco.

Concrete—P. Donnelly, 302 23rd Ave.
Brick Work—Wm. Heidenreich, 1250 Tenth Avenue.

Lumber—Spring Valley Lumber Yard, 2401 San Jose Ave.

Mill Work—Worden Bros., 2501 Army Street.

Roofing—Alta Roofing Co., 976 Indiana Street.

Tile Work—Mangrum & Holbrook Co., 1235 Mission St.

Plumbing—Higgins & Kraus, 741 Tehama Street.

Painting—Reliable Painting Co., 3247 19th Street.

Electric Wiring—Galvin Bros., 1554 29th Avenue.

Plastering—Campbell & King, 422 Day Street.

Glass—W. P. Fuller & Co., 301 Mission Street.

Plans Being Figured—Bids Close June 29.

RESIDENCE Cost, \$5000
EMERALD LAKE, San Mateo Co.

Two-story wood frame residence (five rooms, 2 sleeping porches) shake exterior walls, crushed granite roof, brick chimney, etc.

Owner—Miss Mary Cook, % Architect.

Architect—Chas. Strothoff, 2274 15th St., San Francisco.

June 22, 1933

Plans Being Figured—Bids Close June 28.

RESIDENCE Cost, \$7500
SAN FRANCISCO, W Thirtieth Ave. S. Balboa Street.

Two-story and basement frame and stucco residence (7 rooms and 3 baths) shingle, tile and composition roof, gas heating system, canvas walls, tiled baths, colored fixtures, hardwood floors and trim, etc.

Owner—H. McKeever.

Architect—Charles Strothoff, 2274 15th St., San Francisco.

Plans Being Completed.

RESIDENCE Cost, \$5600
SAN FRANCISCO, Thirty-ninth Ave. near Taraval Street.

One-story and basement frame and stucco residence (5 rooms) shingle, tile roof, gas heating system, hardwood floors and trim, colored fixtures, tiled baths, canvas walls, etc.

Owner—J. Healey.

Architect—Charles Strothoff, 2274 15th St., San Francisco.

Bids will be asked within a few days.

Contract Awarded.

RESIDENCES Cost, \$5000 each
WOODMONT, Contra Costa Co., Cal. Two one-story and basement frame residences (5 and 6 rooms each); rustic redwood exterior, shake roof, gas hot air heating system, oak floors, tiled baths, etc.

Owner—Withheld.

Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.

Contractor—J. M. Walker, 1709 Grove St., Berkeley.

Contract Awarded.

RESIDENCE Cont. Price, \$7413
SAN CARLOS, San Mateo Co., Cal. White Oaks Tract.

One and one-half-story frame and stucco residence (7rooms) Johns-Manville roofing, oil burning equipment, steel sash, hardwood floors, mahogany trim, tiled baths, etc.

Owner—W. W. Bradford.

Architect—Charles McKenzie Twohy Bldg., San Jose.

Contractor—Frank Neves, Santa Clara

15—SCHOOLS

Additional Prospective Bidders.
HIGH SCHOOL Cost, \$25,000
ALBANY, Alameda Co., Calif. Ramona and Garfield Streets.

Two-story and basement reinforced concrete high school (8 classrooms 1st unit) to be known as Herbert Hoover Junior High School.

Owner—City of Albany.

Architect—P. L. Dragon and C. R. Schmidts, 3016 Telegraph Avenue, Berkeley.

Will have composition roof, steam heating system, pine floors, linoleum corridors, stucco finish, cement stairs, tile and wainscoting in toilet rooms, steel partitions, etc.

Following are additional prospective bidders. Bids open June 27:

General Work

E. T. Leiter & Son, 811 37th Street, Oakland.

W. E. Lyons, 354 Hobart St., Oakland.

E. T. Lesure, 87 Ross Circle, Oakland.

Heating

Pacific Heating & Ventilating Co., 2059 Webster St., Oakland.

Scott Co., 243 Minna St., San Francisco.

W. A. Aschen, 3000 E 16th Street, Oakland.

Lyon Co., 1611 Solano, Berkeley.

Geo. C. Bell, 1825 Gleason Way, Oakland.

W. H. Picard, 5656 College Avenue, Oakland.

Other prospective bidders reported June 12.

Plans To Be Prepared.

REPAIRS Cost, \$2500
ALBANY, Alameda Co., Cal. Marin Avenue.

Repairs to grammar school.
 Owner—City of Albany.
 Architect—P. L. Dragon and C. R. Schmidts, 3016 Telegraph Avenue, Berkeley.
 The type of work to be done will be determined June 20.

Contract Awarded.
 SCHOOL Cost, \$20,000
 LOS MOLINAS, Tehama Co., Cal.
 One - story frame and stucco high school (7 classrooms and shop) main building (60x200 feet) shop (36x100 ft.) composition roof, hot air heating system, pine floors, blackboards, etc.
 Owner—Corning High School Dist.
 Architect—W. E. Coffman, Forum Bldg., Sacramento.
 Contractor—Harry Portor, Garber, Calif.

Following is a complete list of bids:
 J. P. Brennan, Redding.....\$20,500
 Chas. Unger, Sacramento..... 20,918
 Azevedo & Sarmiento, Sacto..... 21,000
 Harry Porter, Gerber..... 21,395
 M. Evans, Chico..... 23,000
 *T. B. Goodwin, S. F..... 17,725
 *Bid not considered as plumbing and heating contracts were not included in bid.
 Bids held under advisement.

Bids Wanted—To Close June 26, 8:30 P. M.
 LOCKER ROOM Cost, \$—
 DAVIS, Yolo Co., Calif.
 Locker room addition to gymnasium building.
 Owner—Davis Joint Un. High School District (E. S. McBride, clerk) Davis.
 Architect—Starks & Flanders, Forum Bldg., Sacramento.
 Plans and specifications available from architects upon deposit of \$10.

Contract Awarded.
 AUDITORIUM Cont. Price, \$5885
 RED BLUFF, Tehama Co., Cal.
 One - story frame and brick veneer auditorium and stage (45x130 ft.) tile roof, maple floors, etc.
 Owner—Red Bluff Grammar School District (Camille H. Hart, clerk of the board).
 Architect—Dragon & Schmidts, Mercantile Bank Bldg., Berkeley.
 Contractor—J. P. Brennan, Redding.

Following bids received:
 (1) main bid;
 (2) add for skylights;
 (3) add for finishing rooms;
 (4) add for maple flooring;
 (5) add for terra cotta tile roof;
 (6) deduct for omitting cement floor.
 J. P. Brennan, Redding.....(1) \$4,660
(2) 400
(3) 2,785
(4) 325
(5) 825
(6) 100
 Rolla Arbuckle, Gerber.....(1) 5,985
(2) 140
(3) 1,490
(4) 520
(5) 1,070
(6) 90
 C. M. Norgrove, Berkeley.....(1) 6,750
(2) 165
(3) 1,550
(4) 643
(5) 890
(6) 95
 T. B. Goodwin, S. F.....(1) 7,250
(2) 140
(3) 1,375
(4) 710
(5) 925
(6) 100

MARTINEZ, Contra Costa Co., Cal.
 —Until June 30, 8 P. M., bids will be received by E. P. Fraga, Clerk of the Martinez Elementary School District, for painting of the exterior of the Elementary schools in Martinez. Spec-

fications prepared by Architect W. H. Weeks, 525 Market St., San Francisco, and may be secured from the clerk of the board.
 BAKERSFIELD, Kern Co., Cal.—
 Until July 7, bids will be received by C. B. Warner, Clerk of the Board of Pajeto School District, for the sale and removal of the old school building on the Pajeto school lot. Specifications available from above office.

Planned.
 ADDITION Cost, \$—
 MORGAN HILL, Santa Clara Co., Cal.
 Addition to Morgan Hill Grammar School.
 Owner—Morgan Hill Grammar School District (Mr. Dickerson, Pres.)
 Architect—W. H. Weeks, 525 Market St., San Francisco.
 Further details will be announced shortly.

LONG BEACH, Cal.—Architect H. R. Davies, 430 E Ocean Blvd., Long Beach, has been commissioned to prepare plans for complete rehabilitation of Polytechnic High School on Atlantic Avenue, Long Beach, for the Long Beach board of education. The plant will consist of several Class A structures, designed to house approximately 3000 students. It is planned to rebuild the two gymnasiums, swimming pool, cafeteria and auditorium, if possible. Eighty to ninety classrooms will be provided. Estimated cost of the improvements is \$800,000.

SAN FRANCISCO—R. P. Paoli, 3159 Fillmore Street, awarded contract by State Department of Public Works on June 20 at \$762 for painting administration building at the San Francisco State Teachers' College.

Specifications Being Written.
 HEAT. & VENT. SYSTEM \$—
 OAKLAND, Alameda Co., Cal. 48th and Foothill Blvd.
 Revise heating and ventilating system at the high school (Fremont High School).
 Owner—City of Oakland School Dist. Plans by Engr. Dept. of Owner.
 Bids will be asked at a later date.

16—BANKS, STORES AND OFFICES

Sub-Bids Wanted.
 RESTAURANT Cost, \$16,000
 BERKELEY, Alameda Co., Cal. Telegraph Ave. near Sather Gate (45 x73 ft.)
 Two-story and basement Class C brick restaurant and store.
 Owner—The Black Sheep.
 Architect—W. R. Yelland, Financial Center Bldg., Oakland.
 Contractor—H. K. Henderson, 20 Avis Road, Oakland.
 Brick—W. H. Wisheropp, 3749 Quigley Ave., Oakland.
 Sub-bids are wanted on concrete work, plastering, painting, slate and composition roofing, pine flooring and electrical work.
 As previously reported, excavation awarded to J. Catucci, 1212 18th Ave., Oakland; structural steel to Judson-Pacific Co., Foot of Park Ave., Alameda; mill and lumber to Sunset Lumber Co., Oakland.

Contract Awarded.
 STORE Cost, \$25,000
 BERKELEY, Alameda Co., Cal. Telegraph and Bancroft Aves.
 One-story reinforced concrete store building (three stores) gas steam heating system, composition roofing, etc.
 Owner—Anna Weeks.

Architect—Stafford Jory, 1370 Euclid Ave., Berkeley.
 Contractor—Fred Westlund, 625 40th St., Oakland.

Bids Opened.
 STORE Cost, \$5000
 SAN LEANDRO, Alameda Co., Calif.
 One - story store (brick walls, steel trusses, plate glass front, cement floors, etc., 46x67 ft.)
 Owner—Withheld.
 Architect—Ray Keefer, 770 Wesley Ave., Oakland.
 Following bids received:
 (1) brick walls and steel trusses.
 (2) concrete walls and wood trusses.
 C. M. Flewelling, 1625 E 14th St., San Leandro.....(1) \$4,525
(2) 4,229
 L. R. Martin, San Leandro.....(1) 4,566
(2) 4,127
 A. T. Beckett, Piedmont.....(1) 4,652
(2) 4,572
 C. H. Thrans, Oakland.....(1) 4,804
(2) 4,731
 I. H. Reimers, Oakland.....(1) 4,939
(2) 4,879
 O. W. Mallenon, Berkeley.....(1) 4,980
(2) 4,490
 Willis Lynn, Oakland.....(1) 4,990
(2) 4,745
 Chester Gossett, Oakland.....(1) 5,020
(2) 4,730
 Bids held under advisement.

Contract Awarded.
 STORE Cost, \$—
 OAKLAND, Alameda Co., Calif. NE Foothill Blvd. and Coolidge Ave. (100x124).
 One - story brick and tile store (Mission style of architecture).
 Owner—Edwin A. Roller.
 Architect—Not Given.
 Lessee—Hagstrom's Food Stores, 10-626 E 14th St., Oakland.
 Contractor—C. E. Atkinson, 3125 61st Ave., Oakland.

Additional Sub-Contracts Awarded.
 OFFICES Cost, \$10,000
 ALAMEDA, Alameda Co., Cal. Regent St. and Central Ave.
 Two - story frame and stucco office building (40x70 feet).
 Owner—Dr. J. Ohannesson, Alameda.
 Architect—Not Given.
 Contractor—E. F. Henderson, 6433 Chabot Road, Oakland.
 Venetian Blinds—Western Venetian Blind Co., 995 Lee, San Leandro.
 Linoleum—R. T. A. Governors, 2335 Broadway, Oakland.
 Finished Hardware—Associated Hdwe Co., Inc., 3860 San Pablo Avenue, Oakland.
 Finished Cement—Nat Lena, 1174 19th St., Oakland.
 Electric Fixtures—Roberts Mfg. Co., 480 23rd St., Oakland.
 Other awards previously reported.

Plans Being Prepared.
 STORE Cost, \$80,000
 REDWOOD CITY, San Mateo Co., Cal. Broadway and Hamilton Sts.
 Two-story and basement reinforced concrete store (60x150 ft.)
 Owner—David J. Davis, 500 Chelmsford Road, Hillsborough.
 Architect—Not Given.
 Plans by Engineering Dept. of Lessee New York City.
 Lessee—Montgomery Ward Company.
 Agent—Martin Realty Co., San Mateo (Jerome Draper in charge).

SAN FRANCISCO—The Seagrave Corp., at \$6950 awarded contract under Bid No. 983 to furnish one Seagrave Sentinel Hose Wagon Monitor Battery Chassis by T. A. Brooks, City Purchasing Agent.
 American La France & Foamite Corp., at \$7145 awarded contract by T. A. Brooks, City Purchasing Agent, under Bid No. 983, to furnish one 6-cylinder Hose Wagon Monitor Battery Chassis.

Contract Awarded.

STORE Cost, \$—
OAKLAND, Alameda Co., Cal. No. 728 Clay Street.
 One-story brick annex to store (30x51 ft.) concrete foundations, wiring, plumbing and mill work, etc.
 Owner—W. J. Meutz, 656 Capell St., Oakland.
 Architect—Not Given.
 Contractor—Lee J. Davis, 121 Monte Vista Ave., Oakland.
Excavation—J. Catucci, 1212 18th Ave. Oakland.

Contract Awarded.

ALTERATIONS Cost, \$—
SAN FRANCISCO, No. 315 Montgomery Street.
 Alterations to offices.
 Owner—E. A. Pierce & Company.
 Architect—Kent & Haas, 525 Market St., San Francisco.
 Contractor—Ostlund & Johnson, 1901 Bryant St., San Francisco.

Sub-Contracts Awarded.

ALTERATIONS Cost, \$50,000
SAN FRANCISCO, 867-871 Market St.
 Alterations to 4-story and basement store (130,000 sq. ft. floor space).
 Owner—Lincoln Realty Co., Mills Building.
 Lessee—J. C. Penney Co., 330 West 34th St., New York City.
 Plans by Engr. Dept. of Lessee.
 Contractor—J. B. Oswald, 433 California Street.
Electric—Crown Electric Co., 153 Eddy Street.
Plastering—William Day.
Elevator—Otis Elevator Co., 1 Beach Street.
Structural Steel—Western Iron W'ks, 141 Beale St.
Tile—Harry Drake, 2094 46th Avenue.
Foundation—T. J. Sullivan.

Sub-Contracts Awarded.

RESTAURANT Cost, \$16,000
BERKELEY, Alameda Co., Cal. Telegraph Ave. near Sather Gate.
 Two-story and basement Class C brick restaurant and store.
 Owner—The Black Sheep.
 Architect—W. R. Yelland, Financial Center Bldg., Oakland.
 Contractor—H. K. Henderson, 20 Avis Road, Oakland.
Excavation—J. Catucci, 1212 18th Ave. Oakland.
Structural Steel—Judson Pacific Co., foot of Park Ave., Alameda.
Mill and Lumber—Sunset Lumber Co. Oakland.

Sub-Contracts Awarded.

STORE Cost, \$100,000
BERKELEY, Alameda Co., Cal. 2030 Shattuck Avenue.
 Two-story brick and concrete store (brick and terra cotta facing, composition roof, structural steel, cement, hardwood and terrazzo floors, plate glass, metal fire doors ornamental iron, gas heating, etc.)
 Owner—S. H. Kress Co., 114 5th Ave., New York City.
 Plans by Engr. Dept. of Owner.
 Contractor—Dinwiddie Const. Co., Crocker Bldg., San Francisco.
Structural Steel—Judson Pacific Co., 609 Mission St., San Francisco.
Excavation—Ariss-Knapp Co., 961 41st St., Oakland.
Reinforcing Steel—Gunn, Carle & Co., 1185 Mission St., San Francisco.
Terra Cotta—Gladding, McBean & Co., 660 Market St., San Francisco.
Sheet Metal—Fire Protection Products Co., 1101 16th St., San Francisco.
Mill Work—Oakland Planing Mill, 2nd and Washington Sts., Oakland.
Plumbing and Heating—Jas. H. Pinkerton, 927 Howard St., San Francisco.
Electric—Spencer Electric Co., 2059 Webster St., Oakland.
Hardwood Floors—Oak Floor Co., 325 Arlington St., San Francisco.

17—THEATRES

Plans Completed.
ALTERATIONS Cost, \$15,000
OAKLAND, Alameda Co., Cal. No. 1430 Broadway.
 Alterations to theatre.
 Owner—Golden State Theatre Corp., 25 Taylor St., San Francisco.
 Architect—Meyer & Jorgensen, 525 Market St., San Francisco.

18—WHARVES & DOCKS

SAN FRANCISCO—M. B. McGowan 74 New Montgomery St., at \$54,800 submitted low bid June 15 to State Board of Harbor Commissioners, for repairs to reinforced concrete beams and girders at Piers Nos. 28, 30, 32, 39, 29, 31, 33 and 35, involving:
 (1) 2000 lin. ft. beams 10-in. in width or less;
 (2) 2000 lin. ft. beams 11- to 13-in. width or less;
 (3) 8000 lin. ft. beams 14- to 17-in. width or less;
 (4) 10,000 lin. ft. beams 18- to 20-in. width or less;
 (5) 2000 lin. ft. beams 21- to 20-in. width or less.
 Complete bids follow:
 (A) M. B. McGowan.....\$54,800
 (B) K. E. Parker Co..... 74,960
 (C) Barrett & Hllp..... 76,100
 (D) Duncanson Harrelson Co..... 95,700
 (E) Healy-Tibbitts Co.100,800
 Unit bids follow:
 (A) (B) (C) (D) (E)
 (1)..... \$1.90 \$2.835 \$2.97 \$2.90 \$3.30
 (2)..... 2.00 2.945 2.97 3.00 3.85
 (3)..... 2.25 3.035 3.10 4.05 4.00
 (4)..... 2.40 3.22 3.25 4.25 4.50
 (5)..... 2.50 3.46 3.46 4.50 4.75

SAN FRANCISCO—Malott & Peterson, 20th and Harrison Sts., at \$8,265.40 submitted low bid to the State Board of Harbor Commissioners, for laying new roofing in shed of Pier 34, shed on Pier 7 and portion of the Ferry Building, involving:
 (1) 735 squares of 100 sq. ft., each mineral surfaced roofing on Pier No. 34;
 (2) 795 squares of 100 sq. ft. each mineral surfaced roofing on Pier No. 7;
 (3) 235 squares of 100 sq. ft. each mineral surfaced roofing on Ferry Building.
 (4) total.
 Following bids received:
 Malott & Peterson.....(1) \$ 5.04
(2) 4.20
(3) 5.20
(4) 8,265.40
 Alta Roofing Co.(1) 7.40
(2) 2.00
(3) 5.65
(4) 8,356.75
 Geist & Geist Roofing Co...(1) 5.60
(2) 4.02
(3) 5.60
(4) 8,627.90
 United Roofing Co.....(1) 5.43
(2) 4.21
(3) 5.53
(4) 8,637.55
 J. W. Bender Roofing.....(1) 5.86
(2) 4.00
(3) 6.00
(4) 8,897.10
 Jack Johnson(1) 5.61
(2) 4.57
(3) 5.64
(4) 9,081.90
 Jones Bros. Asbestos Co...(1) 6.82
(2) 5.43
(3) 6.82
(4) 10,932.25
 R. L. Smith(1) 7.49
(2) 6.09
(3) 7.74
(4) 12,163.60
 Bids held under advisement.

19—MISC. CONSTRUCTION

SAN FRANCISCO—National Ornamental Iron Works, 434 9th St., at \$95 awarded contract by Department of Public Works for iron work for partitions on the first floor at 425 Mason Street for the San Francisco Water Department.

SAN FRANCISCO—American Building Maintenance Co., 467 O'Farrell St., at \$4965 submitted low bid to Purchasing Department, for window cleaning for school department. Proposal No. 1026. Following bids received:
 American Bldg. Maintenance Co...\$4965
 A. Crosetti Bros. & Co..... 5375
 guerra St., San Luis Obispo, to treat Bids held under advisement.

LOS ANGELES, Cal.—Revised plans for the proposed new Los Angeles Railroad Terminal will be submitted to the Railroad Commission for approval not later than Sept. 15, according to officials of the Southern Pacific, Union Pacific and Santa Fe Railroad companies for whom the Terminal will be constructed. Further details will be announced shortly. Estimated cost \$10,000,000.

ALAMEDA, Alameda Co., Calif.—Quartermaster Department has cancelled the construction of approximately 4600 lineal feet of new fence at Benton Field Air Depot, Alameda, for which bids were opened June 1. Lowest bid was submitted by Barnes Bros. Iron Works, Oakland, at \$5,780.

PETALUMA, Sonoma Co., Calif.—City of Petaluma Park Commission has completed revised plans for the tennis courts to be erected in Wick-ersham Park, Petaluma, and new bids will probably be asked June 27.

On previous bid opening lowest bid was submitted by the Petaluma Const. Co. at \$1340.35 for asphaltic surfacing and \$1430.75 for concrete surfacing.

RICHMOND, Contra Costa Co., Cal.—City council grants permit to Krieger Oil Co., Lodi, to lay 8-in. oil pipe line on Garrard Blvd., in connection with \$35,000 storage distributing plant.

VARIOUS POINTS—Until July 26 bids will be received by the U. S. Navy Department for the construction of 17 warships by private shipyards. These are part of the 32 ships to be constructed in the Naval program; the remaining 15 of which will be built in the various navy yards. The following ships will be open to private bids:
 Two aircraft carriers, 20,000 tons each.
 One heavy cruiser, 10,000 tons (8-in. guns); one light cruiser, 10,000 tons (6-in. guns).
 Four destroyers, 1850 tons each.
 Seven destroyers, 1500 tons each.
 Two submarines, 1400 tons each.

SAN FRANCISCO—D. C. McCabe, Call Bldg., at \$449.50 submitted low bid to Department of Public Works, for concrete stairs on the north side of 22nd street, between Kansas and Rhode Island Sts. Following bids received:
 D. C. McCabe.....\$449.50
 M. J. Lynch..... 487.00
 J. Tobin..... 579.00
 E. J. Treacy..... 622.00
 Love & Haun..... 750.00
 M. E. Vukicevich..... 787.00
 Bids held under advisement.

Plans Being Figured—Bids Close July 3, 8 P. M.
RECREATION CENTER Cost, \$5000
RICHMOND, Contra Costa Co., Cal. Nichol Park.

Two one-story frame and stucco recreation bldgs. (men's unit, 27.6x55; women's unit, 21x27.6) locker and shower rooms, toilets, etc.; tile roof, concrete floors (Spanish style).

Owner—City of Richmond.
Plans by Engineering Dept. of Owner.
Plans and specifications on file in the office of the City Clerk. Certified check in the amount of 10% of amount bid required. Bids are being received from local contractors only.

20—MISC. SUPPLIES AND MATERIALS

IONE, Amador Co., Cal.—Elkington-Helwig Company, 621 Minna St., San Francisco, awarded contract by State Purchasing Department, Sacramento, for furnishing and installing one dishwashing machine at the Preston School of Industry at Ione.

OAKLAND, Calif.—Following contracts awarded by city council to furnish miscellaneous supplies:

Brick—Rhodes & Jamieson, Standard and Webster Streets.

Castings—U. S. Foundry, 1821 11th St.
Cement—Cowell Lime & Cement Co., 81 Franklin St.

Fuel Oil—Standard Oil Co.

Repair Pavements—Hutchinson Co., 1450 Harrison St..

Concrete Pipe—California Conc. Prod. Co., 1001 66th Ave., and American Concrete & Steel Pipe Corp., 19th and Estuary.

LUMBER, Redwood: Eureka Mill & Lumber Co.

LUMBER, Fir: E. K. Wood.

SEWER PIPE: N. Clark & Son.

ROCK, Stone and Screenings: Hutchinson Co., 1450 Harrison St., Oakland, and Heafey-Moore Co., 344 High St., Oakland.

GASOLINE: All bids rejected; bids for ethyl gasoline held under advisement.

OAKLAND, Cal.—Golden State Co., at \$1.75 per yard, awarded contract to furnish 1000 yards of manure to City Board of Park Commissioners to be delivered within a radius of five miles of Lake Merritt during the fiscal year ending June 30, 1934.

Bid of M. S. Rodgers at \$1.50 per yard to furnish 500 yards loam (one bid submitted) rejected as no check was enclosed with bid. Loam will be bought in the open market.

PACIFIC GROVE, Monterey Co., Cal.—City council will seek \$110,000 from Federal funds to finance construction of two municipal improvements, as follows:

(1) municipal bathhouse and beach property, involving construction of a small breakwater, estimated cost, \$75,000;

(2) lay 8 miles curb and gutters, estimated cost, \$35,000.

OAKLAND, Cal.—Linde Air Products Co., 40th and Watts, Oakland, at \$3075 submitted low bid to East Bay Municipal Utility District to furnish:

(1) 125,000 cu. ft. oxygen gas;
(2) 75,000 cu. ft. dissolved acetylene.

Complete bids follow:
(A) Linde Air Products Co.....\$3075.00
(B) Air Reduction Sales Co..... 3237.50
(C) Stuart Oxygen Co., Ltd..... 3437.50

Unit bids follow:
(A) (B) (C)
(1)..... \$1.05 \$1.15 \$1.25
(2)..... 2.35 2.40 2.50

Bids held under advisement.

PHOENIX, Ariz.—Until July 6, bids will be received by Superintendent, Phoenix Indian School, 4100 Rhoads Circle, Phoenix, to furnish three carloads lumber, various dimensions No. 1 common fir; No. 1 common white

pine, and select white pine and No. 1 common rough dry fir.

Bids are wanted for all three carloads as a lump sum bid.

OAKLAND, Cal.—Marine Const. Co. 4100 Iowa, Seattle, Wash., at \$75,000 awarded contract by Concrete Products Sales Co., 1522 Latham Square Bldg., Oakland, to construct six wooden scoops in connection with concrete plant for Trans-Bay Bridge, for which they will furnish all concrete.

SAN RAFAEL, Marin Co., Cal.—All bids rejected by Constructing Quartermaster, Hamilton Field, for paved aprons around the mangar and shop at Hamilton Field.

CRESCENT CITY, Del Norte Co., Cal.—Until July 14, 8 P. M., bids will be received by Board of Trustees, Del Norte County High School, to furnish miscellaneous supplies as follows: fuel oil, wood, gasoline, motor oil, school supplies, janitor's supplies, and small tools. Specifications obtainable from above.

SAN FRANCISCO.—Following bids received under Bid No. 1029 by T. A. Brooks, City Purchasing Agent, to furnish fir, redwood and spruce for term July 17, 1933 to January 17, 1934, as follows:

- (1) Douglas fir, reduction of;
- (2) Redwood, reduction of;
- (3) Spruce, reduction of.

Bidders follow:
(A) Allan & Dettman Lumber Co.
(B) S. F. Lumber Co.
(C) Rolph Meyer Lumber Co.
(D) Sudden Lumber Co.

Unit bids follow:

	(A)	(B)	(C)	(D)
(1).....	\$11.00	\$18.00	\$18.00	\$26.00
(2).....	17.00	25.50	30.00	31.00
(3).....	20.00	35.00	30.00	35.00

BERKELEY, Alameda Co., Calif.—American Bitumuls Co., 860 45th Ave. Oakland, awarded contract by city council to furnish emulsified road oil for fiscal year.

BERKELEY, Alameda Co., Calif.—Gilmore Oil Co. at \$10 ton, tank car lots (with benefit of any decline in price) awarded contract by city council to furnish 100 tons asphalt.

BERKELEY, Alameda Co., Calif.—Rhodes & Jamieson, Standard and Webster Sts., Alameda, awarded contract by city council to furnish fine, Medium 1-M and 4-M sand: Chas. S. Hughes, 474 Chetwood, Oakland, to furnish Medium M. T. sand for fiscal year commencing July 1, 1933.

Complete bids published May 24.

LOS ANGELES, Cal.—Monolith Portland Cement Co. awarded contract by county supervisors June 19 at \$9000 to furnish 3750 barrels portland cement to construct conduit on Verdugo Wash at Canada Blvd. E. C. Eaton, county flood control engineer.

BOULDER CANYON, Nevada—The California Portland Cement Co., Monolith Portland Cement Co., Southwestern Portland Cement Co. and the Riverside Cement Co., bidding jointly, were awarded the contract by the Department of the Interior June 20 at \$560,000 or \$1.40 per bbl. for furnishing 400,000 bbls. Portland cement for the Boulder Dam. Spec. No. 591-D. The bids were opened May 17.

SAN FRANCISCO—Until June 30, 3 P. M., under Bid No. 1028, bids will be received by T. A. Brooks, City Purchasing Agent, 270 City Hall, to furnish hardware and casings for the term July 1 to Dec. 31. Specifications obtainable from above office.

SAN FRANCISCO—Until June 30, 3 P. M., under bid No. 1036, bids will be received by T. A. Brooks, City Purchasing Agent, 270 City Hall, to furnish lumber for school department. Specifications obtainable from above office.

LOS ANGELES, Cal.—Riverside Cement Co., 621 S Hope St., submitted low bid to county supervisors June 19 at \$2.06 per barrel, or a total of \$9888, for furnishing 4800 bbls. Portland cement to be used in the construction of a conduit in Ballona creek (Venice Blvd. south roadway) from Rimpau Blvd. to La Brea Ave. E. C. Eaton, county flood control engineer, 202 Broadway.

OAKLAND, Cal.—Until June 26, 2 P. M., under bid No. 340, bids will be received by Supply Officer, U. S. Forest Service Supply Depot, to furnish 650 spools regular "Glidden" two-point barbed cattle wire, galv., two main strands to be No. 12½ gauge; barbs to be of No. 14 gauge, ¾-in. long, length of twist, 3-in., spacing between barbs 5-in., put up in spools of 80 rods each; shipment to Missoula, Montana.

MODESTO, Stanislaus Co., Cal.—Until June 28, 7:30 P. M., bids will be received by H. E. Gragg, City Clerk, to furnish 30,000 gals. gasoline, delivery City tanks. Specifications obtainable from City Engineer. Certified check 10% required with bid.

BERKELEY, Cal.—Richfield Oil Co., at \$2490, \$.83 per bbl., submitted low bid to Board of Education to furnish fuel oil for the Berkeley High School District.

Identical bids at \$1.01, total, \$3030, submitted by Associated Oil Co., Cook Oil Co., General Petroleum Co., Shell Oil Co., Standard Oil Co., and Union Oil Co.

Bids held under advisement until June 28.

(1724) 1st report June 6, 1933



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RAY MAXWELL, Manager

HOTEL PLAZA
POST STREET AT STOCKTON
SAN FRANCISCO

ENGINEERING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

21.—Bridges	30.—Reservoirs and Dams
22.—Dredging, Harbor Works, Excava.	31.—Pipe Lines and Wells
23.—Irrigation Proj.	32.—Sewers & Sewage Disposal Plants
24.—St. Light. Systems	33.—Water Works
25.—Machinery and Equipment	34.—Parks & Playgrounds
26.—Railroads	35.—Tunnels
27.—Fire Alarm Sys.	
28.—Fire Equipment	
29.—Streets & Highways	

21—BRIDGES

EUREKA, Humboldt Co., Cal.—Ranta & Gray, Eureka, at \$575 awarded contract by county commissioners to clean and paint the Redwood Creek Bridge at Bair's and the Trinity River bridge at Willow Creek in Road District No. 5. Complete bids follow:
Ranta & Gray, Eureka.....\$ 575.00
H. A. Anderson, Rio Dell..... 589.50
Smith Bros. Co., Eureka..... 925.00
R. J. Minnie, Eureka..... 1264.00
John E. Howard, Arcata..... 1422.00

OREGON STATE.—Until June 28, 9 A. M., bids will be received by State Highway Commission, Multnomah Hotel, Portland, to construct bridges as follows:

LINN COUNTY

Bridge over South Fork of Santiam river on Albany - Lyons Secondary Highway No. 211, about two miles west of Crabtree. Requires approximately:

1,200 cu. yds. excavation;
3,800 lin. ft. piling;
480 cu. yds. concrete;
20,000 lbs. metal reinforcement;
135 MFBM lumber;
205,000 lbs. new structural steel;
move and re-erect 130 ft. steel span and re-erect 352 ft. steel span.

POK COUNTY

Bridge over Mill Creek on Dallas-Coast Secondary Highway No. 192 about one-half mile east of Buell. Requires approximately:
65 cu. yds. excavation;
400 lin. ft. piling;
16 cu. yds. concrete;
3,400 lbs. metal reinforcement;
17 MFBM lumber;
118 lin. ft. trestle superstructure;
39,000 lbs. structural steel and removal of old bridge.

The contractor will also be required to construct the approaches to this bridge which involves approximately 6,500 cu. yds. excavation and 800 cu. yds. surfacing.

Specifications obtainable from the State Highway Commission, Rm. 322, State Office Bldg., Salem, on deposit of \$5, returnable.

SAN JOSE, Santa Clara Co., Cal.—Carl N. Swenson, 355 Stockton Ave., San Jose, at \$6795 awarded contract by County Supervisors to widen Evelyn Ave. Bridge. Complete bids follow:
Carl N. Swenson, San Jose.....\$6795
Collins & Martin, San Jose..... 7126
Neves & Harp, Santa Clara..... 7225
Pacific Truck Service, Inc., San Jose..... 7489
F. O. Bohnett, San Jose..... 8000
T. J. Doyle, San Francisco..... 8957
Surveyor's Estimate..... 7360

EUREKA, Humboldt Co., Cal.—Until June 30, 11 A. M., bids will be received by Fred M. Kay, County Clerk, to re-floor the county bridge across the South Fork of Eel River near Miranda, in Road District No. 2. Specifications obtainable from Frank Kelly, County Surveyor. Certified check 5% required with bid.

PIERCE AND LEWIS CO., Wash.—Western Construction Co., Textile Tower, Seattle, Wash., at \$23,332 awarded contract by U. S. Bureau of Public Roads, to construct the Nisqually Glacier Bridge reconstruction, West Entrance Paradise Inn Road, Project E-1A, Mt. Rainier National Park.

VISALIA, Tulare Co., Cal.—Tulare County Supervisors plan to construct five new bridges, as follows: Cottonwood Creek, estimated cost \$3500; Deer Creek, \$12,000; St. John's River, \$10,000, and two bridges over the South Fork of the Kawah River, estimated to cost \$8000. Funds will be obtained under National Industrial Recovery Act.

LOS ANGELES, Cal.—James Noon, 291 E Vineland Ave., Baldwin Park, submitted low bid to county supervisors June 19 at \$8347 (based on Proposal No. 2, using H-steel piling encased in concrete) for the construction of a concrete and steel bridge on Anaheim-Puente Road over San Jose Creek.

E. G. Perham, 1128 Stearns Drive, Los Angeles, submitted the low bid on Proposal No. 1 (concrete piling) at \$8875.

MARION COUNTY, Oregon—Until July 6, 10 A. M., bids will be received by U. S. Bureau of Public Roads, 316 New Post Office Bldg., Portland, W. H. Lynch, District Engineer, to construct one steel I beam stringer bridge over White Water Creek, North Santiam Highway Project E-24-D2, N. F. R. Proj., Willamette National Forest, involving:

- (1) 915 cu. yds. unclass. excav.;
- (2) 72 cu. yds. class A concrete;
- (3) 148 cu. yds. class B concrete!
- (4) 278 cu. yds. class D concrete;
- (5) 27,500 lbs. reinf. steel;
- (6) 309,000 lbs. struc. steel.

Specifications obtainable from above office on deposit of \$10, returnable. Proposal guarantee, 5%.

ORANGE COUNTY, Cal.—R. R. Bishop, 5017 E. Broadway, Long Beach, at \$12,581.50 submitted low bid June 21 to District Engineer, State Highway Commission, Los Angeles, to construct approach spans and repair existing bridge at Anaheim Bay

Bridge, near Seal Beach. Complete bids follow:

- (A) R. R. Bishop, Long Beach, \$12,581.50.
- (B) Weymouth Crowell, Los Angeles, \$14,441.
- (C) John Strona, Pomona, \$17,831.50.
- (D) Oscar Oberg, Los Angeles, \$19,116.
- (E) Lyerts & Dunn, Los Angeles, \$23,443.50.

Complete bids will be published shortly.

22—DREDGING, HARBOR WORKS, EXCAVATION

SONOMA COUNTY, Cal.—Appropriation of \$10,000 made for the construction of jetties at the mouth of the Russian River, work to be handled by the Department of Public Works.

SACRAMENTO, Cal.—Until July 5, 3 P. M., under Circular Proposal No. 33-346, bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, to dredge 489,000 cubic yards material from Suisun Bay near the mouth of New York slough and from New York slough between its mouth on Suisun Bay and the mouth of Middle slough. Specifications obtainable from above office.

25—MACHINERY AND EQUIPMENT

OAKLAND, Calif.—Following contracts awarded by Concrete Products Sales Co., 1522 Latham Square Bldg., Oakland (Kaiser Paving Co.) in connection with their sub-contract for mixed concrete on the San Francisco-Oakland Bay Bridge:

Motors—Howell Electric Motors Co., 38 Natoma St., San Francisco.

Motorized Units—Howell Elec. Motors.

Starting Switches—Howell Electric Motors.

Conveyor Belting—Jointly to American Rubber Co., 7 Front Street, and Pioneer Rubber Co., 353 Sacramento St., San Francisco.

Conveyor Equipment—Bodison Mfg. Co., Inc., 4401 San Bruno Ave., San Francisco.

SAN FRANCISCO.—Overland Freight Transfer Company and A-B-C Transfer & Storage Co. awarded contract under Bid No. 1115 by T. A. Brooks, City Purchasing Agent, to deliver and return voting machines and supplies for special election.

SAN BERNARDINO, Cal.—Bids for furnishing a 35 H. P. track type tractor for delivery at San Bernardino opened by State Purchasing Agent, June 10. The bids were:

Crook Co.—Allis-Chalmers 35, \$2140.
Smith Booth Usher Co.—Cletrac 35, \$2225.

Freeland Tractor & Equipment Co.—Caterpillar 35, \$2345 (less 2%).

Hulse & Anderson, El Centro—Caterpillar 35, \$2365.

J. D. Adams Co.—McCormic-Deering T-40, \$2514.

WASCO, Kern Co., Cal.—Until 8 P. M., June 30, bids will be received by the Wasco Union High School District to furnish one Indiana school bus chassis, model 14B, with 42-passenger body and equipment in accordance with specifications on file with C. W. Glenn, clerk. Bids will be received for chassis and body separately or chassis and body complete.

CAPITAL CITY TITLE COMPANY

J. C. PALEN,
Manager

914 Seventh Street
Sacramento :: California

PASADENA, Calif.—Link-Belt Co., Pacific Division, San Francisco, was awarded contract by city directors June 20 at \$9800 to furnish two duplicate conveyors at the city incinerator to supply dry rubbish and waste materials as fuel for two waste heat boiler furnaces. The bids were opened June 13.

EUREKA, Humboldt Co., Cal. — Until June 26, 2 P. M., under Quo. No. 44717, Req. No. 11875, bids will be received by State Purchasing Agent, Sacramento, to furnish one one-man motor grader unit, mounted on track-laying type tractor with 10-ft. blade. Further specifications obtainable from above office.

EUREKA, Humboldt Co., Cal. — Until June 26, 2 P. M., under Quo. No. 44718, Req. No. 11874, bids will be received by State Purchasing Agent, Sacramento, to furnish one pneumatic-tired, dual or tandem-drive one-man motor grader unit, 10-ft. blade. Further specification obtainable from above office.

30—RESERVOIRS & DAMS

LOS ANGELES, Calif.—The flood control committee of the county board of supervisors decided June 14 to readvertise for bids for the construction of the Eaton Canyon Dam in accordance with specifications which were adopted.

The 30-hour provisions of the new law relating to public works will probably not have to be included as the action taken by the board May 29 was merely a postponement and not a rescission of the board's previous action in authorizing the advertisement.

The new date for bids will be fixed either at the supervisors' meeting on June 19 or June 26, bids to be received either the 17th or 31st of July.

The plans call for a rolled earth fill dam, 1545 ft. in length, 37 ft. in height 40.5 ft. from foundations to spillway crest. The upstream side will be faced with concrete.

The cost is estimated at \$441,376.

Bids will be taken on three proposals, viz: (1) all work complete; (2) earth work, and (3) concrete and miscellaneous work.

The quantities follow:

PROPOSAL NO. 1.

All Work Complete

- (1) 10.5 acres clear and grub dam-site;
- (2) 40,000 cu. yds. stripping damsite;
- (3) 9 acres prepare foundation for dam;
- (4) 164,000 cu. yds. excavation;
- (5) 3100 cu. yds. excavation (cut-off trenches);
- (6) 167,000 cu. yds. excav. borrow pit No. 1;
- (7) 196,000 cu. yds. do, pit No. 2;
- (8) 147,000 cu. yds. embankment, impressions (Class A);
- (9) 265,000 cu. yds. do (Class B);
- (10) 1450 cu. yds. backfill, tamped (Class A);
- (11) 8850 cu. yds. backfill, untamped (Class B);
- (12) 930 cu. yds. concrete cut-off walls (Class A);
- (13) 3540 cu. yds. concrete floor slabs (Class B);
- (14) 270,000 sq. ft. gunite facing slab; Alt. to 14 (14-A) 3980 cu. yds. concrete facing slab;
- (15) 2640 cu. yds. concrete retaining wall (Class D);
- (16) 2125 cu. yds. concrete outlet conduit (Class E);
- (17) 1450 cu. yds. concrete spillway ogee (Class E);
- (18) 1,250,000 lbs. place reinf. steel;
- (19) 200,000 lbs. place gates, hoists, stems, etc.;

- (20) 44,000 lbs. place trash racks;
- (21) 8,000 lbs. place miscel. metal;
- (22) 1,000 lbs. place metal handrall;
- (23) 200 lin. ft. place tile drains;
- (24) 100 lin. ft. drill dowel holes.

PROPOSAL NO. 2.

Earthwork Only

- (1) 10.5 acres clear and grub dam-site;
- (2) 40,000 cu. yds. stripping damsite;
- (3) 9 acres prepare foundation for dam;
- (4) 156,000 cu. yds. excavation for struc. (Class A);
- (5) 3100 cu. yds. excavation (cut-off trenches) Class B;
- (6) 167,000 cu. yds. excav. borrow pit No. 1 (Class C);
- (7) 196,000 cu. yds. excav. borrow pit No. 2 (Class D);
- (8) 147,000 cu. yds. embankment impervious (Class A);
- (9) 265,000 cu. yds. do (Class B);
- (10) 1450 cu. yds. backfill, tamped (Class A);
- (11) 8850 cu. yds. backfill, untamped (Class B);

PROPOSAL NO. 3.

Concrete and Miscellaneous Work

- (4) 8000 cu. yds. excavation for struc. (Class A);
- (4A) 5000 cu. yds. excav. final trim upstream (Class E);
- (12) 930 cu. yds. concrete cut-off walls (Class A);
- (13) 3540 cu. yds. concrete floor slabs (Class B);
- (14) 250,000 sq. ft. gunite facing slab; Alt. to 14 (14-A) 3980 cu. yds. concrete facing slab;
- (15) 2640 cu. yds. concrete retaining wall (Class D);
- (16) 2125 cu. yds. concrete outlet conduit (Class E);
- (17) 1450 cu. yds. concrete spillway ogee (Class F);
- (18) 1,250,000 lbs. place reinf. steel;
- (19) 200,000 lbs. place gates, hoists, stems, etc.;
- (20) 44,000 lbs. place trash racks;
- (21) 8,000 lbs. place miscel. metal;
- (22) 1,000 lbs. place metal handrall;
- (23) 200 lin. ft. place tile drains;
- (24) 100 lin. ft. drill dowel holes.

31—PIPE LINES & WELLS

SONOMA, Sonoma Co., Calif.—All bids rejected by city council to drill two wells, bids for which were opened May 29.

32—SEWERS & SEWAGE DISPOSAL PLANTS

SAN FRANCISCO.—Chas. L. Harney, 74 New Montgomery S., at \$17,250 submitted low bid June 15 to the Public Utilities Commission to construct concrete siphon for Crystal Springs Aqueduct.

PALO ALTO, Santa Clara Co., Cal.—Until July 5, bids will be received by Board of Public Works for skimming and sludge removal apparatus for the sedimentation tank, in connection with new sewage disposal system for Palo Alto. Quantities and definite bid call will be published within a few days.

OAKLAND, Cal.—Until July 18, 10:30 A. M., new bids will be received by Geo. E. Gross, county clerk, to construct a reinforced concrete box culvert on the Valle Vista Road, Eden Twp., involving:

- (1) 260 cu. yds. struc. excav.;
 - (2) 275 cu. yds. conc. in structure;
 - (3) 44,000 lbs. reinf. steel;
 - (4) remove existing bridge, lump sum
- Estimated cost \$6500. Plans obtainable from county clerk on deposit of \$25. Geo. Wilhelm, county surveyor. All bids rejected on previous call, bids opened June 13, at which time Geo. Johanns, 2020 15th St., San Francisco, was low bidder at \$4,964.50.

BERKELEY, Alameda Co., Calif.—Martin Murphy, 1321 Milvia St., Berkeley, at \$2495.25 awarded contract by city council to construct storm sewer in Ensenada Ave. from Capistrano Ave. south to the existing culvert south of Tacoma Ave. Complete bids follow:

- Martin Murphy, Berkeley.....\$2495.25
- W. J. Tobin, Oakland..... 2527.00
- Lee J. Immel, Berkeley..... 2646.00
- Schnoor Bros., Oakland..... 2765.00

LONG BEACH, Los Angeles Co., Cal.—All bids for furnishing vitrified clay sewer pipe, opened by City Manager E. S. Dobbin, June 8, have been rejected. The pipe will probably be readvertised. The pipe quantities follow:

- (1) 1,080 lin. ft. of 8-in. pipe;
- (2) 21,328 lin. ft. of 10-in. pipe;
- (3) 6,676 lin. ft. of 12-in. pipe.

The pipe will be used for the installation of a six-mile trunk sewer in the North Long Beach area.

33—WATER WORKS

LOS ANGELES, Cal.—Western Pipe & Steel Co., 5717 Santa Fe Avenue, awarded contract by A. J. Holm, City Purchasing Agent, June 19 at a total lump sum price of \$379,115 to furnish approximately 18,000 feet of steel pipe for the Bouquet Canyon Reservoir inlet and outlet conduit. Specifications No. 3078. Bids were opened June 1. The award was based on bell and slip joint pipe under item (2) and for beveled end butt strap pipe under item (4) Schedule No. 1 (material only).

PANAMA CANAL ZONE.—Contracts for furnishing valves, pipe, etc. under Schedule No. 2870, for Madden Dam Panama Canal, awarded by the Purchasing Office, Panama Canal, Washington, D. C., as follows:

Warren Foundry & Pipe Co., 11 Broadway, New York City, Class 7, at \$1627.09.

H. Bedford Co., 425 Broad Street, Philadelphia, Class 9 at \$6427.42.

Phoenix Specialty Mfg. Co., 155 Wooster, New York City, Class 10 at \$89.82.

U. S. Rubber Products, Inc., 1790 Broadway, New York City, Class 11 at \$29.90.

MADERA, Cal.—Lone bid submitted by San Joaquin Light & Power Corp., at \$17,460 to furnish a pump with a 140 brake-hp. Diesel engine for city water pumping plant.

Bids held under advisement.

OAKLAND, Calif.—Art Conc. W'ks, 24th and Adeline Sts., Oakland, at \$3500 awarded contract by East Bay Municipal Utility District for items (1) and (2) to furnish concrete meter boxes and covers.

Form Mfg. Co., 1379 62nd, Oakland, at \$412 awarded contract to furnish concrete meter boxes and covers under items (3) and (4).

OAKLAND, Calif.—California Steel Products Co., 452 Bay St., San Francisco, at \$1627 each, awarded contract by East Bay Municipal Utility District to furnish two steel storage tanks, 120,000 gal. capacity, one for the Saranap County Water District and the other for the Fairview County Water District, in connection with construction of reservoirs and pipe lines, work being done by the East Bay District by force account.

SAN BERNARDINO, Calif.—Until 7:30 P. M., June 27, bids will be received by board of water commissioners to furnish one direct connected booster pump and electric motor for installation in the artesian well

at the Hanford Pumping Plant on D St. Specifications call for a pump of a capacity of 540-g.p.m. at 208 ft. head and 675-g.p.m. at 175 ft. head. Specifications obtainable from office of Bard Livingstoen, Acting Superintendent. Certified check or bond, 10%.

IDAHO STATE—Until July 14, 2 P. M., under Specifications No. 596-D, bids will be received by U. S. Bureau of Reclamation, Denver, Colorado, to furnish:

- (1) 1 vertical pump, 150 second-feet, head 33½ ft.;
- (2) 1 900 hp. 2200 volt, 3-phase, 60-cycle, vertical synchronus motor
- (3) 1 switchboard panel for control of synchronous motor;
- (4) (alt. to (1) and (2) vertical pump and motor;
- (5) services of erecting engineer.

BOULDER CANYON, Nev.—Newport News Shipbuilding & Drydock Co., 90 Broad St., New York, at \$148,749 awarded contract by U. S. Bureau of Reclamation to furnish one 55 hp. turbine for Boulder Dam.

Woodward Governor Co., Rockford, Ill., at \$12,286 awarded contract to furnish one Governor for the same.

SAN FRANCISCO—Enterprise Foundry Co., 2902 19th St., at \$0.0375 per lb., submitted low bid under Bid No. 1003 to T. A. Brooks, City Purchasing Agent, to furnish cast iron fittings for San Francisco Water Department for term from July 1, 1933 to June 30, 1934.

Complete bids follow:

Enterprise Foundry Co.	\$0.0375
United Iron Works	.039
Steiger & Kerr Foundry Co.	.055
Ipomeo Pine Corp.	irregular

Bids held under advisement.

ALAMEDA, Alameda Co., Calif.—Project cancelled by Constructing Quartermaster, Benton Field Air Depot to test and drill 12-in. well and furnish and install deep well turbine pump with electric motor, for which Wilkinson & Co., Gilroy, at \$3500 for well and Byron Jackson Pump Co., Berkeley, at \$1995, were low bidders.

SONOMA, Cal.—All bids returned unopened by city council to construct reservoir and municipal water system, when offer of Sonoma Water Company to sell system of \$24,000 was accepted. System will be transferred to the city by July or August, and at that time new bids will be called for the construction of reservoir and pipe, etc., necessary to put system in usable condition.

SEATTLE, Wash.—Queen City Construction Co., 603 18th St., Seattle, at \$72,915 awarded contract by board of public works to construct water main on Alki Ave.

SAN FRANCISCO—Chapman Valve Mfg. Co., at \$853.50 awarded contract under Bid No. 1011 by T. A. Brooks, City Purchasing Agent, to furnish one 30-in. double disk gate valve for Hetch Hetchy Project.

SAN FRANCISCO—M. Greenberg & Sons at \$1,835 each awarded contract under Bid No. 1010 by T. A. Brooks, City Purchasing Agent, to furnish 1300 brass lawn boxes for the Park and Recreation Departments.

SAN FRANCISCO—Pacific Brass Foundry at \$95 each awarded contract under Bid No. 1010 by T. A. Brooks, City Purchasing Agent, to furnish 300 brass hydrants for Park and Recreation Departments.

SACRAMENTO, Cal.—Until June 29 8:15 P. M., bids will be received by H. G. Denton, city clerk, to furnish 200 tons Bauxite for City filtration plant. Specifications obtainable from above office. Certified check 5% required with bid.

35—TUNNELS

LOS ANGELES, Cal.—Walsh Construction Co., Davenport, Iowa, represented by J. H. Gill, manager, 904 Chester Williams Bldg., Los Angeles, awarded contract by the Metropolitan Water District, June 16, at \$4,357,780.40, for constructing the Colorado River, the Copper Basin and the Whipple Mountain Tunnels of the Colorado River Aqueduct. The figure upon which the award was made includes deductions as allowed for combined award in accordance with bidder's stipulations. The cost of each tunnel, including deductions, will be:

Colorado River Tunnel, Schedule No. 1, 5640 lin. ft., \$543,884.
Copper Basin Tunnel, East Portion, Schedule No. 2, 6140 ft., and the West Portion, Schedule No. 3, 6140 ft., \$1,192,516.

Whipple Mountain Tunnels, East Portion, Schedule No. 4; Central Portion, Schedule No. 5, and West Portion, Schedule No. 6, \$2,621,080.

Bids were opened June 12.

LOS ANGELES, Cal.—West Constr. Co., Boston, Mass., represented by C. V. Cummings, vice-president, Biltmore Hotel, awarded contract by the Metropolitan Water District, June 16, at \$1,051,637.50, to construct White-water No. 1 and No. 2 Tunnels, Schedule No. 7, 10,040 ft. The bids were opened June 12.

LOS ANGELES, Calif.—Until 10 A. M., June 29, bids will be received by the Metropolitan Water District, 306 W Third St., Los Angeles, to furnish 7500 tons liner plates and other steel for tunnel support for use in the Coachella Tunnels for the remainder of the present year and for completing the tunnel construction. Bids are to be f.o.b. plant.

Specifications obtainable from room 1007, 306 W Third St., Los Angeles on payment of \$2.00.

Certified check, 10%, must accompany each bid. Julian Hinds, Acting Chief Engineer. 35

29—STREETS AND HIGHWAYS

LOS ANGELES, Cal.—P. J. Akmadzich at \$22,200 (estimated total) was awarded contract by A. J. Holm, City Purchasing Agent, under Spec. No. 3074, to furnish 12,000 tons oil and mineral aggregate mixture for roads in Griffith Park. Bids opened June 5.

SAN FRANCISCO—Department of Public Works, S. J. Hester, Chief Deputy Director, plans to improve Rivera St. from 35th to 36th, where not involving:

- (1) 50 ft. 6-in. V.C.P. sewers;
- (2) 50 ft. unarmored concrete curb;
- (3) 1250 sq. ft. asphalt conc. pave.

Specifications obtainable from office of John J. Casey, city engineer, 3rd floor, City Hall.

MOUNTAIN VIEW, Santa Clara Co., Cal.—City council plans to go ahead with completion of Moffet Blvd. and will take steps immediately to condemn property and acquire rights-of-way. Judge Robert R. Syer of the Superior Court, recently denied injunction tying up \$7500 held by the city for use on this project. Bids will be called as soon as possible after rights of way have been acquired.

TRINITY COUNTY, Cal.—Until July 11, 2 P. M., bids will be received by U. S. Bureau of Public Roads, C. H. Sweetser, District Engineer, 461 Market St., San Francisco, to grade 4.265 mi. Section B, Route 5, the Douglas City Peanut National Forest Highway, Trinity National Forest, involving:

- (1) 37 acres clearing;
- (2) 257,200 cu. yds. unclass. excav.;
- (3) 1930 cu. yds. unclass. excavation, struc.;
- (4) 413,000 sta. yds. overhaul;
- (5) 4.265 mi. finish earth graded road;
- (6) 26 MFEM timber cribbing;
- (7) 3346 lin. ft. corru. metal pipe;
- (8) 464 cu. yds. hand laid rock embankment;
- (9) 188 right-of-way monuments.

Specifications obtainable from above office on deposit of \$10.00, certified checks payable to Regional Fiscal Agent, U. S. Forest Service.

MONTEREY COUNTY, Ca.—Until June 30, 2 P. M., bids will be received by L. H. Gibson, District Engineer, State Highway Commission, 50 Hi-California Bldg. Maintenance Co. 5975 with cuthack asphaltic road oil 7.8 mi. existing roadhead between Molera's Ranch and Rocky Creek. Specifications obtainable from above office. Certified check 10% required with bids.

WASHOE COUNTY, Nev.—Until July 6, 2 P. M., bids will be received by U. S. Bureau of Public Roads, C. H. Sweetser, District Engineer, 461 Market St., San Francisco, to grade 5.199 mi. Section A, Route 2, Mt. Rose National Forest Highway, Tahoe National Forest, involving:

- (1) 5.2 acres clearing;
- (2) 21,400 cu. yds. unclass. excav.;
- (3) 500 cu. yds. unclass. excav., struc.;
- (4) 38,400 cu. yds. unclass. excavation borrow;
- (5) 6000 sta. yds. overhaul;
- (6) 5.199 mi. finish earth graded road;
- (7) 23,900 cu. yds. mi. haul borrow;
- (8) 38 cu. yds. concrete;
- (9) 500 lbs. reinf. steel;
- (10) 1768 lin. ft. corru. metal pipe;
- (11) 90 cu. yds. cru. rock or gravel, backfill;
- (12) 40 right-of-way monuments;
- (13) 1490 lin. ft. fence;
- (14) 1 16-ft. wire gate.

Specifications obtainable from above office on deposit of \$10, certified checks payable to Regional Fiscal Agent, U. S. Forest Service.

WASHINGTON STATE—Piorito Bros., 1100 Leary, Seattle, at \$207,703 (second low bid submitted) awarded contract by L. V. Murrow, State Director of Highways, Olympia, to pave 8.1 miles of State Road No. 2, Upper Crossing to Middle Crossing, South Fork, Snoqualmie River.

Contract was previously awarded to Jos. Watrer, Sr., Tacoma, at \$183,751, who withdrew his bid, claiming an error in figuring.

SAN JOSE, Santa Clara Co., Cal.—Until July 3, 11 A. M., bids will be received by Henry A. Pfister, county clerk, to improve Cox Road in Supervisor District No. 5, involving 156,481 sq. ft. oil macadam pavement. Specifications obtainable from Robt. Chandler, county surveyor, on payment of \$1.00.

1450 Harrison St., Oakland, on items (1) (2) and (3) awarded contract by East Bay Municipal Utility District for street repair work.

Melrose Bldg. Materials Co., 4501 Tidewater Ave., Oakland, awarded the contract on item No. (4).

SAN JOSE, Santa Clara Co., Cal.—Until July 3, 11 A. M., bids will be received by Henry A. Pfister, county clerk, to grade and surface Withey Road, in Supervisor District No. 5, involving:

- (1) 9,000 cu. yds. excavation;
- (2) 59,000 sq. ft. surfacing.

Specifications obtainable from Robt. Chandler, county surveyor, on payment of \$1.

SACRA MENTO, Cal.—The following contracts awarded by county supervisors for highway construction:

RIO LINDA ROAD: A. Teichert and Son, P. O. Box 1118, Sacramento, at \$402.10.

OLD MARYSVILLE ROAD: E. F. Hillard, 1355 43rd St., Sacramento, at \$2688.38.

EL PASO BLVD.: McGillvray Construction Co., Folsom Blvd. and 65th St., Sacramento, at \$8389.80.

GREENBACK LANE: W. H. Larson, 2805 Parker St., Berkeley, at \$4,257.

LOS ANGELES COUNTY, Calif.—Until July 12, 2 P. M., bids will be received by State Highway Commission, Sacramento, for a total length of 9.3 miles at San Gabriel Canyon, near Azusa, of which six miles will be treated with heavy fuel oil and seal coat, to be applied over the entire length, involving:

- (1) 4200 barrels heavy fuel oil;
- (2) 160 tons asphalt road oil;
- (3) 1640 tons screenings.

SEATTLE, Wash.—Northwest Construction Co., 3950 6th St., N. W., Seattle, at \$73,051 submitted low bid to board of public Works to improve:

- Admiral Way, by paving;
- Boston St., by paving;
- Tenth Ave., N. E., widen roadway and pave;
- East John St. et al, widen roadway and pave.

Second low bid submitted by J. E. Covello at \$76,273.

MEXICALI, Mexico—M. P. Barbachano, Tijuana, head of the local public utilities company, has been awarded the contract by the Government of Mexico, for completing the Tijuana-Ensenada Highway.

PLUMAS COUNTY, Cal.—Until July 6, 2 P. M., bids will be received by U. S. Bureau of Public Roads, C. H. Sweetser, District Engineer, 461 Market St., San Francisco, for 16.394 miles road oil dust palliative on Sections E and F, Route 23, the Quincy-Beckwith National Forest Highway, Plumas National Forest, involving 96,000 gallons furnish and apply road oil. Specifications obtainable from above office on deposit of \$10, returnable, checks to be certified and payable to Regional Fiscal Agent, U. S. Forest Service.

HUMBOLDT COUNTY, Cal.—Until July 11, 2 P. M., bids will be received by U. S. Bureau of Public Roads, C. H. Sweetser, District Engineer, 461 Market St., San Francisco, for 13.748 miles crushed gravel base course on California Federal Lands Project No. 1, Hoopa Valley Indian Reservation, involving:

- (1) 40,000 tons crushed gravel base course;
- (2) 5,500 tons supply crushed gravel;
- (3) 1200 M gals. watering.

Specifications obtainable from above office on deposit of \$10, returnable, checks to be certified and payable to Regional Fiscal Agent, U. S. Forest Service.

TEHAMA COUNTY, Cal.—Until July 6, 2 P. M., bids will be received by U. S. Bureau of Public Roads, C. H. Sweetser, District Engineer, 461 Market St., San Francisco, for 3.715

miles of road oil dust palliative on Section A, Route 79, the Morgan Summit-Morgan Springs National Forest Highway, Lassen National Forest, involving 18,000 gallons furnish and apply road oil. Specifications obtainable from above office on deposit of \$10, returnable, checks to be certified and payable to Regional Fiscal Agent, U. S. Forest Service.

PORT TOWNSEND, Wash.—Until July 5, 11 A. M., bids will be received by Jefferson county commissioners to clear, grub, grade, drain and surface with crushed gravel 1.28 miles of lateral highway No. 8, Dabob-Quilcene Road. Specifications obtainable from county engineer on deposit of \$5. H. E. Anderson, county clerk.

LOS ANGELES, Cal.—Proceedings for improvement of Garvalia Avenue from Del Mar Ave. to Brighton St. and a portion of Brighton St. abandoned by county supervisors June 19.

SEATTLE, Wash.—Until July 10, 10 A. M., bids will be received by King county commissioners for highway construction as follows:

Pave 1.56 miles East 125th St. from Victory to First Ave., N. E. Est. cost, \$32,000.

Grade and gravel 2.28 miles West Snoqualmie Valley road from Woodinville-Duvall road north to Snohomish county line. Est. cost, \$25,000.

Pave 1.46 mi. Redmond-Bear Creek Road (Avoncale road). Est. cost \$40,000.

Pave 1.14 miles Renton Ave. (Empire Way-Renton Road. Est. cost, \$24,080.

Pave 1.64 miles Kent-Black Diamond middle road (lateral highway No. 29). Est. cost, \$32,750.

Pave 1.53 miles Military Road (permanent highway No. 96). Est. cost, \$25,000.

Specifications obtainable from office of the county engineer, Thos. D. Hunt.

MADERA & FRESNO COS., Cal.—Tiffany, McReynolds & Tiffany Co., 535 North 7th St., San Jose, at \$15,824 submitted low bid to U. S. Bureau of Public Roads, San Francisco, for approximately 30-mi. asphalt surface treatment on Sections A, B and C, Route 74, Northfork National Forest Highway, Sierra National Forest, involving 230,000 gals. furnish and apply liquid asphaltic road material. Completed bids follow: Tiffany-McReynolds-Tiffany Co., San Jose, \$0.688, total \$15,824.

Granite Construction Co., Watsonville \$0.7825, \$17,997.50.

John Jurkovich, Fresno, \$0.8, \$18,400.

Oilfields Trucking Co., Bakersfield, \$0.86, \$19,780.

A. Teichert & Son, Sacramento, \$0.948, \$21,804.

Basalt Rock Co., Napa, \$1.1, \$25,300.

Western Motor Transfer, Inc., Santa Barbara, \$1.1, \$25,300.

Engineer's Estimated, \$0.8, \$18,400.

WASHINGTON STATE.—Until July 6, 10 A. M., bids will be received by L. V. Murrow, State Director of Highways, for highway construction as follows:

SKAMANIA COUNTY: Construct 12 miles bituminous macadam surface on State Road No. 8, Stevenson to Cooks.

KITSAP COUNTY: 3.9 miles bituminous macadam surface on State Road No. 14, end of pavement south of Bremerton to beginning of pavement in Port Orchard.

MASON COUNTY: 4.8 miles bituminous macadam surface on State Road No. 9, end of pavement north of Shelton to junction State Road No. 14.

CLALLAM COUNTY: 3.2 mi. State

Road No. 9, Blyn Easc.

Specifications obtainable from above office on deposit of \$2, returnable. Certified check 5% required with bid.

LOS ANGELES, Cal.—The city engineer has been authorized to prepare and present to the city council an ordinance of intention for the improvement of streets in the Baird Ave. and Valerio St. Improvement District (540.05 ft. center line) involving:

- (1) grading (5817 cu. yds. cut, 643 cu. yds. fill);
- (2) 137,099 sq. ft. 6-in. concrete paving (8401 ft. expansion and construction joints);
- (3) 597 sq. ft. 4-in. concrete driveways;
- (4) 58,592 sq. ft. oiled roadway;
- (5) 2266 ft. unplastered light concrete curb;
- (6) 8253 sq. ft. 1-course conc. walk;
- (7) 6785 sq. ft. 6-in. conc. gutter;
- (8) water system (not inc. services);
- (9) 6 water services;
- (10) lighting conduit.

Remove: 1900 sq. ft. oiled roadway, one 12-in. tree.

Engineer's estimate, \$32,278.03 (revised).

SAN GABRIEL, Los Angeles Co., Cal.—Until 7:30 P. M., July 5 (tentative date) bids will be received by the city council to pave Santa Anita St. bet. Las Tunas Drive and Mission Drive, under cash contract. Grading is being done by R. F. C. forces. C. N. Wright, city engineer, Pacific Electric Railway Bldg., Los Angeles, prepared the plans. The work will involve:

- (1) 37,800 sq. ft. 6-in. asphalt concrete paving;
- (2) 20,330 sq. ft. 2-in. oil macadam.

OREGON STATE.—Until June 28, 9 A. M., bids will be received by State Highway Commission, Multnomah Hotel, Portland, to construct 15.95 miles asphaltic concrete pavement, Aurora-Brooks and Canby Sections, Pacific Highway. Project will be let in two units of approximately equal size. Contractor may bid on either or both units. Specifications obtainable from State Highway Commission, Rm. 322, State Office Bldg., Salem, on deposit of \$5.

UKIAH, Mendocino Co., Cal.—Bids received from Chas. Kupfinger, Lakemport; Pacific Truck Service, Inc., San Jose; E. A. Forde, San Anselmo; and Helwig Const. Co., Sebastopol, for road surfacing, as follows:

- (1) 12,933 sq. ft. asph. road surface (armor coat);
- (2) 7540 sq. yds. asph. road surface (dust oil).

HUMBOLDT COUNTY, Cal.—Until July 5, 2 P. M., bids will be received by C. H. Sweetser, District Engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco, for 4.587 miles of grading Section A, Route 51, Hoopa National Forest Highway, Trinity National Forest, involving:

- (1) 41 acres clearing;
- (2) 370,300 cu. yds. unclass. excav.;
- (3) 3,850 cu. yds. unclass. excavation structures;
- (4) 171,500 sta. yds. overhaul;
- (5) 4,587 miles finish earth graded road;
- (6) 65 MFEM timber cribbing;
- (7) 57 cu. yds. concrete;
- (8) 3,270 lbs. reinf. steel;
- (9) 3,233 lin. ft. corru. metal pipe;
- (10) 112 cu. yds. hand laid rock embankment;
- (11) 40 right of way monuments;
- (12) 3 spillway inlets.

Specifications obtainable from the above office on deposit of \$10; certified check payable to Regional Fiscal Agent, U. S. Forest Service.

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

HETCH HETCHY AQUEDUCT PIPE LINES — S. F.

SAN FRANCISCO.—Until July 7, 3 P. M., bids will be received by Public Utilities Commission, Felton Taylor, Secretary, under Hetch Hetchy Water Supply Contract 142, to construct pipe lines, Coast Range Division, Hetch Hetchy Aqueduct (Alameda Creek Siphon and Tesla Portal connection) as follows

PROP. A: Steel pipeline and acces-

sories, Section No. 1, Alameda Creek, PROF. A, Section No. 2: Tesla Portal.

PROP. B: Steel Cylinder Reinforced concrete pipe, with short lengths of steel pipe, Section 1, Alameda Creek.

PROP. B: Section No. 2, Tesla Portal.

Quantities and unit prices follow:

	Prop. A1	Prop. A2	Prop. B1	Prop. B2
(1) 72-in. steel pipe 3/8-in. plate per ft.	\$ 3,040	\$ 565	\$ 105	\$ 565
(2) mortar cover do, 3/4-in. thick	2,225	568	90	568
(3) gunitite lining, 2-in. thick, 10' 6" steel pipe	108	137	108	137
(4) manholes	2		2	
(5) saddle nozzles, per lb.	1,400		1,400	
(6) steel plate nozzle, 48" tapered 36"	L. S.		L. S.	
(7) steel plate nozzle, 42"	L. S.		L. S.	
(8) 6-in. gate valves, non-rising stem	2		2	
(9) 8-in. do, rising stem	1		1	
(10) 12-in. gate valve, non-rising stem	1		1	
(11) 16-in. do, non-rising stem	1		1	
(12) 6-in. air valves	2		2	
(13) air release valve	1		1	
(14) steel frames and covers for valve and manhole boxes, lb.	1,400		1,400	
(15) structural steel frames, per lb.	6,200	2,800	6,200	2,800
(16) flanged e.i. pipe & fittings, per lb.	8,000		8,000	
(17) 15-in. reinf. conc. pipe, per ft.	130		130	
(18) 6-in. drain tile, per ft.	200	325	200	325
(19) steel bolts, nuts, washers, per lb.	500	100	500	100
(20) steel manifold sections, per unit	2	1	2	1
(21) 10' 6" dia. steel pipe, 1/8-in. plate per ft.	52	105	52	105
(22) misc. steel work, per lb.	1,500	300	1,500	300
(23) install fittings, furnished by city, per lb.	500	200	500	200
(24) install valves, do, larger than 16-in., per lb.	30,000		30,000	
(25) install misc. steel work, do, lb.	500	200	500	200
(26) earth excavation, per cu. yd.	10,000	2,000	11,000	2,000
(27) rock excavation, per cu. yd.	100	50	100	50
(28) earth fill at tunnel portals cu. yd.	1,100	1,300	1,100	1,300
(29) Class A concrete, per cu. yd.	75	25	75	25
(30) Class C concrete, per cu. yd.	20	5	20	5
(31) concrete packet on 10' 6" steel pipe, per lin. ft.	55	130	55	130
(32) do on 72" steel pipe, per lin. ft.	800		800	
(33) reinf. steel, per lb.	10,000	4,000	10,000	4,000
(34) valve house	L. S.		L. S.	
(35) extra cement, per barrel	50	20	50	20
(36) 63-in. steel cylinder reinf. conc. pipe, per lin. ft.			2,935	
(37) tension points in above, per joint			50	

SAN GABRIEL RIVER BRIDGE APPROACHES—L. A. CO.

LOS ANGELES COUNTY, Calif.—Oswald Bros., 366 E 58th St., Los Angeles, at \$19,431 submitted low bid June 21 to State Highway Commission, Sacramento, to grade and pave with Portland cement concrete 0.3 mile San Gabriel River bridge approaches, involving:

- (1) clear and grub right of way;
- (2) 34,000 cu. yds. imp. borrow;
- (3) 5300 sq. yds. subgrade for pave.;
- (4) 1110 cu. yds. Class A Port. cem. concrete (pave.);
- (5) 25,000 lbs. bar reinf. steel (pave.)
- (6) 200 bbls. heavy fuel oil;
- (7) 950 M. gals. water;
- (8) 600 lin. ft. bank protection fence
- (9) 1900 lin. ft. lam. timber guard rail;

(10) 14 sta. finish roadway.

Complete bids follow:

- (A) Oswald Bros., Los Angeles, \$19,431.00.
- (B) Gogo & Rados, Los Angeles, \$20,369.00.
- (C) Weymouth Crowell Co., Los Angeles, \$20,604.80.
- (D) United Concrete Pipe Co., Los Angeles, \$21,099.50.
- (E) Matich Bros., Elsinore, \$22,120.40.
- (F) Griffith Co., Los Angeles, \$23,301.00.
- (G) J. E. Haddock, Pasadena, \$24,331.00.
- (H) Sander Pierson, Santa Monica, \$24,344.00.
- (I) J. L. Connor & K. Kristich, San Juan Capistrano, \$29,477.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
(1)	\$85.00	\$400.50	\$165.00	\$140.00	\$100.00	\$275.00	\$400.00	\$100.00	\$200.00
(2)	.195	.18	.20	.175	.25	.30	.32	.265	.40
(3)	.05	.09	.07	.06	.08	.07	.09	.08	.09
(4)	6.30	7.30	6.88	7.15	6.74	6.30	6.90	7.50	8.00
(5)	.087	.04	.045	.06	.039	.035	.04	.04	.04
(6)	1.75	2.50	2.45	1.80	2.10	1.70	3.00	2.25	3.00
(7)	1.00	.75	.72	1.00	1.30	.50	.40	.50	1.00
(8)	2.65	1.20	3.00	2.50	2.35	4.00	2.40	4.00	3.00
(9)	.85	1.25	.77	1.25	.77	.70	.75	1.10	1.00
(10)	2.09	3.00	5.00	5.00	8.00	3.00	5.00	5.00	5.00

BIDS OPENED

IDAHO STATE.—J. W. Brennan & Co., Pocatello, Idaho, at \$4455 submitted low bid to U. S. Bureau of Reclamation, Denver, Colo., to construct lateral structures, Gooding Division, Minidoka project, Idaho, involving:

- (1) 750 cu. yds. excav., struc., Class 1;
- (2) 105 cu. yds. do, Class 2;
- (3) 20 cu. yds. do, Class 3;
- (4) 465 cu. yds. backfill;
- (5) 365 cu. yds. puddling or tamping backfill;
- (6) 165 cu. yds. rubble masonry;
- (7) 85 cu. yds. concrete, checks and culverts;
- (8) 95 cu. yds. concrete, other struc.
- (9) 3550 lbs. place reinf. bars, checks and culverts;
- (10) 4200 lbs. place reinf. bars, other struc.;
- (11) 360 lin. ft. lay 12-in. corr. metal pipe;
- (12) 65 lin. ft. 18-in. do;
- (13) 75 lin. ft. 24-in. do;
- (14) 3 MFBM erect timber in weirs, orifices and checks;
- (15) 4200 lbs. install gates and gate lifts.

Complete bids (a) total for schedule exclusive of item (6); (b) total, exclusive of items (7) and (9).

- (A) J. W. Brennan, Pocatello, (a) \$4,455; (b) \$4523.
- (E) Long & Ramsey, Gooding, (a) \$4,491; (b) \$4505.
- (C) C. J. Gabbey, Boise, (a) \$4536.50; (b) \$4555.00.
- (D) Bell & Morgan, Rupert, (a) \$4,868.75; (b) \$4920.25.
- (E) Kovalsky Bros., New York, (a) \$10,381.10; (b) \$10,076.80.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)
(1)....	\$.65	\$.50	\$.60	\$.80	\$2.62
(2)....	1.25	1.00	1.00	1.00	8.00
(3)....	5.00	4.00	5.00	2.00	12.00
(4)....	.25	.20	.30	.75	1.20
(5)....	.50	.30	.50	.25	.30
(6)....	9.00	8.50	9.00	9.50	11.70
(7)....	15.00	15.50	16.00	17.00	22.70
(8)....	15.00	18.50	16.00	17.00	23.04
(9)....	.04	.02	.03	.02	.086
(10)....	.04	.03	.03	.02	.084
(11)....	.25	.30	.20	.40	.70
(12)....	.30	.40	.30	.45	.74
(13)....	.40	.50	.50	.50	.78
(14)....	40.00	25.00	50.00	.30	231.20
(15)....	.04	.05	.04	.04	.20

CALAVERAS & ALPINE Counties, C. F. Frederickson & Sons, Lower Lake, at \$7834.50, submitted low bid June 19 to District Engineer, State Highway Commission, to treat with fuel oil and asphaltic road as a dust palliative 23.8-mi. existing roadbed between Dorrington and Lake Alpine, involving:

- (1) 1000 bbls. light fuel oil, Loc. A;
- (2) 600 bbls. heavy do.
- (3) 500 bbls. light, do, Loc. B.
- (4) 600 bbls. heavy, do.
- (5) 750 bbls. asph. road oil, Loc. B.

Complete as follows:

	(A)	(B)
(1)	2.10	1.95
(2)	2.26	2.00
(3)	2.10	2.35
(4)	2.26	2.40
(5)	2.63	3.06

Bids held under advisement.

LAKEVIEW HILL TUNNEL—SAN FRANCISCO

SAN FRANCISCO.—Barrett & Hillp, 918 Harrison St., at \$16,428.50 submitted low bid June 22 to Public Utilities Commission to construct Lakeview Hill Tunnel, involving:

- (1) 790 lin. ft. excav. and line tunnel;
- (2) 80 ft. tunnel lining in approaches;
- (3) 70 cu. yds. excav. and backfill, approaches;
- (4) 450 sq. ft. repave over approaches;

(5) 10 cu. yds. additional excav.;
 (6) 50 sq. ft. additional repavement.
 Complete bids follow:
 (A) Barrett & Hillp, \$16,428.50.
 (B) Youdall Const. Co., \$22,990.00.
 (C) W. J. Tobin, Oakland, \$24,373.00.
 (D) P. L. Burr, \$26,090.00.
 (E) T. E. Connolly, \$30,581.00.
 (F) H. C. Vensano, \$42,807.00.
 Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)
(1).....	\$19.15	\$28.00	\$30.00	\$31.00	\$37.40	\$51.80
(2).....	9.00	6.00	3.00	15.00	8.50	19.00
(3).....	4.00	3.00	4.00	2.50	1.50	3.00
(4).....	.50	.30	.30	.40	.40	.25
(5).....	5.00	3.00	3.00	2.50	5.00	3.00
(6).....	.50	.30	.30	.40	.40	.25

WALLOWA COUNTY, Ore.—Until July 6, 10 A. M., bids will be received by U. S. Bureau of Public Roads, 316 New Postoffice Building, Portland, W. H. Lynch, District Engineer, to improve Enterprise-Imnaha Grading Project E-39-A, N.F.R. Proj., Wallowa National Forest, 8,694 miles, involving:

- (1) 59 acres clearing;
- (2) 38 acres grubbing;

(3) 167,500 cu. yds. unclass. excav.;
 (4) 140,000 sta. yds. overhaul;
 (5) 8,694 miles finish earth graded rd.
 (6) 2.93 lin. ft. culverts (alternate);
 (7) 204 lin. ft. corrug. galv. metal pipe;
 (8) 400 cu. yds. loose rip rap;
 (9) 300 cu. yds. handlaid rock embankment.
 Specifications obtainable from the above office on deposit of \$10, returnable. Proposal guarantee, 5%.

LAKEVIEW HILL FEEDER MAINS—SAN FRANCISCO

SAN FRANCISCO.—Lowrie Paving (5a) 1482 lin. ft. make mineral lead joints;
 (5b) 495 bolted joints for 12-in. pipe;
 Commission to lay 16- and 12-in. cast iron feeder mains for Lakeview Hill, (6) 1 cu. yd. plain concrete;
 Daly City and Crocker-Amazora tract, (7) 27,915 sq. ft. repavement, involving:

- (1a) 3910 lin. ft. excav. and backfill for 16-in. cast iron pipe;
- (1b) 7800 lin. ft. do for 12-in. do;
- (2) 100 cu. yds. addn. excavation and backfill;
- (3) 680 sq. ft. addn. pave. removal and replacement;
- (4) 560 tons install pipe and fittings;

(5c) 715 bolted joints for 16-in. pipe;
 (6) 1 cu. yd. plain concrete;
 (7) 27,915 sq. ft. repavement.
 Complete bids follow:
 (A) Lowrie Paving Co., \$13,716.95
 (B) S. F. Water Dept., 13,969.16
 (C) J. O'Shea, 15,132.94
 (D) E. J. Treacy, 15,137.70
 (E) Pacific Pavements, 17,666.15
 (F) Eaton & Smith, 17,743.39
 (G) Fay Imp. Co., 17,859.85
 Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
(1a).....	\$.40	\$.55	\$.61	\$.57	\$.74	\$.85	\$.66
(1b).....	1.00	.45	.61	.513	.74	.75	.69
(2).....	1.00	1.00	.50	1.00	2.50	1.00	1.00
(3).....	.25	.27	.20	.30	.30	.30	.29
(4).....	2.40	2.52	2.83	3.85	2.95	2.25	3.60
(5a).....	.20	.18	.22	.225	.15	.25	.15
(5b).....	.10	.15	.25	.20	.20	.40	.30
(5c).....	.12	.17	.25	.20	.20	.40	.30
(6).....	8.50	10.00	7.50	10.00	10.00	10.00	20.00
(7).....	.25	.22	.20	.21	.22	.22	.25

SAN DIEGO COUNTY, Cal.—Griffith Co., 502 L. A. Railway Bldg., Los Angeles, at \$10,611 submitted low bid June 21 to District Engineer, State Highway Commission, Los Angeles, for highway construction between Sorrento Creek and Del Mar, about 0.25 mi. in length to be graded and paved with portland cement concrete. Complete bids follow:

(A) Griffith Co., Los Angeles, \$10,611.
 (B) Weymouth Crowell Co., Los Angeles, \$11,630.45.
 (C) Matich Bros., Elsinore, \$11,931.50
 (D) L. G. Carroll, San Diego, \$12,123.50.
 (E) V. R. Dennis Co., San Diego, \$12,881.
 (F) Walter Treptke, San Diego, \$12,965.50.

TUOLUMNE COUNTY, Calif.—Until July 5, 3 P. M., bids will be received by R. E. Pierce, District Engineer, State Highway Commission, Room 502 State Office Bldg., Sacramento, to grade and pave with Portland cement concrete 0.6 mile at Sonora, and to widen two bridges, involving:

- (1) 6 trees, remove and dispose of;
- (2) 1700 cu. yds. rdwy. excav., unclassified;
- (3) 7100 sta. yds. struc. excav.;
- (4) 175 cu. yds. struc. excav.;
- (5) 235 cu. yds. Class A Portland cement conc. (pavement widening);
- (6) 35 cu. yds. do (struc.);
- (7) 112 cu. yds. Class C do (struc.);
- (8) 32 lin. ft. 12-in. corrug. metal pipe
- (9) 54 lin. ft. 18-in. do;
- (10) 16 1/2 in. ft. 21-in. do;
- (11) 3 move and reset headwalls;
- (12) 12 cu. yds. conc., remove from existing pave. and struc.;
- (13) 130 lin. ft. solid timber guard rail;
- (14) 32 cu. yds. dry rubble wall;
- (15) 1 lot remove portions of existing bridge;
- (16) 3500 lbs. bar reinf. steel;
- (17) 1 lot place old struc. steel;
- (18) 8100 lbs. new struc. steel;
- (19) 55 lin. ft. reset pipe railing;
- (20) 110 lin. ft. solid timber railing bridge;
- (21) 30 sta. finish roadway.
 Specifications obtainable from above office. Certified check 10% required with bid.

CRYSTAL SPRINGS AQUEDUCT SIPHON—SAN FRANCISCO

SAN FRANCISCO—Chas. L. Harney, 74 New Montgomery St., at \$17,250 submitted low bid June 15 to Public Utilities Commission to construct concrete siphon for Crystal Springs Aqueduct, involving:

- (1) remove existing structures (lump sum);
- (2) 2700 cu. yds. excav.;
- (3) 220 cu. yds. concrete;
- (4) 16,000 lbs. reinf. steel;
- (5) 610 lin. ft. furnish and install 72-inch concrete pipe;
- (6) 100 ft. 36-in. do;

(7) 15,000 lbs. install gates furnished by city;
 (8) 20 ft. install 44-in. steel or wrought iron pipe furnished by city;
 (9) blow-off connection (lump sum);
 (10) furnish and install steel grating (lump sum);
 (11) 1600 lbs. furnish and install misc. steel or iron work;
 (12) 7 M. E. M. redwood in place;
 (13) 3 M. E. M. Douglas Fir in place.
 Complete bids follow:
 (A) Chas. L. Harney, \$17,250.

(B) A. H. Vogt, \$17,660.
 (C) F. C. Amoroso, \$17,979.
 (D) MacDonald & Kahn, \$18,838.50.
 (E) C. A. Bruce & Sons, \$18,888.50.
 (F) Theo. Cohn, \$18,970.50.
 (G) Baldwin & Butler, \$19,674.
 (H) K. E. Parker Co., \$19,926.10.
 (I) P. L. Burr, \$20,001.50.
 (J) W. J. Tobin, \$20,090.
 (K) C. C. W. and H. H. Haun, \$20,535.
 (L) J. S. Heilmann, \$21,035.
 (M) H. C. Vensano, \$27,524.
 Unit bids follow:

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
(A).....	\$400.00	\$.80	\$14.00	\$0.0225	\$15.00	\$5.20	\$0.03	\$3.00	\$100.00	\$100.00	\$10.00	\$70.00	\$30.00
(B).....	200.00	.75	15.50	.02	16.00	6.20	.01	2.50	140.00	60.00	.15	65.00	45.00
(C).....	350.00	.50	16.00	.025	16.00	7.00	.03	3.20	248.00	100.00	.10	85.00	50.00
(D).....	265.00	.65	14.00	.03	18.35	7.20	.015	3.50	175.00	95.00	.17	65.00	40.00
(E).....	970.00	.80	17.50	.03	15.75	6.00	.01	2.00	146.00	90.00	.20	65.00	40.00
(F).....	50.00	.50	16.75	.04	18.00	6.50	.019	1.15	225.00	60.00	.115	95.00	77.00
(G).....	624.00	1.00	17.35	.025	16.50	6.00	.0125	1.35	250.00	70.00	.07	75.00	55.00
(H).....	500.00	.85	20.00	.025	17.00	5.90	.01	2.87	140.00	60.00	.08	80.00	45.00
(I).....	525.00	1.00	16.00	.04	17.54	6.27	.0125	3.25	150.00	135.00	.15	60.00	50.00
(J).....	150.00	1.00	21.00	.05	16.00	6.00	.01	7.00	200.00	90.00	.05	80.00	80.00
(K).....	350.00	.90	21.00	.03	17.50	7.00	.02	2.00	150.00	100.00	.065	65.00	50.00
(L).....	700.00	1.00	21.00	.03	17.00	7.00	.015	4.00	100.00	75.00	.20	85.00	50.00
(M).....	806.00	2.28	21.40	.03	21.50	8.00	.02	3.50	193.00	56.00	.12	77.00	52.00

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IN THIS ISSUE



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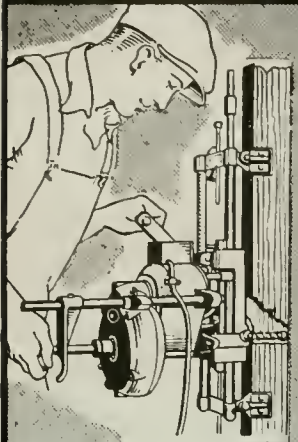
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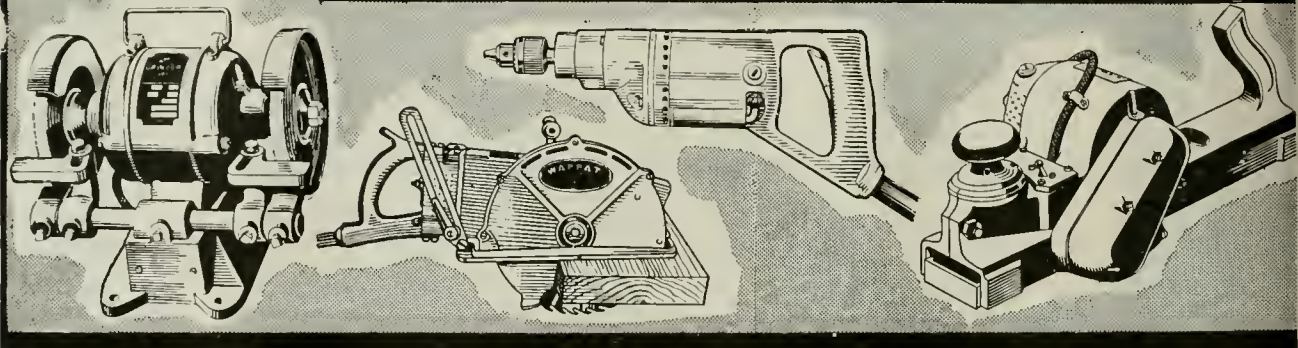
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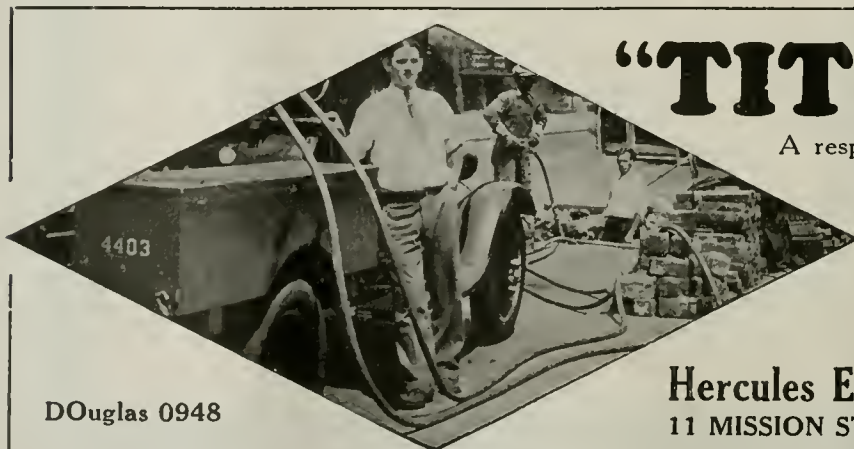
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SAM B. EUBANKS, Editor

Vol. XVI

SAN FRANCISCO, CALIF., JULY 1, 1933

No. 24

LOCAL PROJECTS GET TWO-THIRDS OF FEDERAL CASH

**Communities Should Press
Plans For Eligible
Work**

Present indications are that approximately \$2,000,000,000 of the \$3,300,000,000 appropriated through the National Recovery Act are to be available for local public improvements, according to E. J. Harding, managing director of the Associated General Contractors of America.

Provisions of the act making available an outright grant of 30 per cent of the cost of such local work also require that the responsibility for repayment of 70 per cent of the cost must be assumed by the local communities. "In many instances this will require that authorization must be secured from legislative bodies, from taxpayers, or from administrative officials empowered to enter into such financing agreements," Mr. Harding said.

"It means that a consistent program of promotional effort must be drawn up in all local communities throughout the country to select the projects which should go ahead at once, popularize the need for such projects, see that the proper authorizations are made and in general to get the machinery in motion for making the applications to the National Public Works Administration so that funds may be secured quickly and work begun soon."

NAVY ASKS \$1,788,000 FOR MARE ISLAND

Mare Island Navy Yard improvements proposed by the Navy will involve an estimated expenditure of \$1,788,000, according to recommendations to the administrator of public works.

The projects proposed include:

Extension of Dike No. 12, \$250,000; oil tanks at submarine base, \$18,000; causeway, including land, \$980,000; completion of improvement of power plant, \$150,000.

Naval ammunition depot, magazines, \$325,000; black powder ignition filling and quilting house, \$5,000; completion of improvement of buildings, \$50,000.

THE WEEK'S NEWS Highlights

STATE ADMINISTRATOR.

Timothy Reardon, director of the State Department of Industrial Relations, heads a list of eight names sent to Washington by Governor Rolph, from which he recommends a public works administrator for California be appointed. Others proposed include Walter L. Huber, Col. Thomas M. Robbins, H. H. Cotton, Earl Lee Kelly, Harry A. Hopkins, John Quinn and H. A. Van Norman.

ELECTION. Decisive rejection of the gas tax diversion plan and defeat of \$3,000,000 San Francisco school bond issue were items of principal interest to construction at last Tuesday's election.

FAIR PRACTICE. Definite steps toward organization of the building industry for conduct of their business under fair trade practices approved by the Federal government will be taken from one or more sources in the near future. Directors of the State Builders' Exchange plan two conferences, one in San Francisco and one in Los Angeles, at which trade problems will be discussed by representatives of member exchanges. State Registrar of Contractors Carlos Huntington is awaiting an opinion from the attorney-general as to his authority in assisting the state organization through official or semi-official intervention of the state bureau. Meanwhile various groups within the industry and allied fields are proceeding with organization which is already tending toward stabilization of prices on materials and services.

VOTERS AGAIN REJECT RAID ON ROAD FUND

**City School Bond Proposal
Fails of Two-thirds
Majority**

California voters have again voted decisively to reject any plan for curtailing new highway construction by diverting the gasoline tax revenue. Returns last night from most of the state's precincts indicated that the vote will be nearly 3 to 1 against Propositions 9 and 10 by which the legislature would be authorized to use current revenues for paying old bond obligations. Tuesday's vote showed no change in sentiment from last November's vote on a similar plan.

In San Francisco the vote against diversion was almost 5 to 1.

San Francisco voters, however, failed to authorize a \$3,000,000 bond issue replacement of obsolete school buildings. The proposition received a majority of about 29,000 but failed by a considerable margin to win two-thirds of the vote cast necessary to pass.

Approval of the bill to legalize pari-mutuel betting on horse racing may result in the erection of new racing plants in California. Plans for the San Pablo track on which it is estimated \$250,000 will be spent have been delayed pending a vote to permit betting. It is expected that promoters of this venture will proceed at an early date.

San Mateo county voted to create a harbor district as the enabling act under which interests there expect to proceed with development of the Redwood City harbor. The improvements would be financed in part by local bonds and in part by Federal harbor appropriations.

The State of Washington is ready to spend \$4,000,000 for highway construction as soon as the Federal public works program makes the money available, according to Director of Highways Lacy V. Murray.

Mr. Murray said his department could call bids within 60 days on \$4,000,000 worth of work at points in all parts of the state.

INDUSTRY URGED TO LEADERSHIP IN WORK PROGRAM

Architects and Engineers Co-
operation Asked by Local
A. G. C. Chapter

Cooperation of all local groups identified with the construction industry in formulating the public works program for the State of California under the National Industrial Recovery Act is urged by Floyd O. Booe, secretary-manager of the Associated General Contractors, Northern California Chapter, in a letter addressed to presidents of architectural and engineering societies.

In his communication Mr. Booe said:

"As general contractors we are of the opinion that constructive leadership in respect to the public works feature of the Act will largely rest in the architects, the engineers and those officials who are actively engaged in public works construction activities. By this we mean that the trained construction men in these groups are the ones most capable of aiding and coordinating the public works program rather than to depend too much upon civic groups.

"Public works construction is a specialized business, just as is any other type of business, and those who are engaged therein have the experience and the knowledge to coordinate the program most directly and to secure the maximum results in a minimum of time.

"We believe also that it is the intent of the President's program that this public works feature shall provide a volume of business through normal business channels which will build a firm foundation for other lines of endeavor and that in this sense it is not a relief or charity program. Consequently, the engineers, the architects and others who will be directly affected should use their very best efforts to see that the program is carried out in a normal business way. To be effective this expansion of business must reach not only through the employment on the actual construction project itself, but also to the material and equipment producers, the manufacturers and others, and thus provide the stimulation required in all lines of activity."

Total production of range boilers for two months of the calendar year is reported as 67,033 units, compared with 70,029 units in the corresponding period of 1932. Shipments for the two months totaled 67,401 units.

State Safety Engineer Warns of Hazards in Trench Construction

By A. G. Wagner, Engineer,
Industrial Accident Commission

There are so many different hazards in connection with the digging of trenches that it is difficult to single out any one particular operation and call it the most dangerous. It is, therefore, desirable to deal in this article with those that have been primarily productive of fatal results. It is further desirable to take into consideration the physical characteristics of the ground or soil in which the trenches are to be dug, as these conditions vary a great deal in different localities, and the material to be encountered may change from solid rock to fluid mud or sand. In this connection, it is well to mention that unless the walls of the trenches are known to be of the most unyielding material, they are liable to cave-in, and if the trench is of a depth of four feet or more, the result may be serious. Knowledge of the characteristics of various soils should govern the spacing of all braces. In no case, regardless of the physical characteristics, should the extreme limit of the vertical braces be greater than eight feet.

When a trench is being excavated in fluid mud, or sand, the sheeting must of necessity be continuous and, instead of bracing the various single sheets with cross-braces, stringers or wales of ample size should be placed in a horizontal position along the sheeting with the cross-braces or spreaders bearing against and normal to the stringers. This method allows for greater room in which to prosecute the work, and further provides a more substantial method of preventing the direct collapse of single units of sheeting, with the possible subsequent loss of more extensive sections.

The traveling shield fastened to the boom of the excavator, for use in unstable soil of nearly all classifications, permits the placing of braces immediately behind the boom, and obviates the necessity of setting braces in a short but unprotected zone. It further eliminates the practice of having a workman follow the boom to shovel ahead. The last named custom is a vicious one and should not be practiced under any circumstances.

It can safely be said that the use of the traveling shield, since its almost universal adoption in the southern part of the State, has been responsible for a great measure of protection and the successful

ful and safe construction of many

The use of the mechanical digger should be discontinued in filled or any unstable ground, unless the boom and the workmen are protected by the use of the traveling shield. When the use of such a shield is not available, the trench should be slope cut or sunk by hand. In the latter case the bracing should be kept at all times at no less than one foot above the excavated grade.

Back filling of trenches has in many instances been productive of serious results when the necessary precautions have not been taken before removing any of the cross-braces. All trenches five feet or more in depth should be well filled to the height of the lowest cross-braces before any such cross-braces are removed.

All trench construction should be carried on under the direct supervision of a person having a competent knowledge of the English language.

In nearly all cases of public improvement, ordinances are, as a rule, included in the general specifications by reference only. Because of this, they are usually merely glanced over or entirely neglected.

Public ordinances having such vital concern as the safety laws prescribed to provide an adequate measure of safety, should be just as familiar to the performing contractor as the specifications and regulations governing the type and quality of pipe to be used.

The public work inspectors employed by political subdivisions to inspect for 100 per cent performance by the contractor, should also be as familiar with ordinances and safety orders of the Industrial Accident Commission as they are with the specifications governing the material and construction of the job.

To the use of poor judgment and the lack of good judgment can be ascribed the greatest number of accidents.

To neglect ordinary precautions because in the opinion of the foreman or employer "the ground looks good," is to "fly in the face of Providence." Opinions of this nature are worthless. We should know what precautions should be taken to avoid disaster. The forces of gravitation are constantly seeking to reduce all structures to the horizontal plane.

A method to insure security against collapse or cave-in can certainly be provided at a much cheaper price than the cost of a human life, which can not be measured in dollars and cents.

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BUILDING TRADES EMPLOYMENT GAIN REPORTED BY ASSN.

12% More Men Working In San Francisco Than Year Ago, Survey Shows

Employment in the San Francisco building trades has shown a definite upturn according to the periodic check just completed by the Industrial Association of San Francisco.

The census taken as of June 20, 1933, shows 2567 building trades mechanics actually working on construction work in the city of San Francisco as of that date.

This compares with 2360 building trades mechanics working on November 8, 1932, and 2,289 mechanics working May 5, 1932.

The present survey shows an increase of 12% over the survey of one year ago.

The above census does not include municipal or civil service employees.

METAL ASSOCIATION COMMITTEE CHOSEN

California Metal Trades Association has appointed a special committee to cooperate with the Federal government in application of the National Industrial Recovery Act. This association represents bay district firms engaged in the metal industry and was organized in 1907.

The following have been named by the executive committee to study the Industrial Recovery Act on behalf of the organization:

President, Howard G. Tallyday, Western Pipe & Steel Co., San Francisco; vice-president, Frank B. Drake, Johnson Gear and Mfg. Co., Berkeley; P. A. Coxon, Moore Drydock Co., Oakland; W. H. Oliver, Oliver United Filters, Inc., Oakland; Jos. S. Thompson, Pacific Mfg. Co., San Francisco; F. H. Kilberry, Atlas Imperial Diesel Engine Co., Oakland; Geo. H. Raitt Steel Tank and Pipe Co. of California, Berkeley; B. A. Gayman, Link-Belt Co., Pacific division, San Francisco, and Fred C. Metcalf, commissioner, California Metal Trades Association.

CITY WAGE SCALE TO BE MAINTAINED

San Francisco public works wage scales will remain unchanged with only one exception during the six months commencing July 1. The board of supervisors voted to amend the prevailing wage scale by reducing Housemiths, reinforced concrete division, to \$8 a day from a former scale of \$9.

The only other changes are modification of the classification Stonesetters to include granite curb labor at \$11 a day; and the addition of the provision that wherever welding processes are involved the rate paid for such shall be that fixed for the craft performing the work.

CHAMBER TO AID CONTROL GROUPS

McBean Heads S. F. Recovery Board; Warns of Racketeers

Business men are urged to look only to their trade associations or to the chambers of commerce for information about the National Industrial Recovery Act as a protection against promoters who will attempt to "muscle in" on organization plans.

The San Francisco Chamber of Commerce is collecting information for the aid of local groups and a district committee to be known as the San Francisco Industrial Recovery Board will be formed. Atholl McBean is chairman of the board.

"We must make the industrial recovery bill work," Geo. J. Presley, vice-president and general manager of the chamber said, "and we can only do so by keeping out the racketeer, and by organizing industrial patriotism as we organized patriotic enthusiasm during the war."

GAS INSTALLATION CODE FOR FITTERS ADOPTED BY ASSN.

Detailed Safety Regulations Are Incorporated in Manual

A comprehensive code covering the installation, maintenance, and use in buildings of piping and fittings for city gas has been approved by the American Standards Association as American recommended practice, following its submittal by the National Fire Protection Association.

The code embraces practically every point of gas installations in buildings, from the entry of the lines into buildings to the connections to appliances. It states the precautions to be observed by gas fitters installing or repairing piping, and provides standard methods of inspection and test to assure the safety of the installation. This includes provisions to make certain that gas-burning appliances shall be installed only where there are proper ventilating facilities.

The code was submitted for approval as an existing standard after 12 years of experience with earlier editions. The promulgation of the original code followed several years of work on the subject by a committee of the National Fire Protection Association.

Preliminary to the approval of the code by the American Standards Association, a critical comparative study was made of its provisions with the extensive series of requirements for various types of gas-burning appliances which have been developed by a technical committee under the sponsorship of the American Gas Association. In this way these standards have been brought into complete harmony.

The National Fire Protection Association has been designated sponsor for the project under the procedure of the American Standards Association and future revisions of the code will be handled by a technical committee.

FOR SALE...

110 Horsepower Diesel Engine at a Bargain

United Commercial Co., Inc.

234 Stuart Street

San Francisco

SMITH BROS. TRUCK CO.

"TRANSPORTATION SPECIALISTS"

Portable Crane Service—Rigging

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Move More Dirt Faster with LE TOURNEAU Equipment

A complete line of grading machinery—designed by a contractor—developed on actual construction jobs—built to stand continuous use under the worst conditions.

ENGINEER'S CONSULTATION FREE

R. G. LE TOURNEAU, INC.

Wilson Way at Roosevelt

Stockton, Calif.

STATE BUR. ASKS AUTHORITY TO AID INDUSTRY C'TROL

Attorney-General Will Rule on Registrar's Authority To Map Code

Carlos W. Huntington, registrar of contractors, asked the attorney general for an opinion on the power of a regulatory state agency to aid the California building and construction industry under the National Industrial Recovery act, providing for the organization of each industry and formulation of a code of ethics to guarantee fair play and eliminate unfair competition.

This action follows receipt of requests from leading groups in the building industry for cooperation in formulating a code of ethics and fair play for California contractors under the program of President Roosevelt. Col. Huntington reported today to Gov. Jas. Rolph, Jr.

"We are anxious to cooperate with the industry in every way possible in any movement which has for its objective the return of normal business conditions, which is the goal of the National Industrial Recovery Act," said Huntington.

Huntington indicated that a program of cooperation with the construction industry would soon be formulated. "We will welcome any suggestions from the industry," he said, "as to the manner in which we can best cooperate, providing, of course, that Attorney General Webb holds that this is within our power."

"California's contractors' act, adopted by the 1929 legislature, has as its objective many of the purposes provided in the program of President Roosevelt. The state law also gives the public ample opportunity for redress against any fraudulent contractor. The national program, in some respects, is more stringent," he said.

Under the Roosevelt national program, all industries are expected to, and may be compelled to, organize themselves and agree upon a uniform code of ethics which will provide for fair play, protection of labor and the elimination of unfair competition.

This code must be drafted and agreed upon by a majority group in each major industry, and, upon approval by the President, will be binding upon all persons engaged in that industry. Failure of any industry to comply voluntarily with provisions of the act empowers the national administration to promulgate a code covering that industry and provide severe penalties for violators.

"The California building and construction industry has evidenced a sincere desire to join in the national recovery program," said Huntington, who is also director of the department of professional and vocational standards in Gov. Rolph's cabinet.

Requests for Federal Aid on 500 State Construction Projects Listed by Chamber

Preliminary tabulation to date of California public works projects by cities and counties as submitted to the California State Chamber of Commerce following a series of regional meetings to stimulate quick action to relieve unemployment under the National Industrial Recovery Act, shows approximately 500 separate projects, aggregating \$127,461,687. The estimates are on only 340 of the projects as 160 were submitted without cost figures yet available.

"Classification according to type of work involved," reports the State Chamber, "shows road or street construction and repair first in number with 211 separate projects; drainage, sewer and water conservation projects are second; and building construction third in number recommended. County supervisors have been active in the promulgation of county projects. Cities are undertaking to initiate 135 of the 500 projects reported to date, while special districts account for 17.

"Nature of the projects proposed varies from cooperative packing plants to Federal office buildings. Sewage disposal systems are among the most frequently mentioned works in Northern California, while the southern part of state proposes many flood control plans and public buildings. In several cases a large part of the proposed expenditure is already on hand, having been budgeted during past years, and only a portion of the total cost is sought from the Federal Government.

"Incomplete estimates relative to many of these projects makes impossible, at present, any estimate of the total number of workers to be employed. Such plans and specifications that do include employment estimates show projected work for many thousands of wage earners, notwithstanding the fact that estimated labor requirements have not been completed for a majority of the proposed projects.

"A wide variety of public works projects are listed by the cities and counties of Southern California. The \$61,708,783 to be expended on 198 public works projects reported from this region is made up of items varying from \$600 to \$12,000,000. The estimated expenditure for the proposed new Los Angeles County court house is the largest item.

"Los Angeles County leads the list in both number and value of projects requested during the first week, with 124 separate proposals

aggregating \$47,188,230. Thirty-two new buildings are desired; drainage sewer and water projects total 29 in number; 40 road and street improvements are listed; while four bridges are among the items being considered.

"Gibraltar Dam in Santa Barbara County, estimated to cost \$2,000,000, is one of the largest water projects being considered in Southern California. Water conservation projects being proposed by the Santa Barbara region aggregate \$3,925,000 and include as the leading item the conservation of Sisquoc and Cuyama Rivers.

"The City of Ventura lists nine street and highway improvements which will provide employment for over 3000 men and show an aggregate cost of \$228,323.

"A large part of the \$43,352,979 cost of reported public works projects of the San Francisco Bay area is made up of highway construction and related work. Bridge approaches, which account for \$22,000,000, are the largest single items, while the Broadway Tunnel between Alameda and Contra Costa Counties adds \$3,752,000. Among the building construction projects, the proposed Alameda County court house and the exposition buildings of the San Francisco-San Mateo District Agricultural Association are leading items. The City of Oakland lists a number of sewer system projects, including among others the Western Water Front sewer improvement at an estimated cost of \$2,470,000. It is estimated that this project alone will require two years to complete and will provide employment for about 350 men. Construction of an industrial fresh water canal is one of the principal objectives of Contra Costa County under the National Industrial Recovery Act, while highway construction, beach projects, and sewer systems are requested by cities of the Monterey Peninsula."

The following table shows the type and number of projects submitted by various regions:

Region	No. of Projects Reported	Building Construction	Sewer, Sanitation, Water Proj., Etc.	Road, Street and Highway	Bridge Construction	Total Cost Reported
North Coast	47	10	17	19	2	\$2,495,000
Sacramento Valley	71	18	10	40	2	14,151,000
Central Valley	40	5	5	27	2	
San Joaquin Valley	84	15		45	23	4,253,925
Central Coast	53	5	23	20	3	44,852,979
Southern Calif.	198	49	53	60	9	61,708,783

State Builders' Exchange to Call Industry Conference on Trade Code

Preparing to call two general conferences of the California building industry, probably at San Francisco and Los Angeles, in an effort to bolster construction and to participate in the National Recovery program, the California State Builders' Exchange yesterday communicated with Hugh S. Johnson, national administrator, proffering assistance and seeking information as to general lines of policy to be followed by California builders. The telegram was sent from the office of the State Exchange at Los Angeles, Secretary Frederic Sanford said.

Ralph E. Homann of Los Angeles, president of the State Exchange and H. L. Sweeney of Santa Barbara, chairman of the exchange industrial survey committee, will direct the cooperative activity, the secretary reported. President Homann, through Chairman Sweeney, is now making preliminary plans for the general conferences in the north and south.

A telegram was sent also to Earl R. Stokes, secretary of the National Association of Builders' Exchanges at Washington, D. C., volunteering cooperative effort with Administrator Johnson.

Immediate action grew out of the meeting of the Board of Directors of the California Builders' Exchange held at Santa Maria, June 17. The directors adopted a resolution calling upon the construction industry of the state to cooperate for an upswing in building. News of the action is now being conveyed to 20 member exchanges and to all state organizations embracing construction activities, Sanford said.

Bulletins from Washington mention development of basic action in the lumber industry. The California Exchange desires prompt action as to basic control in the industry which largely consumes the lumber output.

The text of the resolution follows:

WHEREAS, Congress passed the Industrial Recovery Act on June 13, 1933, and President Roosevelt urges that industry throughout the United States promptly avail itself of the provisions of this act in order to increase employment, restore a living

rate of wage, and control destructive competition, and

WHEREAS, It is anticipated that the California Legislature will enact similar legislation as to intra-state commerce when it reconvenes in July and

WHEREAS, The California State Builders' Exchange is the coordinating body of the construction industry in California, its membership being composed of twenty local builders' exchanges situated in as many centers of the state, and the membership of each local exchange consisting of the manufacturers, dealers, general and specialty contractors of the construction industry in the respective communities;

NOW THEREFORE, BE IT RESOLVED, That the California State Builders' Exchange take immediate steps to formulate plans whereby the construction industry of the State of California may act promptly and in unison in adopting a "Code of Fair Competition" for the regulation of the many groups and crafts of which this industry is composed, and

BE IT FURTHER RESOLVED, That our Secretary address every known California state organization in the construction industry advising them to confer with the California State Builders' Exchange in formulation of such code or codes; and that our Secretary address every member Exchange requesting them to contact all craft groups in their respective areas, and to call a series of meetings to work out codes of fair competition; stressing to all such state organizations, local exchanges, and local craft groups, the desirability of having all such craft or local codes merge harmoniously in a general code applicable to all groups and all crafts throughout the construction industry of the State; and,

BE IT FURTHER RESOLVED, That it be recommended that such codes be formulated to regulate the following matters:

1. Maximum weekly hours of labor in any branch of the industry;
2. Minimum wages per hour for the industry as a whole;
3. Price agreements between members of an association, and between the several associations;
4. Agreement as to trade practices, including: Sales below cost, credit rules, secret rebates, fraudulent practices, price cutting, delivery points, defamation of competitors and other unethical practices.

Passed by the Board of Directors of the California State Builders' Exchange at its meeting at Santa Ma-

LUMBERMEN SEE EARLY REVIVAL OF HOME MARKET

National Recovery Act Will Stimulate Low-Cost Residence Building

An opportunity to revive a billion-dollar national market—home modernizing—is seen by officials of the West Coast Lumbermen's Association, Seattle, in Section 202 (d) of the public works portion of the National Industry Recovery Act.

Section 202 states: "The Administrator, under the direction of the President shall prepare a comprehensive program of public works shall include among other things the following

"Construction, reconstruction, alterations, or repairs under public regulation or control of low-cost housing and slum-clearance projects."

This wording is interpreted by officials of the West Coast Lumbermen's Association as offering an opportunity in every city and county throughout the United States for local control laws—enacted for example by a city council or a board of country commissioners—to be set up under which low cost homes could be built, rebuilt, altered or repaired.

"The altering and repairing of homes is today the largest potential market in the United States for the use of building materials and for the employment of building labor." "One billion dollars worth of this kind of business, of which at least fifty per cent would go directly to labor on the job and another thirty to forty per cent to labor in transportation, mining and manufacturing, is available and could be finished during 1933, the association estimates. The total probable home modernizing market is estimated to be at least three billion dollars but a large portion of the older houses probably could not be brought immediately under the provision of the Act

"It is not known what interpretation the government will place on the words, under public regulation, but from the trend of amendments in the bill during the House and Senate sessions, it is evident that "under public regulations" was added to care for situations in states lacking public housing control acts. As all housing control acts—New York, California, Ohio, Arkansas and New Jersey are examples of such legislation—contain provisions for limiting the profit of corporations operating under public control in housing, it is assumed the government in the administration of loans is likely to exact a similar provision in local administration of publicly regulated corporations as a necessary consideration in the use of public funds.

EX-GOVERNOR HEADS RENOVIZING CAMPAIGN

Former Governor C. C. Young of Burlingame, yesterday announced appointment of Frank McVeigh, former manager of the Burlingame Chamber of Commerce and director of the county charter campaign, as director of the San Mateo county renovize campaign.

The renovize campaign will have as its object improvement of their property by owners to the extent of \$1,125,000. Young heads the campaign committee.

APPROVE \$1,250,000 RECLAMATION WORK

A construction program involving \$1,250,000 for 1934-35 has been approved by the California state reclamation board.

Sixteen projects in Yolo, Colusa, Yuba, Sutter and other river counties reported by Maj. A. M. Barton, state reclamation engineer, were approved. The flood control work will be financed on a cooperative basis by the state, the federal government and the land-owners.

PERMITS AND CONTRACTS

No.	Owner	Contractor	Amt.
422	Mennucci	Galli	6000
423	Matheson	Petersen	1200
424	Messenger	Mooney	2000
425	Lincoln	Fisher	50000
426	Gragnani	Pera	8000
427	Bocci	Owner	5500
428	Pacific	Owner	1200
428	Klinker	Michel	1000
430	Whitney	Owner	3950
431	Whitney	Owner	3950
432	Panelli	Owner	6000
433	Union	Union	4000
434	Mutual	Empire	1000
435	Gantner	Owner	3750
436	French	Owner	6500
637	Silverstein	Salomon	1500
638	Horn	Owner	4000
639	Windler	Owner	11000
640	Ruegg	Ruegg	4000
641	Brierly	Peterson	1000

FLATS

(422) E GOUGH ST. 115 S Lombard. Two-story frame (2) flats. Owner—E. Mennucci, % Contractor. Architect—Not Given. Contractor—G. Galli, 1900 Hyde St., San Francisco. \$6000

ADDITION

(423) NO. 1771 ELEVENTH AVENUE Addition to dwelling. Owner—Mrs. L. Matheson, Premises. Architect—Not Given. Contractor—H. L. Petersen, 731 Treat Ave., San Francisco. \$1200

REPAIRS

(424) NO. 1540-1542 FELL ST. Repair fire damage to flats. Owner—F. Messenger, Premises. Architect—Not Given. Contractor—W. J. Mooney, 68 Belcher St., San Francisco. \$2900

ALTERATIONS

(425) FIFTH AND MARKET STS. (Lincoln Bldg.) Alter mercantile building. Owner—Lincoln Realty Co., 1014 Mills Bldg., San Francisco. Architect—E. M. Sharpe, 525 Market St., San Francisco. Engineer—A. P. Fisher, 111 Sutter St., San Francisco. \$50,000

APARTMENTS

(426) S GREENWICH 100 W Pierce. Two-story and basement frame (3) apartments. Owner—G. Gragnani, 2121 Greenwich St., San Francisco. Architect—Not Given. Contractor—V. Pera, 3639 Webster St., San Francisco.

ALTERATIONS

(427) NO. 2937 MISSION ST. Alter store and dwelling. Owner—G. Bocel & Sons, Inc., Colma. Architect—Not Given. \$5500

ALTERATIONS

(428) NO. 62 TOWNSEND STREET. Alter warehouse. Owner—Pacifice Oil Mills, Ltd., Prem. Architect—Not Given. \$1200

ALTERATIONS

(429) NO. 1250 JONES ST. Enclose porch of apartments. Owner—V. Klinker, Premises. Architect—Not Given. Contractor—Michel & Pfeffer, 1415 Harrison St. \$1000

DWELLING

(430) W 34th AVE. 54 S Kirkham; one-story and basement frame dwelling. Owner—Whitney Inv. Co., Ltd., 36th Ave. and Kirkham St. Architect—Not Given. \$3950

DWELLING

(431) W 34th AVE. 218 N Lawton; one-story and basement frame dwelling. Owner—Whitney Inv. Co., Ltd., 36th Ave. and Kirkham St. Architect—Not Given. \$3950

FLATS

(432) S COLUMBUS AVE. 55 W Mason St. Two-story and basement frame (2) flats. Owner—R. Panelli, 552 Union St., San Francisco. Architect—Irvine & Ebbets, 2048 Market St., S. F. \$6000

STATION

(433) SE GEARY AND MASONIC. Service station. Owner—Union Oil Co., Mills Tower, San Francisco. Architect—Not Given. Contractor—Union Oil Co., Mills Tower. \$4000

REPAIRS

(434) TOWNSEND AND JAPAN. Reroof warehouse. Owner—Mutual Life Insurance Co. Architect—Nont Given. Contractor—Empire Roofing Co. \$1000

ADDITION

(435) NO. 1965 MARKET ST. Addition to funeral parlors. Owner—Gantner, Felder, Kenny, 1965 Market St., San Francisco. Architect—Not Given. \$3750

BUILDING

(436) CENTER BLOCK BOUNDED by Fifth and Sixth Aves. and Anza St. Two-story Class C building. Owner—French Hospital, Sixth Ave. and Geary St., San Francisco. Architect—Fabre & Hildebrand, 110 Sutter St., San Francisco. \$6500

REPAIRS

(637) NO. 920 LEAVENWORTH ST. Repair fire damage to apartments. Owner—Mr. Silverstein, Premises. Architect—Not Given. Contractor—L. Salomon, 1734 Broderick St., San Francisco. \$1500

DWELLING

(638) E TWENTY-SECOND AVE 360 N Ocean Ave. One-story and basement frame dwelling. Owner—Jesse Horn, 4078 Mission St., San Francisco. Architect—Not Given. \$4000

BUILDING

(639) JERROLD AVE. AND UPTON St. One-story concrete and frame building. Owner—George Windeler Co., Ltd., Eighth and Hooper Sts., S. F. Architect—Resing & McGuinness, 488 Pine St., San Francisco. Contractor—Not Given. \$11,000

DWELLING

(640) N PRECITA AVE 75 E Folsom Street. Two-story and basement frame dwelling. Owner—Mrs. C. B. Ruegg, 317 Precita Ave., San Francisco. Architect—Not Given. Contractor—The Ruegg Co., 369 Pine St., San Francisco. \$4000

ALTERATIONS

(641) NO. 56 DIVISADERO STREET Alter flats. Owner—F. Frierly, Premises. Architect—Not Given. Contractor—G. Peterson & Sons. \$1000

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
236	Smith	Owner	3500
237	Roller	Atkinson	3500
238	Midvalley	Allen	4500
239	Perry	Windsor	5000
240	Key	Barrett	21500
241	Jacklich	Farman	3000
242	Weber	Owner	8590
243	Edlefsen	Larson	2500
244	Musante	Cisero	4800
245	Giretto	Owner	5000
246	Edgar	Windsor	5000
247	Fireman	Lindgren	4000

DWELLING

(236) NO. 3981 OAKMORE ROAD, OAKLAND. One-story 5-room dwelling. Owner—E. M. Smith, 2911 Myrtle St. San Francisco. Architect—Not Given. \$3500

STORE

(237) NO. 3300 FOOTHILL BLVD., OAKLAND. One-story store. Owner—E. Roller, Sacramento. Architect—Not Given. Contractor—C. E. Atkinson, 3125 61st Ave., Oakland. \$3500

DWELLING

(238) NE COR. YOUNG and Atlas Ave., OAKLAND; two-story six-room dwelling. Owner—Midvalley Corporation. Architect—E. M. Sharpe, Underwood Bldg., San Francisco. Contractor—Allen & Allen, 1233 106th Ave., Oakland. \$4500

DWELLING

(239) 5829 MENDOCINO AVE., OAKLAND; two-story 5-room dwelling. Owner—A. J. Perry, 53rd Street and Shattuck Ave., Oakland. Architect—Not Given. Contractor—Geo. Windsor, 928 Kingston Ave., Oakland. \$5000

REPAIRS

(240) KEY ROUTE Mole, OAKLAND; fire repairs to wharf. Owner—Key System Co. Architect—Not Given. Contractor—Barrett & Hilp, 918 Harrison St., San Francisco. \$21,500

SERVICE STATIONS

(241) SW COR. SCHOOL ST. AND Coolidge Ave., OAKLAND; one-story brick service station and 1-story super service station. Owner—F. Jacklich, 110 Ray Building, Oakland. Architect—Not Given. Contractor—J. H. Farman, 110 Ray Bldg., Oakland. \$3000

STORE & RESIDENCE

(242) 1461 SOLANO AVE., ALBANY; store and residence. Owner—Frank M. Weber, 4867 Mission St., San Francisco. Architect—Not Given. \$8500

RESIDENCE

(243) 910 CURTIS ST., ALBANY; 5-room residence. Owner—Geo. C. Edlefsen, 832 Elm St., El Cerrito. Architect—Not Given. Contractor—G. L. Larson, 800 Marinmar, Berkeley. \$2500

DWELLING

(244) NO. 579 FIFTY-SEVENTH ST. OAKLAND. One-story six-room dwelling.

Owner—Lazzaro Musante, 1430 17th St., Oakland.
 Architect—Not Given.
 Contractor—John Cisero, 474 42nd St., Oakland. \$4800

DWELLING
 (245) NO. 575 FIFTY-SEVENTH ST. OAKLAND. One-story seven-room dwelling.
 Owner — Teresa Giretto, 1374 17th St., Oakland.
 Architect—Not Given. \$5000

DWELLING
 (246) W EUCLID AVE 120 N Acaela Avenue, BERKELEY. Two-story 5-room frame dwelling and garage
 Owner—E. A. Edgar, 1517 Bancroft Ave., Berkeley.
 Architect—W. W. Dixon, Oakland.
 Contractor—Geo. Windsor, 928 Kingstontown Ave., Piedmont. \$5000

ALTERATIONS
 (247) N SEVENTH ST., bet. Market and Myrtle Streets., OAKLAND. Alterations.
 Owner—Fireman Fund Insurance Co., San Francisco.
 Architect—W. E. Huson, 1723 Webster St., Oakland.
 Contractor—Lindgren & Swiherton, 1723 Webster St., Oakland \$4000

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
88	Mennucci	Galli	7150
89	Biglieri	Fracchia	25900
90	Aguilar	McFarland	1295
91	Wilson	Monson	2100

BUILDING
 (88) E GOUGH ST. 115 S Lombard 30x100; two-story and basement frame building.
 Owner—E. and Elisa Mennucci, care contractor.
 Architect—F. Canali.
 Contractor—G. Galli, 1900 Hyde St.
 Filed June 24, '33. Dated June 22, '33
 When roof is on.....\$1787.50
 Brown plastered 1787.50
 Completed 1787.50
 Usual 35 days..... 1787.50
 TOTAL COST, \$7150.00
 Bond, \$3575. Sureties, E. Franceschi and G. Galli. Limit, 100 days. Plans and Spec. filed.

APARTMENTS
 (89) NO. 160 PARKER AVE. All work for three-story and basement frame building (12 apts.)
 Owner—J. and Maria Biglieri, 166 Parker Ave., San Francisco.
 Architect—Irvine & Ebbets and Supervision by Italo Zanolini, Architect, 2048 Market St., S. F.
 Contractor—Fracchia & Truffelli, 2450 Chestnut St., San Francisco.
 Filed June 26, '33. Dated June 26, '33.
 2nd floor joists in.....\$3237.50
 Roof on 3237.50
 Brown plaster coat on..... 6475.00
 When completed 6475.00
 Usual 35 days..... 6475.00
 TOTAL COST, \$25,900.00
 Bnd. \$12,950. Surety, Fidelity & Deposit Co. of Maryland. Limit, 120 days. Forfeit, none. Plans and specifications filed.

ADDITION
 (90) NO. 1132 UNION ST. All work for second story addition to frame residence.
 Owner—M. C. Aguilar, Premises.
 Architect—Not Given.
 Contractor—James H. McFarland, 710 47th Ave., San Francisco.
 Filed June 26, '33. Dated June 7, '33.
 Roof on\$325
 1st coat plaster on 325
 When completed 325
 Usual 35 days..... 320
 TOTAL COST, \$1295

Bond, \$1295. Surety, Chas. A. Wilson. Limit, 45 days. Forfeit, none. Plans and specifications filed.

BUILDING
 (91) NO. 1164 MARKET ST. Execution, concrete work, carpenter and mill work, reinforcing steel, ornamental iron, marble, galvanized iron and rough hardware for three-story and mezzanine Class C structure.
 Owner—A. W. Wilson, 7/8 Architect.
 Architect—C. A. Meusdorffer, 785 Market St., San Francisco.
 Contractor—Monson Bros., 475 Sixth St., San Francisco.
 Filed June 28, '33. Dated June 27, '33.
 Work ready for lathing.....\$850
 When completed 725
 Usual 35 days..... 525
 TOTAL COST, \$2100
 Bond, none. Limit, 40 days. Forfeit, none. Plans and specifications filed.

ALAMEDA COUNTY

30 Lencioni Stolte 7766

RESIDENCE
 (30) LOT ADJOINING 6032 OCEAN View Drive, Oakland. All work for two-story and basement frame residence and garage.
 Owner—Robt. and Eda Lecioni, 1333 8th St., Oakland.
 Architect—Wm Edw. Schirmer, Financial Center Bldg., Oakland.
 Contractor—F. C. Stolte Co., 3455 Laguna Ave., Oakland.
 Filed June 21, '33. Dated June 20, '33.
 Sheathing on\$1941.50
 Brown plaster on exterior and interior 1941.50
 When completed 1941.50
 Usual 35 days..... 1941.50
 TOTAL COST, \$7766.00
 Bond, \$7766. Surety, Fidelity & Deposit Co. Limit, 100 days. Forfeit, none. Plans and specifications filed.
 F. Lynn, 1037 Ashmount Ave.

SAN FRANCISCO UNDER \$1000

NEW panels in electric sign, \$200; 27 Kearny St.; owner, H. Wolff, Premises; contractor, QRS Neon Corp., Ltd., 690 Potrero Ave.
ALTER dwelling, \$600; 339 Naples St. owner, J. Hanley, 339 Naples St.; contractor, D. Velhiss, 1250 Turk
ALTER store, 200; 3470 10 Street; owner, W. R. Lambert, 1542 Dolores St.
ALTER store, \$750; 251 Geary St.; owner, H. W. Dawson, 251 Geary St.; contractor, Mullen Mfg. Co., 60 Rausch St.
SIGN, electric, \$125; 5332 Geary St.; owner, Cutler & Co., 5332 Geary; contractor, Novelty Elec. Sign Co.
ALTER dwelling, \$750; 2650 Scott St.; owner, G. Delatour, 2650 Scott St.; contractor, Taylor & Goericke, 220 Sharon Bldg.
BILLBOARD, \$6.25; Post & Fillmore SW wall; owner, Foster & Kleiser, 1675 Eddy St.
SIGN, electric, \$250; 1160 Divisadero; owner, Reliable Food Shop, 1160 Divisadero; contractor, Brumfield, 965 Folsom St.
CHIMNEY, one patent, \$20; 3662 26th St.; owner, Merce, 3662 26th St.; contractor, Epp Sheet Metal W'ks.
ADD to dwelling, \$400; 26 Brussels; owner, Mrs. C. Balkovitch, 26 Brussels; contractor, M. Bruek, 600 Bayshore Blvd.
SIGN, electric, \$175; 1101 Ocean Ave.; owner, A. Provesch, 1101 Ocean; contractor, Novelty Elec. Sign Co.
ALTER store, \$400; NE Van Ness and Washington; owner, Longuinetto; contractor, J. Del Tavera, 666 Mission St.
ADD to dwelling, \$75; 971 Kansas St.; owner, A. Richman, 971 Kansas
ALTER store, \$100; 600 McAllister St. owner, Mac & Frank Buffet, 600 McAllister St.

ALAMEDA COUNTY UNDER \$1000

FRUIT stand, one-story, \$200; 8012 Foothill Blvd., Oakland; owner, A. S. Mattos, 8016 Foothill Blvd.
ALTERATIONS, \$900; 1205-09 Washington St., Oakland; owner, Lerner Shops of Calif., 354 4th Ave., New York City.
SIGN, electric, \$650; 1212 Franklin St.; owner, Red Lion Tavern Coffee Shop; contractor, Imp Elec. Sign Co., 2228 Myrtle St. Oakland; owner, Durant Pharmacy; contractor, Imp Elec. Sign Co., 2228 Myrtle St.
ALTERATIONS, \$500; 2323 Birdsall Ave., Oakland; owner, A. E. Waldman, 4001 Nevil St.
ALTERATIONS, \$200; 2229 Broadway, Oakland; owner, Mary E. Logan, 2231 Broadway.
ADDITION, \$250; 1344 64th Ave., Oakland; owner, V. M. Santini, 1344 64th Ave.
SIGN, electric, \$300; 2028 Broadway, Oakland; owner, The Curtain Store; contractor, Imp Elec. Sign Co., 2228 Myrtle St.
ALTERATIONS, \$500; 2817 Birdsall Ave., Oakland; owner, A. E. Waldman, 4001 Nevil St.
ALTERATIONS, \$125; 2364 E-15th St. Oakland; owner, W. D. Hall; contractor, Independent Iron Works, 821 Pine St.
ALTERATIONS, \$753; 2262 Telegraph Ave., Berkeley; owner, A. W. Gorrill, 1730 Franklin St., Oakland; contractor, Fred J. Westlund, 625 40th St., Oakland.
ALTERATIONS, \$65; 2218 Russell St., Berkeley; owner, Ida M. Stevenson, 2616 Ashby Ave.; contractor, C. A. Watts, 2616 Ashby Ave.
ALTERATIONS, \$90; 2017 8th St., Berkeley; owner, Syopieray, Prem. contractor, Guy Tyler, 1502 Cedar St., Berkeley.
SERVICE station, one-story brick, tile roof, \$600; 1127 Lincoln Ave., Alameda; owner, H. Michels, 1755 Hopkins St., Oakland; contractor, John Pestano, 1061 71st Avenue, Oakland.
ALTERATIONS, \$140; 2925 Ashby St. Berkeley; owner, S. E. Rankin, 2925 Ashby St., Berkeley; contractor, C. W. Slack, 1818 Derby St., Berkeley.
ADDITION, \$480; 4012 Edgemoor Pl., Oakland; owner and builder, H. M. Wilson, 4012 Edgemoor Pl., Oakland.
COMFORT Station, 1-story, \$125; 6040 San Pablo Ave., Oakland; owner and builder, R. Ghai, 10131 East 14th St., Oakland.
ADDITION, \$500; 71 Ross Circle, Oakland; owner, H. J. Templeton, 71 Ross Circle; contractor, C. M. Greenlaw, 71 Ross Circle.
SIGN, electric, \$60; 2297 E-14th St., Oakland; owner, Dibert Drug Co.; contractor, Getz Electric Sign Co., 3140 E-10th St.
SIGN, electric, \$120; 10625 E-14th St., Oakland; owner, B. Gonzales; contractor, Getz Elec. Sign Co., 3140 E-10th St.
ADDITION, \$150; 1090 61st St., Oakland; owner, D. J. Callaghan, 1090 61st St.
GARAGE, \$60; 2706 Octavia St., Oakland; owner, D. G. Johnston, 2706 Octavia St.
ALTERATIONS, \$200; 2718 Webster St., Berkeley; owner and contractor, D. F. Stockfeth, 2718 Webster St., Berkeley.
ALTERATIONS, \$350; 1317 Josephine St., Berkeley; owner and contractor, T. J. Murphy, 1318 Milvia St., Berkeley.
ALTER roof, \$149; 2738 Forest Ave., Berkeley; owner, C. H. Puckett, 2738 Forest Ave., Berkeley; contractor, Star Roofing Co., 1737 E 12th St., Oakland.

BUILDING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

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| 1.—Apartments | 11.—Ice and Cold Storage Plants |
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| 4.—Factories and Warehouses | 14.—Residences |
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| 6.—Garages and Service Stations | 16.—Parks, Stores and Offices |
| 7.—Federal Buildings | 17.—Theatres |
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| 10.—Hotels | 20.—Misc. Supplies & Materials |

1—APARTMENTS

Sub-Contracts Awarded.
REPAIR APTS. Cost, \$15,000
SAN FRANCISCO. No. 1185 Pine St. Repair fire damage to apartments.
 Owner—Fred Solari.
 Architect—Not Given.
 Contractor—J. W. Coburn, 2048 Market St., San Francisco.
Plastering—Herman Boshch, 440 Fulton St., San Francisco.
Plumbing & Heating—Rodoni-Becker, 455 Tenth St., San Francisco.
Elevator—Otis Elevator Co., 1 Beach St., San Francisco.
Painting—George Selleneit, 460 DuBoce Ave., San Francisco.
Electric—Golden Gate Electric Co., 1526 California St., San Francisco.
Glass—Habenicht & Howlett Glass Co., 529 Clay St., San Francisco.

Contract Awarded.
APARTMENTS Cost, \$5000
PETALUMA, Sonoma Co., Cal. Liberty St. and Western Ave. Two-story frame and stucco apts. (3 apts.)
 Owner—John C. Mount, Petaluma.
 Architect—Not Given.
 Contractor—A. Marion Seeberg, Petaluma.

Contract Re-Awarded.
APARTMENTS Cost, \$25,900
SAN FRANCISCO. E Parker Ave. 15 N Geary Street.
 Three-story and basement frame and stucco apartments (12 4-rm. apts.) steel sash, separate showers, glass doors, Erskine radiators, individual electric refrigerators, canvas walls, etc.
 Owner—G. Biglieri, % architect.
 Architect—Irvine and Ebbetts (R. R. Irvine, architect) 2048 Market St.
 Sup. Architect—Italo Zanolini, 604 Montgomery Street.
 Contractor—Fracchia & Truffelli, 2450 Chestnut Street.
 Contract was previously awarded to De Luca & Son, Inc., 320 Market St.

Contract Awarded.
REMODEL. Cost, \$30,000
SAN FRANCISCO. No. 1164 Market Street.
 Remodel four story concrete loft building for apartments (add one story, 20 2-room apts., 4 stores).
 Owner—A. W. Wilson.
 Architect—C. A. Meussdorffer, Humboldt Bank Bldg., San Francisco.
Carpentry—Monson Bros., 475 6th St., San Francisco, at \$2100.
 Work involves excavation, concrete work, carpentry and mill work, reinforcing steel, ornamental iron mar-

ble, galvanized iron and rough hardware.

3—CHURCHES

Contracts Awarded.
BUILDING Cost, \$15,000
BERKELEY, Alameda Co., Cal. Durant and Bowditch Sts.
 Two-story and basement frame and stucco building (shingle and composition roof, gas hot air heating system, etc.); will contain reading room, apartment, committee room, auditorium to seat approximately 200.
 Owner—Christian Science Society, U. S., 2215 Union St., Berkeley.
 Architect—H. H. Gutterson, 526 Powell St., San Francisco.
 Contractor—K. E. Parker Co., 135 So. Park, San Francisco.
Wrecking—Symon Bros. Wrecking Co. 22nd Ave. and E 14th St., Oakland.
Lumber—Smith Lbr. Co., 19th Ave., and Estuary, Oakland.

Contract Awarded.
ADDITION Cost, \$15,000
MORGAN HILL, Santa Clara Co., Calif.
 Addition to winery (two frame bldgs., cement foundations).
 Owner—Madrone Winery (Arthur Carmichael, manager) Morgan Hill.
 Plans by Owners.
 Contractor—C. A. Smith, Morgan Hill

Contracts Awarded.
ADDITION Cost, \$5000
SAN FRANCISCO. E Tennessee bet. 20th and 22nd Streets.
 One-story steel and concrete addition to shop (65x100 feet) Summerbell wood trusses, steel sash, concrete floors, tar and gravel roof, etc.
 Owner—Graham Fuel & Drayage Co., (Mr. Horner) 849 22nd Street.
 Engineers—Ellison & Russell, Pacific Building.
Fabricating Steel—Western Iron W'ks Reinforcing Steel—W. S. Wetenhall, 17th and Wisconsin Sts.
Roofing—J. W. Bender Roofing Co., 18th and Bryant Sts.
Lumber—Christensen Lbr., Co., Fifth and Hooper Sts.
Cement and Concrete—San Francisco Gravel Co., 552 Berry St.
Plyboard—Maris Plyboard Co., 735 3rd Street.
 Wrecking is now under way by the owners.

Contract Awarded.
HEATING PLANT Cont. Price, \$6100
SAN FRANCISCO. Masonic Avenue near Page Street.
 Steam heating plant for church.
 Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St.
 Architect—Arnold Constable, 580 Market Street.
 Mechanical Engineer—George Atkins, Hobart Bldg.
 Contractor—W. D. Cashel, 739 Clementina Street.
 Steam heating plant to be installed in the St. Agnes Church (Rev. J. A. Butler, rector).

Additional Contracts Awarded.
REBUILD Cost, \$8500
SAN FRANCISCO. 2475 California St.
 Rebuild structure recently destroyed by fire for frame gymnasium.
 Owner—St. Paul's Episcopal Church (Rev. Leslie C. Kelly, pastor).
 Architect—Arnold Constable, 580 Market Street.
Roofing—J. W. Bender Roofing & Paving Co., 18th and Bryant Sts.

Wall Paneling—Western Asbestos Magnesia Co., 675 Townsend St.
Mill Work—J. A. Hart Mill & Lbr. Co. Jerrold and Napoleon Sts.

As previously reported carpentry awarded to Anton Lee & Co.; plumbing to Dowd & Welch, 3553 16th St.; electric to Electric Lite House, 1428 Haight St.; iron to Mortenson Const. Co., 608 Indiana St.

Contract Awarded.
DIST. PLANT Cost, \$35,000
RICHMOND, Contra Costa Co., Cal. Gasoline distributing terminal.
 Owner—Krieger Oil Co., Lodi.
 Plans by Pacific Pipe Co.
 Contractor—Western Pipe & Steel Co. 444 Market St., San Francisco.

4—FACTORIES & WAREHOUSES

Contracts Awarded.
ALTERATIONS Cost, \$1500
OAKLAND, Alameda Co., Cal. Seventh and Kirkham Streets.
 Alterations to brewery (steel columns, new flooring, etc.)
 Owner—Golden West Brewing Co., Premises (Mt. White, Mgr.)
 Architect—A. Williams, Humboldt Bank Bldg., San Francisco.
 Engineer—W. Adrian, 417 Market St., San Francisco.
Steel—Western Iron Works, 141 Beale St., San Francisco.
Concrete—Nat Lena, 1174 19th St., Oakland.

Contract Awarded.
BREWERY Cost, \$200,000
ARCADIA, Los Angeles Co., Cal. Santa Anita Avenue. 10 Acre Site. Group of reinforced concrete buildings for brewery (brew house, cellar build-and bottling house) reinforced concrete construction; (annual capacity of 100,000 barrels of beer).
 Owner—Schmidt Brewing Co., Hollingsworth Bldg., Los Angeles.
 Plans by Gay Engineering Corp., 2650 Santa Fe Ave., Los Angeles.
 Contractor—Lindgren & Swinerton, Inc., 523 W. Sixth St., L. A.

Contract Awarded.
SHEDS Cost, \$—
LAKEPORT, Lake Co., Calif.
 Frame and corrugated iron drying shed (60x108).
 Owner—Glenn Keithley.
 Architect—Not Given.
 Contractor—Claude Beach, Lakeport.

Contract Awarded.
DAIRY Cost, \$10,000
SALINAS, Monterey Co., Cal. North Main St., bet. Carneros and Menke Streets.
 One-story dairy.
 Owner—Salinas Valley and Blanco Dairies.
 Architect—Not Given.
 Contractor—W. L. Hill, 26 S. 12th St., San Jose.

Preparing Working Drawings.
FOUNDRY Cost, \$50,000
SOUTH SAN FRANCISCO, San Mateo Co., Cal. Tanforan Avenue.
 One-story mill type foundry (steel and corrugated iron roof, concrete foundations, etc.)
 Owner—American Brake Shoe & Foundry Co., 74 New Montgomery St., San Francisco.
 Engineer—K. Theill, 530 Market St., San Francisco.
 Bids will be asked in about six weeks.

Contract Awarded.
SHOP Cost, \$—
BOULDER CITY, Nevada.
 Concrete block tire and battery shop (20x44) composition roof, concrete floors and pits, flood lights
 Owner—Simon's Service Station.
 Architect—Not Given.
 Contractor—L. T. Meisner, Boulder City.

Planned.
PLANT Cost, \$—
GUSTINE, Merced Co., Cal. Fourth Street.
 Steel and iron by-products plant.
 Owner—Western Condensing Company, Eureka (Ellis Hart, Vice President).
 Architect—Not Given.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$5000
SAN FRANCISCO. Market Street near Fifth Street.
 Alterations to Lincoln Building.
 Owner—The Emporium, 835 Market St., San Francisco.
 Plans by Engineering Dept. of Owner
 Contractor—K. E. Parker, 135 South Park, San Francisco.
Painting—A. A. Zelinsky, 4420 California St., San Francisco.
Electric—Collonan Elec. & Mfg. Co., 3201 Mission St., San Francisco.
Windows—Forderer Cornice Works, 269 Potrero Ave., S. F.
Heating—Scott Co., 243 Minna St.

Preparing Preliminary Plans.
BREWERY Cost, \$275,000
OAKLAND, Alameda Co., Cal. Location not given.
 Reinforced concrete brewery (100,000 barrel capacity per year) 150 barrel kettles, etc.
 Owner—Samarkand Brewing Co., 893 Folsom St., San Francisco.
 Architect—O'Brien Bros. and W. D. Peugh, 333 Montgomery St., San Francisco.
 Directors of the company include J. P. Rettenmayer, Paul L. Schmidt, Frank M. Kenny, Lee M. Olds, Philip H. Hess, L. A. Enge and Walter K. Olds, all of San Francisco.

TAHOE CITY, Placer Co., Cal.—The Lorraine Lumber Mill near Brockway, was destroyed by fire June 24. Damage estimated at \$70,000. Roy Andrus, owner and operator of the mill.

Plans Being Figured — Bids Close June 29.
CREAMERY Cost, \$—
SAN FRANCISCO. Stockton St. and Card Alley.
 Two-story and basement reinforced concrete creamery.
 Owner—Sonoma Mission Creamery.
 Plans by Peter Canali, 65 Columbus Ave., San Francisco.

Planned.
SHED Cost, \$3000
SACRAMENTO, Sacramento Co., Cal. Fifth and Y Streets.
 One-story galvanized iron storage shed.
 Owner—City of Sacramento School District.
 Architect—Not Given.

Plans Being Figured.
CREAMERY Cost, \$—
SAN FRANCISCO. Stockton St. and Pard Alley.
 Two-story and basement reinforced concrete creamery.
 Owner—L. Giannone, San Francisco
 Plans by Peter Canali, 65 Columbus Ave., Burlingame.
 Lessee—Sonoma Mission Creamery.

Reinforcing Steel Contract Awarded.
FACTORY Cost, \$15,000
SAN FRANCISCO. Jerrold and Upton Streets.
 One-story concrete iron factory (concrete foundations) approximately 200 feet in length.
 Owner—George Windler Co., Ltd., 8th and Hooper Sts., San Francisco.
 Architect—Resing & McGuinness, 488 Pine St., San Francisco.
Reinforcing Steel—W. S. Wetenhall, 17th and Wisconsin Sts., S. F.
 Work will be done under the owner's supervision.

5—FLATS

Contract Awarded.
FLATS Cost, \$7000
SAN FRANCISCO. E Gough St. 115 S Lombard St.
 Two-story and basement frame and stucco flats (2 flats).
 Owner—E. Mennucci, % G. Galli.
 Architect—Not Given.
 Contractor—G. Galli, 1900 Hyde St.

Contract Awarded.
REPAIR FLATS Cost, \$2000
SAN FRANCISCO. 1540-42 Fell St.
 Repair fire damage to frame flats.
 Owner—F. Messenger, 1540 Fell St.
 Architect—Not Given.
 Contractor—W. J. Mooney, 68 Belcher Street.

Contract Awarded.
SERVICE STATION Cost, \$3000
OAKLAND. Alameda Co., Calif. SW School St. and Coolidge Ave.
 One-story brick service station and one-story brick super-service station.
 Owner—F. Jacklich, 110 Ray Building, Oakland.
 Architect—Not Given.
 Contractor—J. H. Farman, 110 Ray Bldg., Oakland.

Sub-Bids Being Taken.
FLATS & STORES Cost, \$20,000
SAN FRANCISCO. S Columbus Ave. 55 Mason Street.
 Two-story, basement and sub-basement frame and stucco flats (2 5-room flats and one store and sub-basement); flat composition roof, individual gas radiators, individual electric refrigeration, tiled baths, hardwood floors, etc.
 Owner and Builder—R. Panelli, 852 Union St., San Francisco.
 Architect—Irvine & Ebbets (R. R. Irvine, Architect), 2048 Market St., San Francisco.

6—GARAGES & SERVICE STATIONS

Wrecking Under Way.
SERVICE STATION Cost, \$—
SAN FRANCISCO. Masonic Ave. and Geary Street.
 One-story steel service station.
 Owner—Union Oil Co., Mills Bldg., San Francisco.
 Plans by Engineering Dept. of Owner.
Steel Building—Michael & Pfeffer Iron Works, Harrison and Tenth Sts.
Wrecking—Symon Bros. Wrecking Co., 1435 Market St.

Plans Being Figured—Bids Close July 10.
SERVICE STATION Cost, \$—
COLMA, San Mateo Co., Cal. Mission and School Streets.
 Steel and brick service station.
 Owner—Associated Oil Co., 79 New Montgomery St., San Francisco.
 Plans by Engineering Dept. of Owner.

SUNNYVALE, Santa Clara Co., Cal.
 Theo. Johanns, 2020 15th Street, San Francisco, at \$6970 submitted low bid June 28 to Bureau of Yards & Docks, Navy Department, Washington, D. C. for a gasoline filling station at the

Naval Air Station, Sunnyvale, under Spec. No. 7301. Work involves concrete and asphalt macadam pavements, concrete construction, tile and built-up roofing, piping and accessories for gasoline supplies.
 Binwiddie Const. Co., San Francisco second low at \$7,430; Neves & Hart, Santa Clara, third low at \$8,000
 Complete bids will be published shortly.

7—FEDERAL BUILDING

BOULDER, Colo.—Treasury Department has cancelled call for bids for the elevator holistway and elevator for Boulder, Colorado, Post Office. (1687) 1st report June 1, 1933 7

WASHINGTON, D. C.—The following are additional contractors who have procured plans for the purpose of submitting bids to the Treasury Department on July 17 for the construction of a two-story quarantine building at San Pedro. Cost \$63,000:
 Associated Const., Inc., 1226 South La Brea Ave., Los Angeles.
 S. W. Rindfleisch, Milwaukee.
 Anton Johnson Co., Inc., 921 Monterey Road, South Pasadena.
 (1804) 1st report June 13; 3rd, June 20, 1933. 7

WASHINGTON, D. C.—The following are additional contractors who have procured plans for the purpose of submitting bids to the Treasury Department on July 14 for the construction of the U. S. post office at Marshfield, Oregon:
 Great Western Const. Co., 920 North Michigan Ave., Chicago.
 Schuler and McDonald, Inc., 1723 Webster St., Oakland.
 S. W. Rindfleisch, Milwaukee.
 Hadeen Const. Co., American Bank Bldg., Seattle.
 Wm. MacDonald Const. Co., Saint Louis.

SAN FRANCISCO.—Pacific States Const. Co., Call Bldg., at \$15,813 submitted low bid June 22 to Constructing Quartermaster, Fort Mason, to grade, construct roads, re-lay water line, construct concrete wall, etc., at San Francisco National Cemetery, Presidio of San Francisco.
 Bidders and unit prices will be given shortly. 7

SEGUIN, Texas.—Until 3 P. M., July 21, bids will be received by the Treasury Department, Office of the Supervising Architect, Washington, D. C., for the construction of the 11. S. postoffice at Seguin, Texas. Plans may be obtained from the architect in Washington upon deposit of \$15, checks to be made payable to Treasurer of the United States.

Sketches Completed.
POST OFFICE Cost, \$105,000
LODI, San Joaquin Co., Cal.
 One-story and basement Class A brick and steel post office.
 Owner—United States Government.
 Architect—S. Helman, 605 Market St., San Francisco.

LOGAN, Utah.—Until 3 P. M., July 24, bids will be received by Treasury Department, Office of the Supervising Architect, Washington, D. C., for the extension and remodeling of the U. S. post office at Logan. The plans may be obtained from the architect in Washington upon deposit of \$15, checks to be made payable to the Treasury of the United States. Appropriation for the work is \$45,000.

SUNNYVALE, Santa Clara Co., Cal.
 —D. N. & E. Walter Co., 562 Mission St., San Francisco, at \$2284.20 awarded contract by Twelfth Naval District for window shades, Venetian

blinds, drape bars and curtain rods at the Naval Air Station, Sunnyvale. Specification No. 7327. Work includes provision and installation of window shades and guides, wood slatted Venetian blinds, drapery bars and curtain rods for windows, doors, transoms and openings.

SUNNYVALE, Santa Clara Co., Cal.—Western Asbestos Magnesia Co., 675 Townsend St., San Francisco, at \$1755 awarded contract by Twelfth Naval District for acoustical treatment of supply office in storehouse building No. 12, at the Naval Air Station, Sunnyvale. Specification No. 7269. Work includes wood furring, acoustic tile, painting, wood building, and electric work for ceiling.

SUNNYVALE, Santa Clara Co., Cal.—Concrete Engineering Company, 1230 Indiana St., San Francisco, at \$4593 awarded contract by Public Works Officer, 12th Naval District, for screens window shades, and curtain and drapery rods, the work to include the provisions and installation of metal screens for windows and transoms, wood frame screens for exterior doors and transoms, Wood slatted blinds for windows and guides, window shades and guides and curtain and drapery rods for windows and doors at the Naval Air Station, Sunnyvale. Specification No. 7198.

MILLERTON, Okla.—Until July 13, bids will be received by the Purchasing Officer, Department of the Interior, Washington, D. C., for the construction of a central heating plant, including all equipment, and an underground distribution system with final connections to all buildings at the Wheelock Academy, Millerton, Okla. A deposit of \$25 is required for plans.

WASHINGTON, D. C.—Following are additional contractors who have procured plans for the purpose of submitting bids to the Treasury Department on July 28 for the construction of the Post Office Building to be erected in North Hollwood:

Wm. MacDonald Construction Co., St. Louis, Mo.

H. Mayson, 3315 S. Hooper St., Los Angeles.

Sarver & Zoss, Inc., 1015 W. 4th St., Los Angeles.

Herbert M. Baruch, Corp., 625 S. Olive St., Los Angeles.

Therlault Contracting Co., 534 E. Johnson St., Philadelphia, Pa.

J. W. Jean, 2397 Colorado Street, Pasadena.

J. R. Harris, 6718 Hollywood Blvd., Hollywood, Architect.

Planned.

POST OFFICE Cost, \$94,000
WOODLAND, Yolo Co., Calif.

U. S. post office building.
Owner—United States Government.
Architect—Not Given.

Funds will be appropriated shortly.

ELY, Nevada—Additional contractors who have procured plans for the purpose of submitting bids to the Treasury Department on July 11, for the construction of the United States Post Office at Ely, Nevada, are as follows: Wm. MacDonald Constr. Co., St. Louis; Fred R. Comb Co., 2113 Chicago Ave., Minneapolis; Kreimberg & Sons, 204 Montclair Ave., Ludlow, Ky.; S. W. Rindfleisch, Milwaukee; Allied Constr. Co., P. O. Box 1493, Fort Worth, Tex.; Associated Constructors, 1226 S. La Brae Ave., Los Angeles; Geo. W. Whitmeyer & Sons Co., 2759 Grant Ave., Ogden, Utah; Carl C. Maesen, Elko, Nev.; MacDonald Engineering Co., 1 La Salle St., Chicago; K. E. Parker, 135

South Park, San Francisco; Libby & Libby Co., 244 2nd Ave. S., Minn.; Schuler & McDonalds 1723 Webster St., Oakland.

BOULDER, Colo.—Until 2 P. M., July 13, bids will be received by the Treasury Department, Office of the Supervising Architect, Washington, D. C., for painting plaster in the United States Post Office at Boulder, Colo. Specifications may be obtained from the custodian of the building or from the architect in Washington.

PORT TOWNSEND, Wash.—Tacoma Dredging Co., 1113 1/2-A, Tacoma, at \$14,700, submitted low bid June 27 to Treasury Dept., Washington, D. C., to construct boat basin and grading in connection with quarantine station at Port Townsend.

Puget Sound Bridge & Dredging Co. Seattle, second low at \$16,500.

The complete bids will be published shortly.

WASHINGTON, D. C.—Johnson Metal Products Co., 2539 Pennsylvania Ave., N. W., Washington, D. C., at \$394 awarded contract by the Treasury Dept. for insect screens in the post office at Sterling, Colo.

CALDWELL, Ida.—Cincinnati Fly Screen Co., Gest and Evans Streets, Cincinnati, Ohio, at \$489 awarded the contract by Treasury Department for post office screens at the Caldwell, Idaho, post office building.

WASHINGTON, D. C.—Balzer Nursery, 1416 E 3rd St., Spokane, Wash., at \$643 awarded contract for seeding and planting grounds of the post office at Oroville, Wash.

SANTA BARBARA, Cal.—Treasury Department, Office of the Supervising Architect, Washington, D. C., will call for bids during the summer for sites for the new U. S. post office to be erected in Santa Barbara. Amount allocated for this project in 1931 was \$215,000.

CALEXICO, Imperial Co., Calif.—Treasury Department, Office of the Supervising Architect, Washington, D. C., will call for bids during the summer for sites for the U. S. post office to be erected in Calexico. The amount allocated for this project in 1931 was \$95,000.

Preparing Plans.

POST OFFICE Cost, \$80,000
YUBA CITY, Sutter Co., Cal.

One-story post office building.
Owner—United States Government.
Plans by Supervising Architect of the Treasury Dept., Washington, D. C.

WASHINGTON, D. C.—Until July 18, 2 P. M., bids will be received by the Treasury Department, Washington, D. C., for the construction complete of buildings, wharf, grading, etc., at the U. S. quarantine station, Sabine Pass, Texas. Plans and specifications available from above office upon deposit of \$25.00.

SAN FRANCISCO—Thos. M. Jones 643 39th St., San Francisco, at \$643 awarded contract by Treasury Department for lavatory enclosures and partitions in the Marine Hospital, San Francisco.

8—CLUB BUILDINGS

Contract Awarded.

LOB CABIN Cost, \$2000
NEVADA CITY, Nevada Co., Cal.

One-story log cabin.
Owner—Piedmont Camp Fire Girls, (Leslie Oliver, in charge).

Architect—Chas. McCall, 837 Santa Ray St., Oakland.
Contractor—W. C. Haskell, 255 Ridge-way Ave., Oakland.

Property Purchased.

MEMORIAL HALL Cost, \$25,000
SAN BRUNO, San Mateo Co., Cal.
San Mateo and Huntington Aves.
(84x134 feet).

American Legion Memorial Hall.
Owner—San Bruno Post, American Legion.

Architect—Not Selected.

Committee in charge of the proposed building consists of Otto Lander, A. Hyde Green and John Hardiman.

Contract Awarded.

LODGE BLDG. Cont. Price, \$37,421
FRESNO, Fresno Co., Calif. Tuolumne St. and Van Ness Ave.

Two-story stucco and tile lodge building (auditorium to seat 800, 2 secondary lodge rooms, banquet hall to seat 800, clubrooms, ballrooms, lighting and ventilating system, etc.; replace lodge building destroyed by fire).

Owner—Woodmen of the World (Jas. Nielsen, Clerk), Fresno.

Architect—E. J. Kump, Rowell Bldg., Fresno.

Contractor—W. J. Ochs, American Trust Company Bldg., San Jose.

Prospective Bidders.

LODGE BLDG. Cost, \$—
SAN FRANCISCO, 14th and Landers Sts. (125x85 ft.)

Two-story and mezzanine floor and basement Class B reinforced concrete lodge building, (auditorium 55x100 ft.) handball and basketball courts, showers, banquet rooms, seven lodge rooms, two card rooms and two committee rooms.

Owner—United Irish Societies.

Architect—John F. Foley, 770 5th Ave.

Following will submit bids, which will be opened July 14:

Cahill Bros., 206 Sansome St.

James Hurley.

J. D. Hannah, 251 Kearny St.

Reilly and Grace, Claus Spreckles Building.

James Finnigan.

York Hansell, 1946 Balboa St.

Wm. Smith, 4158 26th St.

Frank J. Reilly, 6350 Fulton St.

Jas. L. McLaughlin, Kearny St.

Einar C. Peterson, 1290 Hayes St.

Richard Forbes, Monadnock Bldg.

G. P. W. Jensen, 320 Market St.

Moore & Roberts, 693 Mission St.

T. Broderick, 236 Park Road, Burlingame.

Robert McCarthy, 1363 14th Ave.

9—HOSPITALS

Construction Started.

ADDITION Cost, \$5000
CALISTOGA, Napa Co., Cal.

Two-story frame and stucco addition to sanatorium (60x36 ft.) 48 beds.
Owner—Silverado Sanatorium, Mount St. Helena, Calistoga (A. E. Hawkins).

Plans by Owner.

Contractor—Harry Thorsen, 1519 Kearny St., St. Helena.

AGNEW, Santa Clara Co., Cal.—San Francisco Wire & Iron Works, 53 Colton Street, San Francisco, at \$3820 awarded contract by State Purchasing Department, Sacramento, for window guards at the Agnew State Hospital.

STOCKTON, Sa Joaquin Co., Cal.—All bids were returned unopened by the San Joaquin County Supervisors in connection with the furnishing and installing of a water tube boiler at the San Joaquin General Hospital

near French Camp, due to an error in the specifications. New specifications will be made and bids re-advertised shortly.

RIVERSIDE COUNTY, Cal.—Riverside county supervisors are formulating plans for the expenditure of \$800,000 to be requested of the federal government for public works projects. Included in the program will be an item of \$300,000 for the construction of a new fireproof county hospital plant.

Low Bidder.
ADDITION Cost, \$6500
SAN FRANCISCO. Geary Street and Fifth Avenue.

One- and two-story steel frame and brick addition to hospital for solarium and X-ray Dept. (lead coated copper and tar and gravel roof, tiling, plastering, Brita glass, etc.)

Owner—French Hospital Geary Street and Fifth Avenue.

Architect—Fabre and Hildebrand, 110 Sutter Street.

Low Bidder—J. D. Hannah, 251 Kearny Street.

12—POWER PLANTS

Preparing Plans.
POWER PLANT Cost, \$—
CAMARILLO, Ventura Co., Calif.
Construction of new power plant.
Owner—State of California.
Architect—Geo. B. McDougall, state architect, Public Works Building, Sacramento.

It is expected to call for bids about July 5.

SIGNAL HILL, Los Angeles Co., Cal.—Wm. E. Hinshaw, mayor of Signal Hill, is negotiating for a Federal loan of \$250,000 to finance construction of a municipal electric light and power plant in Signal Hill.

LOS ANGELES, Cal.—In addition to those reported, following contractors and others have procured plans for furnishing transmission towers for the construction of the Boulder Canyon transmission line for which bids are to be opened by A. J. Holm, city purchasing agent, at 11 A. M., July 14 (previously noted):

American Concrete & Steel Pipe Co., South Gate.

Southern States Equip. Co., 106 W 3rd St., Los Angeles.

Graybar Electric Co., Inc., 301 East 8th St., Los Angeles.

**13—PUBLIC BUILDINGS
FIRE HOUSES & JAILS**

CITY HALL Cost, \$—
CARMEL, Monterey Co., Cal.
New City Hall.

Owner—City of Carmel.
Architect—Not Given.

It is planned to vote bonds to finance the construction.

Plans Completed.
ALTERATIONS Cost, \$100,000
PORTLAND, Oregon.

Reconstruction of interior of city hall.

Owner—City of Portland.
Architect—Doyle & Associates, Pacific Bldg., Portland.

Application for a loan in the amount of \$150,000 will be made to the Reconstruction Finance Corp.

GLENDALE, Los Angeles Co., Cal.—City of Glendale will apply for federal funds with which to finance the construction of a complete civic center in Glendale. The project would include a city hall, public library, health center building, hall of justice and a civic auditorium, the total cost to be approximately \$3,500,000.

YUBA COUNTY, Cal.—Yuba County Supervisors propose requesting Federal Aid in financing the reconstruction of the Yuba County Hospital estimated to cost \$60,000 and addition to the courthouse and hall of records, estimated to cost \$50,000.

SANTA PAULA, Ventura Co., Cal.—Santa Paula City Council proposes asking the federal government for funds with which to construct a new city hall and a fire house in Santa Paula.

COMPTON, Los Angeles Co., Cal.—Compton city council is negotiating for a Federal appropriation of \$100,000 to rebuild the city hall and the public library. 13

Planned.
PUBLIC BLDGS. Cost, \$—

OAKLAND, Alameda Co., Cal. Near Lake Merritt.

Twin buildings to replace courthouse and hall of records.

Owner—County of Alameda.
Architect—Chas. Strothoff, 2274 15th St., San Francisco.

Proposed work is in a very preliminary stage.

ORANGE, Cal.—The City of Orange proposes asking the federal government for an appropriation of \$77,360, a portion of which would be used for the construction of a new fire hall, a swimming pool and an addition to the public library. 13

Bids Opened.
FIRE HOUSE Cost, \$—
SACRAMENTO, Sacramento Co., Cal.

L Street near Alhambra Blvd.

One-story brick firehouse (57x92 ft.); tile and composition roof, concrete floors, etc.

Owner—City of Sacramento.

Architect—Charles Dean, California State Life Bldg., Sacramento.

Low Bidder—Azevedo & Sarmento, 920 O St., Sacramento.

Following bids received:
(1) deduct; (2) deduct.

Azevedo & Sarmento.....\$15,300
(1) 149
(2) 153

Harry Robertson.....\$15,310
(1) 120
(2) 165

Henry Finnigan.....\$15,337
(1) 172
(2) 153

Wm. C. Keating.....\$15,350
(1) 100
(2) 150

A. Fred Anderson.....\$15,549
(1) 140
(2) 155

C. J. Hopkinson.....\$15,579
(1) 130
(2) 161

Fred H. Betz.....\$15,636
(1) 106
(2) 155

George Kopp.....\$15,789
(1) 105
(2) 153

Chas. Unger.....\$16,494
(1) 105
(2) 155

Gene Kenyon.....\$16,543
(1) 170
(2) 153

Holderier Constr. Co.....\$17,280
(1) 115
(2) 170

All bidders of Sacramento
Bids held under advisement.

OCEANSIDE, San Diego Co., Cal.—E. E. Myers, Oceanside building inspector, has prepared tentative plans for a new city hall to cost approximately \$30,000. The plans are to be submitted to the county committee handling requests for loans on public works projects.

NATIONAL CITY, San Diego Co., Cal.—National City city council has ordered plans prepared for a new city hall, the plans to be submitted to the federal government along with a request for a loan to cover cost of the construction of the building.

LOS ANGELES, Cal.—Los Angeles City Council, Police and Fire Committees and the finance committee recommended that a new \$3,000,000 police administration building be erected in the civic center under the public works program. The northeast corner of Spring and Temple Sts. was suggested as a possible site for the building. The Los Angeles city construction department, C. O. Brittain, superintendent, is working on tentative plans for the structure. It has not been determined whether the project should be financed by borrowing from the Reconstruction Finance Corporation or applying for funds under the industrial recovery-public works act.

14—RESIDENCES

Plans Being Prepared.
RESIDENCE Cost, \$10,000
ROSS, Marin Co., Cal. Lagunitas Avenue.

Two-story and basement frame and stucco residence (9 rooms and 3 baths) shakes roof, probably gas heating system, tiled baths, colored fixtures, hardwood floors, etc.

Owner—Japue Van Meurs.
Architect—H. H. Winner, Woodsworth Ave., Ross.

Bids will be asked in about two weeks.

Sub-Bids Being Taken.
RESIDENCE Cost, \$4500
SAN ANSELMO, Marin Co., Calif.

One-story and basement frame residence (6 rooms) stone exterior, gas heating system, shingle roof, hardwood floors and trim, etc.

Owner—Joseph Buckley.
Plans by Hendy & Glynn, San Francisco.

Contractor—Moore and Roberts, 692 Mission St., San Francisco.

BOULDER CITY, Nev.—Jim Webb, Boulder City, has started work on the construction of two residences in Boulder City, one for Basil T. Kehoe and the other for R. S. Campbell officials of the Babcock and Wilcox Co. The residences will have stucco exteriors.

Sub-Bids Being Taken.
RESIDENCE Cost, \$6000
BERKELEY, Alameda Co., Cal.

Spruce St. N Alamo St.

Two-story and basement frame and stucco residence (6 rooms), tile roof, hot air heating system, hardwood floors, tiled baths, etc.

Owner and Builder—Milton S. Bonds, 914 The Alameda, Berkeley.

Plans by W. W. Dixon, 1844 Fifth Ave., Berkeley.

Plans Being Figured—Bids Close July 7, 4 P. M.
RESIDENCE Cost, \$5600
SAN FRANCISCO. Thirty-fifth Ave. near Taraval Street.

One-story and basement frame and stucco residence (5 rooms) shingle tile roof, gas heating system, hardwood floors and trim, colored fixtures, tiled baths, canvas walls, etc.

Owner—J. Healey.
Architect—Charles Strothoff, 2274 15th St., San Francisco.

To Be Done By Day's Work.
RESIDENCE Cost, \$6000
OAKLAND, Alameda Co., Cal. No. 575 57th Street.

One-story and basement frame and stucco residence (7 rooms).
Owner and Builder—Teresa Giretto, 1374 17th St., Oakland.
Architect—Not Given.

Contract Awarded.
RESIDENCE Cost, \$5000
OAKLAND, Alameda Co., Cal. No. 579 5th Street.

One-story and basement frame and stucco residence (6 rooms).
Owner—Lazzaro Musante, 1430 17th St., Oakland.
Architect—Not Given.
Contractor—John Cisero, 474 42nd St., Oakland.

Contract Awarded.
RESIDENCE Cost, \$6000
OAKLAND, Alameda Co., Calif.

Two-story and basement frame and stucco residence (six rooms) tile roof, gas heating system, hardwood floors, tiled baths, colored fixtures, etc.

Owner—Mr. Perry.
Plans by W. W. Dixon, 1844 5th Ave., Oakland.

Contractor—Geo. Windsor, 928 Kingston Ave., Piedmont.

Sub-Contracts Awarded.
ADDITIONS Cost, \$20,000
PALO ALTO, Santa Clara Co., Calif. Stanford Campus.

Alterations and additions to 3-story frame and stucco fraternity house (add new third story, alterations and additions to first and second floors, etc.)

Owner—Phi Delta Theta, 538 Lasuen St., Stanford University.

Architect—W. E. Huson, 1913 Green St., San Francisco.

Contractor—Lindgren and Swinerton, Inc., 225 Bush St., San Francisco.

Plumbing and Gas Equipment—H. P. Hansen, Palo Alto.

Heating—Walter Sterling, Redwood City.
As previously reported, electric contract awarded to Alta Electric Co., 467 O'Farrell St., San Francisco.

Additional Sub-Contracts Awarded.
RESIDENCE Cost, \$9000
VALLEJO, Solano Co., Cal. Fleming Tract.

Two-story and basement frame and stucco residence (8 rooms and 2 baths); tile roof, gas furnace, hardwood floors, tiled baths, etc.

Owner—J. J. Madigan.

Architect—Ed. Perry, Vallejo.

Contractor—David Paganini, 519 California St., San Francisco.

Painting—Vera & Castro, Vallejo.

Mill Work—National Mill & Lumber Co., 230 California St.

Other awards reported June 20, 1933.

Contract Awarded.
RESIDENCE Cost, \$10,000
ROSS, Marin Co., Calif. Southward Avenue.

Two-story frame and stucco residence (8 rooms, 2 baths) tile roof, coal furnace, tiled baths, colored fixtures, hardwood floors, etc.

Owner—J. S. Guerin.

Architect—H. H. Winner, Woodsworth Ave., Ross.

Contractor—E. E. Vaughan, 269 Crescent Road, San Anselmo.

Bids Opened.
RESIDENCE Cost, \$—
OAKLAND, Alameda Co., Cal. Contra Costa Road.

One-story and basement frame, brick veneer and stucco residence (five rooms) shake roof, steel sash, stucco interior walls, oak floors, tiled baths, warm air heating system, etc.

Owner—C. J. Borgenson.

Architect—Ray Keefer, 770 Wesley Ave., Oakland.

Low Bidder—J. R. Armstrong, 1131 Fleet Road, Oakland.

Following bids received:
J. R. Armstrong, Oakland.....\$4,810
C. Dudley DeVelliss, Oakland... 4,941
C. F. Woolley, Oakland..... 4,945
C. H. Thramis, Oakland..... 5,187
A. Beckett, Berkeley..... 5,270
I. H. Reimers, Oakland..... 5,470
Emil Person, Berkeley..... 5,684
Bids held under advisement.

Owner Taking Fids.
RESIDENCE Cost, \$4200
OAKLAND, Alameda Co., Calif.

One-story and basement frame and stucco residence (5 rooms) shingle roof, plaster exterior, oak flooring, tiled bath.

Owner—Dr. D. A. Porrano, 816 Ocean View Drive, Oakland.

Plans by W. W. Dixon, 1844 5th Ave., Oakland.

To be Done By Day's Work.
RESIDENCE Cost, \$5000

SAN JOSE, Santa Clara Co., Cal. No. 910 Jackson Street.

One-story and basement frame and stucco residence (6 rooms).

Owner and Builder—F. J. Gallo, 738 Pershing Ave., San Jose.

Plans by Owner.

Plans Being Figured—Bids Close July 5.

RESIDENCE Cost, \$—
WATSONVILLE, Santa Cruz Co., Cal.

Two-story frame, plaster and brick veneer residence (7 rooms and 2 baths) wood shingle roof, gas hot air heating system, wood sash, tiled baths, hardwood floors, etc.

Owner—Dr. E. H. Eiskamp, Watsonville.

Architect—W. W. Wurster, 260 California St., San Francisco.

Bids are being taken from a selected list of local contractors.

Contract Awarded.
RESIDENCE Cost, \$5000

PALO ALTO, Santa Clara Co., Cal. No. 237 Park Blvd.

One-story and basement frame and stucco residence (5 rooms).

Owner—George M. Freedman.

Architect—Not Given.

Contractor—George B. Moore, 531 Stanford St., Palo Alto.

Sub-Contracts Awarded.
RESIDENCE Cost, \$—

BERKELEY, Alameda Co., Cal. Euclid Ave. near Acacia.

Two-story frame and stucco residence (6 rooms); Spanish style, tile and composition roof, gas heating system, hardwood floors, etc.

Owner—E. A. Edgar.

Architect—Not Given.

Contractor—George Windsor, 928 Kingston Ave., Piedmont.

Lumber—Sunset Lumber Co., 400 High St., Oakland.

Millwork—Atkinson Mill & Mfg. Co., 2985 Chapman St., Oakland.

Tile—M. & S. Tile Co., Decoto.

Plumbing—J. R. Pierce Plumbing Co., 7109 E-14th St., Oakland.

Plans Being Figured.
RESIDENCE Cost, \$8000

BERKELEY, Alameda Co., Calif. Campus Drive.

Two-story frame and stucco residence (8 rooms) Colonial-Monterey type

Owner—E. W. Diuhe.

Architect—Howard E. Burnett, 931 Hillcroft Circle, Berkeley.

Following will submit bids:
J. M. Walker, 1709 Grove St., Berkeley.

Albert A. Haskell, 255 Ridgeway Ave., Oakland.

J. Harold Johnson, 639 Brannan St., San Francisco.

Contract Awarded.

RESIDENCE Cost, \$—

SAN FRANCISCO. Forest Hill.

One and three-story frame and stucco residence (6 rooms).

Owner—Mr. Cowell.

Architect—Morrow and Morrow, de-Young Building.

Contractor—G. P. W. Jensen, 320 Market Street.

Sub-Contracts Awarded.
PENT HOUSE Cost, \$10,000

SAN FRANCISCO. Turk and Mason Streets.

Class A concrete and steel pent house (6 rooms, 1 bath) tile roof, steam heating system from main plant, extend elevator, hardwood floors, etc.

Owner—Arnold Haase, Hotel Oxford, Turk and Mason Streets.

Architect—Grimes & Schoening, Balovich Bldg., Third Avenue, San Mateo.

Engineer—W. Adrian, 417 Market St.

Contractor—Cahill Bros., 206 Sansome Street.

Sheet Metal—R. J. Neilan, 39 Isis St.

Reinforcing Steel—Concrete Engineering Co., 1280 Indiana St.

Plastering—William Makin, 2141 Livingston St., Oakland.

Painting—Aristo Painting Co., 473 Bryant St.

Elevator—Westinghouse Electric Elevator Co., 166 7th St.

Ornamental Iron—Star Ornamental Iron Works, 1271 Folsom St.

Glass—Smith Glass Co., 479 Bryant.

Hardwood Floors—Oak Floor Co., 325 Arlington St.

Plumbing and Heating—James H. Pinkerton, 927 Howard St.

Electric—G. H. Armstrong, 2890 Howard St., San Francisco.

Other awards will be made shortly.

Construction Postponed Temporarily.
ALTERATIONS, ETC. Cost, \$—

BERKELEY, Alameda Co., Cal. No. 945 Arlington Avenue.

Concrete garage and additions and alterations to residence (add one room, etc.)

Owner—W. F. Morrish, 945 Arlington Ave., Berkeley.

Architect—Jas. Plachek, Mercantile Bank Bldg., Berkeley.

Contract Awarded.
RESIDENCE Cont. Price, \$10,300

OAKLAND, Alameda Co., Calif. Estates Drive and Park Blvd.

Two-story and basement frame and stucco residence (9 rooms).

Owner—Doctor T. E. Reynolds, 1624 Franklin St., Oakland.

Architect—J. K. Ballantine, 37 Harlan Place, San Francisco.

Contractor—Geo. Windsor, 928 Kingston Ave., Oakland.

Additional Sub-Contracts Awarded.
RESIDENCE Cost, \$6000

BERKELEY, Alameda Co., Cal. Grizzly Peak Blvd.

One-story and basement frame and stucco residence (6 rooms) shingle roof, gas heating system, plaster exterior, colored tile baths, hardwood floors, etc.

Owner—Edwin Dellus.

Architect—William Rich, Orinda.

Contractor—Geo. Windsor, 928 Kingston Ave., Piedmont.

Plastering—Harry Mortensen, 4060 E 18th St., Oakland.

Roofing—Edmund Bardellini, 3700 Greenacre Road, Oakland.

Electric—F. W. Parkhurst, 6432 Pinehaven Road, Oakland.

Heating & Sheet Metal—M. C. Henry, 1183 53rd St., Oakland.

Plumbing—J. R. Pierce Plbg. Co., 7109 E 14th St., Oakland.

Painting—Blomgren Bros., 1927 Russell St., Berkeley.

Other awards reported June 4.

Plans Being Figured.
RESIDENCE Cost, \$8000
OAKLAND, Alameda Co., Cal. Broad-
 moor Park.
 Two-story and basement frame and
 stucco residence (8 rooms and 3
 baths); Mexican style, tile roof,
 etc.
 Owner—M. A. Barr.
 Architect—Chas. McCall, 837 Santa
 Ray St., Oakland.

Plans Being Completed.
RESIDENCE Cost, \$3500
PASITIEMPO, Santa Cruz Co., Cal.
 One-story brick veneer residence (4
 rooms).
 Owner—Marian Hollins.
 Architect—Clarence Tantau, 210 Post
 St., San Francisco.
 Residence will be erected at the en-
 trance to Pasitiempo and bids will be
 taken from the office of Pasitiempo
 Beach Club, Cypress Point, Santa
 Cruz.

Contract Awarded.
REMODEL Cost, \$—
McCLOUD, Siskiyou Co., Cal.
 Remodel group of frame buildings
 and construction of new buildings.
 Owner—Wm. Randolph Hearst, San
 Francisco.
 Architect—Miss Julia Morgan, Mer-
 chants' Exchange Bldg., San
 Francisco.
 Contractor—F. C. Stolte, 3449 La-
 guna St., Oakland.

Low Bidder.
ALTERATIONS Cost, \$4,000
OAKDALE, Stanislaus Co., Cal.
 Alterations and additions to frame
 residence (new heating plant, two
 baths, wrought iron stairway,
 hardwood floors throughout, new
 kitchen, etc.)
 Owner—Mr. Brichetto.
 Architect—G. N. Hilburn, 1213 I St.,
 Modesto.
 Low Bidder—M. O. Ward, Rt. 1, Box
 541, Modesto.
 Bids held under advisement.

Contract Awarded.
RESIDENCE Cost, \$5000
BURLINGAME, San Mateo Co., Cal.
 Almer Road.
 One-story and basement frame and
 stucco residence.
 Owner—L. H. Limpert, 550 Almer
 Road, Burlingame.
 Architect—Not Given.
 Contractor—Roy Allen, 519 Francis-
 co Drive, Burlingame.

Contract Awarded.
ADDITIONS Cost, \$35,000
BEVERLY HILLS, Los Angeles Co.,
 Cal. 703 N Bedford Drive.
 Alterations and additions to frame &
 stucco residence (shingle roof,
 hardwood floors, gas heating, tile
 roof, plumbing, etc.)
 Owner—A. G. Price.
 Architect—Albert J. Schroeder, 143½
 S Beverly Drive, Beverly Hills.
 Contractor—Beverly Wllshire Const.
 Co., 143½ S Beverly Drive, Bev-
 erly Hills.

Contract Awarded.
RESIDENCE Cost, \$—
BERKELEY, Alameda Co., Cal. Arch
 Street.
 Two-story frame and stucco residence
 (7 rooms and 2 baths) tile roof,
 gas hot air heating system, tiled
 baths, hardwood floors, steel sash.
 Owner—A. Mainzer.
 Architect—E. L. Snyder, 2101 Shat-
 tuck Ave., Berkeley.
 Contractor—Lawrence Sullivan, care
 architect.

Contract Awarded.
RESIDENCE Cost, \$—
HILLSBOROUGH, San Mateo Co. Cal.
 Two-story and basement frame and
 stucco residence.

Owner—W. E. Dalton, 1324 Castillo
 Ave., Burlingame.
 Plans by Leo J. Sharps, 1477 Bur-
 lingame Ave., Burlingame.
 Contractor—Oscar L. Cavanagh, 432
 Occidental Ave., San Mateo.

Plans Being Prepared.
RESIDENCE Cost, \$11,500
ATHERTON, San Mateo Co., Cal.
 One-story and basement frame and
 stucco residence (11 rooms and 4
 baths) slate roof, gas heating sys-
 tem, hardwood floors, tiled baths,
 colored fixtures, slate terraces.
 Owner—Withheld.
 Architect—F. F. Amandes, 1879 18th
 Ave., San Francisco.
 Bids will be asked in about three
 weeks.

Plans Being Figured.
ALTERATIONS Cost, \$30,000-\$40,000
HILLSBOROUGH, San Mateo Co.,
 Calif. Easton Drive.
 Alterations and additions to two-story
 and basement frame residence
 (add rooms, new plumbing, heat-
 ing, wiring, mill work, etc.)
 Owner—Paul I. Fagan, Hillsborough.
 Architect—Arthur Brown, Jr., 251
 Kearny St., San Francisco.

Contract Awarded.
RESIDENCE Cost, \$6000
OAKLAND, Alameda Co., Calif. 5829
 Mendocino Avenue.
 Two-story frame and stucco residence
 (5 rooms).
 Owner—A. J. Perry, 53rd Street and
 Shattuck Ave., Oakland.
 Architect—Not Given.
 Contractor—Geo. Windsor, 923 Kings-
 ton Ave., Oakland.

Contract Awarded.
RESIDENCE Cost, \$5000
OAKLAND, Alameda Co., Calif. NE
 Young and Atlas Avenue.
 Two-story frame and stucco residence
 (6 rooms).
 Owner—Midvalley Corporation.
 Architect—E. M. Sharpe, 525 Market
 St., San Francisco.
 Contractor—Allen & Allen, 1239 106th
 Ave., Oakland.

RESIDENCE Cost, \$5800
BERKELEY, Alameda Co., Cal. San
 Miguel at Santa Rosa.
 Two-story and basement frame and
 stucco residence (8 rooms and 2
 baths) tile and composition roof,
 hardwood floors, tiled bath, etc.
 Owner—C. C. Bradfield.
 Architect—Hardman & Russ, Berk-
 eley Bank Bldg., Berkeley.
 Contractor—C. M. Norgrove, 2220
 Roosevelt St., Berkeley.

Plumbing—A. Severy, 1036 Cornell
 Ave., Albany.
Painting—R. C. McRice, 2604 26th
 Ave., Oakland.
Tile—Brockhurst Tile Co., 2819 Shat-
 tuck Ave., Oakland.
Millwork—Clinton Mill & Mfg. Co.,
 701 4th Ave., Oakland.

Electric—Fred Schmidt, 428 Moss
 Ave., Oakland.
Brick—W. H. Wisleropp, 3749 Quig-
 ley Ave., Oakland.
Flooring—R. I. Davis, 1801 Ward St.,
 Oakland.
Sheet Metal—F. L. Zorzle, 433 Ocean
 View Avenue, Oakland.
Plastering—H. Thorndyke, 2450 E.
 21st St., Oakland.

As previously reported: Concrete.
Excavation—Schnoor Brothers, 6016
 Claremont Ave., Oakland; Lumber,
 E. K. Wood Lumber Co., Frederick
 and King Sts., Oakland.

Contract Awarded.
RESIDENCE Cost, \$4000
ALBANY, Alameda Co., Calif. 910
 Curtis Street.
 One-story and basement frame and
 stucco residence (5 rooms).

Owner—Geo. C. Edlefsen, 832 Elm St.
 El Cerrito.
 Architect—Not Given.
 Contractor—G. L. Larson, 800 Mari-
 mar, Berkeley.

Contract Awarded.
RESIDENCE Cost, \$8400
PALO ALTO, Santa Clara Co., Cal.
 Crescent Park.
 Two-story frame and stucco residence
 Owner—L. R. Crowell.
 Architect—Morgan Stedman, 432 Em-
 barcadero Road, Palo Alto.
 Contractor—E. J. Schmaling, 863 Mel-
 ville Ave., Palo Alto.

Contract Awarded.
ALTERATIONS Cost, \$4000
SAN JOSE, Santa Clara Co., Cal.
 Eighth and Reed Streets.
 Alterations to frame and stucco resi-
 dence.
 Owner—Sibyl Ruddick, 324 Reed St.,
 San Jose.
 Architect—Not Given.
 Contractor—V. H. Painter, Garden
 Ave., San Jose.

Low Bidder.
RESIDENCE Cost, \$8000
BERKELEY, Alameda Co., Calif.
 Campus Drive.
 Two-story frame and stucco residence
 (8 rooms) Colonial-Monterey type.
 Owner—E. W. Druhe.
 Architect—Howard E. Burnett, 931
 Hillcroft Circle, Berkeley.
 Low Bidder—J. M. Walker, 1709
 Grove St., Berkeley.

Sub-Bids Being Taken.
RESIDENCE Cost, \$10,000
OAKLAND, Alameda Co., Cal. Es-
 tates Drive near Hampton Road.
 Two-story and basement frame and
 stucco residence (9 rooms) shingle
 roof, gas heating system, hard-
 wood floors, reinforced steel, tile
 work, etc.
 Owner—Dr. Charles Hall, 411 30th St.,
 Oakland.
 Architect—Miller & Warnecke, Fi-
 nancial Center Bldg., Oakland.
 Contractor—Theodore H. Lapham, 546
 Kenmore Ave., Oakland.
 Sub-bids are wanted on hardwood
 flooring, gas furnace, shingle roofing,
 reinforcing steel, tile work, etc.

RESIDENCE Cost, \$30,000
PEBBLE BEACH, Monterey Co., Cal.
 Two-story and basement frame and
 stucco residence (12 rooms and 4
 baths); terra cotta tile roof, elec-
 tric heating system, wood and
 bronze sash, ornamental iron,
 colored tile baths, hardwood floors
 etc.
 Owner—J. D. Chapman.
 Architect—Clarence Tantau, 210 Post
 St., San Francisco.
 Dowsett-Ruhl, Pebble Beach, are
 the only contractors figuring the
 plans.

15—SCHOOLS

SAN FRANCISCO—R. P. Paoli, 3159
 Fillmore St., at \$762 awarded contract
 by State Department of Public Works
 for painting administration building at
 San Francisco State Teachers' Col-
 lege.

Plans Completed.
ALTERATIONS Cost, \$5000
BERKELEY, Alameda Co., Cal. Rose
 and Josephine Streets.
 Alterations to Jefferson School Cafe-
 teria (partition work, new con-
 crete slab, tables, counters, exca-
 vation work, cafeteria equipment,
 etc.)
 Owner—Berkeley City School District.
 Architect—Hardman & Russ, Berkeley
 Bank Bldg., Berkeley.

ALBANY HIGH SCHOOL

ALBANY, Alameda Co., Cal.—Following bids received by City of Albany School District for the construction of a two-story and basement reinforced concrete high school building to be erected on Ramona and Garfield Sts. P. L. Dragon and C. R. Schmidts, 3016 Telegraph Ave., Berkeley, Architects. Building will have composition roof, steam heating system, pine floors, linoleum corridors, stucco finish, cement stairs, tile and wainscoting in toilet rooms, steel partitions, etc.

(A) J. D. Hannah, San Francisco, \$21,975.
 (B) W. E. Lyons, Oakland, \$29,600.
 (C) George Peterson, San Leandro, \$29,993.
 (D) E. T. Leiter & Son, Oakland, \$30,637.

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A).....	\$21,975	\$600	\$300	\$400	\$4000	\$1200	\$24,550	\$20
(D).....	29,600	675	387	440	4700	2750	31,250	10
(C).....	29,993	700	380	740	4679	2746	31,823	23
(E).....	30,637	710	420	500	5000	2500	32,887	20
(F).....	30,873	707	380	425	4960	2450	33,200	22
(G).....	30,974	687	391	541	5212	2774	32,837	22
(H).....	31,111	738	397	545	5557	2778	34,000	24
(I).....	32,800	675	375	450	5500	2250	35,800	15
(J).....	33,549	658	387	400	5400	2867	35,482	26

Heating

(A) Scott Co., Oakland, \$1925.
 (B) Pacific Heating & Ventilating Co., Oakland, \$2075.
 (C) Hunter & Herb, Albany, \$2085.
 (D) George C. Bell, Oakland, \$2110.
 (E) Carl T. Doell, Oakland, \$2227.
 (F) Standard Mechanical Co., Oakland, \$2240.
 (G) Fearey & Moll, Oakland, \$2277.
 (H) W. H. Picard, Oakland, \$2420.

(1) Heating complete;
 (2) deduct for omitting radiation on second floor;
 (3) add for radiation for two rooms;
 (4) using used equipment in boiler room.

Additional Prospective Bidders.
 ALBANY, Alameda Co., Cal. Ramona and Garfield Streets.
 Two-story and basement reinforced concrete high school (8 classrooms 1st unit) to be known as Herbert Hoover Junior High School.
 Owner—City of Albany.
 Architect — P. L. Dragon and C. R. Schmidts, 3016 Telegraph Avenue, Berkeley.

Will have composition roof, steam heating system, pine floors, linoleum corridors, stucco finish, cement stairs, tile and wainscoting in toilet rooms, steel partitions, etc.

General Work

C. L. Wold, 4416 Fulton St., San Francisco.
 E. H. Mellencamp, 648 Beacon St., Oakland.

Heating

Fearey & Moll, 1075 40th St., Oakland.
 Scott Co., 243 Minna St., San Francisco.
 Other prospective bidders previously reported.

ALHAMBRA, Los Angeles Co., Cal.—Architect John W. Smart, 39 East Main St., Alhambra, has been commissioned to supervise the reconstruction of any schools in the Alhambra school district which may be ordered by the Alhambra Board of Education. The Ramona school will probably be repaired soon.

SAN FRANCISCO.—Anchor Post Fence Co., 460 5th St., at \$67 submitted low bid to Department of Public Works for entrance gates at the Guadalupe School. Following bids received:

Anchor Post Fence Co. \$67.00
 Kamlan Fence Co. 74.50
 Crown Fence Co. 77.00

(E) E. T. Lesure, Berkeley, \$30,873.
 (F) N. H. Sjöberg, San Francisco, \$30,974.
 (G) J. Harold Johnson, San Francisco \$31,111.
 (H) O. Monson, San Francisco, \$32,800.
 (I) George Maurer, Oakland, \$33,549.
 (1) Proposal one.
 (2) ded. for omitting metal lockers.
 (3) ded. for omitting linoleum.
 (4) ded. for omitting concrete flooring.
 (5) add for additional room, Nos. 5 and 10.
 (6) ded. for omitting finish in rooms 5, 7, 8, 9.
 (7) Work complete omitting finish in rooms 6, 7, 8, 9, 10.
 (8) concrete per cu. yd.

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
(A).....	\$1925	\$304	\$252	\$1817	\$1434			
(B).....	2075	275	270	1925	1910			
(C).....	2085	401	155					
(D).....	2110	285	270	1915				
(E).....	2227	305	321	2099	2080			
(F).....	2240	325	314	2128				
(G).....	2277	319	315	2082				
(H).....	2420	351	315	2212				

Bids held under advisement for a few days.
 The bid of J. D. Hannah was withdrawn.
 (1331) 1st report April 28; 5th June 23, 1933.

Bids held under advisement.
 Michel & Teffer Iron Works..... 79.00

Contract Awarded.
 LOCKER ROOM Cont. Price, \$6335
 DAVIS, Yolo Co., Calif.
 Locker room addition to gymnasium building.
 Owner—Davis Joint Un. High School District (E. S. McBride, clerk)
 Davis.
 Architect—Starks & Flanders, Forum Bldg., Sacramento.
 Contractor—Chas. F. Unger, 4532 T St., Sacramento.

Following bids received:
 Chas. F. Unger, Sacramento.....\$6,335
 J. Witzelberger, Woodland..... 6,740
 E. M. McGuire, Davis..... 7,176
 G. W. Kopp, Sacramento..... 8,071

Plans Being Completed.
 ADDITION Cost, \$3500
 MORGAN HILL, Santa Clara Co., Cal. Frame and stucco addition to Morgan Hill Grammar School (add one classroom, revise toilet rooms, etc.)
 Owner—Morgan Hill Grammar School District (Mr. Dickerson, Pres.)
 Architect—W. H. Weeks, 525 Market St., San Francisco.

Plans will be forwarded to Sacramento for approval within a few days.

LONG BEACH, Los Angeles Co., Cal.—The Long Beach Board of Education has selected a 25-acre site at the northwest corner of Carson Ave. and Clark St., Long Beach, offered by the Montana Land Co. for a proviso that the board of education erect a building of not less than \$150,000 in value.

SAN FRANCISCO.—Anchor Post Fence Co., 460 5th St., at \$67 awarded contract by Department of Public

Works for entrance gates at Guadalupe School.
 Complete bids published June 24.

16—BANKS, STORES AND OFFICES

Contract Awarded.
 ALTERATIONS Cost, \$1500
 PALO ALTO, Santa Clara Co., Cal.—No. 201 University Avenue. Alterations to store building.
 Owner—The Capital Co., 625 Market St., San Francisco
 Plans by Engineering Dept. of Owner.
 Contractor — H. H. Larsen Co., 64 South P.ark, San Francisco.

Building Permit Applied For.
 ALTERATIONS Cost, \$50,000
 SAN FRANCISCO, 867-871 Market St. Alterations to 4-story and basement store (130,000 sq. ft. floor space).
 Owner—Lincoln Realty Co., Mills Building.
 Lessee—J. C. Penney Co., 330 W 34th St., New York City.
 Architect—E. M. Sharpe, 525 Market Street.
 Engineer—A. P. Fisher, 111 Sutter St.
 Contractor—J. B. Oswald, Mills Bldg. and 433 California St.

As previously reported electric contract awarded to Crown Electric Co., 153 Eddy St.; plastering to Wm. Day; Elevator to Otis Elevator Co., 1 Beach St.; structural steel to Western Iron Works, 141 Beale St.; tile to Harry Drake, 2094 46th Ave.; foundation to T. J. Sullivan.
 (1263) 1st report April 21; 3rd, June 16, 1933.

Contract Awarded.
 OFFICE & APT. Cost, \$6500
 RODEO, Contra Costa Co., Cal. Two-story frame and stucco office and apartment building (one 2-room apt.) Pabco roof, hot water heating system, hardwood, linoleum and tile floors, etc.
 Owner—Dr. S. N. Weil.
 Plans by W. S. Hertzke and Wm. H. Knowles, 982 Bryant Street, San Francisco.
 Contractor—A. Knowles, 982 Bryant St., San Francisco.

Commissioned To Prepare Plans.
 CITY-CO. BLDG. Cost, \$1,000,000
 SAN DIEGO, Calif. Combined city-county office building (10-story Class A structure).
 Owner—County of San Diego.
 Architect—Charles Quayle, Spreckels Bldg., San Diego.

The supervisors intend to submit the plans to the Reconstruction Finance Corp. with a request for funds with which to finance the building.

Preparing Preliminary Plans.
 ALTERATIONS Cost, \$15,000
 BURLINGAME, San Mateo Co., Cal. Howard and Park Avenue.
 One-story steel frame and concrete addition to medical dental building and general alterations.
 Owner—J. S. Van Winkle.
 Architect — Ernest L. Norberg, 407 Occidental Ave., Burlingame.

SAN FRANCISCO.—Until July 5th, 2:30 P. M., bids will be received by S. J. Hester, Chief Deputy Director, Department of Public Works, City Hall, for alterations to the Controller's office in the City Hall.

Contracts Awarded.
 ALTERATIONS Cost \$5000
 OAKLAND, Alameda Co., Calif. N 7th St. bet. Market and Myrtle. Alterations to building.
 Owner—Fireman Fund Ins. Co., San Francisco.
 Architect—W. E. Huson, 1723 Webster St., Oakland.
 Contractor—Lindgren and Swinerton, Inc., 1723 Webster St., Oakland.

Plans Being Revised.
STORE Cost, \$5000
SAN LEANDRO, Alameda Co., Calif.
 One-story store (brick walls, steel trusses, plate glass front, cement floors, etc.; 46x67 ft.)
 Owner—Withheld.
 Architect—Ray Keefer, 770 Wesley Ave., Oakland.

Plans are being revised and contract will probably be awarded to low bidder on previous bid opening. Complete list of bids published June 21.

Contract Awarded.
STORE Cost, \$—
SONOMA, Sonoma Co., Calif.
 One-story concrete store (37 ft. frontage).
 Owner—Mrs. Beatrice Bulotti, Sonoma.
 Architect—Not Given.
 Contractor—C. C. Bean, Sonoma.

To Be Done By Day's Work.
STORE & RESIDENCE Cost, \$8500
ALBANY, Alameda Co., Calif. 1461 Solano Ave.
 Two-story frame and stucco store and residence.
 Owner—Frank M. Weber, 4867 Mission St., San Francisco.
 Architect—Not Given.

SAN FRANCISCO, Calif.—Clinton Stephenson Construction Company, 550 Montgomery Street awarded the following sub contracts in connection with the construction of the alterations and additions to the Administration Building at the San Francisco Airport.
Lumber—Roth & Maler, Third St., San Francisco.

Mill Work—Pacific Manufacturing Co. Monadnock Bldg., San Francisco.
Finish Hardware—Marshall-Crewell Supply Co., Spear and Mission Sts., San Francisco.
 Roofing and glass contracts will be awarded shortly.

Plans Completed.
BUILDING Cost, \$15,000
FRESNO, Fresno Co., Cal. N Fulton St. near Sumner Ave.
 Two-story concrete, frame and stucco medical office building (70x80 ft.) 20 rooms and five-room apartment (flat composition roof, gas heating system, etc.)
 Owner—Dr. Roscoe F. Wallace, Fresno
 Architect—Charles E. Butner, Cory Bldg., Fresno, and Glikbarg Bldg., Salinas.
 Bids will be asked shortly.

Planned.
STORE Cost, \$—
MODESTO, Stanislaus Co., Cal.
 One-story store building.
 Owner—C. C. Britton, 510 Sycamore St., Modesto.
 Architect—Not Given.

Contracts Awarded.
REMODEL BLDG. Cost, \$20,000
OAKLAND, Alameda Co., Calif. 13th and Washington Sts.
 Remodel Class C brick store and loft building (new tile front, etc.)
 Owner—Masonic Temple Assn.
 Architect—E. T. Foulkes, 357 12th St., Oakland.
 Contractor—E. T. Leiter & Son, 811 37th St., Oakland.

17—THEATRES

Plans Being Completed.
ALTERATIONS Cost, \$15,000
OAKLAND, Alameda Co., Cal. 1430 Broadway.
 Alterations to theatre.
 Owner—Golden State Theatre Corp., 25 Taylor St., San Francisco.
 Architect—Meyer and Jorgensen, 525 Market St., San Francisco.
 Bids will be asked in about 2 weeks.

18—WHARVES & DOCKS

Sub-Contracts Awarded.
EXTENSION Cont. Price, \$47,955
OAKLAND, Alameda Co., Cal. Foot of 14th Street.
 Extension of outer harbor wharf (329 ft. long, 60 ft. wide.)
 Owner—City of Oakland Port Commission (G. B. Hegardt, Secretary) Grove St. Pier, Oakland.
 Plans by Engineering Dept. of Owner.
 Contractor—M. B. McGowan, 74 New Montgomery St., San Francisco.
 Sixteen feet will be of pile and timber construction and 44 ft. will be reinforced flat slab construction on concrete piles.
Reinforcing Steel—Soule Steel Co., 1750 Army St., San Francisco.
Creosoted Lumber and Piling—McCormick Supply Co., 461 Market St., San Francisco.
Untreated Lumber—Hill & Morton, Inc., Foot Dennison St., San Francisco.
Rock and Sand—Blake Bros. Co., Balboa Bldg., San Francisco.
Cement—Cowell Lime & Cement Co., 2 Pine St., San Francisco.
 (1455) 1st report May 11; 4th June 14, 1933. 18

SAN FRANCISCO—M. B. McGowan, 74 New Montgomery St., at \$54,800 awarded contract by State Board of Harbor Commissioners for repairs to reinforced concrete beams and girders at Piers No. 28, 30, 32, 33, 29, 31, 33 and 35.

Complete bidse published June 16.

OAKLAND, Cal.—The following contracts awarded by Architects Kent & Hass, 525 Market St., San Francisco, in connection with the construction of the new boat and train concourses for the Key Terminal Railway, Ltd., at the Key Pier, Oakland.

Steel Fabrication and Erection—McClintic-Marshall Co., 2050 Bryant St., San Francisco; all work to be done in their Alameda plant.

Sheet Metal—Guilfoy Cornice Works 1234 Howard St., San Francisco. Contract involves corrugated iron, roofing and siding, galvanized iron gutters, leaders, steel deck, tar gravel roofs, metal covered doors and steel roller doors, galvanized iron wire glass skylights.

Steel Sash and Glazing—Michel & Pfeffer Iron Works, 1415 Harrison St., San Francisco.

Total of all contracts, \$65,000. Contracts for the balance of the work including painting, electric wiring, office partitions, plumbing, floor covering, etc., will be let at a later date.
Pile Driving—Ben. C. Gerwick, 112 Market St., San Francisco.

LONG BEACH, Cal.—City manager will advertise for bids soon for furnishing creosoted piles to be used in the repairing of the Pine Avenue pier. The work will involve material as follows:

- 21 piles in 56-ft. lengths;
- 16 piles in 58-ft. lengths;
- 16 piles in 60-ft. lengths.

SAN FRANCISCO—Malott & Peterson, 20th and Harrison Sts., at \$8,265.40 awarded contract by State Board of Harbor Commissioners, for laying new roofing on shed of Pier 34, Pier 7 and portions of Ferry building. Work involves:

- 735 squares of 100 square feet, each mineral surfaced roofing on Pier No. 34.
- 795 squares of 100 sq. ft. each min-

eral surfaced roofing on Pier No. 7. 235 squares of 100 sq. ft. each mineral surfaced roofing on Ferry Bldg.

SAN FRANCISCO.—Healy-Tibbitts Const. Co., 61 Pine Street, at \$2,682 awarded contract by Public Works Office, San Francisco, for repairs to Pier No. 1, at the Naval Receiving Station, Yerba Buena Island. Following bids received:

- (1) creosoted piling in place, per lin. ft.;
- (2) untreated timber in place, per M. F. B. M.;
- (3) treated timber, per M.F.B.M.;
- (4) steel bolts, staples and spikes, per pound.

Healy-Tibbitts Const. Co.	\$2,682
..... (1)	1.38
..... (2)	48.00
..... (3)	78.00
..... (4)	.05
M. B. McGowan	\$2,815
..... (1)	1.35
..... (2)	56.00
..... (3)	76.30
..... (4)	.047
A. W. Kitchen	\$3,170
..... (1)	1.40
..... (2)	45.00
..... (3)	80.00
..... (4)	.055
Duncanson Harrelson Co.	\$3,240
..... (1)	1.42
..... (2)	52.00
..... (3)	78.50
..... (4)	.06

19—MISC. CONSTRUCTION

SALT LAKE CITY Utah.—Veterans Administration rejected all bids in connection with the lawn sprinkling system at the Veterans' Administration Hospital at Salt Lake City, Utah. On bid opening, May 19, lowest bid was submitted by the Hadden Company, Alhambra, at \$5317. Bids will be re-advertised at a later date.

Contract Awarded.
RACE TRACK Cost, \$125,000
SEATTLE, Wash. Tacoma Highway.
 Horse racing track (300 ft. grandstand to seat 4000; two-story club house with dining room, kitchen, lounge, jockey clubhouse, stalls to accommodate 500 horses, public address system, plumbing, wiring)
 Owner—Washington Jockey Club (Jos. Gottstein, Exchange Bldg., Seattle).
 Architect—B. M. Priteca, Pantages Bldg., Seattle.
 Contractor—I. Ives, 903 23rd Avenue South, Seattle, Washington.

Contract Awarded.
REPAIRS Cost, \$15,000
SAN FRANCISCO. Golden Gate Park
 Repairs to conservatory (repair floors, etc.)
 Owner—City and County of San Francisco (Park Commission), Golden Gate Park.
 Architect—Fred H. Meyer, 525 Market St., San Francisco.
 Contractor—Geo. Wagner, 181 South Park, San Francisco.

Contract Awarded.
MAUSOLEUM Cost, \$4500
COLMA, San Mateo Co., Cal. Cypress Lawn Cemetery.
 Concrete mausoleum (marble exterior and interior).
 Owner—James M. McDonald.
 Architect—S. Heiman, 605 Market St., San Francisco.
 Contractor—Georgia Marble Co., 605 Market St., San Francisco.

Contract Awarded.
MAUSOLEUM Cost, \$9500
PETALUMA, Sonoma Co., Cal.
 Concrete mausoleum (marble interior and exterior, bronze doors, art glass, etc.)

Owner—Mr. Maggetti.
 Architect—S. Heiman, 605 Market St., San Francisco.
 Contractor—Georgio Marble Co., 605 Market St., San Francisco.

Contracts Awarded.
DOG TRACK Cost, \$100,000
SEATTLE, Wash. Playland.
 Dog racing track (quarter mile track) grandstand, kennels, etc.
 Owner—Arcadia Corp. (G. W. Lewis, president).
 Architect—J. A. Madieros, Exeter Apartment Hotel, Seattle.
Lumber—Abel, Inc., 2700 Westlake N. Seattle.

Hardware—Seattle Hdwe. Co., Seattle
 Grading and embankment work is now under way.

Plans Being Prepared.
RACE TRACK Cost, \$150,000
SEATTLE, Wash. Tacoma Highway.
 Horse racing track (300-ft. grandstand to seat 4,000; two-story club house with dining rooms, kitchen, lounge, jockey clubhouse, stalls to accommodate 500 horses, public address system, plumbing, wiring)
 Owner—Washington Jockey Club (Jos. Gottstein, Exchange Bldg., Seattle).

Architect—B. M. Priteca, Pantages Bldg., Seattle.

It is not determined whether bids will be asked or a contractor named to supervise the construction. Track to be ready by August 1.

SAN FRANCISCO.—D. C. McCabe, Call Bldg., at \$149,50 awarded contract by Department of Public Works for concrete stairs on the north side of 22nd Street between Kansas and Rhode Island.

Contract Awarded.
ENCLOSURES Cost, \$1000
SAN FRANCISCO, 1250 Jones St.
 Enclose porch, apartments, etc.
 Owner—M. V. Klinker, 1250 Jones St.
 Architect—Not Given.
 Contractor—Mehel & Pfeiffer Iron Works, 1415 Harrison St.

Planned.
RACE TRACK Cost, \$150,000
SEATTLE, Wash. Tacoma Highway
 Mile race track (clubhouse, stables, etc.)
 Owner—Washington Jockey Club.
 Architect—Not Given.

Organizers of the club are Edwin J. Brown, Allen Drumbeller and Dr. A. R. Galbraith.

SAN FRANCISCO.—Alta Roofing Co., 976 Indiana St., at \$458 submitted low bid to Public Utilities, for repairs to roof of the Superintendent's House of the San Francisco Water Department at Millbrae, San Mateo County. Following bids received:

Alta Roofing Co.	\$458
J. L. Montgomery	475
Malott & Peterson	498
Chas. Izmbrian Roofing & Sheet Metal Co., San Mateo	530
*Jack Johnson Co.	484

*Bid not considered as it was submitted as an alternate proposal.

SAN FRANCISCO.—Until July 5th, 1:45 P. M., informal bids will be received by S. J. Hester, Chief Deputy coived by S. J. Hester, Chief Deputy Director, Department of Public W'ks, for Silocel Nat. Brick, Asbestos insulating cement, mesh wire, etc., at the Juvenile Detention Home.

SAN FRANCISCO.—Until July 5th, 1:45 P. M., informal bids will be received by S. J. Hester, Chief Deputy Director, Department of Public W'ks, for repair work to the wet rock and sand elevating chute at the Municipal Asphalt Plant. Estimated cost \$135.

SUNNYVALE, Santa Clara Co., Cal.—Fred. W. Snook, 596 Clay St., San Francisco, at \$33,520 for item (1), \$33,429 for item (2), \$32,490 for item (3) and \$38,399 for item (4) submitted low bid to Bureau of Yards and Docks, Navy Dept., Washington, D. C., June 28, for irrigation system, grading and concealed lawn sprinkling system at the Naval Air Station, Sunnyvale, under Spec. No. 7034.

Peninsula Paving Co., San Francisco, second low bid (1) \$47,400; (2) \$39,716.

Complete bids will be published shortly.

20—MISC. SUPPLIES AND MATERIALS

BOULDER CANYON, Nev.—General Electric Co., Schenectady, N. Y., at \$3575 for item (1) and \$1650 for item (2) awarded contract by U. S. Bureau of Reclamation, Denver, under Bid No. A-3239-B to furnish:

(1) 50,000 3-conductor No. 18 AWG stranded copper rubber insulated and rubber sheathing electrical cable.

(2) 20,000 ft. 4-conductor do.
 Identical bids were submitted by Anaconda Wire & Cable Co., Hazard Insulated Wire Works, Division of the Okonite Co., Simplex Wire & Cable Co., Hazard Insulated Wire Works, General Electric Supply Corp., American Steel & Wire Co. and Hendrie & Bolthoff M. & S. Co.

OAKLAND, Calif.—Following contracts awarded by city council:

Mixed Concrete and High Early Concrete—Transit Concrete Co., 2500 Peralta St., Oakland, and Melrose Bldg. Materials Co., 4501 Tidewater Ave., Oakland.

High Early Cement—Makin & Kennedy, Inc., 101 4th St., Oakland.

Dry Concrete Mix—Transit Concrete Co., 2500 Peralta St., Oakland, and Melrose Bldg. Materials Co., 4501 Tidewater Ave., Oakland.

Emulsified Asphalt—American Bitumuls Co., 200 Bush St., San Francisco.

Paint—W. P. Fuller & Co., 301 Mission St., San Francisco.

Ethyl Gasoline—Union Oil Co., Mills Bldg., San Francisco.

Bids on lubricating oil were rejected. Will be purchased in the open market.

LOS ANGELES, Cal.—Contracts for furnishing Portland cement for six months period beginning June 7, under Spec. No. 3098, awarded by A. J. Holm, City Purchasing Agent June 22 as follows: Item (1) to Monolith Portland Cement Co., estimated total \$20,000; Item (2) to Consolidated Rock Products Co., estimated total \$18,000; Item (3) to San Pedro Bldg. Supply Co., estimated total \$5000.

CARMEL, Monterey Co., Cal.—City council discussed plans for erection of retaining wall on west side of Scenic Drive.

OAKLAND, Cal.—Until July 14, 8 P. M., bids will be received by John H. Kimball, secretary, East Bay Municipal Utility District, 512 16th St., Oakland, to furnish lumber as follows:

(1) 102,000 ft. b.m. redwood;
 (2) 73,000 ft. b.m. crec. Douglas fir.

Specifications LS-111 are obtainable from above office.

OAKLAND, Cal.—Linde Air Products Co., 40th and Watts, Oakland, at \$3075 awarded contract by the East Bay Municipal Utility District to furnish oxygen gas and dissolved acetylene. Complete bids published June 19.

LOS ANGELES, Cal.—Apache Powder Co., Benson, Ariz., awarded contract by the Metropolitan Water District June 23 at \$399,700 for furnishing 4,100,000 lbs. 40% strength, Class A, explosives under items 1, 3 and 4, Schedule No. 1. The bids were opened June 22. The items are:

(1) 900,000 lbs. for delivery bet. July 1, 1933 and Jan. 1, 1934, at \$85,500;

(3) 2,600,000 lbs. for delivery during the year 1935 at \$254,800;

(4) 600,000 lbs. for delivery during the year 1936 at \$59,400.

The District reserves the privilege of buying a different grade of powder in accordance with alternative figures included in bid.

LOS ANGELES, Cal.—Giant Powder Co., 805 Title Guarantee Bldg., Los Angeles, was awarded the contract by the Metropolitan Water District June 23 at \$326,400 for furnishing 3,400,000 lbs. 40% strength Class A explosives during the calendar year 1934. The district reserves the privilege of buying different grades at alternative prices submitted in bid.

LOS ANGELES, Cal.—Concrete Engineering Co., 1450 Mirasol St., was awarded contract by county supervisors June 26 at \$8960.55 to furnish reinforcing steel for the construction of a conduit on Ballona Creek (Venice Blvd., south roadway) from Rimpau Blvd. to La Brea Ave.

BOULDER CANYON, Nev.—Until 2 P. M., July 5, bids will be received by the Purchasing Agent, U. S. Bureau of Reclamation, Custom House, Denver, Colo., for furnishing structural steel trash rack sections complete in accordance with specifications which may be obtained from the Purchasing Agent, A. McD. Brooks, Bid No. A-3226-E. Bids will be taken f.o.b. cars at shipping point and/or f.o.b. cars at destination, Boulder, City. Early delivery is important.



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 SAN FRANCISCO

ENGINEERING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

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| 24.—St. Light. Systems | 33.—Water Works |
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| 26.—Railroads | 35.—Tunnels |
| 27.—Fire Alarm Sys. | |
| 28.—Fire Equipment | |
| 29.—Streets & Highways | |

21—BRIDGES

TUOLUMNE COUNTY, Cal.—Until July 5, 2 P. M., bids will be received by R. E. Pierce, District Engineer, State Highway Commission, Room 502, State Office Bldg., Sacramento, to construct a bridge across the Middle Fork of the Stanislaus River, about 52 mi. each of Sonora, consisting of one 71-ft. steel pony truss span and one 27 ft. steel stringer span, involving:

- (1) existing bridge to be removed;
- (2) 95 cu. yds. struc. excav.;
- (3) 77 cu. yds. class A Portland cement concrete;
- (4) 3000 lbs. bar reinf. steel;
- (5) 3200 lbs. new struc. steel;
- (6) 29 M.F.B.M. redwood timber, dense select all-heart structural grade.

Specifications obtainable from above office. Certified check 10% required with bid.

LOS ANGELES COUNTY, Cal.—Oswald Bros., 366 E 58th St., Los Angeles, at \$19,431 awarded contract by State Highway Commission, Sacramento, to grade and pave with Portland cement concrete 0.3 mile of San Gabriel River bridge approaches.

22—DREDGING, HARBOR WORKS, EXCAVATION

SACRAMENTO, Cal.—Until July 6, 3 P. M., under Circular Proposal No. 33-347, bids will be received by U. S. Engineer Office, California Fruit Bldg. Sacramento, to dredge 242,000 cu. yds. material from the San Joaquin River 26-ft. Channel in two reaches totaling about 4550 ft. in length near Turner Cut. Specifications obtainable from above office.

PEND OREILLE CO., Wash.—Interstate Engineering & Construction Co., Newport, Wash., at \$50,997.25 awarded contract by U. S. Bureau of Public Roads to construct bridge over Slate Creek together with approach connections to existing road on Pend Oreille Highway, N.F.R. Pro. E-22-10, Kaniksu National Forest.

PORTLAND, Ore.—U. S. Engineer Office, 321 Customhouse, Portland, will ask bids to restore North and South jetties, entrance to Coos Bay, Oregon, involving furnishing and placing 270,000 tons of stone.

NYSSA, Oregon—J. A. Terteling & Son 511 Sound St., Spokane, Wash., at \$113,404.50 submitted low bid to U. S. Bureau of Reclamation, Denver, Colo., to construct earthwork and

structures, North Canal, Sta. 260 (Owyhee River Siphon) to Sta. 513, Mitchell Butte Division, Owyhee Project, Oregon-Idaho, work located near Nyssa and Adrian, Ore., on the Oregon Short Line Railroad.

Morrison-Knudsen Co., Boise, Idaho, second low at \$122,675.

23—IRRIGATION PROJ.

EL CENTRO, Imperial Co., Calif.—M. J. Dowd, chief engineer of the Imperial Irrigation District, is preparing plans for drainage canals and appurtenant work to be constructed under a \$1,000,000 loan, for which the district will make application under the Federal public works program. The engineer estimates that the proposed work will involve:

337 miles of drains, 6 to 7 ft. deep;
89 miles of deepening existing ditches;
46 miles of deep drainage to balance existing works.

The total cost is estimated at \$1,600,000.

25—MACHINERY AND EQUIPMENT

DELANO, Kern Co., Cal.—Until July 18, bids will be received by Frank Panero, clerk, Delano Joint Union High School, to furnish one bus chassis, 1½-ton capacity, 35-passenger body; also one bus body for above chassis, total price not to exceed \$2400. Specifications obtainable from high school garage.

SANTA MARIA, San Bernardino Co., Cal.—Until 8 P. M., July 12, bids will be received by Union High School District to furnish school bus equipment in accordance with specification requirements on file in the office of the district, Santa Maria, Gladys E. Forbes, clerk.

30—RESERVOIRS & DAMS

LOS ANGELES, Calif.—Until 2 P. M., July 10, bids will be received by county supervisors to construct Eaton Wash Debris Dam.

Plans have been amended to include the 30-hour a week provision as contained in Section 653c-1, Penal Code, as amended by the 1933 legislature.

The plans, as prepared by E. C. Eaton, County Flood Control Engineer, 202 N Broadway, call for a rolled earth fill dam, 1545 feet in length, 37 ft. in height, 40.5 ft from foundation to spillway crest. The upstream side will be faced with concrete.

The cost is estimated at \$441,376. Bids will be taken on three proposals, viz: (1) all work complete,

(2) earth work, and (3) concrete and miscellaneous work.

The quantities follow:

PROPOSAL NO. 1.
All Work Complete

- (1) 10.5 acres clear and grub dam-site;
- (2) 40,000 cu. yds. strip damsite;
- (3) 9.0 acres prepare foundation for dam;
- (4) 164,000 cu. yds. excav. (struc.);
- (5) 3100 cu. yds. excavation (cut-off trenches);
- (6) 167,000 cu. yds. excav. borrow pit No. 1;
- (7) 196,000 cu. yds. excav. borrow pit No. 2;
- (8) 147,000 cu. yds. embankment, impressions (Class A);
- (9) 265,000 cu. yds. embankment, impressions (Class B);
- (10) 1450 cu. yds. backfill, tamped (Class A);
- (11) 8850 cu. yds. backfill, untamped (Class B);
- (12) 930 cu. yds. conc. cut-off walls (Class A);
- (13) 3540 cu. yds. concrete floor slabs (Class B);
- (14) 250,000 sq. ft. gunite facing slab Alt. to 14 (14-A) 3980 cu. yds. conc. facing slab;
- (15) 2640 cu. yds. concrete retaining wall (Class D);
- (16) 2125 cu. yds. conc. outlet conduit (Class E);
- (17) 1450 cu. yds. conc. spillway ogee (Class E);
- (18) 1,250,000 lbs. place reinf. steel;
- (19) 200,000 lbs. place gates, hoists, stems, etc.;
- (20) 44,000 lbs. place trash racks;
- (21) 8,000 lbs. place misc. metal;
- (22) 1,000 lbs. place metal handrail;
- (23) 200 lin. ft. place tile drains;
- (24) 100 lin. ft. drill dowel holes.

PROPOSAL NO. 2.

Earthwork Only.

- (1) 10.5 acres clear and grub dam-site;
- (2) 40,000 cu. yds. strip damsite;
- (3) 9.0 acres prepare foundation for dam;
- (4) 156,000 cu. yds. excav. for struc. (Class A);
- (5) 3100 cu. yds. excavation (cut-off trenches) Class B;
- (6) 167,000 cu. yds. excav. borrow pit No. 1 (Class C);
- (7) 196,000 cu. yds. excav. borrow pit No. 2 (Class D);
- (8) 147,000 cu. yds. embankment, impervious (Class A);
- (9) 265,000 cu. yds. embankment, impervious (Class B);
- (10) 1450 cu. yds. backfill, tamped (Class A);
- (11) 8850 cu. yds. backfill, untamped (Class B);

PROPOSAL NO. 3.

Concrete and Miscellaneous Work

- (4) 8000 cu. yds. excav. for struc. (Class A);
- (4a) 5000 cu. yds. excav. final trim upstream (Class E);
- (12) 930 cu. yds. conc. cut-off walls (Class A);
- (13) 3540 cu. yds. concrete floor slabs (Class B);
- (14) 250,000 sq. ft. gunite facing slab Alt. to 14 (14-A) 3980 cu. yds. conc. facing slab (Class C);
- (15) 2640 cu. yds. concrete retaining wall (Class D);
- (16) 2125 cu. yds. conc. outlet conduit (Class E);
- (17) 1450 cu. yds. conc. spillway ogee (Class F);
- (18) 1,250,000 lbs. place reinf. steel;
- (19) 200,000 lbs. place gates, hoists, stems, etc.;
- (20) 44,000 lbs. place trash racks;
- (21) 8,000 lbs. place misc. metal;

CAPITAL CITY TITLE COMPANY

J. C. PALEN,
Manager

914 Seventh Street
Sacramento :: California

- (22) 1,000 lbs. placing handrail;
- (23) 200 lin. ft. place tile drains;
- (24) 100 lin. ft. drill dowel holes.

30

LOS ANGELES, Cal.—Alhambra Foundry Co., 1147 Meridian Ave., Alhambra, awarded contract by county supervisors, June 26, at \$3521.56 for furnishing trash racks, ladders, steel coors and miscellaneous metal for San Gabriel Dam No. 2.

31—PIPE LINES & WELLS

SAN FRANCISCO.—Robert Garcia, Palo Alto, at \$4212.66 submitted low bid to Public Utilities Commission to drill four inspection wells, Calaveras Dam, involving:

- (1) drill 10-in. dia. well and furnish and install 10-in. dia. casing, 250 lin. ft.;
- (2) 200 ft. do, 8-in. well, 8-in. steel casing;
- (3) 50 ft. do, 6-in. well, 6-in. casing;
- (4) 50 ft. do, 4-in. well, 4-in. casing;
- (5) 250 ft. furnish and install 8-in. steel casing inside larger casing
- (6) 180 ft. 6-in. do, inside larger casing;
- (7) 60 ft. 4-in. do, inside larger casing;
- (8) 160 ft. furnish and install 5 3/4-in. screw and socket joint wrought casing inside larger casing;
- (9) 200 ft. perforate steel casing in place;
- (10) 350 sq. ft. machine perforation before installing;
- (11) 150 sq. ft. perforations in screw and socket casing before installing;
- (12) drill through concrete culvert wall and install brass pipe and fittings;
- (8a) (Alt. for 8) 160 ft. furnish and install 7 1/2-in. screw and socket joint wrought casing inside larger casing;
- (8b) (Alt. for 8) 160 ft. furnish and install 4 1/2-in. screw and socket joint wrought casing inside larger casing.

Bidders follow:

- (A) Robert Garcia, Palo Alto, \$4,212.60.
- (B) Western Well Drilling, San Jose \$4910.30.

Unit bids follow:

	(A)	(B)
(1).....	\$ 6.15	\$ 7.00
(2).....	6.00	6.50
(3).....	6.00	6.00
(4).....	5.00	5.50
(5).....	1.50	1.47
(6).....	1.30	1.19
(7).....	1.00	1.31
(8).....	.76	1.50
(9).....	.30	.30
(10).....	.02	.25
(11).....	.15	.25
(12).....	45.00	200.00
(8a).....	.97	1.50
(8b).....	.45	.90

32—SEWERS & SEWAGE DISPOSAL PLANTS

LOS ANGELES, Cal.—Board of public works rescinded contract awarded to Mike Miller, 877 N Bunker Hill on May 12, at \$13,800 and instructed the city engineer to prepare modified plans for the construction of the Fish Harbor intercepting sewer in the right of way westerly from Ways St. bet. the alley south from Terminal Way and in a portion of Terminal Way, cash contract, involving: 1742.73 ft. 21-in. standard strength vitrified clay pipe sewer (exclusive of curves);

21.47 ft. 21-in. standard strength vitrified clay pipe sewer (including curves).

Resurfacing and concrete reinforcement as shown on plans.

CAPITOLA, Santa Cruz Co., Cal.—County supervisors continue action on outfall sewer system for Capitola, bids for which were opened May 29, until July 7, 2:30 P. M.

SAN FRANCISCO.—Pioneer Const. Co., 2016 San Jose Ave., at \$388 submitted low bid to Public Utilities Commission to construct septic tank and sewer system for employee's house, Millbrae. Complete bids:

Pioneer Const. Co.	\$388.00
E. J. Treacy	432.95
J. Marengo	470.00
C. L. Harney	537.00
M. J. Lynch	550.00
Clinton-Stephenson Const. Co.	586.00
Daniel Ryan	590.00
H. E. Connor, Redwood City.....	625.00
Martin Murphy, Berkeley.....	695.00
Merritt Concrete Prod. Co.....	728.00
P. E. Brand	775.00
Claud S. Sorensen	797.50

LOS ANGELES, Cal.—Merritt-Clapman & Scott Corp, 720 Wilmington-San Pedro Rd., San Pedro, submitted lowest combined bid to the board of public works June 21 at \$33,171 for constructing the sewage pumping plant to be built in the vicinity of Terminal Way and Dock St., Terminal Island.

Gene B. Foster, Inc., submitted the low bid on item (1) at \$21,199.

Merritt-Clapman & Scott Corp. submitted the low bid on item 2 at \$9550.

Bids were received as follows:

(1) construct a reinforced concrete pumping structure and a reinforced concrete gate chamber structure, including furnishing and installing all equipment and appurtenances, grading, paving all walks, curbs; furnish and apply sulphur-silica compound, metalizing and paint;

(2) furnish and install two duplicate sewage pumping units with all piping, also a sump pump and its connections and floor covering;

(3) lump sum for items (1) and (2).

The buildings will be of reinforced concrete construction, waterproofing, steel floors, galvanized iron hand railings, steel and wood ladders, steel gratings and plates, redwood gate, skylights, wire glass, copper flashings and gutters, fan ventilator, 60-ft. flagpole to serve as a ventilation pipe, portable work, Mastipave floor covering, cast iron gates, centrifugal cast iron pipe, galvanized can container and plumbing.

The two pumps will be vertical, centrifugal, single stage, 3150 gpm., 50-ft. head, and by change of impellers have required capacity to pump 4275 g.p.m., 60-ft. head. Also includes shaft guard, valves, floats, flow meter, instrument board, surge tank, electrical equipment, etc.

F. L. Weisenheimer, assistant chief engineer of sanitary sewer design.

The bids follow:

ITEM 1

- Gene B. Foster, Inc., \$21,199.
- Atlas Const. Co., \$21,400.
- Kemper Const. Co., \$23,445.
- Merritt-Clapman & Scott, \$23,621.
- John T. Bibb, \$23,775.
- R. A. Wattson, \$24,942.76.
- Dimmitt & Taylor, \$26,200.
- Engstrum Const. Co., \$26,411.06.
- Contracting Engineers, Inc., \$26,600
- R. R. Bishop, \$26,756.
- Oscar Oberg, \$27,843.
- Artukovich Bros., \$31,376.
- Lynch-Cannon Engr. Co., \$23,700.

ITEM 11

- Merritt-Clapman & Scott, \$9550.
- Smith, Booth, Usher, \$10,600.
- Fairbanks, Morse Co., \$12,467.25.

ITEM III

- Merritt-Clapman & Scott, \$33,171.
- Gene B. Foster, Inc., \$33,721.
- R. A. Wattson, \$33,921.

Contracting Engr., Inc., \$36,500.
Artukovich Bros., \$41,117.

LOS ANGELES, Cal.—Herbert M. Haruch Corp., and Robinson-Roberts Co., 625 S. Olive St., awarded contract by county supervisors, June 26, at \$33,877.50, for constructing a reinforced concrete conduit in Ballona Creek (Venice Blvd. South Roadway), between Rimpau Blvd. and La Brea Avenue.

LOS ANGELES, Cal.—Until July 19, 10 A. M., bids will be received by Board of Public Works to construct a reinforced concrete clarifier and a reinforced concrete digester at the Terminal Island Sewage Treatment Plant, specifications obtainable from Col. H. G. Smith, Chief Engineer of Sanitary Sewer Design, 705 City Hall.

LOS ANGELES, Cal.—J. J. Jessup, city engineer, has completed a preliminary estimate for constructing the sewers in the Wilton Place and Second St. Sewer District, involving: 32,581 ft. concrete conduit (Class F); 16,552 barrels cement;

7,283 tons sand;
10,821 tons rock;
593 tons reinforcing steel;
558,000 sq. ft. forms;
234,500 sq. ft. tile lining;
1,248 brick for two-ring conduit;
78,542 cu. yds. structure, lump sum for concrete conduit only;

78,542 cu. yds. excavation;
12,737 cu. yds. haul;
65,805 cu. yds. backfill;
8,100 ft. tunnel;

19,300 lin. ft. sheeting for trench, average depth 18 ft., remodel hose connections;

29,048 ft. 8-in. to 27-in. vit. clay pipe;
2,160 cu. yds. concrete reinf. and concrete supports;

2,352 barrels cement;
1,553 tons sand;
2,564 tons rock;

structures, lump sum for vit. pipe only
23,727 cu. yds. excavation (24- and 27-in.);

4,000 cu. yds. haul;
19,727 cu. yds. backfill;
25,530 cu. yds. excav. for 21-in. vit. clay pipe and under;

5,654 lin. ft. tunnel;
23,400 lin. ft. sheeting for trench, average depth 18 ft.;

135,000 sq. ft. resurfacing, Class AA;
50,677 sq. ft. do, Class A;

74,674 sq. ft. do, Class C;
17,053 sq. ft. do, Class D.

The cost is estimated at \$700,000. The quantities were prepared for a force account job.

33—WATER WORKS

SALEM, Ore.—The validity of the \$2-500,000 water bond issue, voted a year ago, has been upheld by the Oregon Supreme Court. The city may purchase the existing water system or construct a separate system at its discretion.

LYNWOOD, Los Angeles Co., Cal.—Chicago Bridge & Iron Works, 608 S Hill St., Los Angeles, awarded the contract by city council June 20 at \$5440 to construct an elevated steel tank with hemispherical bottom, 115 ft. in height of 100,000 gallons capacity, using 12-in. cast iron riser. A. J. Bateman, city engineer.

LOS ANGELES, Cal.—Foxboro Co. awarded contract by Saul A. Joseph, Purchasing Agent of the Metropolitan Water District, June 21 at \$2,231.32 for furnishing water flow meters under Bid No. 11172. American Meter Co., Inc. (Pacific Meter Works) submitted the only other bid at \$1,855.46.

OXNARD, Ventura Co., Cal.—Carl Fischer, Oxnard (bidding on U. S. Motors) awarded contract by city council June 20 at \$1006.20 to furnish one 100-hp. and one 125-hp. 3-phase, 50-cycle, 440-volt, 1500-rpm. motors for municipal water plant. Above figure shows deduction for allowance on two compensators, \$16.
Cerrin L. Isham, water superintendent.

SAN FRANCISCO.—Following bids received by T. A. Brooks, City Purchasing Agent, under Bid No. 1032 to furnish:
(1) one 72-in. slide gate;
(2) one 36-in. do;
(3) one 72-in. drainage gate.
Bidders follow:
(A) Calif. Corrugated Culvert Co., Berkeley, (3) \$246.55; Alt. \$301.85.
(B) J. Hendy Iron Works, S. F., (1) \$825; (2) \$350.
(C) Chapman Valve Mfg. Co., S. F., (1) \$930; Alt. \$959; (2) \$387.
Bids held under advisement.

RIO VISTA, Solano Co., Cal.—The following bids received by U. S. Engineer Office, Sacramento, under Order No. 5576 for the rental of two fuel tanks for 90 days:
Bundesen & Lauritzen, Pittsburgh, \$2 each per day for two tanks, total \$360; alternate of \$1.25 per day, total \$225.

Olympian Dredging Co., S. F., \$2.90 per day for one tank, total \$180.
Boiler Tank & Pipe Co., Oakland, at \$5.50 per day; \$11 per day for two tanks.
P. B. Hackley, S. F., bids for a unit of tanks, \$20 per day.
Bide held under advisement.

SAN FRANCISCO.—Following bids received by T. A. Brooks, City Purchasing Agent, under Bid No. 1032 to furnish:
(1) 50,000 ft. 6-in. b&s cast iron pipe;
(2) 50,000 ft. 8-in. do;
Bidders follow:
(A) Pacific States C. I. Pipe Co.;
(B) U. S. Pipe & Foundry.
(C) American C. I. Pipe Co.
(D) National C. I. Pipe Co.
(E) Central Foundry.
Unit bids follow:
(A) (B) (C) (D) (E)
(1)..... \$.5766 \$.52 \$.554 \$.56 \$.436
(2)..... \$.638 .78 .833 .83 .659
Bids held under advisement.

TORRANCE, Los Angeles Co., Cal.—Salisbury, Bradshaw & Taylor, consulting engineers, 714 W. 10th St., Los Angeles, retained by city council to supervise the construction of the new municipal water supply system to be built under the \$400,000 bond issue. They will also make an appraisal of the properties of the Torrance Land & Water Co. to determine its probable value, design and adaptability to the new system, if purchased.

HAYWARD, Alameda Co., Cal.—Rolph Mills & Co., 525 Market St., San Francisco, at \$2744 submitted low bid to city council to construct a 25,000-gal. elevated steel tank, 60 ft. to bottom capacity, for the municipal water system. Complete bids follow:
Rolph Mills & Co.....\$2744
Pittsburgh-Des Moines Steel Co. 3125
California Steel Products Co..... 3243
Chicago Bridge & Iron Co..... 3460
Bids held under advisement until June 30.

MANHATTAN BEACH, Los Angeles Co., Cal.—Until July 20, 8 P. M., (time extended from July 6 and note changes in bold face type below), bids will be received by City Council for sand-blasting the water tank and standpipe at the Water Plant on Se-

pulveda Blvd., welding all seams and all rivets in said water tank and standpipe, making all necessary replacements, painting tank and standpipe with two coats of paint and also for the erection of a screen ladder on the leg of the water tank, ladder side-piece 1½-in. channel, 1.12 lbs. per foot, ladder rungs of ½-inch. Upset Pipe, width 1 ft., U-Type Safety Screens, width 2 ft. 3 in., depth 2 ft. 6 in., ladder and screen erected with clips electric welded or bolted and to comply with State Safety Laws.

Contractor must furnish all materials except paint. City will furnish sufficient paint for two coats. Contractor must furnish all necessary labor and materials and all tools and equipment for work complete.
Certified check, 10%. Merritt J. Crandall, City Clerk; L. C. Lull, City Engineer, 1127 W. Washington Blvd., Los Angeles.

OLYMPIA, Wash.—Puget Sound Machinery Depot, 322 1st St., Seattle, at \$5684, awarded contract by State Board of Control to furnish 350 h.p. four-drum boiler for Western State Hospital at Steilacoom. Wickes Boiler Company of Saginaw, Mich., submitted the lower bid of \$5294.

LOS ANGELES, Calif.—Fairbanks, Morse Co. awarded contract by Saul A. Joseph, Purchasing Agent of the Metropolitan Water District at \$1269 to furnish a power pump under Bid No. 11,656. The bids were:
Fairbanks, Morse & Co.....\$1769.00
Gardner-Denver Co..... 1214.14
The Worthington Co., Inc..... 1223.00
R. M. Hartwell Co..... 1771.15

PALO ALTO, Santa Clara Co., Cal.—L. Skillman, Los Gatos Road, Santa Clara, at \$350 awarded contract by the Veterans' Administration for wrecking water tank at tower at the Veterans' Administration Hospital at Palo Alto.

MIDWAY CITY, Los Angeles Co., Cal.—The Midway Mutual Water Co. will be in the market in the near future for 2½-in. steel pipe for replacements. The company will probably ask figures on 8200 ft. furnished 400 ft. at time depending on the money available. H. M. Harrison, Supt. A. J. Houlihan, secretary, Midway City.

35—TUNNELS

VENTURA COUNTY, Cal.—Angus MacDonald, 7150 Melrose Ave., Los Angeles, at \$16,951.86 under Prop. A. submitted low bid June 27 to U. S. Bureau of Public Roads, San Francisco, to line three tunnels on Section A, Route 76, Maricopa-Ventura National Forest Highway, Santa Barbara National Forest, as follows:

- (A) Steel plate and concrete tunnel lining 369 lin. ft.;
- (B) Reinforced concrete tunnel lining, 369 lin. ft.

Bidders follow:
Angus MacDonald, Los Angeles, (A) \$45.94; \$16,951.86.

P. L. Burr, San Francisco, (A) \$50; \$18,450.00.

Contract. Eng., Inc., Los Angeles (A) \$51.45; \$18,985.05; (B) \$55; \$20,295.

Dimmitt & Taylor, Los Angeles (A) \$55.50; \$20,379.50.

Kemper Constr. Co., Los Angeles, (A) \$56.90; \$20,996.10; (B) \$71; \$26,199.

Sharp & Fellows, Los Angeles (A) \$62; \$22,878, (B) \$84; \$30,896.

Engineer's Estimate (A) \$47; \$17,343, (B) \$69.20; \$25,534.

Bids held under advisement.

29—STREETS AND HIGHWAYS

SEATTLE, Wash.—King County Commissioners cancel call for bids to have been opened July 10 to pave 1.41 ml. Renton Ave. from Renton north toward a connection with Empire Way. Estimated cost, \$24,080. Commissioners plan to call bids on extended project at a later date.

BELLINGHAM, Wash.—Until July 12, 10 A. M., bids will be received by Whatcom County Commissioners to pave Gulde Meridian highway, 1.75 mi. from the Lynden cemetery corner north to the border, estimated cost, \$40,000.

Until July 12, 10 A. M., bids will be received by Whatcom County Commissioners to extend Glen Slater Road, 1 mi. clearing, grubbing and grading west toward the gulf, estimated cost \$6000.

Specifications obtainable from above

SEATTLE, Wash.—No bids received by city council June 22 for the improvement of Railroad Ave., including sea wall, sewers, sidewalks, etc., and paving work between Madison and Bay Sts. Estimated cost, \$1,200,000.

VENTURA, Ventura Co., Cal.—Until 10 A. M., July 7, bids will be received by county supervisors to furnish materials under Spec. No. 531, as follows:

- 10,000 tons crushed rock;
- 10,000 tons gravel.

Specifications prepared by C. W. Petit, County Surveyor and obtainable from clerk of the board, L. E. Hollowell. Certified check or deposit, \$100.

WHITE PINE CO., Nev.—As previously reported, until 3:00 P. M., July 6, bids will be received by S. C. Durkee, State Highway Engineer, Heroes Memorial Bldg., Carson City, Nev., for oiling bet. the west county line and west foot of Antelope Summit, 22.81 miles, Route 2, Sections A and B, involving:

- (1) 202,192 gals. asph. road material, Type SC-2;
- (2) 336,459 gals. asph. road material, Type MC-2;
- (3) 22.81 miles road mix;
- (4) 22.81 miles finish roadway.

Plans obtainable from the above on deposit of \$5 of which \$2.50 is returnable. Certified check 5%.

WHITE PINE CO., Nev.—As previously reported, until 2:30 P. M., July 6, bids will be received by S. C. Durkee, State Highway Engineer, Heroes Memorial Bldg., Carson City, Nev., for oiling bet. Illipah and Robinson Summit, 14.40 miles, Route 2, Section C-2, involving:

- (1) 216,860 gals. asph. road material, Ty SC-2;
- (2) 23,236 gals. asph. road material, Type MC-2;
- (3) 14.40 miles road mix;
- (4) 14.40 miles finish roadway.

Plans obtainable from the above on deposit of \$5 of which \$2.50 is returnable. Certified check 5%.

UKIAH, Mendocino Co., Cal.—Hewig Construction Co., Sebastopol, at \$1478.11 awarded contract by city council for road surfacing as follows
(1) 12,933 sq. ft. asph. road surface (armor coat).
(2) 7540 sq. yds. asph road surface (road oil).

FREMONT COUNTY, Wyo.—Central States Contracting Co., Oakland, Cal., submitted low bid to the U. S. Bureau of Public Roads, 237 Custom House, Denver, Colo., J. A. Elliott,

acting district engineer, June 20, at \$53,780 for Section A. Wind River or Shoshone Indian Reservation Highway; 27,566 miles.

SAN JOSE, Santa Clara Co., Cal.—
A. J. Ralsch, 350 Burrell Bldg., San Jose, at \$6949 awarded contract by county supervisors to improve San Salvador St. from Meridian Road to the east line of Hannah St., Supervisor District No. 4, involving 65,240 sq. ft. oil macadam. Complete bids follow:
A. J. Ralsch, San Jose.....\$6949
Union Paving Co., San Francisco 7480
Surveyor's Estimate 7375

CALAVERAS COUNTY, Cal.—Until July 19, 2 P. M., bids will be received by State Highway Commission, Sacramento, to surface with untreated gravel or stone 6.5 mi. between western boundary and Burson, involving:
(1) 12,600 tons untr. cru. gravel or stone surfacing;
(2) 1,200 M. gals. water applied to base and surfacing.

SAN JOSE, Santa Clara Co., Cal.—
A. J. Ralsch, 350 Burrell Bldg., San Jose, at \$11,660 awarded contract by county supervisors to improve Kooser Road from San Jose to Almaden Road to the Los Gatos and Almaden Road. Supervisor District No. 4, involving:
(1) 223,600 sq. ft. asph. concrete;
(2) 4,460 sq. ft. additional 16-ft. pavement.
Complete bids follow:
A. J. Ralsch, San Jose.....\$11,660
Piazza & Green, San Jose..... 12,980
O. G. Ritchie, San Jose..... 14,110
Granite Con. Co., Watsonville 14,747
Surveyor's Estimate 13,250

LANDER COUNTY, Nev.—As previously reported, until 3:30 P. M., July 6, bids will be received by S. C. Durkee, State Highway Engineer, Heroes Memorial Bldg., Carson City, Nev., for oiling between Railroad Pass and Austin, 21.4 miles, Route 2, Sections B and C, involving:
(1) 470,344 gals. asph. road material, type SC-2;
(2) 34,492 gals. asph. road material, type MC-2;
(3) 21.38 mi. roadmix;
(4) 21.40 mi. finish roadway;
(5) 308 sq. yds. asphalt mat. surface.
Plans obtainable from above on deposit of \$5. \$2.50 returnable. Certified check, 5%.

CALAVERAS and Alpine Cos., Cal.—
C. F. Frederickson & Sons, Lower Lake, at \$7834.50 awarded contract by State Highway Commission to treat with fuel oil and asphaltic road oil as a dust palliative 23.8 miles of existing roadbed bet. Dorrington and Lake Alpine.

WASHINGTON, D. C.—The following is a list of the amounts finally allocated to the West Coast States under the \$100,000,000 fund for highway construction provided under the public works bill:

Arizona	\$ 5,211,960
California	15,607,354
Colorado	6,874,430
Idaho	4,486,249
Montana	7,429,748
Nevada	4,545,917
New Mexico	5,792,935
Oregon	6,106,896
Utah	4,194,708
Washington	6,115,867
Wyoming	4,501,327
Hawaii	1,871,062

ARIZONA STATE.—Until 2 P. M., July 11, bids will be received by the State Highway Commission, Phoenix, to construct Holbrook-Winslow Highway (E-40) from west city limits, consisting of the construction of one concrete and two C.M.P. culverts, the placing of subgrade stabilizer and oil processing by the plant mix method, and is to be completed on or before Nov. 30, 1933, involving:
5,400 cu. yds. subgrade stabilizer;
22,000 cu. yd. mi. subgrade stabilizer,
71 cu. yds. concrete;
haul;
246,800 sq. yds. prepare subgrade;
500 M. gals. water;
31,300 tons plant mix;
217,300 ton miles plant mix, haul;
1,520 tons cutback asphalt;
21.2 miles spread, compact and finish;
1,800 cu. yds. screenings;
4,900 cu. yds. shoulder material;
18,800 cu. yd. mi. shoulder material,
haul.
Proposal guarantee in cash or certified check of not less than 5%. T. S. O'Connell, State Highway Engineer.

CLARK COUNTY, Nevada—As previously reported, until 2 P. M., July 6, bids will be received by S. C. Durkee, State Highway Engineer, Heroes Memorial Bldg., Carson City, Nev., for oiling over the Muddy River bridge and from the Lower Virgin River bridge to Mesquite, 11.93 miles, Route 6, Sections F, H2, H1 and H4, involving:
(1) 252,580 gals. asph. rd. mat., Type SC-2;
(2) 18,602 gals. asph. rd. mat., Type MC-2;
(3) 11.56 mi. road mix;
(4) 4462 sq. yds. asphalt mat surface;
(5) 11.93 mi. finish roadway.
Plans obtainable from above on deposit of \$5. \$2.50 returnable. Certified check, 5%.

NEVADA STATE—Bids will be called to close July 12, by S. C. Durkee, State Highway Engineer, Heroes Memorial Bldg., Carson City, for highway construction as follows:
Concrete paving on highway in city of Elko.
New construction on ten miles of Contact-Idaho state line road and eight miles of surfacing on same road north of Contact, thus completing Wells-Idaho road.
Gravel surfacing Lincoln highway between Antelope summit and Illapah, fourteen miles.
Oiling Tonopah to Millers road, ten miles.
Oiling Yerington road from Yerington to point 9½ miles east.
Oiling of 5½ miles of highway near Holbrook and Douglas county line.

SOUTHERN CALIFORNIA—E. E. East, Chief Engineer of the Automobile Club of Southern California, has estimated the amounts which the thirteen southern counties may expect to receive from the \$16,300,000 appropriation which Congress has granted to California for highway construction. On the basis of population, Southern California will receive \$8,987,820, and the individual counties as follows:

Los Angeles County	\$6,340,997
San Diego County	602,004
San Bernardino County	384,409
Orange County	340,728
Kern County	237,099
Riverside County	232,605
Tulare County	222,359
Santa Barbara County	187,126
Imperial County	174,903
Ventura County	157,826
San Luis Obispo County	85,025
Inyo County	18,784
Mono County	3,955

ARIZONA STATE.—Until 2 P. M., July 11, bids will be received by the State Highway Commission, Phoenix, to construct Holbrook-St. Johns Highway (E-78-B and E-78-F). Work extends from the end of the pavement in Holbrook to a point about 5.9 mi. east of Holbrook, and consists of the placing of stabilizer and oil processing by the plant mix method and is to be completed on or before Oct. 15, 1933, involving:
69,300 sq. yds. preparation subgrade;
136 M. gals. water;
4,700 cu. yds. subgrade stabilizer;
12,800 cu. yd. mi. subgrade stabilizer,
haul;
16,650 tons plant mix;
22,500 ton mi. plant mix haul;
500 tons cutback asphalt;
1,150 cu. yds. shoulder material;
2,350 cu. yd. mi. shoulder material,
haul;
500 cu. yds. screenings;
5.9 miles spread, compact and finish;
and other incidental items.
Proposal guarantee in cash or certified check of not less than 5%. T. S. O'Connell, State Highway Engineer.

ARIZONA STATE.—Until 2 P. M., July 12, bids will be received by the State Highway Commission, Phoenix, to construct St. Johns - Springerville Highway (E-60 and E-68A). The work begins at a point about 11½ miles south of St. Johns and extends south-easterly approx. 8¾ miles toward Springerville, consists of grading and draining about ½ of a mile of roadway, the placing of subgrade stabilizer and the oil processing of the entire length by the road mix method and is to be completed on or before November 30, 1933, involving:
29,300 cu. yds. rdwy. excav.;
40 cu. yds. borrow excav.;
20,000 sta. yds. earthwork overhaul;
300 hours rolling;
26,200 cu. yds. subgrade stabilizer,
haul;
74,300 cu. yd. mi. subgrade stabilizer,
haul;
290 M. gals. water;
9,900 cu. yds. mineral aggregate;
25,400 cu. yd. mi. mineral aggregate,
haul;
178,500 gals. asph. road oil;
8.7 miles mix, lay and finish;
104 tons cutback asph. for seal coat;
740 cu. yds. screenings;
770 cu. yds. shoulder material;
2,180 cu. yd. mi. shoulder material,
haul;
and other incidental items.
Proposal guarantee in cash or certified check of not less than 5%. T. S. O'Connell, State Highway Engineer.

LYON COUNTY, Nev.—Until July 6 4 P. M., bids will be received by S. C. Durkee, State Highway Engineer, Heroes Memorial Bldg., Carson City, for 9.91 miles grade and gravel surface from A miles NE of Dayton to 12 miles west of Lahontan, involving:
(1) 41,600 cu. yds. rdwy. excav.;
(2) 60 acres clearing;
(3) 35,815 sta. yds. overhaul;
(4) 10,485 cu. yds. select borrow;
(5) 800 cu. yds. struc. excav.;
(6) 9.91 miles subgrade;
(7) 21,300 cu. yds. crushed gravel or stone;
(8) 59 cu. yds. Class B concrete;
(9) 1,400 lbs. reinf. steel;
(10) 1,464 lin. ft. 18-in. corr. metal pipe;
(11) 320 lin. ft. 24-in. do;
(12) 138 lin. ft. 36-in. do;
(13) 38 monuments;
(14) 9.91 miles finish roadway.
Specifications obtainable from above office on deposit of \$15, of which \$10 is returnable. Certified check 5% required with bid.

S. F. NATIONAL CEMETERY IMPROVEMENTS—GOVERNMENT

SAN FRANCISCO. — Pacific States Const. Co., Call Bldg., at \$15,813 submitted low bid June 22 to Constructing Quartermaster, Fort Mason, to grade, construct roads, relay water line, construct concrete wall, etc., at San Francisco National Cemetery, Presidio of San Francisco, involving:

- (1) entire work as specified;
- (2) deduct if concrete boundary wall is omitted;
- (3) deduct if new fence omitted;
- (4) add or deduct if natural rock asphalt surfacing used in place of asphaltic concrete;
- (5) additional fill, including hauling from borrow pit, cu. yd.;
- (6) concrete, inc. forms, cu. yd.;

- (7) reinf. steel, per 100 lbs.;
- (8) asphalt concrete road, inc. 10-in. sub-base per sq. ft.;
- (9) natural asph. rock surf., including 10-in. sub-base, per sq. ft.;
- (10) concrete curb, straight, lin. ft.;
- (11) concrete curb, curved 1 in. ft.;
- (12) 6-in. cast iron water pipe, linear foot;
- (13) 3-in. galv. steel screwed pipe, lin. ft.;
- (14) 2½-in. do;
- (15) 1¼-in. do;
- (16) 1¼-in. brass gate valves, each;
- (17) ¾-in. hose bibbs with risers, each;
- (18) wire fence, complete, lin. ft.;

- (19) concrete catchbasins, with grating, each;
- (20) 6-in. T. C. sewer pipe, laid and backfilled;
- (21) 8-in. do, lin. ft.;
- (22) concrete wall, complete, lin. ft.

Bidders follow:

- (A) Pacific States Const. Co.
- (B) Eaton & Smith.
- (C) J. S. Heilmann.
- (D) A. G. Raisch.
- (E) Fay Imp. Co.
- (F) Pacific Pavements.
- (G) Theo. Cohn.
- (H) P. L. Burr.
- (I) F. C. Amoroso.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
(1)	\$15,813.00	\$16,000.00	\$16,832.00	\$16,900.00	\$18,286.00	\$18,655.00	\$18,800.00	\$19,300.00	\$19,672.00
(2)	1,509.00	1,242.00	1,400.00	1,200.00	1,474.00	1,000.00	1,000.00	1,850.00	.....
(3)	420.00	460.00	400.00	500.00	460.00	250.00	400.00	400.00	.....
(4) .....	.....	.....	300.00	.....	.....	.....	.....	500.00	.....
(5) .....	.10	.02	.20	.01	.15	.20	.20	.15	.20
(6)	15.50	13.50	20.00	16.00	15.00	16.00	16.00	18.00	16.00
(7)	5.00	.04	13.00	4.00	5.50	.04	3.00	3.00	3.00
(8) .....	.13	.12	.12	.20	.107	.14	.17	.09	.17
(9) .....	.13	.....	.11	.20	.....	.....	.....	.07	.....
(10) .....	.50	.60	.45	.75	.55	.50	.50	.30	.50
(11) .....	.50	.65	.55	.75	.55	.65	.50	.40	.80
(12) .....	.85	.75	.70	1.00	.75	.90	1.00	.80	1.50
(13) .....	.52	.50	.50	.50	.50	.45	.58	.55	.55
(14) .....	.43	.40	.42	.40	.40	.35	.50	.45	.54
(15) .....	.21	.25	.25	.20	.23	.20	.32	.25	.20
(16)	2.50	2.00	3.00	3.00	2.25	4.00	2.00	2.00	4.00
(17)	1.40	1.00	1.00	1.00	1.25	1.50	.55	.75	1.00
(18)	1.00	1.00	1.00	500.00	1.25	.90	1.00	10.00	1.25
(19)	27.50	50.00	60.00	50.00	45.00	40.00	40.00	35.00	94.00
(20) .....	.40	.75	.40	.75	.65	.75	.75	.50	.70
(21) .....	.50	1.00	.65	.75	.80	.75	1.10	.50	.50
(22)	2.83	2.50	3.00	1,200.00	3.00	3.25	2.50	35.00	3.25

BIDS OPENED

BALLONA CREEK CONC. CONDUIT—L. A. COUNTY

LOS ANGELES, Cal. — Herbert M. Baruch Corp. and Robinson-Roberts Co., 625 S. Olive St., submitted low bid to county supervisors, June 19, at \$33,877.50, for constructing a reinforced concrete conduit in Ballona Creek (Venice Blvd. South Roadway), between Rimpau Blvd. and La Brea Ave. The work involves:

- (1) 6700 cu. yds. excavating;
- (2) 6700 cu. yds. backfill;
- (3) 3200 cu. yds. reinforced concrete class A;
- (4) 2400 cu. yds. reinforced concrete, class B;
- (5) 100 lin. ft. drilling dowel holes;
- (6) 1300 lbs. placing corrugated iron pipe;
- (7) 50 lin. ft. placing tile drains.

The county will furnish materials as follows:

Cement and admixture, reinforcing steel and miscellaneous metal ware, except tie wire for reinf. steel, bur-lap for curing filler, expansion joints, corr. metal pipe and drainage tile. E. C. Eaton, County Flood Control

Engineer, 202 N. Broadway. Mame B. Beatty, Clerk of the Board, 501 Hall of Records.

The bids follow:

- (A) H. M. Baruch Corp., et al, \$33,877.50.
- (B) Johnson Constr. Co., \$34,213.
- (C) J. L. McClain, \$34,801.
- (D) Wm. T. Loesch, \$35,586.
- (E) James H. Taylor, \$35,616.
- (F) R. A. Wattson, \$35,792.
- (G) Merritt-Chapman & Scott Corp., \$38,511.50.
- (H) Neil G. Gibbons, \$38,813.
- (I) Andy Sordal, \$40,892.
- (J) John Oberg, \$40,995.
- (K) Oscar Oberg, \$42,945.50.
- (L) Artukovich Bros., \$44,380.
- (M) Lynch-Cannon Engr. Co., \$45,210.
- (N) Kemper Constr. Co., Ltd., \$45,236.90.
- (O) Weymouth Crowell Co., \$45,859.
- (P) United Concrete Pipe Co., \$51,075.
- (Q) Chas. U. Heuser and W. E. Hall, \$51,175.

Unit bids follow:

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
(A)	\$.38	\$.065	\$5.24	\$5.80	\$.37	\$.12	\$.30
(B) .....	.45	.20	5.00	5.72	.60	.05	.14
(C) .....	.32	.21	5.55	5.55	1.00	.05	.10
(D) .....	.42	.18	5.70	5.50	.45	.06	.06
(E) .....	.28	.10	5.60	6.25	.75	.05	.20
(F) .....	.42	.15	5.68	5.68	.75	.05	.50
(G) .....	.25	.10	6.00	7.00	.50	.08	.25
(H) .....	.64	.10	6.00	6.00	1.00	.10	.50
(I) .....	.32	.15	6.68	6.68	.25	.20	1.00
(J) .....	.50	.25	6.40	6.40	.50	.05	.50
(K) .....	.55	.25	6.68	6.68	1.00	.05	.25
(L)	1.10	.15	6.35	6.35	.60	.20	2.50
(M) .....	.80	.10	7.50	6.25	1.00	.05	.30
(N) .....	.61	.327	6.93	6.93	1.00	.02	.50
(O) .....	.29	.17	7.00	8.45	.50	.03	.16
(P) .....	.48	.42	8.00	8.00	1.20	.05	1.20
(Q)	1.40	.35	7.00	7.00	1.00	.10	.40

SAN FRANCISCO. — Pacific Pavements Co., 85 Barstow St., at \$50,214 submitted low bid to Public Utilities Commission to repave street or sidewalk openings where pavement has been removed for S. F. Water Dept. for fiscal year ending June 30, 1934.

The quantities are:

- (1) 60,000 sq. ft. light traffic conc. pavement;
- (2) 100 sq. ft. heavy concrete with binder;
- (3) 27,000 sq. ft. 6-in. Class E conc. pavement;
- (4) 500 sq. ft. brick pave. on conc. base, incl. brick gutter;
- (5) 100 sq. ft. asph. conc. 3¼-in. base and 1½-in. wearing surface;
- (6) 400 basalt blocks on conc. base;
- (7) 5000 do on sand;
- (8) 47,000 sq. ft. sidewalk, all types;
- (9) 100 sq. ft. 2-in. sheet asphalt wearing surface;
- (10) 100 sq. ft. 6-in. Class F concrete base;
- (11) 120,000 sq. ft. asph. conc., 6-in. base and 2-in. wearing surf.;
- (12) 100 sq. ft. do, 8-in. base, 1½-in. binder course and 1¼-in. wearing surface;
- (13a) 100 sq. ft. oiled macadam, 4-in. base;
- (13b) 2500 sq. ft. do, 8-in. base.

Complete bids follow:

- (A) Pacific Pavements..... \$50,214
- (B) J. C'Shea 56,873
- (C) Dept. of Public Works..... 59,251
- (D) Lowrie Paving Co. 70,900

Unit bids follow:

	(A)	(B)	(C)	(D)
(1)	\$.21	\$.235	\$.242	\$.30
(2) .....	.25	.35	.26	.41
(3) .....	.18	.17	.18	.27
(4) .....	.25	.50	.24	.60
(5) .....	.21	.20	.22	.20
(6) .....	.20	.24	.18	.31
(7) .....	.08	.08	.06	.08
(8) .....	.14	.18	.18	.17
(9)08	.15	.08	.10
(10)13	.20	.12	.27
(11)21	.235	.255	.30
(12)25	.40	.25	.41
(13a)05	.12	.04	.18
(13b)08	.20	.06	.21

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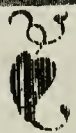


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IN THIS ISSUE



STATE CONSTRUCTION LEAGUE FORMED

SAN FRANCISCO JUNE PERMITS

TOTAL \$1,069,118

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COST \$22,500,000

BUILDING PERMITS — ADVANCE REPORTS

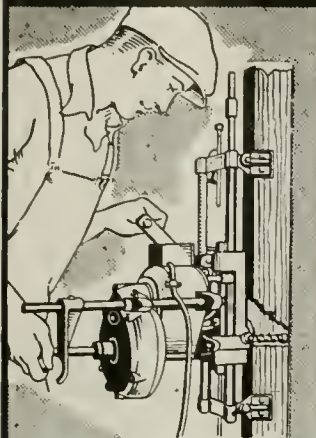
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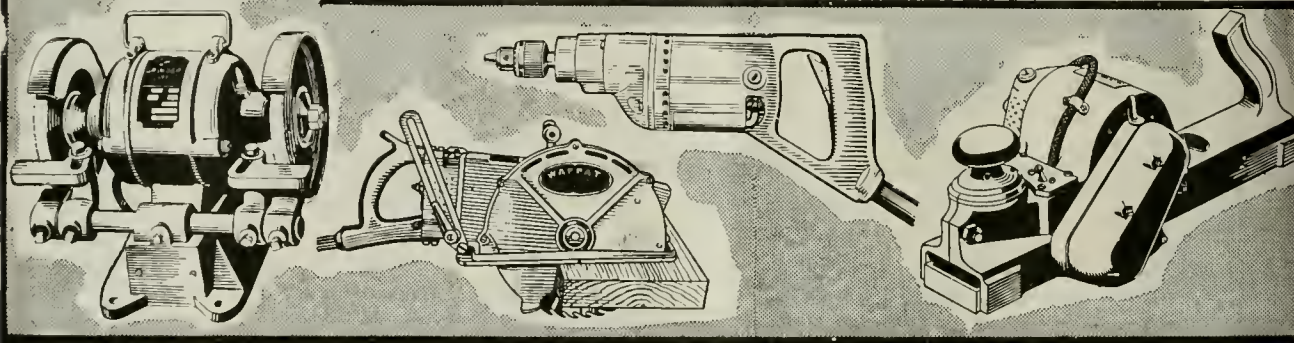
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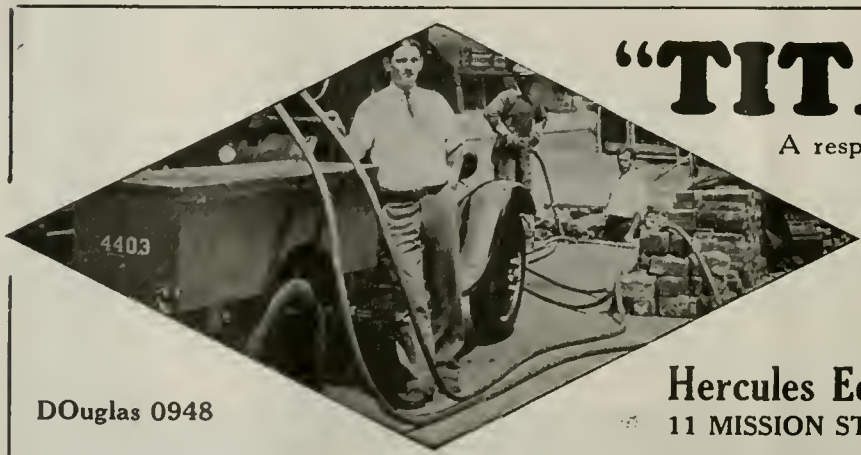
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SAM B. EUBANKS, Editor

Vol. XVI

SAN FRANCISCO, CALIF., JULY 8, 1933

No. 25

CIVIC LEADERS WILL SUPPORT BOND CAMPAIGN

Mayor To Name Committee for Issue Covering City Construction

A group of downtown business men meeting yesterday with Mayor Rossi and the Board of Supervisors told the mayor that they believe support could be found for a new bond issue in August, for the raising of San Francisco's seventy percent payment on projects for which federal aid is expected.

The proposed bond issue would be submitted to voters with specific projects listed on the ballot.

Self-liquidating projects would be definitely favored in preparing the ballot, with a view to securing the largest possible share of federal funds under the National Industrial Recovery Act.

The group, which included merchants, builders, and chamber of commerce representatives, passed a resolution suggesting that the mayor appoint a committee of 25 citizens to cooperate with the Board of Supervisors in selecting the projects to be included on the ballot.

This step, they believe, will foster public confidence in the bond issue.

The mayor announced that he will appoint the committee not later than next week. The committee and the board will immediately go over the list of possible construction jobs submitted by city department heads.

EICHLER PRESIDENT OF CREDIT GROUP

Frank H. Eichler, credit manager of the American Smelting and Refining Company, and the Federated Metals Corporation, has been elected president of the Credit Managers Association of Northern and Central California. Mr. Eichler has been chairman of the Construction Industries Credit Bureau for the past three years.

THE WEEK'S NEWS Highlights

CONSTRUCTION LEAGUE. Concerted action by principal groups engaged in construction to unify the state's industry for assistance to the Federal government in administering the National Recovery Act program was announced with formation of the Construction League of California, Northern Section. The league will take the place of the State Building Congress. Charles F. B. Roeth, chairman of the congress, has been elected temporary chairman of the league. (Story Page 6.)

BUILDING GAIN. General improvement in the building industry is shown again in permit totals from principal municipalities for the month of June. In San Francisco the total of private work was \$1,069,118, virtually twice that of May. Ten leading cities reported a total of \$4,507,000 for June compared with \$3,359,000 in June last year.

MATERIALS. Another boost in lumber prices brings the cost of Douglas Fir, No. 1, common, to \$29 per M in San Francisco, a gain of 30 percent from \$22 at which it was selling a month ago. Prices were raised \$1 during the past week. Linseed oil is up 5 cents a gallon from previous week's prices. Other principal materials showed no change.

QUIT MERGER. Withdrawal of Calaveras Cement Company from merger plans that would have created a single cement producing and marketing unit from four principal California companies leaves the status of the consolidation uncertain. William W. Mein, president of Calaveras, authorized a statement that his firm had definitely rejected the merger proposal and was preparing a new production and sales schedule to start in August.

MONTH'S BUILDING PERMITS IN S. F. TOTAL \$1,069,118

Revival of Private Work Shown by Comparative Figures

San Francisco building permits for June exceeded both in number and in value those of June a year ago.

The total for the month, is \$1,069,118 compared with \$810,226 in June, 1932. A gain is shown also over May in all classes of private work. The comparable figure for last month (excluding bay bridge awards) is \$568,312.

The largest permit of the month is that for the Bohemian Club building, estimated at \$450,000. Alteration work accounted for 475 permits with an aggregate value of \$273,919. Sixty-five permits were issued for residences to cost \$236,205. Municipal, state and Federal work amounted to about \$100,000.

Following are the classified totals:

Class	June, 1933		June, 1932	
	No. P'mts	Est. Cost	No. P'mts	Est. Cost
A	1	\$ 450,000	.....	\$ .....
C	3	8,150	7	149,215
Frames	65	236,205	64	200,509
Alterations	475	273,919	329	232,167
Public	6	30,844	11	208,534
U. S. Govt.	1	3,000	13	18,506
State	3	67,000	1	1,195
Total	554	\$1,069,118	448	\$810,226

TULARE COUNTY PLANS \$661,500 PUBLIC WORKS

Plans for a \$661,500 program of public improvements in Tulare county to be financed partially by Federal funds have been announced by the board of supervisors. The program calls for erection of a hall of records at a cost of \$114,000; detention home in Visalia, \$15,000; isolation ward, \$14,000, and nurses' home, \$10,000 at the county hospital in Tulare.

Highway work includes expenditure of \$250,000 in repair of 500 miles of secondary roads, construction of five bridges, \$33,500 and other repairs and extensions to cost \$225,000.

31 STANDARDS ADDED TO U. S. ASSN. CATALOG

Important Progress Recorded During Year by Coopera- tive Organization

The establishment during the past 12 months of 31 new national industrial standards affecting the construction, electrical, mining, oil, steel, radio, and almost every other major American industry is recorded in the American Standards Year Book published today by the American Standards Association. The year book is issued as a record of the co-operative achievement of nearly 3000 scientists and engineers representing more than 500 national technical and trade organizations in the development of a unified system of basic technical standards for industry. The year book states that this work, which was started in 1918, has gone on without abatement during the past few years despite the depression.

Daniel C. Roper, United States Secretary of Commerce, in a foreword to the Year Book points out the importance of industrial standards in commerce. "National recognition of such standards," Mr. Roper says, "will remove misunderstandings and expedite commercial transactions. Especially is this important in interstate and international trade when the buyer is unable to inspect personally and select the commodities offered by the seller."

The new national standards listed in the Year Book are:

Safety Code for Floor and Wall Openings, Railings, and Toe Boards (A12-1932).

Steel Reinforcing Bars (A47-1932)

Forms for Concrete Joist Construction Floors (A48-1932).

Rotating Air Cylinders and Adapters (B5.5-1932).

Foundry Patterns of Wood (B45.1-1932).

Plain and Thread Plug and Ring Gage Blanks (B47-1932).

Inch-Millimeter Conversion for Industrial Use (B48.1-1933).

Shaft Copulings, Integrally Forged Flange Type for Hydro-Electric Units (B49-1932).

Specifications for Impregnated Paper Insulation for Lead-Covered Power Cables (C8.10-1933).

Manufacturing Standards Applying to Broadcast Receivers (C16d-1932).

Specifications for Lake Copper Wire Bars, Cakes, Slabs, Billets, Ingots, and Ingot Bars (H17.1-1932).

Specifications for Electrolytic Copper Wire Bars, Cakes, Slabs,

NEW YORK ALLOCATION OF ROAD FUND OKEHD

A proposal for the assignment of the apportionment to the state of New York of the \$400,000,000 appropriated for highways of certain classes by the National Industrial Recovery Act, submitted to the secretary of agriculture by the state department of public works, has been approved by Acting Secretary of Agriculture R. G. Tugwell, and Secretary of the Interior Harold L. Ickes, chairman of the Special Board for Public Works.

The approved proposal of the state, signed by F. S. Greene, Superintendent of Public Works, and A. W. Brandt, Commissioner of Highways, provides for the expenditure of approximately \$12,294,000 on roads included in the approved Federal-aid highway system, \$5,570,000 on extensions of the Federal-aid system into or through municipalities, and \$4,466,000 on secondary or feeder roads. The total apportionment to the State is \$22,330,101.

Billets, Ingots, and Ingot Bars (H 17.2-1932).

Methods for Screen Testing of Ores (Hand Method) (M5-1932).

Safety Rules for Installing and Using Electrical Equipment in Metal Mines (M24-1932).

Abbreviations for Scientific and Engineering Terms (Z101-1932).

Method of Test for Carbon Residue of Petroleum Products (Z11.25-1932).

Method of Testing Gas Oils (Z 11.26-1932).

Method of Test for Expressible Oil and Moisture in Paraffin Waxes (Z11.27-32)

Definitions of Terms Relating to Petroleum (Z11.28-1932)

Methods of Test for Dilution of Crankcase Oils (Z11.29-1932)

Methods of Test for Precipitation Number of Lubricating Oils (Z11.30-1932)

Engineering and Scientific Charts for Lantern Slides (Z15.1-1932)

Approval Requirements for Flexible Gas Tubing (Z21.2-1932); for Hotel and Restaurant Ranges (Z21.3-1932); for Private Garage Heaters (Z21.4-1932); for Clothes Dryers (Z21.5-1932); for Incinerators (Z21.6-1932); for Gas-Heated Ironers (Z21.7-1932); for Conversion Burners in House-Heating and Water-Heating Appliances (Z21.8-1933)

American Recommended Practice and Use of Piping and Fittings for Installation, Maintenance, for City Gas (Z27-1933).

CITY BUREAU TO CERTIFY LABOR MAY BE CREATED

Local Groups Sponsor Ordinance Limiting Employment to Residents

A plan whereby contractors on city jobs would be required to employ only bona fide residents of San Francisco was referred by the Board of Supervisors to its Public Welfare Committee yesterday.

The proposed ordinance, introduced by Supervisor Carl W. Miles would set up a Municipal Employment Registration Bureau, with offices at the city hall, to register applicants and give them cards to certify that they have been residents of the city for one year.

A committee of eleven citizens would be appointed to urge employers to follow the plan on private as well as public works.

"More than 150 outsiders are arriving in San Francisco every day to seek employment," Miles said, "and finding it at the expense of San Franciscans."

The ordinance, which met with no opposition when placed before the Board, is sponsored by representatives of labor and employer groups, including Archie Nooney of the Building Trades Council, E. H. Vandeleur, president of the Labor Council, and Albert Boynton of the Industrial Association.

CALAVERAS PRESIDENT INJURED IN ACCIDENT

William W. Mein, president of the Calaveras Cement Company, is confined to the Hospital at Palo Alto with severe injuries received in an accident at his home in Woodside last Monday. Mr. Mein fell while pruning a tree and suffered a dislocation of the left shoulder and fracture of the left arm. Officials of the company here said it probably would be several weeks before he will be able to return to his office.

RECOMMEND FEDERAL AID FOR WATER PLAN

Contribution of \$7,370,000 in Federal money toward the initial cost of the Kennett reservoir, a unit of the state water conservation plan, is recommended by Major General Lytle Brown, chief of army engineers. General Brown recommended the inclusion of the water conservation plan in the Federal public works program. Acceptance of the recommendation would allow the state 30 percent of the \$160,000,000 estimated cost as a Federal gift.

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BURNER MAKERS ADOPT CODE FOR U. S. APPROVAL

Regulations For Industry Framed at Conference In Chicago

With a substantial majority of the industry represented, an oil burner manufacturers' conference in Chicago unanimously approved an all-industry recovery code and empowered the directorate of the American Oil Burner Association to present the recommended code to President Roosevelt under the terms of the administration's National Industrial Recovery Act, according to an announcement made by Morgan J. Hammers, president of the A.O.B.A.

While the all-industry code is the official answer of the A.O.B.A. directorate to the government mandate, Mr. Hammers explained, it represents the consensus of all the leading forces in the industry, for the code as approved by the association's board was first submitted to a round-table conference of manufacturers not as yet members of the association. The dealer division of the American Oil Burner Association, comprising a membership of 2,000, also acted and approved the measure unanimously, it was announced by R. S. Bohn, chairman of that division. The all-industry code will be submitted to the government immediately, Mr. Hammers said. "This code," Mr. Hammers said, "is set up for the purpose of increasing employment, establishing fair and adequate wages, effecting necessary reduction of hours, improving standards of labor and eliminating unfair trade practices, to the end of rehabilitating the oil burner industry and enabling it to do its part toward establishing that balance of industries which is necessary to the restoration and maintenance of the highest practical degree of public welfare."

While Mr. Hammers refused to divulge the entire content of the code since he first desires to present it to Administrator Hugh S. Johnson, he disclosed that the regulatory powers were sweeping and

EXTRA EXCAVATION ORDERED FOR BRIDGE

Directors of the Golden Gate Bridge District have authorized expenditure of \$41,717 for additional excavation for the pylons on the north side of Fort Winfield Scott. The necessity for the additional excavation was explained by Professor Charles Derleth, Jr., of the conducting board of engineers, who pointed out that these pylons will be constantly subject to tidal and wave action and that by going deeper for their foundations the possibility of erosion will be eliminated.

General Manager James Reed also has been authorized to negotiate with the Federal Government to the end of securing a portion of the \$3,300,000,000 federal construction fund for the Golden Gate Bridge. Approximately \$750,000 will be required and this amount will be secured by the District's bonds.

The federal funds, if obtained, will be used in construction of the Sausalito lateral approach road, the Francisco approach span and other important parts of the structure.

Authorization was given the general manager to appoint an illuminating engineer at a salary of \$300 a month, and a submarine engineer inspector at a salary of \$250 a month, as well as submarine divers, when needed, at the usual rates paid such workers.

that it would affect the manufacture and installation of the following units: domestic oil burners, commercial oil burners, boiler-burner units, and distillate oil burners.

In connection with the standards of business ethics and price control set up by the code, he said that no provision in it could be construed to promote monopolies, permit or encourage unfair competition, eliminate or oppress small enterprise or discriminate against small enterprises. The primary purpose of the writers of the code, he added, was to bring "the rates of wages paid within the oil burner industry to such levels as are necessary for the creation and maintenance of the highest practicable standard of living and to restore the income of enterprises within the industry to levels which will make possible the payment of such

CONTRACTORS ASK STATE INQUIRY ON MONTEREY WAGES

Protest Relief Council Campaign To Sell Labor for Low Pay

In a letter to Col. Carlos Huntington, state registrar of contractors, forty-eight contractors of Monterey, Pacific Grove and Carmel have protested against the activities of the Unemployment Relief Council of 211 Hoffman St., Monterey, which they charge is offering unfair competition to licensed contractors by doing carpentry, painting, brick and plaster work at unfair low wages.

The contractors state that the organization has been securing work on a large scale for unemployed laborers, both skilled and unskilled, the client to pay as much as he thinks fit for the work, and the payment to go directly to the council, the worker being paid in food and clothing allotments. These allotments, the contractors say, are not in proportion to the work done. Workers, it is charged, receive "demerits" from the organization if they engage in work for any outside contractor.

The council, the letter declares, has conducted an advertising campaign urging property owners not to pay more than two dollars per day to any workman.

The complainants, though they made no formal charges, pointed out that such activity has seriously damaged the business of legitimate contractors in the district who try to cooperate with President Roosevelt's policy of fair wages.

Orman Lutz, Huntington's supervisor in this district, will attend a meeting in Monterey tonight to determine if there is any ground for Huntington's office to take action.

He will be accompanied by Arthur J. Johnson, attorney for the State Labor Commission, who will ascertain if any state wage laws are being violated.

wages and avoid the further depletion and destruction of capital assets."

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110 Horsepower Diesel Engine
at a Bargain

United Commercial Co., Inc.

234 Steuart Street

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"TRANSPORTATION SPECIALISTS"

Portable Crane Service—Rigging

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Move More Dirt Faster with LE TOURNEAU Equipment

A complete line of grading machinery — designed by a contractor — developed on actual construction jobs — built to stand continuous use under the worst conditions.

ENGINEER'S CONSULTATION FREE

R. G. LE TOURNEAU, INC.

Wilson Way at Roosevelt

Stockton, Calif.

STATE LEAGUE FORMED TO AID FEDERAL PLAN

Construction Groups To Be Affiliated in Council Super-seding Building Congress

The Construction League of California to act as a coordinating agency for all groups in the state construction industry and to be identified with the Construction League of the United States was announced Saturday to be tentatively endorsed by principal professional associations of Northern California.

Similar action by corresponding groups in Southern California will be announced shortly, it is expected. The State Chamber of Commerce, through Charles F. B. Roeth chairman of the Northern Section of the California Building Congress initiated the conference in San Francisco at which the new organization was launched.

The Construction League of California, if finally endorsed by prospective member associations will supersede the California Building Congress. It will become the central organization of the construction industry, affiliated with State Chamber of Commerce, thru which the federal public works program in this state will be planned.

Mr. Roeth was elected temporary president and Floyd O. Booe, secretary-manager of the Northern California Chapter, Associated General Contractors, temporary secretary. In attendance at the conference were the following: John J. Donovan, G. F. Ashley and Rolland I. Stringham, representing Northern California Chapter, American Institute of Architects; E. L. Norberg, Dodge A. Riedy, and Chas. F. B. Roeth, Northern Section, State Association of California Architects; H. H. Hall, Walter L. Huber and Nathan A. Bowers, San Francisco section, American Society of Civil Engineers; Erle L. Cope L. H. Nishkian and J. B. Leonard, Structural Engineers Association of Northern California; George G. Pollock, J. P. Knapp and Floyd O. Booe, Associated General Contractors, Northern California Chapter, W. E. Lyons, Associated General Contractors, Alameda Co. Chapter; Jos. B. Keenan and E. H. Peterson, San Francisco Builders' Exchange; Charles S. Knight, manager, industrial development section, State Chamber of Commerce.

Telegrams offering the cooperation of the Construction League to General Hugh S. Johnson, National Industrial Administrator, and to Colonel Donald H. Sawyer, Federal Public Works Administrator, were dispatched by the organization. The president was authorized also to appoint a special committee to formulate and support state legislation conforming to the national industrial recovery act.

Following is the text of the resolution adopted by the group creating the Construction League of California, Northern Section; delegates

VOTE WAGE SCALE FOR COAST MILLS

A minimum wage scale for the lumber industry of the West of 42½ cents an hour for common labor, as part of the industry code to be presented to the Federal Government for approval has been adopted by the board of directors of the Loyal Legion of Loggers and Lumbermen.

A board, composed of 12 employes and 12 employers, reached a complete agreement at its conference in Portland, it was announced. A second wage scale, to become effective throughout the industry July 1, and to remain in effect until the industrial code is adopted, provides a minimum wage of 32½ cents an hour for common labor.

from the San Francisco Builders' Exchange being excused from voting because they had not been authorized to act for the Exchange:

WHEREAS, the National Industrial Recovery Act carrying into effect the President's program of national industrial recovery provides not only for a comprehensive plan of industrial control but also in Title II for the expansion of a great program of public works throughout the United States; and

WHEREAS, it is the President's plan that this program of public works be immediately started throughout the country as a means of providing immediate relief for unemployment; and

WHEREAS, this program of public works construction represents a national emergency during which it is desirable that the full resources of the construction industry of the United States should be made available to those who will be in charge of the administration of such a program; and

WHEREAS, every group and organization in the construction industry in the State of California is willing and anxious to cooperate in every way in connection with the rapid planning and advancement to actual construction of all phases of such public works program as it affects the State of California,

NOW, THEREFORE BE IT RESOLVED, that the services and cooperation of the organized trade associations and technical groups of Northern California are hereby offered to the President and his administration in connection with the entire program under the National Industrial Recovery Act.

BE IT FURTHER RESOLVED, that there is hereby created a Central Committee of representatives of all of said groups, parties to this resolution, to be known as the Construction League of California, Northern Section.

BE IT FURTHER RESOLVED, that representation in said Construction League shall consist of three representatives of each trade association or technical group affiliated therewith, selected by such group or association.

REARDON HEADS CANDIDATES FOR WORKS DIRECTOR

Governor Dispatches Names Of Eight Recommended to Administer State Program

Timothy A. Reardon, director of the state department of industrial relations, heads the list of eight men recommended by Governor Rolph from whom a California state public works administrator may be chosen. The list has been forwarded to Secretary of the Interior Harold Ickes, chairman of the federal public works committee.

Mr. Reardon is a member of the State Highway Commission as well as director of industrial relations and was for 18 years president of the San Francisco board of public works.

Other names on the governor's list of candidates for the position are:

Walter L. Huber, San Francisco civil engineer.

Col. Thomas M. Robbins, San Francisco, attached to the U. S. army engineer corps, Pacific division.

H. H. Cotton, San Clemente ranch manager.

Earl Lee Kelly, Redding, director of the state department of public works.

Harry A. Hopkins, Taft, chairman of the state highway commission.

John Quinn, chairman of the Los Angeles county board of supervisors.

H. A. Van Norman, chief engineer, department of water, city of Los Angeles.

WATSON IS NAMED COUNTY INSPECTOR

William Watson, Jr., of Burlingame, has been appointed San Mateo county building inspector, the first appointee to fill the office under the new charter. The appointment was made by County Manager Walter P. Kellogg.

Mr. Watson has been with the San Francisco firm of Weeks and Day. In his new position he will have charge of the organization of the county building department.

Appointment of James S. James, heretofore county surveyor, as county engineer also became effective July 1. He will have control of all road work in the county which is withdrawn from management of the supervisors under provisions of the new charter.

RENO PAY INCREASED

Reno city council has ordered a 10 per cent increase in pay for city employes to restore a portion of previous salary cuts.

Safe Construction of Los Angeles Schools Will Cost \$22,500,000, Board Estimates

To rebuild and repair Los Angeles city schools damaged in the earthquake of March 10 and to make all standing structures reasonably safe will cost \$22,500,000, it is estimated by the Los Angeles school department.

Preliminary estimates by the architectural department of the school district indicate expenditures for necessary work will amount to \$20,000,000 for labor and material and \$2,500,000 for fees to architects and engineers and advisory experts. In addition temporary housing during the period of reconstruction will cost \$3,000,000.

The physical work of reconstruction cannot be completed in less than 3 years, the report says, therefore it would not be necessary to provide all these funds immediately. About \$9,000,000 is now available to carry the work through the next year, comprising \$2,000,000 cash in building funds and \$7,000,000 unsold bonds of the last authorized issue. If these bonds cannot be disposed of in the open market, they may be sold through one of the Federal agencies.

"Ultimately, and at no distant date," the report continues, "it will be necessary to submit a bond issue to cover the additional costs. The board feels that no other course is open to it, either legally or morally, for the reason that the safety of children's lives is at stake and that in addition, the general welfare of the community, both financially and otherwise, is involved."

Technical Advisory Board

It is proposed in the report that "because of the absence of a precedent in the redesign of buildings to make them earthquake resistant and the obvious desirability of obtaining uniformity of procedure in this," that a board of technical advisors be appointed in addition to the regular architectural and constructional supervising staff now maintained in the school department. This board will be composed of an architect of broad ex-

perience in the field of architecture who is interested primarily in the general features of the assignment; a structural engineer of the highest technical skill and an engineer with a broad background of experience in actual construction.

The report discloses that there are 2491 buildings in the district, of which 253 were damaged by the earthquake. These are classified as follows: 670 masonry buildings, of which 194 or 29 percent were damaged; 127 frame buildings, of which 49 or 38.6 percent were damaged; 894 bungalows, of which 10 or 1.1 percent were damaged, and 800 miscellaneous type buildings, of which none were damaged. Of the masonry buildings, 146 or 21.8 percent "sustained major structural damage," according to the report. All other damages in the tabulation comprised broken chimneys, firewalls, gable ends, etc., but not plaster cracks.

None of the buildings had been designed with special consideration for horizontal thrust which occurs in an earthquake. However, specifications for school construction have always equaled or exceeded any code requirements in effect at time of construction. Many buildings were erected in territory since annexed to the city. Soil tests on all school sites preliminary to building have been made since 1922. Of 167 structures erected since Jan. 23, 1927, under the Los Angeles code, none sustained serious damage except to chimneys and firewalls, which were cracked in 14 instances.

A preliminary geologic report was submitted by Harry R. Johnson and H. K. Armstrong, geologists who made an intensive ten weeks' study of school sites and their relation to earth faults. It is estimated that 70 sites, or 18 percent of the total number in the Los Angeles city school district are upon or adjacent to known faults. A study and report on geologic conditions at each site will be prepared later.

COURT UPHOLDS NEW BREAKWATER PLAN

A friendly suit in the Los Angeles county superior court has affirmed modification of a contract between the City of Santa Monica and Puget Sound Bridge & Dredging Company for construction of a crib type breakwater.

Work was suspended on the crib type structure when it was found to be unsatisfactory. Thereafter the city authorized the contractor to proceed with a mound type breakwater to cost \$561,035. The court found that the city was proceeding within its authority in changing the type of work and continuing with the contract without calling for new bids. A credit of \$87,660 was allowed for work already done.

RAIL CONSTRUCTION LOAN IS REQUESTED

California and Oregon Coast Railroad Company has filed an application with the Interstate Commerce Commission and the Reconstruction Finance Corporation for a loan of \$5,718,565 to finance a proposed railroad line between Waters Creek Oregon, and Crescent City, California.

First construction on the railroad was undertaken in 1914 but was halted because of the war after only 15 miles of road had been completed. The loan application was filed jointly by Twohy Bros., contractors, who hold the railroad bonds, and C. H. Demaray, receiver.

PRODUCTION OF LUMBER HIGHER TO MEET SALES

Association Reports Industry Operations Equal 1931 Volume

New business received at the lumber mills during the week ended June 17, 1933, though 3 per cent below that shown in revised reports for the preceding week, was otherwise largest in volume since December, 1930, and lumber production was heaviest since October 1931, according to telegraphic reports to the National Lumber Manufacturers' Association, from regional associations, covering the reports of 647 leading hardwood and softwood mills. Shipments except for the preceding week were the largest since September, 1931. Hardwood orders in each of the last three weeks have exceeded those reported for any week since September, 1930.

Total orders during the week ended June 17 were 252,482,000 ft.; shipments were 208,842,000 feet; production, 174,707,000 feet. All regions showed excess of orders over output, softwood orders being 39 per cent and hardwood orders 96 per cent above production. For the 24 weeks of 1933 to date, orders were 41 per cent above production and shipments were 27 per cent above. Orders at Western Pine mills exceeded 60,000,000 ft., which was appreciably above those of any previous week since the re-organization of that association.

Compared with corresponding week of 1932, production was 47 per cent greater; shipments 44 per cent and orders 94 per cent more. All reporting regions showed orders and production in excess of last year. For the year to date, production was less than one per cent below that of similar period of 1932; shipments were 3 per cent below; orders 14 per cent above.

Unfilled orders at the mills were the equivalent of 25 days' average production. They were 85 per cent heavier than on corresponding date of last year. Gross stocks at softwood mills were 26 percent lighter.

Forest products carloadings continued to advance, totaling 24,352 cars during the week ended June 10. This was 7,278 cars above the same week in 1932 and 6,194 cars below the corresponding week of 1931.

Manufacturers of range boilers report new orders for the first five months of the year totaling 253,771 units compared with 218,141 units in the same period of 1932 and 254,632 in 1931. New orders in May were reported for 98,850 units compared with 43,422 in April and 48,813 in May, 1932. Orders on hand at the end of the month for delivery within 30 days totaled 35,160 units.

PERMITS AND CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
442	Grady	Standard	4500
443	Tonna	Luchini	3250
444	Segal	Blincoe	4000
445	Aigner	Lindsay	3900
446	Emil	Schultz	3000
447	Miller	Owner	2000
448	Weinstein	Owner	4500
449	Doelger	Owner	4000
450	Whitney	Owner	3950
451	Doelger	Owner	4750
452	Traverso	S. F.	3000
453	Cosgrove	Owner	3000

DWELLING

(442) E MAGELLAN 150 S Pacheco. Two-story and basement frame dwelling.
 Owner—D. Grady, 44 Sloat Blvd., San Francisco.
 Architect—Not Given.
 Contractor—Standard Bldg. Co., 218 Castenada St. \$4500

DWELLING

(443) S PALOU 200 E Jennings St. Two-story and basement frame dwelling.
 Owner—J. Tonna, 1261 Palou St., San Francisco.
 Architect—Not Given.
 Contractor—J. Luchini, 1466 Shafter St., San Francisco. \$3250

DWELLING

(444) E TWENTY-SEVENTH AVE. 125 S Cabrillo. One-story and basement frame dwelling.
 Owner—J. Segal, 445 15th Ave., San Francisco.
 Plans by B. K. Dobkowitz, 425 Montrey Ave., San Francisco.
 Contractor—C. O. Blincoe, 2653 15th Ave., San Francisco. \$4000

DWELLING

(445) E FAXON 100 N De Montford; one-story and basement frame dwelling.
 Owner—L. T. Aigner, 643 London.
 Architect—Not Given.
 Contractor—E. C. Lindsay, 183 Oxford St. \$3900

DWELLING

(446) W 45th AVE. 200 S Cabrillo; one-story and basement frame dwelling.
 Owner—F. Emil, care contractor.
 Architect—Not Given.
 Contractor—Schultz Const. Co., 225 Cervantes Blvd. \$3000

ADDITION

(447) 3043 CLAY ST.; addition to dwelling and dancing school.
 Owner—Miss Alys Miller.
 Architect—Farr & Ward, 68 Post St. \$2000

STRUCTURAL STEEL WORK

(448) S MARKET 300 W 6th Street; structural steel work for 7-story Class C store.
 Owner—Weinstein Co., 1041 Market St.
 Architect—Hyman & Appleton, 68 Post Street.
 Engineer—H. Rosenthal, 821 Market Street. \$1500

DWELLING

(449) W 29th AVE. 28 S Irving; one-story and basement frame dwelling.
 Owner—H. Doelger, 320 Judah St.
 Architect—Not Given. \$4000

DWELLING

(450) W 34th AVE. 82 S Kirkham; one-story and basement frame dwelling.

Owner—Whitney Inv. Co., 36th and Kirkham.
 Architect—Not Given. \$3950

DWELLING

(451) SW COR. 29th and Irving; one-story and basement frame dwelling.
 Owner—H. Doelger, 320 Judah St.
 Architect—Not Given. \$4750

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
248	Lerner	Owner	1000
249	Reynolds	Windsor	9500
250	Hasenfus	Waldman	2000
251	Johnson	Hammarberg	4000
252	Bonds	Bonds	5500
253	Walsh	Petersen	4000
254	Haller	Owner	4750
255	Eureka	Petersen	13000
256	Wilton	Clausen	2000
257	Masonic	Beckwith	16000
258	Powers	Kulchar	3000
259	City of Alameda	Owner	2500
260	Schroeder	Le Blanc	3000
260	Strong	Lossing	1000
261	Gerhard	Franzen	1100
262	United	Owner	3000
263	Pollock	Peake	3500

ALTERATIONS

(248) NO. 1205 WASHINGTON ST., OAKLAND. Alterations.
 Owner—Lerner Shops of Calif., 354 Fourth Ave., New York.
 Architect—Not Given. \$1000

RESIDENCE

(249) NO. 140 ESTATES DRIVE, PIEDMONT. Two-story 10-room residence and garage.
 Owner—L. Eric Reynolds Jr., 91 Moraga Road, Oakland.
 Architect—J. H. Ballantine, 137 Harlan Place, San Francisco.
 Contractor—Geo. Windsor, 928 Kings-ton Ave., Oakland. \$9500

SERVICE STATION

(250) NO. 5700 FOOTHILL BLVD., OAKLAND. One-story tile service station and one-story tile grease building.
 Owner—Wm. H. Hasenfus, Premises.
 Architect—Not Given.
 Contractor—A. E. Waldman, 4001 Nevil St., Oakland. \$1000 each

DWELLING

(251) E EUCLID AVE. 30 N Regal St., BERKELEY. One-story six-room frame dwelling and garage.
 Owner—Carl Johnson, 2360 Cedar St., Berkeley.
 Architect—Not Given.
 Contractor—Albert Hammarberg, 2340 Le Conte Ave., Berkeley. \$4000

DWELLING

(252) E SIDE SPRUCE ST. 50 ft N Alamo St., BERKELEY; three-story 8-room frame dwelling and garage.
 Owner and Builder—Milton S. Bonds, 914 The Alameda, Berkeley.
 Architect—W. W. Dixon, 5th Ave. and E 18th St., Oakland. \$5500

DWELLING

(253) 2906 CLEMENS ROAD, OAKLAND; one-story 5-room dwelling.
 Owner—T. J. Walsh.
 Architect—Miller & Warnecke, Financial Center Bldg., Oakland.
 Contractor—Olaf Petersen, 2626 Rhoda Ave., Oakland. \$4000

DWELLING

(254) 5300 GOLDEN GATE AVENUE OAKLAND; 1-story 6-room dwelling.

Owner and Builder—Paul H. Haller, 1825 Curtis St., Berkeley.
 Architect—Not Given. \$4750

STORE

(255) 3300 LAKESHORE AVENUE, OAKLAND; two-story brick store.
 Owner—Eureka Properties Corp., 3615 E 14th St., Oakland.
 Architect—Not Given.
 Contractor—J. E. Peterson & Son 4021 Agua Vista Ave., Oakland. \$13,000

DWELLING

(256) 1173 KEELER AVE., BERKELEY; two-story four-room frame dwelling and garage.
 Owner—Frank S. Wilton, 408 Maple Ave., Oxford, Ohio.
 Plans by Mr. Clausen.
 Contractor—P. C. Clausen, 170 Ardmore Road, Berkeley. \$2000

ALTERATIONS

(257) NW COR. 12th and Washington Sts., OAKLAND; alterations.
 Owner—Masonic Temple Assn., 12th & Washington, Sts., Oakland.
 Architect—E. T. Foulkes, 12th and Webster Sts., Oakland.
 Contractor—Herbert Beckwith, 323 Newton Ave., Oakland. \$16,000

ALTERATIONS

(258) 471-75-77 14th ST., OAKLAND; alter stores.
 Owner—Lillian D. Powers.
 Architect—Not Given.
 Contractor—S. Kulchar Co., 731 East 10th St., Oakland. \$3000

ALTERATIONS

(259) NO. 2226 SANTA CLARA AVE., ALAMEDA. Alterations on Alameda Health Center Building.
 Owner—City of Alameda.
 Architect—Not Given. \$2500

DWELLING

(260) NO. 1617 WOOD ST., ALAMEDA. One-story 5-room frame and stucco dwelling.
 Owner—Mrs. H. Schroeder, 1617 Wood St., Alameda.
 Architect—Not Given.
 Contractor—W. S. Le Blanc, 1513 High St., Alameda. \$3000

ALTERATIONS

(260) NO. 48 MOSS ROAD, BERKELEY. Alterations.
 Owner—R. Strong, Premises.
 Architect—Not Given.
 Contractor—Thos. S. Lossing, 47 Canyon Road, Berkeley. \$1000

ALTERATIONS

(261) NO. 596 APGAR ST., OAKLAND. Alterations.
 Owner—R. Gerhard, 594 Apgar St., Oakland.
 Architect—Not Given.
 Contractor—C. H. Franzen, 883 54th St., Oakland. \$1100

RADIO STATION

(262) OAKLAND AIR PORT, OAKLAND. One-story radio range station.
 Owner—United States Government.
 Architect—Not Given. \$3000

DWELLING

(263) E EUCLID AVE 50 S Redwood Terrace, BERKELEY. One-story 6-room frame dwelling.
 Owner—R. Pollock, 2479 Le Conte St., Berkeley.
 Architect—E. L. Snyder, 1663 Euclid Ave., Berkeley.
 Contractor—F. Peake, 1256 Spruce St., Berkeley. \$3500

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

No. Owner	Contractor	Amt.
92...Windeler	Bettancourt	5828
93 Mathisen	Petersen	1797

DWELLING

(92) LOT 18 BLK 24 map St. Francis Wood Exten No. 2; all work on 2-story and basement frame dwelling.

Owner—Edward H. and Mabel B. Windeler, 48 Retiro Way.

Architect—C. F. Strothoff, 2274 15th Street.

Contractor—Jos. Bettancourt, 422 San Anselmo St.

Filed July 1, '33. Dated June 30, '33.	
Frame completed	\$1457.00
Brown coated	1457.00
Completed	1457.00
Usual 35 days.....	1457.50
TOTAL COST, \$5828.50	

Bond, \$2914. Sureties, Chas. Monson, Oscar Olsen. Limit, 90 days. Plans and Spec. filed.

(93) 1171 11th AVE.; general construction on relinf. concrete garage, retaining walls and stairs.

Owner—Lena Mathisen, premises.

Architect—Not Given.

Contractor—H. L. Petersen, 731 Treat Avenue.

Filed July 1, '33. Dated June 26, '33.	
Excavation and rough work.....	\$898.50
Completion	449.25
Usual 35 days.....	449.25
TOTAL COST, \$1,797.00	
Limit, 28 days.	

STORE

(452) SE OAKDALE & MENDELL Sts. One-story Class C store.

Owner—A. Traverso, 2048 Market St., San Francisco.

Architect—Not Given.

Contractor—S. F. Constr. Co., 3159 Fillmore St., San Francisco. \$3000

DWELLING

(453) W MANCHESTER 350 N Stoneman St. One-story and basement frame dwelling.

Owner—L. J. Cosgrove, 2595 Mission St., San Francisco.

Architect—Not Given. \$3000

ALAMEDA COUNTY

29 Reynolds	Windsor	10322
30 Walsh	Petersen	4002
31 Druhe	Walker	7859

RESIDENCE

(29) ESTATES DRIVE, Piedmont; 2-story frame residence and garage.

Owner—Dr. T. Eric Reynolds, 91 Florida, Oakland.

Architect—John Knox Ballantine, 137 Harlan Place, San Francisco.

Contractor—Geo. Windsor, 928 Kingston Ave., Piedmont.

Filed June 30, '33. Dated June 27, '33. Progress payments according to schedule.

TOTAL COST, \$10,322.00
Limit, 120 days. Plans and Spec. filed.

DWELLING

(30) LOT 15 BLK 9, Fruitvale Garden Farms Tract, Oakland; one-story frame residence and garage.

Owner—T. J. and Cecile Walsh, Clemens Road, Oakland.

Architect—Miller & Warnecke, Financial Center Bldg., Oakland.

Contractor—Olaf Petersen, 3626 Rhoda St., Oakland.

Filed July 1, '33. Dated June 19, '33.	
When frame erected.....	\$1000.63
Brown coated	1000.63
Completed	1000.62
Usual 35 days.....	1000.62
TOTAL COST, \$4002.50	

Limit, 100 days. Plans and Spec. filed.

DWELLING

(31) LOT 710, Berkeley View Terrace; residence.

Owner—Mr. and Mrs. E. W. Druhe, Campus Drive, Berkeley.

Architect—H. E. Burnett, 931 Hillcrest Circle, Oakland.

Contractor—J. M. Walker, 1709 Grove St., Oakland.

Filed July 1, '33. Dated June 30, '33.	
August 10, 1933.....	\$1570
August 20, 1933.....	1570
Sept. 15, 1933.....	1570
Completion	1570
Usual 35 days.....	1579
TOTAL COST, \$7859	

Bond, \$5893. Sureties, U. S. Fidelity & Guaranty Co. Limit, 100 days. Plans and Spec. filed.

SAN FRANCISCO UNDER \$1000

SIGN, electric, \$135; 5186 Mission St.; owner, Madrid Tamale Parlor, 5186 Madrid; contractor, Novelty Elec. Co., 66 Washburn St.

REPAIR warehouse, \$400; 77 Clay St.; ownter, C. Cain, 250 12th St.

SIGN, electric, \$125; 1669 Haight St.; owner, Rhodes, 1669 Haight St.; contractor, Novelty Elec. Sign Co., 66 Washburn St.

SIGN, electric, \$225; 216 Post St.; owner, A. Liebes, 216 Post St.; contractor, Novelty Elec. Co., 66 Washburn St.

ALTER dwelling, \$750; 45 Priest St.; owner, P. Deneen, 45 Priest St.

ALTER restaurant, \$200; NE Montgomery and Jackson Sts.; owner, G. Bobbio, 1294 Gilman St.

SIGN, electric, \$150; 619 Post St.; owner, J. Landon, 619 Post St.; contractor, QRS Neon Corp., 690 Potrero Ave.

ALTER store, \$300; 632 Market St.; owner, Crocker Estate Co., Crocker Bldg.

ALTER dwelling, \$150; 1237 Grove St.; owner, Mr. Hartman, 1237 Grove St.

SIGN, electric, \$175; 3001 Mission St.; owner, Tip Top Inn, 3001 Mission St.; contractor, Novelty Electric Co., 66 Washburn St.

SIGN, electric, \$300; 1720 Van Ness Ave.; owner, Chevrolet Motor Co., 1700 Van Ness Ave.; contractor, Elec. Products Corp., 255 Golden Gate Ave.

ALTER dwelling, \$400; S Jefferson 205 W Webster St.; owner, J. Ferrarl, 666 Mission Street; contractor, J. Del Favero, 666 Mission St.

ALTER dwelling, \$700; 250 Gates St.; owner, G. McGuire, 250 Gates St.; contractor, G. T. Moore, 1458 Noe St.

ALTER dwelling, \$300; 2340 Clement St.; owner, R. Pujolar, 2340 Clement St.

SIGN, electric, \$150; 1396 La Playa St.; owner, R. Coffman, 1396 La Playa St.; contractor, QRS Neon Corp., 690 Potrero Ave.

SIGN, electric, \$150; 115 O'Farrell St.; owner, Kresteller Motor Co., 115 O'Farrell St.; contractor, Elec. Products Corp., 255 Golden Gate.

ALTER store, \$100; 220 Van Ness Ave. owner, P. J. Plerson, 1795 Sanchez St.; contractor, G. Cappelletti, 1020 Florida St.

ALTER restaurant, \$750; 5530 Geary St.; owner, White Log Tavern Co., 499 Ellis St.

ALTER restaurant, \$305; 3244 Mission St.; owner, L. B. Arnot, 552 Greenwich St.

SIGN, electric, \$200; NE Van Ness Ave. and Sacramento; owner, Chevrolet Motor Co., 1700 Van Ness Ave.; contractor, Elec. Prod. Corp., 255 Golden Gate Ave.

ALTER restaurant, \$850; 599 Sixth; owner, W. A. Wise, Premises; contractor, L. A. Hinson, 756 4th Ave.

ALTER restaurant, \$200; 242 Columbus Ave.; owner, Crocker Bank, Post and Montgomery Sts.; contractor, G. Wagner, 181 South Park.

ALAMEDA COUNTY UNDER \$1000

ALTERATIONS, \$200; 940 Pardee St., Berkeley; owner, A. Shubert, 4346 La Cresta Ave., Oakland.

ALTERATIONS and additions, \$900; 48 Mosswood Road, Berkeley; owner, R. Stung, Premises; contractor, Thos. S. Losing, 47 Canyon Road.

ALTERATIONS, \$160; 2239 Derby St., Berkeley; owner, M. Mills, 2241 Derby St.; contractor, Star Roof Corp., 1737 E-14th St., Oakland.

ALTERATIONS, \$200; 5550 Lawton Avenue, Oakland; owner, Mae E. Parkinson, Premiseh.

ADDITION, \$325; 3751 39th Avenue, Oakland; owner, Caroline A. Campbell, 2138 Carlton St., Berkeley.

ALTERATIONS, \$300; 10132 Voltaire St., Oakland; owner, Mrs. A. Conroy, 10132 Voltaire St.

ADDITION, \$350; 2123 E-24th Street, Oakland; owner, C. Johansen, 2123 E-24th St.

ALTER apartments, \$500; 5675 Miles Ave., Oakland; owner, Mrs. J. H. Schlee, 1550 Lake St., San Francisco.

SIGN, electric, \$150; 3300 Broadway, Oakland; owner, McCurrin Motor Co.; contractor, Imp Electric Sign Co., 2228 Myrtle St.

FRUIT stone, one-story, \$225; 739 E-12th St., Oakland; owner, Mary Hake, 739 E-12th St.

ALTERATIONS, \$496; 2402 Telegraph Ave., Oakland; owner, Walter Bode, 2402 Telegraph Ave.; contractor, J. B. Petersen & Son, 4021 Agua Vista Ave.

ADDITIONS and repairs, \$150; 687 6th St., Oakland; owner, Geo. Manning, 42nd St. near Grove.

ALTERATIONS and addition, \$800 each; 7917-7923 Earl St., Oakland owner, Bank of America, 12th and Broadway.

ADDITION, \$195; 615 Chetwood St., Oakland; owner, W. Ewans, 615 Chetwood St.; contractor, A. A. Anderson, 417 49th St.

FIRE repairs, \$200; 2846 Bellaire Pl., Oakland; owner, Adolph Eliason, Premises; contractor, A. H. Rose, 478 25th St.

SIGN, electric, \$350; 312 12th St., Oakland; owner, West Coast Paint Co.; contractor, Elec. Prod. Corp., 950 30th St.

SIGN, electric, \$130; 9801 E 14th St., Oakland; owner, J. Costa; contractor, Ace Elec. Sign Co., 1243 E 12th St., Oakland.

ALTERATIONS, \$150; 1025 Broadway Oakland; owner and builder, F. Ducas, 1025 Broadway, Oakland.

SIGN, electric, \$90; 117 E 12th Street, Oakland; owner Butter Kist Shops contractor, Ace Elec. Sign Co., 1243 E 12th St., Oakland.

ALTERATIONS, \$150; 2824 Telegraph Ave., Berkeley; owner and contractor, A. T. Pettey, State Bldg., San Francisco.

ALTERATIONS, \$200; 2309 Haste St., Berkeley; owner, B. Behm, 2309 Haste St., Berkeley.

SERVICE station, 1-story steel, and 1-story steel comfort station, \$700; 1970 Seminary Avenue, Oakland; owner and builder, L. F. Muhlheim Co., 6225 E 14th St., Oakland.

ALTER and add, \$300; 838 Union St., Oakland; owner and builder, A. Kunich, 838 Union St., Oakland.

ALTERATIONS \$500; 3844 Grand Ave. Oakland; owner and contractor, F. C. Turner, 2710 Durant Street, Berkeley.

BUILDING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

- | | |
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| 1.—Apartments | 11.—Ice and Cold Storage Plants |
| 2.—Bands | 12.—Power Plants |
| 3.—Churches | 13.—Public Buildings, Fire Houses and Jails |
| 4.—Factories and Warehouses | 14.—Residences |
| 5.—Flats | 15.—Schools |
| 6.—Garages and Service Stations | 16.—Banks, Stores and Offices |
| 7.—Federal Buildings | 17.—Theatres |
| 8.—Club Buildings | 18.—Wharves & Docks |
| 9.—Hospitals | 19.—Misc. Const. |
| 10.—Hotels | 20.—Misc. Supplies & Materials |

1—APARTMENTS

Sub-Contracts Awarded.
BUILDING Cost, \$15,000
BERKELEY, Alameda Co., Cal. Durant and Bowditch Sts.

Two-story and basement frame and stucco building (shingle and composition roof, gas hot air heating system, etc.) will contain reading room, apartment, committee room auditorium to seat approx. 200.

Owner—Christian Science Society, U. S., 2215 Union St., Berkeley.
Architect—H. H. Gutterson, 526 Powell St., San Francisco.

Contractor—K. E. Parker Co., 135 So. Park, San Francisco.

Roofing—Western Roofing Co., 24th & Poplar Sts., Oakland.

Plastering—Spann Bros., 2145 Ward St., Berkeley.

Reinforcing Steel—Simmons Company.
Painting—A. A. Zelinsky, 4420 California St., San Francisco.

Electric—Rochester Electric Co., 2138 University Ave., Berkeley.

Plumbing—Scott Co., 113 10th Street, Oakland.

Mill Work—Pacific Mfg. Co., Santa Clara.

Sheet Metal—Morrison & Co., 44 Duboce Ave., San Francisco.

As previously reported, wrecking awarded to Symon Bros. Wrecking Co. 22nd Ave. and E 14th St., Oakland; lumber to Smith Lbr. Co., 19th Ave. and Estuary, Oakland.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$8000
OAKLAND, Alameda Co., Calif. 1438 Lakeshore Blvd.

Alterations and additions to apts.
Owner—John Souza, 1438 Lakeshore Blvd., Oakland.

Architect—Not Given.
Contractor—Merwin P. Rose, 6329 Shattuck Ave., Oakland.

Heating and Plumbing—E. O. Dryer, 5435 Claremont Ave., Oakland.

Painting—Pacific Painting & Decorating Co., 5414 Telegraph Avenue, Oakland.

Millwork—Hildebrand Planing Mill, 2501 Union St., Oakland.

Plastering—Fred Williams, 5329 Normandie St., Oakland.

Electric—W. E. Pabfield, Oakland.

Concrete—L. M. Rasmussen, 1442 102d Ave., Oakland.

Lumber—Smith Lbr. Co. of Oakland, 19th Ave. at Estuary, Oakland.

Bids will be taken on composition roofing, brick work, flooring.

Plans Being Figured—Bids Close July 11, 12 Noon.

ADDITION Cost, \$8000
SAN FRANCISCO. Twenty-sixth

Ave. and Lake Street.

One-story frame addition to apartments (2 5-room apts.) electric refrigeration, hardwood floors, tiled baths, etc.

Owner—Mr. Luddecke, % Architect.
Architect—C. O. Clausen, 742 46th Ave. San Francisco.

Following will submit bids:

A. D. Disston, Hearst Bldg.
O. K. Holt, 3957 Army St.
J. Harold Johnson, Hearst Bldg.
C. L. Wold, 693 Mission St.
J. S. Malloch, 666 Mission St.
Ira Coburn, 2048 Market St.

4—FACTORIES & WAREHOUSES

Contract Awarded.
ADDITION Cost, \$50,000
CHOWCHILLA, Madera Co., Cal.

Addition to plant (construct new milk dryer building and boiler rooms) steel construction on conc. bases, new machinery and equipment.

Owner—Danish Creamery Association, Chowchilla.

Architect—W. D. Coates, Jr., Rowell Bldg., Fresno.

Contractor—R. C. Brown, Chowchilla.
Well Drilling—George Ritchie, Chowchilla.

Sub-Contracts Awarded.
PLANT Cost, \$50,000
SAN FRANCISCO, Washington St.

Two-story reinforced concrete printing plant.

Owner—Edward Barry Co., 32 Clay St.
Architect—H. A. Minton, 525 Market Street.

Engineer—L. H. Nishkian, 525 Market Street.

Contractor—David Paganini, 519 California Street.

Piling—M. B. McGowan, 74 New Montgomery Street.

Reinforcing Steel—W. S. Wetenhall, 17th and Wisconsin Sts.

Plans Being Figured.
DAIRY Cost, \$50,000
SEATTLE, Wash. East Main Street bet. 11th and 12th.

One- and two-story reinforced concrete dairy (100x200 ft.) industrial type building, tar and gravel roof, high pressure steam system, oil burner, machinery, etc.

Owner—Not Given.
Architect—Claussen and Claussen, Guardian Bldg., Seattle.

Bids are being taken for the general construction only. Bids on the plumbing, heating and electrical work will be asked later. Complete cost of project including cost of the machinery, etc., will be approximately \$125,000.

SAN DIEGO, Cal.—Consolidated Aircraft Corp., Major Reuben H. Fleet, president, Buffalo, N. Y., has signed a 50-year lease on twenty acres of land at Lindbergh Field, San Diego, where they will erect a large manufacturing plant. The corporation's entire operations are to be transferred from their plants at Buffalo and Tonawanda. Plans are now under way for the buildings to be erected on the site. The main structure will cover an area of 300x1500 ft. The San Diego harbor department will install sewage and water mains to the site and build spur tracks.

Planned.
BREWERY Cost, \$100,000
CHEHALIS, Washington.
New brewery.

Owner—Canny Brewing Co. (James E. Canny, President), 1927 Third St., Seattle, Wash.
Architect—Not Given.

Preparing Working Drawings.
MFG. PLANT Cost, \$500,000
ELMHURST, Alameda Co., Cal. Jones Avenue.

Group of four 1-2- and 3-story steel frame and brick buildings for manufacturing plant (tile roof, steel sash, etc.)

Owner—Standard Brands, Inc., 595 Madison Ave., New York City.
Architect—Bliss & Fairweather, Balboa Bldg., San Francisco.

Engineer—G. J. Patitz, 595 Madison Ave., New York City.

Contracts Awarded.
ALTERATIONS Cost, \$2000
SAN FRANCISCO, 16th and Utah Sts.
Alterations to 1-story brick Class C factory (painting, freight elevator, wiring, etc.)

Owner—George E. Bennett.
Engineer—L. H. Nishkian, 525 Market Street.

Contractor—Jas. Hjul, 128 Russ St.

Elevator—Otis Elevator Co., 1 Beacon

Plumbing—W. J. Monihan Co., 1502 Fulton St.

Electric—Scott-Buttner Co., 19 Grand Ave., Oakland.

Fencing—Kamlan Fence Co., 351 Bryant Street.

Electrical Contract Awarded.
PLANT Cont. Price, \$19,030
VISALIA, Tulare Co., Cal. Ben Maddox Way.

One-story and basement walnut packing plant (120x90 ft.) several mezzanine floors, concrete foundations basement floor and loading platform, wood frame construction, roofing, sheet metal skylights, redwood siding, wood sash, factory grade maple main floors, toilets.

Owner—Sequoia Walnut Growers Association (Fletcher Ayres, President) Visalia.

Architect—Albert C. Martin, Higgins Bldg., Los Angeles.

Contractor—J. J. Bedel, Visalia.
Electric—Exeter Electric Co., Visalia.

LOS ANGELES, Cal.—Norman F. Barber, Pacific Finance Bldg., Los Angeles, at \$9,886 awarded contract by the State Highway Commission for the erection and completion of a maintenance station building in Los Angeles County at Los Alamos, about nine miles south of Gorman, consisting of the following group of buildings and appurtenances; superintendent's cottage, cookhouse, bunkhouse, truck shelter, blacksmith shop, gasoline and oil house, generator house, septic tank and leaching field, station sign, fencing, electric distribution system, water and gas pipe and connections.

CULVER CITY, Los Angeles Co., Calif.—Old Mission Brewing Co., D. A. Pepp and F. E. Keeler, Corporation Bldg., Los Angeles, has been granted a special permit by the Culver City Council to construct a brewery at the corner of Washington Blvd. and David Ave., Culver City. Plans are being prepared by owner's engineering department. Will be a reinforced concrete structure, 180x150 feet in area and 60 feet above ground at highest point. Cost \$150,000. Construction to be under way during July.

Planned.
BREWERY Cost, \$400,000
PORTLAND, Ore. Nicolai Street bet. 22nd and 23rd Sts.; two-acre site. Modern brewery.
 Owner—Oregon Breweries, Inc., (Jas. E. Edmiston, president).
 Plans by L. Ullrich, Smith Tower Annex, Seattle.

SANTA BARBARA, Calif.—Santa Barbara Brewing Corp. has filed articles of incorporation in the Santa Barbara county clerk's office. The corporation has been formed to engage in the general brewery business, according to the articles. The board of directors is composed of Henning Bruhn, Capt. W. C. Merkel, Jack W. Tarrant and B. C. Smith.

Contract Awarded.
BAKERY Cost, \$6500
SAN JOSE, Santa Clara Co., Cal. S of 87 N-San Pedro Street.
 One-story brick and frame bakery (38x135 ft.) brick front, overhead doors, 15-year built-up felt and gravel roof, concrete floors with maple top, etc.
 Owner—Attilio, John and Augustine Ferrari, San Jose.
 Architect—Charles McKenzie, Twohy Bldg., San Jose.
 Contractor—W. M. Caldwell, 1241 Hedding St., San Jose.

Owner Taking Bids.
BUILDING Cost, \$14,000
SAN JOSE, Santa Clara Co., Cal. No. 201 W-Julian Street.
 One-story and basement reinforced concrete and frame cooperage (90 by 124 ft.) concrete floors, 15-year built-up roof with mineral top, etc.
 Owner—Henry Lorentz, 201 W. Julian St., San Jose.
 Architect—Charles McKenzie, Twohy Bldg., San Jose.

Owner Taking Mechanical Bids.
BREWERY Cost, \$275,000
OAKLAND, Alameda Co., Cal. Location not given.
 Reinforced concrete brewery (100,000 barrel capacity per year) 150 barrel kettles, etc.
 Owner—Samarkand Brewing Co., 893 Folsom St., San Francisco.
 Architect—O'Brien Bros. and W. D. Peugh, 333 Montgomery St., San Francisco.
 Directors of the company include J. P. Rettenmayer, Paul L. Schmidt, Frank M. Kenny, Lee M. Olds, Philip H. Hess, L. A. Enge and Walter K. Olds, all of San Francisco.

Planned.
MAINTENANCE STA. Cost, \$—
NAPA, Napa Co., Calif.
 Highway maintenance station.
 Owner—State of California.
 Architect—Not Given.
 Proposed project is in a very preliminary stage.

Bids Rejected.
CREAMERY Cost, \$—
SAN FRANCISCO. Stockton St. and Pard Alley.
 Two-story and basement reinforced concrete creamery.
 Owner—L. Giannone, 225 Columbus Avenue.
 Plans by Peter Canali, 65 Columbus Ave., Burlingame.
 Lessee—Sonoma Mission Creamery.
 Plans will be revised and new bids asked.

Contract Awarded.
ADDITION Cost, \$11,903
SANTA CLARA, Santa Clara Co., Cal.
 Addition to walnut packing plant.
 Owner—Santa Clara Walnut Growers Co., Santa Clara.

Plans by William D. Lotz, 35 W-San Carlos St., San Jose.
 Contractor—Neves & Harp, 891 Harrison St., Santa Clara.

6—GARAGES & SERVICE STATIONS

Contract Awarded.
SERVICE STATION Cost, \$2500
OAKLAND, Alameda Co., Calif. 5700 Foothill Blvd.
 One-story tile service station and 1-story tile grease building.
 Owner—Wm. H. Hasenfus, 5700 Foothill Blvd., Oakland.
 Architect—Not Given.
 Contractor—A. E. Waldman, 4001 Nevada St., Oakland.

WASHINGTON, D. C.—T. Johans, 2020 15th St., S. E., at \$6970 submitted low bid to Bureau of Yards & Docks, Navy Dept., Washington, D. C., for a gasoline filling station at the Naval Air Station, Sunnyvale, under Spec. No. 7301. Work involves concrete and asphalt macadam pavements, concrete construction, tile and built-up roofing, piping and accessories for gasoline supplies:
 Following bids received:
 Theo. Johans, S. F. \$6,970
 Dinwiddie Const. Co., S. F. 7,430
 Neves & Harp, Santa Clara 8,000
 Herman Lawson, S. F. 8,260
 F. C. Amoroso & Sons, S. F. 8,400
 E. T. Lesure, Oakland 9,300
 Bids held under advisement.

Contract Awarded.
SERVICE STATION Cost, \$5000
SAN RAFAEL, Marin Co., Cal.
 One-story brick service station (brick walls, full tile roof, concrete floors, etc.)
 Owner—Frank H. McKeivitt, 2335 Leavenworth St., San Francisco.
 Plans by C. M. Cook.
 Contractor—Marin Building Co., San Rafael.

7—FEDERAL BUILDING

Preparing Working Drawings.
POST OFFICE Cost, \$108,000
SOUTH PASADENA, Los Angeles Co., Cal. Fremont Ave. and El Centro.
 One-story and basement post office building (96x95).
 Owner—United States Government.
 Architect—Marsh, Smith and Powell, Architects Bldg., Los Angeles.

Preparing Working Drawings.
POST OFFICE Cost, \$99,000
SAN GABRIEL, Los Angeles Co., Cal. U. S. post office building.
 Owner—United States Government.
 Architect—Scott Quintin, 418 N California St., San Gabriel.

Planned.
POST OFFICE Cost, \$105,000
PITTSBURG, Contra Costa Co., Cal. Class A post office building.
 Owner—United States Government.
 Architect—Not Selected.
 A recommendation has been made that \$105,000 be appropriated for the building.

Contract Awarded.
ADDITION Cost, \$35,000
JUNEAU, Alaska.
 Three-story reinforced concrete addition to hospital (78x40) X-ray laboratory, surgery rooms, ultra-violet ray laboratory, etc.
 Owner—Sisters of St. Anns, Juneau.
 Architect—F. A. Naramore and C. J. Brady, associated, Central Bldg., Seattle.
 Contractor—Warrack Const. Co., McDowell Bldg., Seattle.

SAN DIEGO, Cal.—M. H. Golden, 404 California Bank Bldg., San Diego, has been awarded a contract by the Bureau of Yards and Docks, at \$40,000, for the third unit of steam heating system under construction at the Naval Training Station, San Diego. The third unit consists of laying connecting mains to all buildings at the station.

WASHINGTON, D. C.—Until July 12 (date postponed from July 5) bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., for landscaping at the U. S. Naval Air Station, Sunnyvale, Calif.; Spec. No. 7255.

WASHINGTON, D. C.—Walter G. Warren Co., 363 E Ohio St., Chicago, at \$713 awarded contract by Treasury Department for furnishing and installing interior lighting fixtures in the U. S. post office at Redlands, Calif.

WASHINGTON, D. C.—Pacific Painting and Decorating Co., 5414 Telegraph Ave., Oakland, at \$1,789 was awarded contract by Treasury Department for painting the plaster, etc., in the U. S. post office building at Berkeley, Calif.

WASHINGTON, D. C.—The following are additional contractors who have procured plans for the purpose of submitting bids to the Treasury Department on July 24 in connection with the construction of the U. S. post office at Logan, Utah:
 Chambliss Co., Inc., Shoreham Bldg. Washington, D. C.
 S. W. Rindfleisch, 220 N Broadway, Milwaukee, Wis.
 Capion Const. Co., Ogden, Utah.
 Wickes Engr. & Const. Co., Des Moines, Ia.
 James J. Barke Co., Kearns Bldg., Salt Lake City.
 Libby & Libby Co., 244 2nd Ave. S., Minneapolis, Minn.
 John H. Moses, Logan, Utah.

WASHINGTON, D. C.—The following are additional contractors who have procured plans for the purpose of submitting bids to the Treasury Department on July 17 for the construction of a two-story quarantine building at San Pedro for the U. S. Government:
 Rowsey & Boyd, 458 S Spring St., Los Angeles.
 I. M. Bay, 798 7th St., San Bernardino, Cal.
 J. F. Kohler, 932 S Rimpau Blvd., Los Angeles.
 Eric Lang Const. Co., 3901 Medford St., Los Angeles.
 John T. Bibb, 231 N Central, Glendale, Cal.
 David J. Reed, 6348 Colgate Ave., Los Angeles.
 Willard Lutz, 1630 Lyman Place, Los Angeles.
 Gene B. Foster, 1772 N Sycamore Ave., Los Angeles.
 John Strona, Philadelphia and East 2nd Ave., Pomona, Calif.
 Mitty Bros., 501 Architects' Bldg., Los Angeles.
 Jacobson & Jacobson, 2130 Princeton Ave., Los Angeles.
 H. Mayson, 9315 S Roper St., Los Angeles.
 Orndorff Const. Co., 1033 N Cahuenga Blvd., Los Angeles.

TUCSON, Ariz.—Julius A. Peterson, Warrensburg, Mo., submitted low bid to the Treasury Department on June 30. at \$2300, for painting plaster in the United States Post Office at Tucson. Other bids were Wm. Wilsons & Sons, Atlanta, Ga., \$4680; Pima Pipe Co., Tucson, \$4900; Arizona Paint Co., Tucson, \$5500; M. M. Sundt Constr. Co., Tucson, \$6300.

SAN YSIDRO, San Diego Co., Cal.—Until Friday, July 14, bids will be received by the Division of Supply, Treasury Dept., Washington, D. C., for ten Venetian blinds to be installed in the border station at San Ysidro. Proposal 9247.

8—CLUB BUILDINGS

Wrecking Contract Awarded.
CLUB Cont. Price, \$574,000
SAN FRANCISCO, NE Taylor and Post Streets.
 Four-story Class A brick and terra cotta club, gymnasium, dormitory dining room, kitchen, elevators.
 Owner—Bohemian Club (Timothy Healy, Secretary).
 Architect—Lewis P. Hobart, Crocker Building.
 Structural Engineer—W. P. Day, Financial Center Bldg.
 Mechanical Engineer—Atkins & Parker, Hobart Bldg.
 Contractor—Dinwiddie Construction Co., Crocker Bldg.
Wrecking—Symon Bros. Wrecking Co., 1435 Market St.
 Other awards reported June 22.

9—HOSPITALS

To Be Done By Day's Work.
ALTERATIONS Cost, \$3000
ALAMEDA, Alameda Co., Calif. 2226 Santa Clara Avenue.
 Alterations to Health Center Bldg.
 Owner—City of Alameda.
 Plans by Engr. Dept. of Owner.

Preparing Plans.
SANATORIUM Cost, \$—
PHOENIX, Arizona.
 Three-story sanatorium (adobe walls) 100 rooms.
 Owner—Desert Park Sanatorium, Inc. (John Beesley, president).
 Architect—W. T. Evans, Scottsdale, Arizona.
 Construction is scheduled to start about Sept. 1.

SAN FRANCISCO—No bids were received by the Department of Public Works for refinishing floors in the Superintendent's quarters in the San Francisco Hospital.

10—HOTELS

Preparing Working Drawings.
HOTEL-STORE Cost, \$35,000
GALT, Sacramento Co., Calif. Fourth Street.
 Three-story Class C reinforced concrete hotel and store building (32 rooms and baths, eight 2-room apts.) composition roof, air cooling system, steam heat, circulating ice water and electric refrigerators; six stores.
 Owner—Louis Alberman, 213 4th St., Galt.
 Architect—Jens C. Petersen, 826 26th St., Sacramento.
 Bids will be asked in about six weeks.

Heating Bids Being Taken.
IMPROVE HOTEL Cost, \$20,000
STOCKTON, San Joaquin Co., Calif. East Weber Street.
 Improvements to hotel (re-decorate entire building, new cooling system, all 30 new shower baths).
 Owner—McDonough Estate, % Baldwin and Howell, 318 Kearny St., San Francisco.
 Heating bids are now being received by Mr. McDonough.
 As previously reported, plumbing awarded to O. H. Chain, 41 S Sutter St., Stockton; electric to C. J. Franke, 748 E Weber St., Stockton; ventilating system to Atlas Heat. & Vent. Co., 557 4th St., San Francisco; shower baths, etc., to O. H. Chain, 41 S Sutter St., Stockton.

Contract Awarded.
ALTERATIONS Cost, \$5000
FRESNO, Fresno Co., Cal. Broadway and Merced Street.
 Alterations to hotel.
 Owner—Hotel Fresno Company, Prem.
 Architect—Not Given.
 Contractor—J. T. Cowan, 1355 North Van Ness Ave., Fresno.

12—POWER PLANTS

HAYWARD, Alameda Co., Cal.—City Council considers report on proposed municipal light and power distributing system, estimated cost \$240,000. Edward K. Hussey, Syndicate Bldg., Oakland, engineer.

HANFORD, Kings Co., Cal.—City council considers proposed plan to survey gas, electric and water systems with a view to determining feasibility of municipal ownership.

LOS ANGELES, Cal.—The Board of water and power commissioners are reported to be completing negotiations for the purchase of properties of the Southern Sierras Power Co. in the Mono Basin, Owens Gorge and Owens Valley. The settlement, however, depends upon the arrangements that can be made with the city council as to payment of interest and sinking fund charge on the bonds to be issued to finance the projects. The cost of the Mono Basin project is estimated at \$13,350,000 and this cost was included in the \$38,000,000 bond issue voted several years ago. The cost of the storage dam, Mono tunnel, conduits, etc., is estimated at \$7,760,000. With the properties to be acquired, the total cost is fixed at \$13,350,000.

CLOVIS, Fresno Co., Cal.—The city council plans survey for municipal electric distribution system, and appoints Edward K. Hussey, Syndicate Bldg., Oakland, engineer on the project. Finances will be obtained through the National Industrial Recovery Act.

13—PUBLIC BUILDINGS FIRE HOUSES & JAILS

BAKERSFIELD, Kern Co., Cal.—Proposed construction of a Bakersfield civic auditorium at a cost ranging between \$250,000 and \$500,000, depending on financial assistance available under the National Industrial Recovery Act, will be given consideration at a special meeting of directors of Bakersfield Chamber of Commerce. Estimates on the probable cost of such a building will be presented by local architects, plans contemplating an auditorium capable of seating approximately 3500 persons.
2001)

SAN FRANCISCO—Pacific Electric Mfg. Co., 5815 Third St., at \$16,890 (swinging doors) and \$19,490 (sliding doors) submitted low bid to Department of Public Works for locking device for cell door at the Jail at Sneath Ranch for the City and County of San Francisco. Only other bid was submitted by the Judson Pacific Co., at \$38,727. Bids held under advisement.

SANTA MONICA, Los Angeles Co., Cal.—Santa Monica will request federal aid for financing the following building projects: Incinerator, \$75,000; city pound, \$5000; Clover Field airport improvements, \$50,000; industrial workshop, \$20,000; police department substation, \$5000; lifeguard station, \$5000; glass covering for Ocean Park plaza, \$30,000; automobile parking pier \$25,000; additional toilets along the beach, \$20,000. Most of these proj-

ects, according to city officials, may be termed self-liquidating.

SANTA CLARA COUNTY, Calif.—Santa Clara county supervisors will request a \$350,000 loan from the Reconstruction Finance Corp. to finance construction of a new county jail and additions at the almshouse.

Sub-Contracts Awarded.
JAIL Cont. Price, \$359,953
SNEATH RANCH, San Mateo County. Seven-story men's jail building and 2-story women's jail bldg. (Class B reinforced concrete construction tar and gravel roof, concrete floors, mastic finish in cell block, steel cells, steel sash, steam heat, ventilating system, laundry, kitchen, sewage disposal plant, farm group).
 Owner—City and County of San Francisco.
 Architect—Albert F. Roller, Crocker First National Bank Building and Dodge Riedy, Pacific Bldg., San Francisco.
 Contractor—MacDonald & Kahn, Financial Center Bldg., San Francisco.

Fencing—Anchor Post Fence Co., 160 Fifth St., San Francisco.
Sheet Metal—Guilfooy Cornice Works, 1234 Howard St., San Francisco.
 As previously reported lumber contract awarded to Chas. Nelson Lbr. Co., 230 California St., San Francisco; grading to Sibley Grading & Teaming Co., 165 Landers St., San Francisco
Kitchen Equipment—Dohrmann Hotel Supply Co., 972 Mission St.
Flex Wood—Lilly & Crowley, Inc., 90 Townsend St.
Metal Shelving, Lockers and Counters—Munthe Equipment Co., 7 Front St.
 Other awards will be made shortly.

SAN BERNARDINO, Calif.—City of San Bernardino has included in a list of construction projects to be presented for federal aid an item of \$200,000 for a new city hall. A municipal plunge, to cost, \$50,000, is also included in the list.

14—RESIDENCES

Sub-Contracts Awarded.
RESIDENCE Cost, \$5000
OAKLAND, Alameda Co., Cal. Clemens Road.
 Two-story frame and stucco residence (6 rooms) Spanish type, tile and composition roof, gas heating system, hardwood floors, etc.
 Owner—T. J. Walsh.
 Architect—Miller & Warnecke, Financial Center Bldg., Oakland.
 Contractor—Olaf Petersen, 1937 East 15th St., Oakland.
Lumber—Melrose Lumber and Supply Co., 1201 46th Ave., Oakland.
Concrete—H. Ensor Buel, 2927 Lorina St., Berkeley.
Electric—Kerr & Clifford, 3525 East 14th St., Oakland.
Plastering—O. Davis, 4284 Detroit Avenue, Oakland.
Painting—D. E. O'Brien, 2151 Buena Vista Ave., Alameda.
Excavating—Peter Ratti, 3430 E 17th St., Oakland.

Contract Awarded.
RESIDENCE Cost, \$4000
SAN JOSE, Santa Clara Co., Cal. 556 Willis Avenue.
 One-story and basement frame and stucco residence (6 rooms).
 Owner—Mrs. Mary Battaglia, 503 W William St., San Jose.
 Plans by L. C. Rossi, Commercial Bldg., San Jose.
 Contractor—V. J. Sunzeri, 176 N 31st St., San Jose.

Plans Being Figured—Bids Close July 10th.

RESIDENCE Cost, \$—
BERKELEY, Alameda Co., Cal.
 Two-story and basement frame and brick veneer residence (10 rooms and 3 baths); tile roof, steam and oil burning system, tiled baths, etc.

Owner—Professor Frederick Paxson.
 Architect—E. L. Snyder, 2101 Addison Ave., Berkeley.
 Following will submit bids:
 C. Dudley DeVelbiss, 1250 Turk St., San Francisco.
 J. M. Walker, 1709 Grove St., Berkeley.
 F. W. Confer, 5730 Keith Ave., Berkeley.
 Beckett & Wight, 722 Scenic Ave., Berkeley.

Plans Being Figured—Bids Close July 11th.

RESIDENCE Cost, \$—
SAN FRANCISCO, Marina District.
 Two-story and basement frame and stucco residence (8 rooms and 3 baths); tile roof, gas heating system, tiled baths, hardwood floors, etc.

Owner—Dr. Brusco.
 Architect—Charles Strothoff, 2274 15th St., San Francisco.
 Clinton Stephenson Constr. Co., 550 Montgomery St., is figuring the plans and desires sub-bids on all portions of the work.

Contract Awarded.

RESIDENCE Cost, \$3000
VORDEN, Sacramento Co., Cal. Reclamation District 571, Sacramento River.
 One-story frame and stucco residence (6 rooms) shingle roof, electric heat, hardwood floors, etc.
 Owner—Mrs. Russell.
 Private plans.
 Contractor—George Swanstrom, 1615 78th Ave., Oakland.

Additional Sub-Contracts Awarded.

RESIDENCE Cost, \$6500
OAKLAND, Alameda Co., Calif. 5733 Ross Street.
 One-story and basement frame and stucco residence (6 rooms).
 Owner and Builder—Ernest W. Urch, 1924 50th Ave., Oakland.
 Plans by Owner.
Plumbing—J. A. Fazio, 402 Castro St., Oakland.
Electric—Fred Schmitt, 402 Moss Ave., Oakland.
Steel Sash—Michel & Pfeffer, Tenth and Harrison Sts., San Francisco.
 Bids for other portions of the work are being taken

Contract Awarded.

RESIDENCE Cost, \$3650
SAN RAFAEL, Marin Co., Cal.
 One-story frame and stucco residence
 Owner—R. J. Roix, 3 Palona Ave., San Rafael.
 Architect—Not Given.
 Contractor—Joseph Linggi, Sir Francis Drake Blvd., Fairfax.

Contract Awarded.

RESIDENCE Cost, \$3645
HEALDSBURG, Sonoma Co., Cal.
 Brown and Sherman Sts.
 One-story and basement frame and stucco residence.
 Owner—Mrs. Mary Gromo, 733 University Ave., Healdsburg.
 Architect—William Herbert, Rosenberg Bldg., Santa Rosa.
 Contractor—W. Henry Chaney, 134 Sherman St., Healdsburg.

Sub-Bids Being Taken.

RESIDENCE Cost, \$7500
SAN FRANCISCO, Mountain Spring Ave. (Clarendon Heights).
 Two-story and basement frame and stucco residence (8 rooms and 2

baths); tile roof, stucco interior, gas warm air heating system, Congoleum materials for baths, tiled showers, etc.

Owner—Withheld.
 Architect—Harvey E. Harris, 38 San Fernando Way, San Francisco.
 Contractor—Chas. A. Pratt, 270 Turk St., San Francisco.

Plans Being Prepared.

RESIDENCE Cost, \$10,000
SAN FRANCISCO, Marina Blvd.
 Two-story frame and stucco residence (9 rooms and 3 baths) some brick work, flat French tile roof, vapor heating system, tiled baths, hardwood floors, etc.
 Owner—Withheld.
 Architect—Harvey E. Harris, 28 San Fernando Way, San Francisco.

Plans Being Prepared.

RESIDENCE Cost, \$—
OAKLAND, Alameda Co., Calif. Wildwood Gardens.
 One-story and basement frame and stucco residence (6 rooms) shake roof, hot air heating system, hardwood floors, tiled bath, etc.
 Owner—Withheld.
 Architect—W. R. Yelland, Financial Center Bldg., Oakland.
 Bids will be asked shortly from a selected list of contractors.

Sub-Contracts Awarded.

RESIDENCE Cost, \$—
LOS ALTOS, Santa Clara Co., Calif.
 One-story rustic residence (5 rooms) double garage.
 Owner—Withheld.
 Architect—Not Given.
 Contractor—Walter H. Anderson, 1014 Doris Court, Oakland.
Plumbing—Victor Richt, 3258 Thompson Ave., Alameda.
Brick—Chas. Simpson, 2335 Calhoun St., Alameda.
Plastering—Nicol & Dorcey.
Lumber—Loop Lbr. Co., Broadway & Blanding, Oakland.
Cabinet Work—Built-In Fixture Co., 2608 San Pablo Ave., Berkeley.
Sash and Doors—Western Door and Sash Co., 5th and Cypress, Oakland.

Sub-Contracts Awarded.

RESIDENCE Cost, \$5000
OAKLAND, Alameda Co., Calif. 6178 Rockridge Blvd.
 Two-story frame and stucco residence (six rooms).
 Owner and Builder—Paul H. Haller, 5871 Buena Vista Ave., Oakland.
 Architect—Not Given.
Lumber—Swift Lbr. Co., Inc., 340 29th Ave., Oakland.
Plumbing—Chester Bray, 5941 Bromley Ave., Oakland.
Plastering—Ralph Tyler, 7203 Spencer St., Oakland.
Roofing—Camisa Bros., 1217 Central Ave., Alameda.
Electric—E. L. Reed, 2541 Seminary Ave., Oakland.
Concrete—Louis Lovisone, 5506 Broadway St., Emeryville.
Brick—G. E. Marshall, 4539 Virginia Ave., Oakland.

Plans Completed.

RESIDENCE Cost, \$15,000
SAN FRANCISCO, St. Francis Wood.
 Two-story and basement frame and stucco residence (8 rooms and 3 baths) slate roof, gas hot air heating system, hardwood floors, tiled baths, etc.
 Owner—Withheld.
 Architect—Irvine & Ebbetts (R. R. Irvine, architect) 2048 Market St.
 Bids will be asked shortly.

Plans Being Figured.

RESIDENCE Cost, \$3500
PASTIEMPO, Santa Cruz Co., Calif.
 One-story brick veneer residence (4 rooms).

Owner—Marlan Hollins.
 Architect—Clarence Tantau, 210 Post St., San Francisco.

Residence will be erected at the entrance to Pastiempo. Bids are being received by the Pastiempo Beach Club Cypress Point, Santa Cruz.

Bids Opened.

RESIDENCE Cost, \$—
PALO ALTO, Santa Clara Co., Calif.
 Two-story frame and stucco residence (6 rooms, 2 baths) tile roof, gas heating system, hardwood floors, tiled baths, etc.
 Owner H. S. Clickford.
 Architect—Birge M. Clark, 310 University Ave., Palo Alto
 Low Bidder—R. C. Knight, Mt. View.
 Following bids received
 R. C. Knight, Mt. View.....\$6,630
 L. E. Klingham, Palo Alto..... 6,834
 Wells P. Goodenough, Palo Alto 6,839
 E. J. Schmalling, Palo Alto..... 6,840
 Bids held under advisement.

Contract Awarded.

RESIDENCE Cost, \$8000
BERKELEY, Alameda Co., Cal. Campus Drive.
 Two-story frame and stucco residence (8 rooms) Colonial-Monterey type.
 Owner—E. W. Druhe.
 Architect—H. E. Burnett, 931 Hillcroft Circle, Berkeley.
 Contractor—J. M. Walker, 1709 Grove St., Berkeley.

Plans Being Prepared.

RESIDENCE Cost, \$6500
CONTRA COSTA CO., Calif. Woodmont.
 One-story and basement frame and stucco residence (6 rooms) shingle roof, gas heating system, metal sash, hardwood floors, etc.
 Owner—Withheld.
 Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.

Plans Being Prepared.

RESIDENCE Cost, \$6500
BERKELEY, Alameda Co., Cal. Yosemite Ave. and The Alameda.
 One-story and basement residence (6 rooms) redwood exterior, shingle roof, gas heating system, metal sash, hardwood floors, etc.
 Owner—Withheld.
 Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.
 Contractor—J. M. Walker, 1709 Grove St., Berkeley.

Plans Being Prepared.

RESIDENCE Cost, \$6500
OAKLAND, Alameda Co., Cal. Rockridge District, Golden Gate Ave.
 Two-story frame and stucco residence (6 rooms, 2 baths) tile roof, gas heating system, steel sash, tiled baths, hardwood floors and trim.
 Owner—Withheld.
 Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.
 Bids will be asked in about two weeks.

Plans Being Prepared.

RESIDENCE Cost, \$4500
BERKELEY, Alameda Co., Calif.
 1½-story brick veneer and redwood residence (6 rooms) shingle roof, gas heating system, hardwood floors and trim, tiled baths, steel sash, etc.
 Owner—Withheld.
 Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.

Plans Being Figured.

RESIDENCE Cost, \$—
SAN MATEO, San Mateo Co., Calif. Baywood Park.
 1½-story frame and stucco residence (7 rooms, 2 baths) tile roof, gas heating system, interior stucco and canvas, tiled baths & kitchen.

Owner—A. L. Scott.
 Architect—Harold Stoner, 810 Ulloa St., San Francisco.

Sub-Bids Wanted.
RESIDENCE Cost, \$5000
 PALO ALTO, Santa Clara Co., Calif.
 237 Park Blvd.

One - story and basement frame and stucco residence (5 rooms).

Owner—George M. Freedman.
 Architect—Not Given.
 Contractor—Geo. B. Moore, 531 Stanford St., Palo Alto.

Lumber—Merner Lbr. Co., Palo Alto.
Plumbing—R. W. Riley, Palo Alto.

Sub-bids are wanted on mill work, brick work, plastering, painting, heating, electrical work and wall tile. The concrete foundations are now in.

Sub-Contracts Awarded.
RESIDENCE Cost, \$—

HILLSBOROUGH, San Mateo Co., Cal.
 Two-story and basement frame and stucco residence (11 rooms and 4 baths) Colonial type, shingle roof, gas heat, hardwood floors, tiled baths, etc.

Owner—Mr. Milbank.
 Architect—Willis Polk Co. (Angus McSweeney, architect) 227 Pine St., San Francisco.

Contractor—A. F. Mattock, 212 Clara St., San Francisco.

Concrete—N. Sisevich, 1516 B St., San Mateo.

Reinforcing Steel—W. S. Wetenhall Co., 17th and Wisconsin Streets, San Francisco.

Brick Work—Chas. Mills, Palo Alto.

Lumber—Roth Maier Lbr. Co., 2800 3rd St., San Francisco.

Millwork—National Mill Co., 230 California St., San Francisco.

Stairs—Philbrick Co., 41 Sheridan St., San Francisco.

Sheet Metal—Gaffigan Sheet Metal Works, 309 8th Ave., San Mateo.

Plumbing—J. H. Pinkerton, 927 Howard St., San Francisco.

Heating—Gaffigan Sheet Metal W'ks, 309 8th Ave., San Mateo.

Plastering—J. H. Rolland.

Painting—George Amcs, 408 Howard Ave., Burlingame.

Hardwood Floors—F. Grunert, Redwood City.

Tiling—Benetti Tile Co., 916 N Humboldt St., San Mateo.

Glazing—Smith Glass Co., 479 Bryant St., San Francisco.

Contract Awarded.
RESIDENCE Cost, \$8000

SAN FRANCISCO. St. Francis Wood.
 Two - story and basement frame and stucco residence (8 rooms and 3 baths) shingle tile roof, gas heating system, hardwood floors, hardwood trim, tiled baths, canvas walls, etc.

Owner—Dr. Windeler.
 Architect—Charles Strothoff, 2274 15th Street.

Contractor—Joseph Bettencourt, 456 Beach St., San Bruno.

To Be Done By Day's Work.
ADDITION Cost, \$—

SAN FRANCISCO. No. 3433 Clay St.
 Addition to two-story frame and stucco residence.

Owner—Miss Alys Miller.
 Architect—Farr & Ward, 68 Post St., San Francisco.

Work will be done on a day's labor basis under the supervision of the architect.

Contract Awarded.
ALTERATIONS Cost, \$4000

OAKDALE, Stanislaus Co., Cal.
 Alterations and addition to frame residence (new heating plant, two baths, wrought iron stairway, hardwood floors throughout, new kitchen, etc.)

Owner—Mr. Bricchetto.
 Architect—G. N. Hilburn, 1213 I St., Modesto.

Contractor—M. O. Ward, Rt. 1, Box 541, Modesto.

Contract Awarded.
RESIDENCE Cost, \$4000

SAN FRANCISCO. E Twenty-seventh Ave. 125 S Cabrillo St.

One-story and basement frame and stucco residence (5 rooms).

Owner—J. Segal, 445 15th Ave., San Francisco.

Plans by B. K. Dobkowitz, 425 Monterey Blvd., San Francisco.

Contractor—C. O. Blincoe, 2663 15th Ave., San Francisco.

Contract Awarded.
RESIDENCE Cost, \$5000

SAN FRANCISCO. E Magellan Ave. 150 S Pacheco St.

Two-story and basement frame and stucco residence.

Owner—D. Grady, 44 Sloat Blvd., San Francisco.

Plans by Owner.
 Contractor—Standard Bldg. Co., 218 Castenada St., San Francisco.

Contract Awarded.
RESIDENCE Cost, \$6500

SACRAMENTO, Sacramento Co., Cal.
 Swanstrom Park.

Two-story frame and stucco residence (6 rooms, breakfast room, studio and double garage) cement, stucco and brick exterior, lath and plaster interior partitions, oak and Oregon pine floors, hot air heating system, gas furnace, Kohler plumbing goods.

Owner—Withheld.
 Architect—Frederick S. Harrison, 1005 Tenth St., Sacramento.

Contractor—Bell & Apple, % Architect.

Bids Opened.
RESIDENCE Cost, \$6500

WALNUT CREEK, Contra Costa Co.
 One-story frame and stucco residence (8 rooms and 2 baths) asbestos shingle roof, oil burning heating system, hardwood floors, tiled baths, etc.

Owner—Misses Alice and Aileen Martin.

Architect—Ray Keefer, 770 Wesley Ave., Oakland.

Low Bidder—C. H. Thrans, 28 Home Place, Oakland.

Following bids received:

(1) deduct; (2) add.	
C. H. Thrans, Oakland.....	\$8,179
.....(1)	187
.....(2)	77
A. T. Beckett, Piedmont.....	\$8,249
.....(1)	340
.....(2)	130
David Nordstrom, Oakland.....	\$8,638
.....(1)	173
.....(2)	400
Walter Sorensen, Berkeley.....	\$8,665
.....(1)	256
.....(2)	141
George Scott, Oakland.....	\$8,900
.....(1)	277
.....(2)	300

Bids held under advisement.

Preparing Preliminary Plans.
RESIDENCE Cost, \$—

BERKELEY, Alameda Co., Calif.
 Two - story and basement frame and stucco residence (7 rooms and 2 baths) tile roof, gas heating system, hardwood floor, tiled baths, colored fixtures, etc.

Owner—Withheld.
 Architect—Fabre and Hildebrand, 10 Sutter St., San Francisco.

Contract Awarded.
RESIDENCE Cost, \$9000

SAN ANSELMO, Marin Co., Calif.
 Two - story and basement frame and stucco residence (7 rooms).

Owner—Fred. Motzer, San Francisco.
 Architect—Alfred H. Jaehne, 2528 25th Avenue.

Contractor—Siemer and Kendall, 109 Tunsted Ave., San Anselmo.

Sub-Contracts Awarded.
RESIDENCE Cost, \$5500

PIEDMONT, Alameda Co., Calif. 50 Wildwood Gardens.

Two-story frame and stucco residence
 Owner—H. H. Gerlach, 132 Palm Dr., Piedmont.

Architect—Not Given.
 Contractor—J. F. Frey, 4718 Congress Ave., Oakland.

Lumber, Frames, and Millwork—E. K. Wood Lbr. Co., Frederick and King Sts., Oakland.

Electric—E. L. Reed, 2541 Seminary Ave., Oakland.

Sheet Metal, Furnace—M. C. Henry, 1183 53rd St., Oakland.

Plastering—H. A. Thorndyke, 2450 E 21st St., Oakland.

Brick—Henry Koenig, 4418 Ygnacio Ave., Oakland.

Plumbing—H. F. Lass, 5300 Cole St., Oakland.

Sub-Contracts Awarded.
RESIDENCE Cost, \$6000

OAKLAND, Alameda Co., Calif. 5829 Mendocino Avenue.

Two-story frame and stucco residence (five rooms).
 Owner—A. J. Perry, 53rd Street and Shattuck Ave., Oakland.

Architect—Not Given.
 Contractor—Geo. Windsor, 928 Kingston Ave., Oakland.

Lumber—Sunset Lbr. Co., 400 High St., Oakland.

Concrete—Triberti & Massaro, Oakland.

Roofing—M. & S. Tile Co., Decoto.

Millwork—Atkinson Mill & Mfg. Co., 2985 Chapman St., Oakland.

Painting—Blomgren Bros., 1927 Russell St., Berkeley.

Plastering—Harry Mortensen, 4060 E 18th St., Oakland.

Plumbing—J. R. Pierce Plbg. Co., 7109 E 14th St., Oakland.

Contract Awarded.
RESIDENCE Cost, \$—

PASADENA, Los Angeles Co., Cal.
 Two-story and basement frame, stucco and cement gun residence (15 rooms, 4 baths; 80x88) shingle and copper roofing, gas heating system wrought iron work, struc. steel, insulation, etc.

Owner—Arthur C. Stewart.
 Architect—Marston & Maybury, 25 S Euclid Ave., Pasadena.

Contractor—E. J. Bennett, Jr., 249 Mary St., Pasadena.

Plumbing—Munger & Munger, 174 E Union St., Pasadena.

Painting and Decorating—Bliss Paint- and Decorating Co., 386 South Raymond Ave., Pasadena.

Heating—Foss Heating & Sheet Metal Co., 21 S Chester Ave., Pasadena.

Contract Awarded.
RESIDENCE Cost, \$5000

BURLINGAME, San Mateo Co., Cal.
 California Drive.

One - story and basement frame and stucco residence.

Owner—Mrs. M. Barnes.
 Architect—Not Given.
 Contractor—F. H. Borin, 1045 Balboa Ave., Burlingame.

Contract Awarded.
RESIDENCE Cost, \$6000

BURLINGAME, San Mateo Co., Cal.
 Two-story frame and stucco residence Hale Drive.

Owner—R. R. Zellick, 1325 Cabrillo.
 Architect—Not Given.
 Contractor—G. W. Williams Co., 315 Primrose, Burlingame.

Contract Awarded.
RESIDENCE Cost, \$5000
SACRAMENTO, Sacramento Co., Cal.
531 Pico Way.
One - story and basement frame and stucco residence.
Owner—C. E. Wright, 1054 40th St., Sacramento.
Architect—Not Given.
Contractor—C. C. Ruby, 4800 T St., Sacramento.

Owner Taking Bids.
RESIDENCE Cost, \$4200
OAKLAND, Alameda Co., Calif.
One - story and basement frame and stucco residence (5 rooms) shingle roof, plaster exterior, oak flooring, tiled bath.
Owner—Dr. D. A. Torrano, 5816 Ocean View Drive, Oakland.
Plans by W. W. Dixon, 1844 5th Ave., Oakland.

Bids Wanted—To Close July 10.
RESIDENCE Cost, \$10,000
ROSS, Marin Co., Calif.
Two-story frame and stucco residence (slate roof, gas heating system, hardwood floors, tiled baths, etc.)
Owner—C. F. Dedekant.
Architect—J. K. Ballantine, 137 Harlan Place, Oakland.
Moore & Roberts, 693 Mission St., San Francisco, are figuring the plans and desire sub-bids on all portions of the work.

Preparing Working Drawings.
RESIDENCE Cost, \$7500
PIEDMONT, Alameda Co., Cal. Piedmont Pines.
Two - story and basement frame and stucco residence (Model home).
Owner—Brouner Furniture Co., 21st & Broadway, Oakland.
Architect—Miller & Warnecke, Financial Center Bldg., Oakland.

Prospective Bidders.
RESIDENCE Cost, \$8000
OAKLAND, Alameda Co., Cal. Broadmoor Park.
Two - story and basement frame and stucco residence (8 rooms and 3 baths) Mexican style, tile roof, etc.
Owner—M. A. Barr.
Architect—Charles McCall, 837 Santa Ray St., Oakland.
Following will submit bids:
Harold Paige, 5651 Oak Grove Ave., Oakland.
Albert A. Haskell, 255 Ridgeway Ave., Oakland.
J. R. Armstrong, 1161 Fleet Road, Oakland.
Chester A. Gossett, 327 Woodland Park, San Leandro.
Shane, Hayward.
Chas. W. Falk, 1520 East 38th St., Oakland.

Sub-Contracts Awarded.
ADDITION Cost, \$—
ORINDA, Contra Costa Co., Cal.
Addition to 2-story frame and stucco residence (add 5 rooms, etc.) tile work, fireproofing, etc.
Owner—W. P. Stephenson, University of California, Berkeley.
Plans by Owner.
Contractor—H. K. Henderson, 393 40th St., Oakland.
Plastering—Wm. Makin, 2141 Livingston, Oakland.
Reinforcing Steel—Gunn, Carle & Co., 354 Hobart St., Oakland.
Tile—Rigney Tile Co., 3012 Harrison St., Oakland.
Mill Work—Atkinson Mill Co., 2985 Chapman St., Oakland.
Lumber—Sunset Lbr. Co., 400 High St., Oakland.
Steel Sash—East Bay Glass Co., 621 6th St., Oakland.
Concrete—Ensor Buel, 2927 Louria, Berkeley.
Plumbing—Scott Co., 113 10th Street, Oakland.

Wiring—Electric Service Co., 2415 California St., Berkeley.
Painting—Gust Hurtig, 1336 Edith St., Berkeley.

Low Bidder.
RESIDENCE Cost, \$—
SAN FRANCISCO, Forest Hill.
Two - story and basement frame and stucco residence (9 rooms and 2 baths) tile roof, warm air heating system, tiled baths and kitchen, interior stucco and canvas, etc.
Owner—M. A. Miller.
Architect—Harold Stoner, 810 Ulloa.
Low Bidder—Joseph Bettencourt, 456 Beach St., San Bruno.
Second low bid was submitted by Moore & Roberts. Bids held under advisement.

Sub-Contracts Awarded.
RESIDENCE Cost, \$—
BERKELEY, Alameda Co., Cal. Arch Street.
Two-story frame and stucco residence (7 rooms and 2 baths) tile roof, gas hot air heating system, tiled baths, hardwood floors, steel sash.
Owner—A. Mainzer.
Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.
Contractor—Lawrence Sullivan, care architect.
Concrete—Louis Lovisone, 5506 Broadway St., Emeryville.
Lumber—Smith Lbr. Co. of Oakland, 19th Ave. and Estuary, Oakland.
Roofing—A. K. Goodmundson, 45th Ave. at Clement, Oakland.
Plumbing—J. R. Pierce Plbg. Co., 7109 E 14th St., Oakland.
Plastering—Schmidt and Reed, 2032 102nd Ave., Oakland.
Iron Work—James Eandi, 1336 61st Ave., Oakland.
Flooring—Clifton Wood (Wood and Brandt) 2942 61st Ave., Oakland.

Contract Awarded.
RESIDENCE Cost, \$—
NICASIO, Marin Co., Cal.
Two-story residence.
Owner—Withheld.
Architect—Oscar R. Thayer, Monadnock Bldg., San Francisco.
Contractor—D. J. Daly, 56 Cavour St., Daly City, \$3850.
Contracts for painting, plumbing, hardware, lighting fixtures, pump, 5,000 gallon storage tank and other work will be awarded shortly.
Will contain large living rooms with stone fireplace, breakfast room, kitchen, maid's room and bath, stairs leading from living room to balcony, two bedrooms, 2 baths, sleeping porch swimming pool, barbecue pit, two-car garage, water supply and pump to 500-gallon tank, septic sewage system, roads, bridal paths, rustic bridges and gates, etc.

Contract Awarded.
RESIDENCE Cost, \$5500
CONCORD, Contra Costa Co., Calif.
One - story and basement frame and stucco residence (6 rooms) all tile roof, gas furnace, hardwood floors, pine trim, tiled baths, etc.
Owner—Mr. Russi.
Plans by W. W. Dixon, 1844 5th Ave., Oakland.
Contractor—L. B. Perry, Concord.

15—SCHOOLS

SAN FRANCISCO.—Venor Co., 36 Sacramento St., at \$2,897 awarded the contract by Purchasing Department to furnish linoleum for the school department.

SANTA MONICA, Los Angeles Co., Cal.—The Santa Monica Board of Education, 1333 6th St., Santa Monica, will request a \$500,000 loan of the Reconstruction Finance Corporation to be used for repairing Santa Monica school buildings.

Bids Wanted—To Close July 15th, 2 P. M.
REPAIRS Cost, \$—
PITTSBURG, Contra Costa Co., Cal.
Repairing, remodeling and installation of additional units of heating in Pittsburg Primary School (steam heating plant).
Owner—Pittsburg School Dist. (Armand Stow, clerk).
Mechanical Engineer—Leland & Haley 53 Sutter St., San Francisco.
Plans and specifications available from the clerk of the board, High School Bldg., Pittsburg, and from Leland and Haley, San Francisco, upon deposit of \$10.00.

BRENTWOOD, Contra Costa Co., Cal.—Until July 10, 1:30 P. M., bids will be received by Robt. Wallace, Jr., clerk of the Board of the Liberty Union High School District, Brentwood, for repairs and painting to the high school building. Work involves carpentry work, painting and plastering. Plans and specifications prepared by B. O. Wilson, Supt. of Schools, and may be obtained from the clerk of the board upon deposit of \$10.00.

LOS ANGELES, Cal.—Los Angeles Board of Education, at a meeting held on June 26, approved a report of its committee of the whole outlining a program of reconstruction of all school buildings in the Los Angeles city school district damaged by the March 10 earthquake and strengthening of other buildings which escaped damage, requiring an expenditure of about \$25,500,000. The survey of damages caused by the earthquake takes as its basis for minimum safety requirements those set forth in the recent report of the joint technical committee on earthquake protection, headed by Dr. Robert A. Milliken. Inspection has disclosed that 253 of the 1691 school buildings in the district suffered appreciable damage. The report suggests that the school board secure the services of a board of technical advisers to be composed of two structural engineers and an architect. In arriving at the estimate of \$25,500,000 for rehabilitation, the report places the cost of materials and labor at \$20,000,000, adds \$3,000,000 for temporary housing, and \$2,500,000 for indirect costs, such as engineers' and architects' fees, etc. On hand at present there is approximately \$2,000,000 in building funds, and of the last building bond issue \$7,000,000 have not been sold. Assuming that these bonds can be sold this year, either in the open market or through one of the agencies of the government, the total of \$9,000,000 made available would more than cover the work which could be done in the current fiscal year. Ultimately it will be necessary to submit a bond issue to cover the additional costs.

Preparing Working Drawings.
SCHOOL Cost, \$100,000
WHITTIER, Los Angeles Co., Cal.
Two-story Class A reinforced concrete school (concrete walls and floors, roof slabs, composition floors, roof slabs, composition roofing, stucco exterior, steel sash, steam heat, etc.)
Owner—Whittier Union High School District.
Architect—R. L. Warren, Emporium Bldg., Whittier.

MARTINEZ, Contra Costa Co., Cal. Patterson Bros., 573 Santa Rosa Ave., Berkeley, at \$625 (Prop. 1) and \$319 (Prop. 2), and W. F. Long, Martinez, at \$287 (Prop. 3) awarded contract by Martinez Elementary School District for painting of the exterior of the Elementary schools in Martinez. The specifications were prepared by Architect W. H. Weeks, 525 Market St., San Francisco.

Contracts Awarded.
BUILDING Cost, \$6000
RICHMOND. Contra Costa Co., Cal.
 One-story wood frame classroom bldg. (80x80 ft.) metal lath and plaster interior, rustic exterior, wood flooring, composition roofing, gas heating system, etc.
 Owner—Missionary Society of the Salesians Congregation.
 Architect—J. A. Porporato, 619 Washington St., San Francisco.
Plastering—A. H. Winchole, Richmond
Electric—Richmond Elec. Mfg. Co., Richmond.
Plumbing—Standard Plumbing Co., Richmond.
Roofing—W. H. Verbliscio, San Pablo.
 General construction is being done by students of the Salesian school.

Contract Awarded.
SCHOOL Cont. Price \$26,410
ALBANY, Alameda Co., Cal. Ramona and Garfield Streets.
 Two-story and basement reinforced concrete high school (8 classrooms 1st unit) to be known as Herbert Hoover Junior High School.
 Owner—City of Albany.
 Architect—P. L. Dragon and C. R. Schmidts, 3016 Telegraph Avenue, Berkeley.
 Contractor—W. E. Lyons, 354 Hobart Street, Oakland.
Heating—Scott Company, 243 Minna St., San Francisco, at \$1,814.
 Will have composition roof, steam heating system, pine floors, linoleum corridors, stucco finish, cement stairs, tile and wainscoting in toilet rooms, steel partitions, etc.

Preparing Plans.
SCHOOL Cost, \$—
FALL BROOK, San Diego Co., Cal.
 Reinforced concrete auditorium and gymnasium building (composition and tile roof, steel roof trusses, stage, picture projection booth, heating and ventilating systems.
 Owner—Fall Brook Union High School District.
 Architect—Wm. P. Lodge, California Bank Bldg., San Diego.

Bids Wanted—To Close July 18, 3 P. M.
SCHOOL ADDN., ETC. Cost, \$—
REDWOOD CITY, San Mateo Co.
 Alterations and additions to elementary school (frame and stucco construction) add two classrooms
 Owner—Redwood City School District (C. G. Uhlenberg, Clerk).
 Architect—Martin Rist, Phelan Bldg., San Francisco.
 Plans and specifications available from John Gill, McKinley School, Redwood City, and from the office of the architect upon deposit of \$5.

July 6, 1933

Plans Being Figured.
SCHOOL Cost, \$25,000
SANTA BARBARA, Santa Barbara Co., Cal. Hope Ranch.
 New boys' school (3 classrooms, auditorium, kitchen and auxiliary rooms).
 Owner—Alamo Pintado (Edward S. Spaulding, Headmaster).
 Architects and Engineers—Edwards & Plunkett, 20 E-Figueroa St., Santa Barbara.

July 6, 1933

Contract Awarded.
SCHOOL Cont. Price, \$13,200
TULE LAKE, Siskiyou Co., Cal.
 One-story wood frame school (four classrooms, office, etc.) 75x60 feet; hot air heating system, coal or wood burner, maple floors, wood shingle roof, wood exterior, and interior, sheet rock with plaster finish, wood sash, blackboards and shades, septic tank, fixtures, etc.
 Owner—Siskiyou Union High School District, Yreka.

Architect—A. O. Johnson, Sir Francis Drake Hotel, San Francisco.
 Engineer—Woodworth Wethred, Sir Francis Drake Hotel, San Francisco.
 Contractor—J. P. Brennan, Redding.
 Following bids received:
 (a) deduct for omitting shop.
 (b) deduct for omitting finish in shop.
 J. P. Brennan, Redding.....(1) \$13,200
(2) 16,100
(a) 1,985
(b)
 J. W. Anderson, Mt. Shasta
(1) \$13,460
(2) 16,608
(a) 1,508
(b) 175
 C. M. Norgrove, Berkeley.....(1) \$13,600
 M. M. Cherry, Tule Lake.....(1) \$13,620
(2) 16,500
(a) 1,272
(b) 160
 O. S. Hannah, Tule Lake.....(1) \$13,727
 D. M. Reed, Yreka.....(1) \$14,722
(2) 15,997
(a) 1,170
 J. M. Brown and H. E. Koskap, Chico(1) \$14,948
(2) 18,339
(a) 1,882
(b) 300
 T. H. Johanns, S. F.....(1) \$15,818
(2) 16,935
(a) 1,435
 A. Siri, Dunsmuir.....(1) \$17,369
(2) 21,601
(a) 2,800

Plans Completed.
ADDITION Cost, \$3500
MORGAN HILL, Santa Clara Co., Cal.
 Frame and stucco addition to Morgan Hill Grammar School (add one classroom, revise toilet rooms, etc.)
 Owner—Morgan Hill Grammar School District (Mr. Dickerson, Pres.)
 Architect—W. H. Weeks, 525 Market St., San Francisco.
 Plans forwarded to Sacramento for approval and bids will be asked shortly.

FILLMORE, Ventura Co., Cal.—Fillmore Grammar School District is considering a plan to add five classrooms to the Sespe Ave. school in Fillmore. Estimated cost of the addition is \$20,000.

Contracts Awarded.
HOUSE OF STUDIES
 Cost, \$80,000 approximately
OAKLAND, Alameda Co., Cal. Chabot Road and College Ave.
 Three-story and basement Class A house of studies.
 Owner—College of Saint Albert-the-Great (Dominican House of Studies) Steiner and Bush Sts., San Francisco.
 Architect—Arnold Constable, 530 Market St., San Francisco.
 Contractor—John Snyder, Petaluma.
Heating—Scott Co., 243 Minna Street, San Francisco.
Plumbing—Wm. J. Forester, 355 4th St., San Francisco.
Electric—M. E. Ryan, Redwood City.
 Complete description of the building reported in our issue of June 1.

RICHMOND, Contra Costa Co., Cal.—Until July 17, 4 P. M. bids will be received by W. T. Helms, Secretary, Richmond Union High School District for painting window sash and frames in the Richmond Union High School buildings, located at 23rd and Tulare Sts.

16—BANKS, STORES AND OFFICES

June 30, 1933

Construction Started.
STORE Cost, \$17,500
OAKLAND, Alameda Co., Cal. 3300

Lakeshore Avenue.
 One-story brick store (50x70 ft.) concrete floors, tar and gravel roof, tile work, etc.; 3 stores.
 Owner—Burke Properties Co., 3516 E 14th St., Oakland.
 Plans by J. W. Oliver, 3615 E 14th St., Oakland.
 Contractor—J. B. Petersen, 4021 Agua Vista Ave., Oakland.
 Building has been increased from a 1-story building to a 2-story building, first floor being 110 ft. in length and the second floor 75 ft. in length.

FRESNO, Cal.—H. B. Folsom, Merced, awarded the following sub-contracts in connection with the construction of an addition to the District's office building at Fresno. Work consists of excavation, concrete and masonry work, steel sash, carpentry and mill work, lathing and plastering, sheet metal, roofing, structural steel, painting, plumbing, heating, ventilating and electrical installations. State will furnish Venetian blinds, window shades, laboratory hoists, refrigerated fountains, and air washer.
Excavation and Concrete—Stewart & Nuss, Fresno.
Steel—Kyle & Co., Fresno.
Lumber—C. S. Pierce Lumber Co.
Mill Work—Fresno Planing Mill.
Plumbing, Heating, Ventilating, Sheet Metal—Barrett-Hicks Co., Fresno.
Electric—Fresno Electric Co.
Plastering—M. E. Summers.
Roofing—D. H. Coffman.
Toilet Partitions—American Seating Company.
Glass & Glazing—Fresno Planing Mill.
Finish Hardware—Fresno Hdwe. Co. All of Fresno.

Planned.
STORE Cost, \$10,000
WILLOW GLEN, Santa Clara Co., Cal. Lincoln and Glenn Eyre Aves.
 One-story store building (4 stores).
 Owner—D. Romano.
 Architect—Not Given.

Plans Being Figured—Bids Close July 10th.
STORES & OFFICES Cost, \$25,000
SUSANVILLE, Lassen Co., Calif.
 Two-story reinforced concrete store and office building (140x25) tar, gravel and tile roof, steam heating system, oak floors, etc.
 Owner—Mr. Dedeck.
 Plans by Paul J. Moscarella, Saratoga.
 Following will submit bids:
 K. E. Parker Co., 135 South Park, San Francisco.
 Lawrence Case, Los Gatos.
 H. L. Wold, 1130 N 2nd Street, San Jose.
 W. Burrows, Reno.
 L. Hathaway, San Jose.
 D. L. Woodward, Susanville.

Plans Being Prepared.
MARKET Cost, \$17,000
SAN FRANCISCO. Polk St. 100 S Vallejo Street.
 One-story and mezzanine floor reinforced concrete market.
 Owner—Samuel Levin.
 Engineer—H. C. Britt, % Henslee Corporation.
 Lessee—Henslee Corp., 366 17th St., Oakland.
 Contract will probably be awarded to Salih Bros., 25 Taylor St., upon completion of plans.

Work To Start Shortly.
REMODEL STORE Cost, \$—
RENO, Nevada. 150 N Virginia St.
 Remodel store building (47 ft. frontage; stucco work, glass, etc.)
 Owner—Heldtman Building.
 Architect—F. J. DeLongchamps, Gazette Bldg., Reno.
 Work will be started within a few days under the supervision of the architect.

Sub-Contracts Awarded.
OFFICE & APT. Cost, \$6500
RODEO, Contra Costa Co., Cal.
Two-story frame and stucco office and apartment building (one 2-room apt.) Pabco roof, hot water heating system, hardwood, linoleum and tile floors, etc.

Owner—Dr. S. N. Well.
Plans by W. S. Hertzke and Wm. H. Knowles, 982 Bryant Street, San Francisco.
Contractor—A. Knowles, 982 Bryant St., San Francisco.

Lumber—Smith Lumber Co., 19th and Estuary, Oakland.

Concrete—Transit Concrete Co., 2500 Peralta St., Oakland.

Plumbing—Carl T. Doell, 467 21st St., Oakland.

Electric—Cummings Elec. Co., Crockett.

Heating—J. H. Brinkers, 425 Dewey Blvd., San Francisco.

Sheet Metal—Forderer Cornice W'ks, 269 Potrero Ave., San Francisco.

Steel Sash—Michael & Pfeffer Iron Works, 1415 Harrison Street, San Francisco.

Linoleum—Venor Co., 36 Sacramento St., San Francisco.

Contract Awarded.
REMODEL STORE Cost, \$6000
SACRAMENTO, Sacramento Co., Cal. 916 K Street.

Remodel store (new front, new fixtures, etc.)

Owner—Stovall Department Store (S. W. Stovall, president) Sacramento
Architect—W. E. Coffman, California State Life Bldg., Sacramento.

Contractor—Arthur J. Fisher, 800 35th St., Sacramento.

Steel Contract Awarded.
ALTERATIONS Cost, \$20,000
OAKLAND, Alameda Co., Cal. 12th and Washington Sts.

Alterations to store building.
Owner—Lerner Stores, Inc., New York City.

Architect—Miller & Warnecke, Financial Center Bldg., Oakland.

Structural Steel—Herrick Iron Works 18th and Campbell Sts., Oakland.

Bids on other portions of the work are now being taken.

Plans Being Completed.
ALTERATIONS Cost, \$80,000
SACRAMENTO, Sacramento Co., Cal. NW Eleventh and K Streets.

Alterations to four-story Class B and C building for department store 80x60 ft.) redecorating, etc.

Owner—Bon Marche, 7th and K Sts., Sacramento (Michael W. and Emlie C. Nathan).

Architect—George C. Sellon, California State Life Bldg., Sacramento.
Bids will be asked in one week.

Contract Awarded.
ALTERATIONS Cost, \$4000
SACRAMENTO, Sacramento Co., Cal. J Street between 7th and 8th.

Alterations to store (remodel store front, interior plaster, etc.)

Owner—California Western States Life Ins. Co., Sacramento.

Architect—George Sellon, California State Life Bldg., Sacramento.

Contractor—Campbell Const. Co., 800 R St., Sacramento.

Lessee—Sacramento Rubber Co.

Structural Steel Plans Completed.
STORE Cost, \$—
SAN FRANCISCO. 1041 Market St. Seven-story Class C steel and concrete store.

Owner—Weinstein Co. (Isidor Weinstein, president) 1041 Market St.

Architect—Hyman and Appleton, 68 Post Street.

Engineer—H. Rosenthal, 821 Market.

Plans Being Prepared.
REMODEL BLDG. Cost, \$10,000
ALAMEDA, Alameda Co., Calif. Remodel three-story frame building.
Owner—G. Lunt.
Architect—H. A. Minton, 525 Market St., San Francisco.

Contract Awarded.
ALTERATIONS Cost, \$3000
OAKLAND, Alameda Co., Calif. 471-14th Street.

Alterations to store.

Owner—Lillian Delger Powers.
Architect—Not Given.

Contractor—Kulchar Co., 731 E 10th St., Oakland.

Sub-Contracts Awarded.
STORE Cost, \$17,500
OAKLAND, Alameda Co., Calif. 3300 Lakeshore Avenue.

Two-story brick store (50x70) concrete floors, tar and gravel roof, tile work, etc., Summerbell ruses

Owner—Eureka Properties Co., 3516 E 14th St., Oakland.

Plans by J. W. Oliver, 3615 E 14th St., Oakland.

Contractor—J. B. Petersen, 4021 Agua Vista Ave., Oakland.

Lessee—Edy's Candy Co. and Henslee Corporation.

Concrete—J. E. Wentworth, 2432 Havens court Blvd., Oakland.

Electric—Sam L. Hancock, 2580 Fruitvale Ave., Oakland.

Plumbing—Charles Walker, 2059 38th Ave., Oakland.

Lumber, Cabinet—Eureka Mill & Lbr. Co., 3615 E 14th St., Oakland.

Structural Iron Work—Independent Iron Works, Ltd., 1820 Chase St., Oakland.

Concrete Material—Powell Bros., Harrison at Pearl, Alameda.

Sheet Metal—Scott Sheet Metal W'ks, 2201 Brush St., Oakland.

First floor will be 110 ft. in length and the second floor 75 ft.

Contract Awarded.
BUILDING Cost, \$15,000
ALAMEDA, Alameda Co., Cal. No. 1517 Park Street.

Two-story and mezzanine floor brick building (50x70 ft.) tar and gravel roof.

Owner—Alameda Times-Star.
Private Plans.

Contractor—Ben Kopf, 845 Pacific Ave., Alameda.

Contract Awarded.
STORE Cost, \$5450
SAN FRANCISCO. SE Oakdale and Mendel Streets.

One-story Class C concrete store.

Owner—Albert Traverso.
Architect—Irvine & Ebbets (R. R. Irvine, Architect), 2048 Market St., San Francisco.

Contractor—San Francisco Constr. Co. 3159 Fillmore St., S. F.

Following bids received:

San Francisco Constr. Co.....\$5450

L. Maurer 5722

G. Moriconi 5976

Peter Sartorio 6038

Frank J. Rellly..... 6431

Ira Coburn..... 6480

D. C. Capaletti..... 7950

SAN FRANCISCO—Clinton Stephenson Constr. Co., 550 Montgomery St., at \$3741 submitted low bid to Department of Public Works for alterations to the Controller's Office in the City Hall. Following bids received:

Clinton Stephenson Constr. Co.....\$3741

O. Monson 3774

Bureau of Building Repair..... 3900

Bids held under advisement.

Plans Being Figured—Bids Close July 11, 2 P. M.

STORE Cost, \$—
SAN FRANCISCO. Chestnut St. N Mallorca Way.

One-story reinforced concrete store (25x70 ft.) tar and gravel roof, concrete floors, etc.

Owner—Martin Stelling, 155 Montgomery St., San Francisco.

Architect—Bertz, Winter & Maury, 681 Market St., San Francisco.

Clinton Stephenson Constr. Co., 550 Montgomery St., is figuring the plans and desire sub-bids on all portions of the work.

Preparing Plans.
STORE Cost, \$80,000
REDWOOD CITY, San Mateo Co., Cal. Broadway and Hamilton Aves.

One-story, mezzanine floor and basement steel and brick or reinforced concrete store (60x150 ft.)

Owner—David J. Davis, 500 Chelmsford Road, Hillsborough.

Plans by Engineering Department of Lessee.

Lessee—Montgomery Ward Co., Chicago, Ill.

Agent—Martin Realty Co., 1461 Burlingame Ave., Burlingame (Mr. Jerome Draper in charge).

The type of construction is not definitely determined at this time.

17—THEATRES

Sub-Bids Being Taken.
THEATRE Cost, \$—
LINDSAY, Tulare Co., Cal. Rebuild theatre (raise brick wall 12 ft. and concrete, wood trusses, composition roof, etc., new stage, balcony and projection room, seating capacity of 800.

Owner—Brunswick Amusement Co.
Architect—J. Lloyd Conrich, 214 9th Ave., San Francisco.

Contractor—Salih Bros., 25 Taylor St. San Francisco.

Sub-bids are being taken on lumber, reinforcing steel and electrical work.

To Be Done By Day's Work.
THEATRE Cost, \$1500
STOCKTON, San Joaquin Co., Calif. North Pacific Avenue.

Open-air theatre (to seat 1360) earth embankment, stadium type wooden seats, light towers, stage and lighting equipment (stage will be concrete platform, 24x38).

Owner—College of the Pacific.
Architect—H. G. Bissell, 328 E Miner St., Stockton.

Work is under way on day's labor basis under the supervision of the architect.

18—WHARVES & DOCKS
LONG BEACH, Los Angeles Co., Cal.—J. H. Baxter & Co., Edison Bldg., Los Angeles, and Pan-Pacific Piling & Constr. Co., 2145 E. 25th St., Los Angeles, submitted identical bids to E. S. Dobbin, city manager, June 29, at \$1823.08, for furnishing creosoted piles to be used in the repair of the Pine Ave. pier, involving:

21 piles in 56-ft. lengths;

16 piles in 58-ft. lengths;

16 piles in 60-ft. lengths.

The bids were:

J. H. Baxter & Co., 59½ ft.; total, \$1823.08.

Pan-Pacific Piling & Constr. Co., \$1823.08.

Chas. R. McCormick Lumber Co., \$1838.40.

Consolidated Lumber Co., \$1853.72.

Contract Awarded.
ALTER THEATRE Cost, \$75,000
SEATTLE, Wash. 513-515-517 Pike St. Alterations to theatre (to seat 750).

Owner—S. & A. Manheimer, Bigelow Bldg., Seattle.

Architect—Henry Bittman, Securities Bldg., Seattle.

Contractor—J. W. Balley Const. Co., 1621 Boren Ave., Seattle. General contract does not include plumbing, heating, wiring, decorating work or equipment and separate bids will be taken shortly.

19—MISC. CONSTRUCTION

SAN FRANCISCO—Eaton & Smith, 715 Ocean Ave., at \$1692 awarded contract by Golden Gate Bridge & Highway District to dismantle, break up and remove three disappearing cannon mounts.

SAN FRANCISCO.—Board of Supervisors, Public Utilities Commission, and other city officers consider proposed improvements under National Industrial Recovery Act, total cost of program estimated at \$2,108,000, including:

Table listing construction items and costs: Marina & Aquatic park sewer \$480,000, Commercial St. pump plant 10,000, 15th St. sewer 190,000, Brannan St. sewer 200,000, 6th St. sewer 162,000, 16th St. sewer 63,000, Lake St. sewer 11,000, Visitation Valley sewer 39,000, Yosemite Ave. sewer 75,000, Merced Manor sewer 67,000, 3rd St. sewer 67,000, North Point main outfall 90,000, Golden Gate Heights 20,000, Harding Park 14,000, 44th Ave. and Sloat Blvd. 20,000.

SAN FRANCISCO—Bethlehem Shipbuilding Corp., 20th and Illinois Sts., at \$649 awarded contract by U. S. Engineer Office to furnish one 26-in. self-adjusting draghead for U. S. Dredge "W. L. Marshall." Complete bids published June 15.

WASHINGTON, D. C. — As previously reported, Fred W. Snook, 596 Clay St., San Francisco, at \$33,525 for item (1), \$39,429 for item (2), \$32,495 for item (3) and \$38,399 for item (4) submitted low bid to Bureau of Yards and Docks, Navy Department, Washington, D. C., June 28, for irrigation system, grading and concealed lawn sprinkling system at the Naval Air Station, Sunnyvale, under Spec. No. 7034.

Following bids received: (1) Work complete; (2) Work complete using copper piping. (3) Work complete on bidder's design. (4) Work complete on bidder's design using copper piping.

Table listing bids for various contractors: Fred W. Snook, S. F. (1) \$33,525, (2) 39,429, (3) 32,495, (4) 38,399; Peninsula Paving Co., S. F. (1) \$47,404, (2) —, (3) 39,716, (4) —; Herman Lawson, S. F. (1) \$51,500, (2) 59,000, (3) 44,265, (4) 51,785; M. W. Moody, Los Angeles (1) \$52,200, (2) 58,200, (3) 48,200, (4) 54,200; Brooks of Calif., S. F. (1) \$55,956, (2) 64,636, (3) 51,630, (4) 60,309; Scott Co., San Francisco (1) \$57,000, (2) 64,000; D. L. Rathborne & Sons, Roslyn, Virginia (1) \$72,219, (2) 78,200; Hall - Johnson Company, Alhambra (1) \$82,457, (2) 89,640, (3) 78,744, (4) 85,953.

Bids held under advisement.

PETALUMA, Sonoma Co., Calif.—Fire destroyed the Sales Hatchery, located at 722 Third Street, Petaluma June 29th. Damage estimated at \$55,000. W. L. Sales, owner.

Grading Contract Awarded. RACE TRACK Cost, \$150,000 SEATTLE, Wash. Tacoma Highway. Horse racing track (300 foot grandstand to seat 4,000; two-story club house with dining rooms, kitchen, lounge, jockey clubhouse, stalls to accommodate 500 horses, public address system, plumbing wiring). Owner—Washington Jockey Club (Jos. Gottstein, Exchange Bldg., Seattle). Architect—B. M. Priteca, Pantages Bldg., Seattle. Contractor—L. Ives, 903 23rd Ave., S., Seattle. Grading—Northwest Const. Co., 903 23rd Ave., Seattle.

SAN FRANCISCO—Main Engineering Co., 110 Hooper St., at \$131 submitted low bid to Department of Public Works for repair work to the wet rock and sand elevator chute at the Municipal Asphalt Plant. Only other bid was submitted by the Bay City Iron Works at \$178. Bids held under advisement.

Marble Contract Awarded. MAUSOLEUM Cost, \$15,000 LAWNDALE, San Mateo Co., Cal. Interior work in mausoleum (work involves cast stone, marble, ornamental iron, ceiling lights, etc.). Owner—Olivet Memorial Park Assn. Architect—Resing & McGuinness, 438 Pine St., San Francisco. Marble—American Marble Co., South San Francisco.

As previously reported, cast stone awarded to Western Artificial Stone Co., 666 Brannan St., S. F.

PETALUMA, Sonoma Co., Cal.—Until July 17, 7:30 P. M., bids will be received by Robert R. Steitz, Secretary, City of Petaluma Park Commission, for construction of a tennis court in Wickershaw Park in Petaluma. Will be of concrete base with Clarock surface, electrically lighted, etc. Estimated cost \$2000. On previous bid opening, lowest bid was submitted by the Petaluma Constr. Co., at \$1340.35 for asphaltic surfacing and \$1430 for concrete surfacing.

Planned. RACE TRACK Cost, \$— SANTA CRUZ, Santa Cruz Co., Calif. Pasatiempo. New horse race track. Owner—Miss Marian Hollins, Pasatiempo Golf Club, Santa Cruz. Architect—Not Given. Further details will be announced shortly.

20—MISC. SUPPLIES AND MATERIALS

SEATTLE, Wash.—Until July 5th, bids will be received by American Mail Line officials for the repair of the steamer "President Madison" recently damaged when she partly capsized in port. A previous estimate of cost on repair work was \$1,000,000.

BERKELEY, Alameda Co., Calif.—Berkeley Board of Education awarded the following contracts for lumber: Boorman Lumber Co., 10035 E 14th St., Oakland, \$760. Tilden Lumber Co., Oakland, \$354. Eureka Mill & Lumber Co., Oakland.

SAN FRANCISCO — Standard Asbestos Co., 744 Folsom St., at \$73 submitted low bid to Department of Public Works for Silocel Natural brick, asbestos insulating cement,

mesh wire, etc., at the Juvenile Detention Home. Following bids received: Standard Asbestos Co. \$73, Western Asbestos Co. 95, Plant Rubber Co. 98. Bids held under advisement.

etc., \$1001.25; Georgia, Alabama, etc., \$8233.75; Indiana and Illinois, \$886.25; Wisconsin, etc., \$3145.75; Texas, \$11,264.15; Oklahoma and New Mexico, \$2716.15. Class 239, Vermont, etc., \$3100; New Jersey, Delaware, etc., \$1600; Florida, Mississippi, etc., \$9287; Ohio, \$2743.50; Minnesota, etc., \$1,607.70; Texas, \$1618, Oklahoma, \$1,564.70.

Gulf Refining Co., Pittsburgh, class 232, \$1698. Class 240, part, \$698. Standard Oil Co. of California, class 233, \$67,816. Class 234, \$76,910. Class 235, \$19,468.50. Class 237, Idaho, etc., \$4838.60; Washington, California, etc., \$6805; Alaska, \$961.40; additional, Alaska, \$2489.40. Class 238, Idaho, etc., \$4965.75; Washington, Oregon, etc., \$17,086.50 and \$57.02, also \$2273.57. Class 239, Idaho, \$1803.48; Washington, Oregon, etc., \$4332.80; Alaska, \$558.26 and \$26.96.

Union Oil Co. of California, Los Angeles, class 236, \$630. Class 240, part, \$125.

Texas Co., New York City, class 237, North Dakota, etc., \$6983. Class 238, North Dakota, etc., \$2865. Class 239, North Dakota, etc., \$1186.

Associated Oil Co., San Francisco, class 240, \$73.75 (part).

WASHINGTON, D. C. — Contracts for furnishing lubricating oil under Schedule No. 9862 awarded by the Navy Department, Bureau of Supplies and Accounts, as follows:

Shell Oil Co., San Francisco—Class 229, \$70,750. Class 230, \$84,725. Class 231, \$17,220. Class 237, New Hampshire, Vermont, etc., \$4503.50; New Jersey, Delaware, etc., \$10,934.50; Tennessee, etc., \$3816; Ohio, etc., \$5834.50; Minnesota, etc., \$3479.80; Texas, \$4957.75; Oklahoma, \$5126.50. Class 238, Rhode Island and New York, \$4512.15; New Jersey, Delaware,

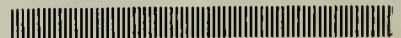


In San Francisco

A welcoming room... an enterprising chef... a Union Square location (and that says volumes if you know your San Francisco) ... These are among the Plaza features that will brighten the days of your visit here + +

RATES: \$2 to \$4 RAY MAXWELL, Manager

HOTEL PLAZA POST STREET AT STOCKTON SAN FRANCISCO



ENGINEERING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

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| 21.—Bridges | 30.—Reservoirs and Dams |
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| 23.—Irrigation Proj. | 32.—Sewers & Sewage Disposal Plants |
| 24.—St. Light. Systems | 33.—Water Works |
| 25.—Machinery and Equipment | 34.—Parks & Playgrounds |
| 26.—Railroads | 35.—Tunnels |
| 27.—Fire Alarm Sys. | |
| 28.—Fire Equipment | |
| 29.—Streets & Highways | |

21—BRIDGES

ORANGE COUNTY, Calif.—R. R. Bishop, 5017 E Broadway, Long Beach at \$12,581.50 awarded contract by the State Highway Commission for bridge construction at Anaheim Bay bridge, near Seal Beach, constructing approach spans and repairing existing bridge.

OREGON STATE.—Following contracts awarded by the State Highway Commission to construct bridges as follows:

LINN COUNTY: C. J. Montag at \$34,229 to construct bridge over South Fork of Santiam river on Albany-Lyons Secondary Highway No. 211, two miles west of Crabtree.

POLK COUNTY: O. N. Pierce, Portland, at \$8185 (concrete pipe) to construct bridge over Mill Creek on Dallas-Coast Secondary Highway No. 192 about one-half mile east of Buell.

EUREKA, Humboldt Co., Cal.—Until July 17, 2 P. M., bids will be received by H. S. Comly, District Engineer, State Highway Commission, 546 Wabash Ave., Eureka, to construct a sidewalk on the bridge across Redwood Creek, about one-quarter mile north of Orick, Humboldt County. Specifications obtainable from above office. Certified check 10% required with bid.

22—DREDGING, HARBOR WORKS, EXCAVATION

CALIFORNIA STATE.—Maj. Gen. Lytle Brown, Chief of Army Engineers, recommends federal expenditure of \$7,700,000 for propose water conservation program in California, \$7,370,000 for proposed Kennett reservoir and \$330,000 for Sacramento river channel improvements; proposal involves a 6-ft. channel from Chico Landing to Sacramento. 22

REDWOOD CITY, San Mateo Co., Cal.—County Harbor Project carried at June 27 election. Port Commission will meet and take steps to place the project before U. S. Government for inclusion in public works bill; \$300,000 to be requested.

SAN DIEGO, Calif.—Until 10 A. M., July 10, bids will be received by city council for dredging at Alexander Shoals in the San Diego harbor. The work will involve handling about 600,000 cu. yds. material. Specifications obtainable from A. Rey Sauer, Jr., purchasing agent.

SACRAMENTO, Cal.—State Reclamation Board, State Office Bldg., Sac-

ramento, adopts tentative construction program for coming fiscal year, including raising, widening and strengthening of levees as follows:

Sacramento River: From the Parrot and Phelan Ranch south to the mouth of Butte Creek on the east side of the river; West side of the river from the north end of the project southerly to Wohlfrom Bend, just below Princeton, to join up with work now under construction; West side Levee District; Reclamation District No. 730.

Feather River: Reclamation District No. 784; Reclamation District No. 777; Marysville City Commission Levee.

Yolo By-Pass: From Fremont Weir southerly to the S. P. Railroad. Cache Creek Settling Basin. Willow Slough. Georgiana Slough. Miner Slough.

Total of this work, \$1,257,310, of which the U. S. will bear \$597,041, the state \$539,514, the balance, \$120,755, to be borne by landowners.

SEATTLE, Wash.—U. S. Engineer Office, Burke Bldg., Seattle, will call bids shortly for harbor improvement projects as follows:

Dredge 3,260,000 cu. yds. from Willapa Harbor, Wash.

Dredge 1,890,000 cu. yds. from Duwanish waterway, Seattle Harbor.

Dredge 5400 cu. yds. loose material and remove 3500 cu. yds. rock from Sitka Harbor, Alaska.

SACRAMENTO, Cal.—Hydraulic Dredging Co., Ltd., 1217 Central Bank Bldg., Oakland, at \$.079 cu. yd. submitted low bid to U. S. Engineer Office, Sacramento, to dredge 489,000 cu. yds. material from Suisun Bay near the mouth of New York slough and from New York slough between its mouth on Suisun Bay and the mouth of Middle Slough. Other bids were: American Dredging Co., San Francisco, \$.0797; S. F. Bridge Co., \$.0965; Estimate, \$.0947. Bids held under advisement.

25—MACHINERY AND EQUIPMENT

SACRAMENTO, Cal.—Until July 15, 2 P. M., under Quo. No. 46,109, Req. No. HS4990, bids will be received by State Purchasing Agent, Sacramento, to furnish seven leaning wheel graders, 8-ft. blade, rubber-tired, with scarifier attachment, f.o.b. Sacramento.

Under Req. 8397, f.o.b. Fresno, five do.

Under Estimate 6079, f.o.b. North Hollywood, three do, one 7-ft. do, and three 8-ft. do without scarifiers.

LONE PINE, Inyo Co., Cal.—Until July 13, 2 P. M., under Quo. No. 46217 Req. No. A 11925, bids will be received by State Purchasing Agent, Sacramento, to furnish two pneumatic-tired dual or tandem drive one-man motor graders with canopy top and curtains, 10-ft. blade and front scarifier attachment with tooth spacing not more than 4-in. center to center. Delivery f.o.b. Lone Pine Station, Inyo County, via spur.

NORTH HOLLYWOOD, Los Angeles Co., Cal.—Until 10 A. M., July 10, bids will be received by the State Purchasing Agent, Sacramento, for furnishing one pneumatic tired, wheel type tractor for Division of Highways, Shop No. 7, f.o.b. North Hollywood. Quotation No. 46196. Requisition No. 6080.

FT. DUCHESNE, Utah.—Bids will be received by Uintah Indian Agency, Ft. Duchesne, Utah, to furnish eight grain binders, 6-ft. cut. Specifications obtainable from Supt. Bids will be opened July 10.

LOS ANGELES, Cal.—Bids for furnishing and delivering to Water and Power Department f.o.b. Construction Equipment Section, 410 Ducommun St. three gasoline driven No. 10-S, non-tilting drum type cement mixers under Spec. No. 3126, were opened by A. J. Holm, City Purchasing Agent, June 29. The bids were asked on a basis of the bidder granting to the department options to purchase one or more but not to exceed three additional mixers as described above, at same prices, terms, etc., within 90-day period after award of contract. The bids were:

Harry C. Collins Machinery Co., \$1-022.75. Terms, 3% 30 days. Leach model 10-S. Add \$55 per unit for skip shaker. Option granted.

Smith, Booth, Usher, \$1195. Terms net. Jaeger 10-S. Option granted.

W. A. Bremer, \$1220. Terms, 2%, 30 days. Bremer 10-S. Option granted.

N. K. Davis, Inc., \$1225. Terms, 2% 20 days. Davis model. Option granted.

Brown-Bevis Co., \$1255. Terms, 2% 30 days. Master 10-S, 1933. Option granted.

Concrete Machinery & Supply Co., \$1275. Terms, 2% 30 days. Rex 10-S. Option granted.

Garlinghouse Bros., \$1450. Terms, net. Sansome 10-S, model "S." Option granted.

Harron, Rickard & McCone, one at \$1495; two at \$2840; three for \$4037. Terms, 3% 10 days, 10-S, N. E. C. Dandy Mixer.

30—RESERVOIRS & DAMS

PASADENA, Calif.—Consolidated Steel Corp., 5701 E. Slauson Ave., Los Angeles, awarded contract by the city directors June 28 at \$6690 to furnish pier plates and appurtenances for spillway gates for the Pine Canyon Dam. Spec. S.G-10.

GLASGOW, Mont.—U. S. War Department, Washington, D. C., has under consideration the construction of a dam at Fort Peck, 20 miles southeast of Glasgow. It will be of earth fill type with concrete facing, tunnels and spillways. The dam will be 231 ft. in height and have a capacity of 17,000,000 ac. ft. The estimated cost is \$65,000,000.

CAPITAL CITY TITLE COMPANY

▼

J. C. PALEN,
Manager

▼

914 Seventh Street
Sacramento :: California

CUCAMONGA. San Bernardino Co., Cal.—Royal V. Ward, 1515 West Arrow Highway, Upland, engineer and manager, has completed plans for an earth fill dam and de-silting basin to be built on Cucamonga Creek, a tributary of the Santa Ana River, for the Cucamonga Basin Protective Assn. of Cucamonga. The proposed dam will be of the earth type, 5600 ft. long at the crest, 22 ft. in height streambed to spillway crest, 10 ft. thick at the top and 120 ft. at the bottom. The dam will involve a total of 110,000 cu. yds. material. The slope downstream will be 2 to 1, and the upstream slope (with earth facing) will be 3 to 1. There will be two spillways with two 36-in. and two 48-in. rubble concrete conduits. The capacity of the reservoir will be 250 ac. ft. The other officials of the company are: A. C. Reynolds, 2019 Euclid Ave., Upland, president, and J. F. Grass, Jr., 1571 N Hellman Ave., Alta Loma.

31—PIPE LINES & WELLS

SAN FRANCISCO—Robert Garcia, Palo Alto, at \$4212.60 awarded contract by Public Utilities Commission to drill four inspection wells, Calaveras Dam.

LOS ANGELES, Cal.—Saunders Bros., Whittier, awarded contract by the county supervisors June 26 at \$1600 for drilling and developing a well 200 feet deep and lining it with No. 10 new red steel 18-in. double casing at Rancho Los Amigos (County Farm). William Davidson, chief mechanical engineer, 1006 Hall of Records.

WALLA WALLA, Wash.—A. A. Durand, Walla Walla, at \$1998 awarded contract by U. S. Veterans Administration for developing and testing deep well for Veterans Administration Facility, Walla Walla.

32—SEWERS & SEWAGE DISPOSAL PLANTS

LOS ANGELES, Cal.—J. E. Rockhold, county surveyor, instructed by county supervisors to prepare plans and specifications for a drainage system to serve the watershed of East Compton Creek, including portions of Bell, Maywood, Huntington Park, South Gate, Lynwood and Compton. Jurisdiction has been granted by the city councils of the cities named. Portions of the proposed system, including the Hooper Ave. storm drain and the Glen Ave. storm drain, have been the subject of detailed preliminary study, the laying of the utility lines having been regulated by a scheme devised by C. E. Arnold, storm drain engineer. If possible, the county plans to construct this system from federal public works funds.

LOS ANGELES, Calif.—Artukovich Bros., 912 Atlantic Blvd., Hynes, were awarded contract by board of public works June 30, at \$10,112.60 (type 2) for constructing sewers in Colfax Ave. bet. Magnolia Ave. and 1320 ft. south of Moorpark Ave. under the 1911 act.

LONG BEACH, Cal.—Pacific Clay Products Co., 650 Chamber of Commerce Bldg., Los Angeles, submitted low bid to E. S. Dobbins, city manager June 28 at \$6485 to furnish vitrified clay sewer pipe under Spec. No. R-747.

LOS ANGELES, Calif.—Bebek and Brkich, 421 N Record St., submitted low bid to board of public works, June 28 at \$1342.58 for the construction of sewers in the Chicago Street

and alley south of Marengo St. Sewer District.

TO PREPARE PLANS

EL CERRITO, Alameda Co., Cal.—City council orders assessment district formed and plans prepared by City Engineer H. D. Chapman for Fairmont Ave. storm sewer; estimated cost, \$40,000. 32

LOS ANGELES, Calif.—Bebek and Brkich, 42 N Record St., awarded the contract by board of public works June 30 at \$1342.58 for the construction of sewers in the Chicago St. and alley south of Marengo St. Sewer District.

PORTLAND, Oregon—Until July 12, 9:30 A. M., bids will be received by Geo. R. Funk, city auditor, to construct sewer in SE Main St. and SE 73rd Ave. Specifications obtainable from city engineer. Certified check for 10% required with bid.

33—WATER WORKS

SOQUEL, Santa Cruz Co., Cal.—Soquel Public Utilities district defeats proposal to form water district and install water system at election June 27. Estimated cost, \$65,000.

SAN FRANCISCO—Chas. L. Harney, 74 New Montgomery St., at \$17,250 awarded contract by Public Utilities Commission to construct concrete siphon for Crystal Springs Aqueduct.

SAN FRANCISCO—Lowrie Paving Co., 1540 16th St., at \$13,716.95 awarded contract by Public Utilities Commission to lay 16-in. and 12-in. cast iron feeder mains for Lakeview Hill, Daly City and Crocker-Amazon tract.

BOULDER CANYON, Nevada—Southwest Foundry & Machine Co., Ltd., 1481 Water St., Long Beach, awarded contract by A. McD. Brooks, Purchasing Agent, U. S. Bureau of Reclamation, Denver, Colo., at \$1489.12 f.o.b. Long Beach, for furnishing trash rack castings and anchor bolts complete, Schedule Nos. 1 and 4, Bid No. A-3226-A. Boulder Canyon. The bids were opened June 12.

POMONA, Los Angeles Co., Cal.—The American Cast Iron Pipe Co., Los Angeles, awarded contract by city water department at 38.5c ft. for 7000 ft. 4-in. class 150 bell and spigot cast iron pipe. The other bids (informal) were:

Pacific States Cast Iron Pipe Co., 39c (precaulked, 43c).
U. S. Pipe & Foundry Co., 39.5c.
Grinnell Co., 39.9c.
National Cast Iron Pipe Co., 39.9c.
Utilities Supply Co., 42.4c.

MIDWAY, Wasatch Co., Utah.—Midway Waterworks Co. granted \$6,000 loan by Reconstruction Finance Corp. for replacement of wood stave water main by cast iron pipe, materials to cost \$5000.

RIVERSIDE, Riverside Co., Calif.—Valley of Enchantment Mutual Water Co. granted \$2700 loan by Reconstruction Finance Corp. for extension and improvement of existing water supply system, involving a 55,000 gal. concrete reservoir and 4000 ft. 4-in. pipe.

SANTAQUIN CITY, Utah.—Santaquin City Corp. granted \$22,000 loan by Reconstruction Finance Corp. to replace five mile wood stave pipe in water supply system by cast iron pipe.

SAN BERNARDINO, Calif.—Pacific Pump Works, Ltd., 5716 Bickett St., Huntington Park, awarded contract by

city board of water commissioners on June 27 at \$969 to furnish a booster pump with direct connected low speed motor for installation at the Hanford Pumping Plant on D St.

LOS ANGELES, Calif.—Johnson Pump Co. awarded contract by Saul A. Joseph, Purchasing Agent of the Metropolitan Water District June 28 (item 1) at \$1595. to furnish pumps under Bid No. 11789.

LOS ANGELES, Cal.—Herbert's Machinery Co. awarded contract by Saul A. Joseph, Purchasing Agent of the Metropolitan Water District, June 30 at \$3080.63, lowest bid meeting specifications, for furnishing pump under Spec. No. 11,704.

LOS ANGELES, Cal.—Santa Fe Pipe & Supply Co. awarded contract by A. J. Holm, City Purchasing Agent, at \$1600 to furnish and deliver f.o.b. Construction Service Yard, Griffith Park, 10,000 ft. 2-in. wrought steel, galvanized pipe, T&C under Bid No. 6204.

LOS ANGELES, Cal.—Santa Fe Pipe & Supply Co. awarded contract by A. J. Holm, City Purchasing Agent, at \$1060 to furnish and deliver f.o.b. Construction Service Yard, Griffith Park, 20,000 ft. ¾-in. wrought steel galvanized pipe, T&C, under Bid No. 6205.

HAYWARD, Alameda Co., Calif.—Pittsburgh-Des Moines Steel Co., Rialto Bldg., San Francisco, at \$3125, awarded contract by city council to construct a 25,000-gal. elevated steel tank, 60-ft. to bottom capacity, for municipal water system.

Low bid submitted by Rolph Mills & Co., 525 Market St., San Francisco, at \$2744.

NEVADA CITY, Nevada Co., Cal.—Sacramento Pipe Works at \$77 per ft. awarded contract by city council to furnish 2900 ft. 15-in. wrapped wrought iron pipe to replace wooden pipe from the Canada Hill reservoir to connect with city water mains.

Bids were also called for trenching and laying pipe, but none were received. Work will probably be done by day labor.

SACRAMENTO, Cal.—Republic Mining and Manufacturing Co. submitted low bid to city council at \$16.90 per ton to furnish 200 tons Bauxite for city filtration plant. Bid referred to the city manager.

BOULDER CANYON, Nev.—Until 2 P. M., July 20, bids will be received by the U. S. Bureau of Reclamation, Denver, Colo., for furnishing high-pressure gates for upstream plugs in Tunnels Nos. 2 and 3, Boulder Dam, Boulder Canyon Project, under Specifications No. 542. The items are:

- (1) 6x7.5-ft. high-pressure gates with 27-in. hydraulic holsts, and semi-automatic gate hangar, each gate to include:
 - (a) 6x7.5 ft. high pressure gates, complete;
 - (b) semi-automatic gate hangers.
- (2) 6x7.5-ft. conduit linings with bolts, copper gaskets, and felt washers:
 - (a) 6x7.5-ft. conduit lining sections;
 - (b) 6x7.5-ft. conduit lining traction joints (each joint made in two sections);
 - (c) 1¼-in. x 7½-in. steel machine bolts;
 - (d) copper gaskets;
 - (e) 2x3½x¼-in. felt washers.

HEBER, Imperial Co., Cal.—A \$15,000 loan for the construction of a water works system for the town of Heber, 6 miles southeast of El Cen-

tro, has been granted to the Heber Public Utility District, by the Reconstruction Finance Corp. Bonds were voted Jan. 31, 1931. Plans for the project were prepared by Phillip W. Knights, engineer, who is also city engineer, of El Centro. The work involves:

Pumping plant, housed in a corrugated iron pump house, 20x24 ft., with corrugated iron roof and concrete floor, with equipment as follows-

Two 3-in. centrifugal pumps of 300 G. P. M. each, one driven by electric motor the other by gasoline motor as an auxiliary unit.

Tank and tower: one 16,000-gallon corrugated iron or sheet metal tank, with wood tower, 80 ft. to overflow.

Settling basin: involving 4500 cu. yds. excavation.

Distribution system involving:

1460 ft. 6-in. cast iron pipe;

2340 ft. 4-in. cast iron pipe;

1540 ft. 3-in. cast iron pipe;

5455 ft. 2-in. cast iron pipe.

with fittings, etc.

LOS ANGELES, Cal.—Bids for furnishing and delivering to Water and Power Department, f. o. b. Bouquet Canyon reservoir construction site, 16 miles northeast of Saugus, Sluice gates under Specifications No. 3129, opened by A. J. Holm, City Purchasing Agent, June 28, follow:

(1) 3 42x60-in. sluice gates with rectangular opening flat frame with spigot extension to fit into rectangular concrete opening and guaranteed to operate under a working hydrostatic unseating head of 111 feet;

(2) one 42x60-in. do, head of 79 ft.;

(3) one 42x60-in. do, head of 47 ft.;

(Alt. 1) 3 42x60-in. do, except equipped with adjustable side, top and bottom bronze mounted wedges;

(Alt. 2) one 42x60-in. do, except equipped with adjustable side, top and bottom bronze mounted wedges;

(Alt. 3) one 42x60-in. do, except equipped with adjustable side, top and bottom bronze mounted wedges;

The bidderse were:

Hacker Pipe & Supply Co. Terms net. Delivery 5 weeks: (1) \$725; (2) \$725; (3) \$725; (Alt. 1), \$911.65 (Alt. 2), \$911.65; (Alt. 3), \$911.65.

Joshua Hendy Iron Works. Terms net, (1) \$459.50; (2) \$459.50; (3) \$459.50.

Vernon Tool Co. Terms net. (1) \$467.95; (2) \$467.95; (3) \$467.95.

Baash-Ross Tool Co. Terms net. \$512; (2) \$512; (3) \$512.

Crane Co. Terms net. (1) \$742.50; (2) \$742.50; (3) \$665.

SAN FRANCISCO—Enterprise Fdry. Co., 2302 19th St., at \$.0375 per pound awarded contract under Bid No. 1003 by T. A. Brooks, City Purchasing Agent, to furnish cast iron fittings for San Francisco Water Dept. for term from July 1, 1933, to June 30, 1934.

35—TUNNELS

SAN FRANCISCO.—Yoddall Const. Co., 215 Market St., at \$22,990 was awarded contract by Public Utilities Commission (previously reported as being awarded to Barrett and Hilp, which was in error) to construct Lakeview Hill Tunnel.

LOS ANGELES, Calif.—H. W. McKinley, 1326 Central Ave., Glendale, awarded subcontract by Floyd Shofner and J. N. Gordon, general contractors, for excavating bet. 12,000 and 15,000 cu. yds. for tunnel access at Hayfield No. 2 tunnel of the Colorado River Aqueduct. McKinley is moving

in with his equipment this week.

35

LOS ANGELES, Cal.—Blue Diamond Corp. awarded contract by the Morrison Knudson Co. for reinforcing steel in the diversion tunnel at San Gabriel Dam No. 1. Morrison Knudson Co. is building the diversion tunnels for the West Slope Construction Co., general contractor on the dam.

35

LOS ANGELES, Calif.—Commercial Shearing & Stamping Co. awarded the contract by Saul A. Joseph, Purchasing Agent of the Metropolitan Water District, June 30 at \$4029.59 to furnish tunnel liner equipment under Spec. No. 11,551.

29—STREETS AND HIGHWAYS

NEVADA STATE—As previously reported, until July 12, bids will be received by S. C. Durkee, State Highway Engineer, Heroes Memorial Bldg., Carson City, for highway construction as follows:

ESMERALDA AND NYE COUNTIES, at 2 P. M., 9.77 mi. oiling between Miller's Cut-Off Road and Tonopah.

DOUGLAS AND LYON COUNTIES, at 2:30 P. M., 15.15-mi. oiling from 5 mi. east of Holbrook to East County Line, and from Yerington to 9½ mi. east.

WHITE PINE COUNTY, at 3 P. M., 12.62 mi. graveling from West foot of Antelope Summit to Illipah.

ELKO COUNTY, at 3:30 P. M., 18.02 mi. grade and gravel surface from Little Salmon River to State Line.

Specifications obtainable from office on deposit of \$5. \$2.50 of which is returnable, except the Elko County job, for which a deposit of \$15, \$10 returnable, is required. Certified check 5% required with bid.

SAN FRANCISCO—Pacific Pavements Co., 85 Barstow St., at \$50,214 awarded contract by Public Utilities Commission to repave street or sidewalk openings where pavement has been removed for S. F. Water Department for fiscal year ending June 30, 1934.

LOS ANGELES, Cal.—Associated Constructors, Inc., 1226 S. La Brea Ave., awarded contract by Board of Public Works, June 26, at \$101,004.30, for the improvement of Venice Blvd. (south roadway), between La Cienega Blvd. and Overland Ave. Cash Contract.

LOS ANGELES, Cal.—A. E. Pearson, 2225 Glencoe Ave., Venice, submitted low bid to the board of public works June 28 at \$1096.65 to improve first alley south of Pico Blvd. bet. Wooster St. and Robertson Blvd., under 1911 Act.

MADERA and Fresno Cos., Calif.—Tiffany, McReynolds & Tiffany Co., 535 N 7th St., San Jose, at \$15,824 awarded contract by U. S. Bureau of Public Roads for approximately thirty miles asphalt surface treatment on Sections A, B and C, Route 74, Northfork National Forest Highway, Sierra National Forest.

MONTEREY COUNTY, Cal.—Santa Maria Const. Co., 101 N Broadway, Santa Maria, at \$13,510.20 submitted low bid to District Engineer, State Highway Commission, San Luis Obispo, to treat with cutback asphaltic road oil 7.8 miles existing roadbed between Molera's Ranch and Rocky Creek, involving 690 tons cut-back asphaltic road oil. Complete bids follow:

Santa Maria Const. Co., Santa Maria, \$19.58; total \$13,510.20.

J. A. Briscoe, Arroyo Grande, \$20.20 total \$13,938.

Granite Const. Co., Watsonville, \$24.88; \$17,167.20.

Western Motor Transfer, Inc., Santa Barbara, \$26; \$17,940.

Tiffany, McReynolds, Tiffany, San Jose, \$26.47; \$18,264.30.

Bids held under advisement.

SAN DIEGO COUNTY, Cal.—Griffith Co., 502 Los Angeles Railway Bldg., Los Angeles, at \$10,611 awarded contract by State Highway Commission for highway construction between Sorrento Creek and Del Mark, 0.25 mile to be graded and paved with portland cement concrete.

OREGON STATE.—All bids rejected and new bids will be called shortly by State Highway Commission to construct 15.95 miles asphaltic concrete pavement, Aurora-Brooks and Canby Sections, Pacific Highway, contracts to have been let in two units of approximately equal size. West Contracting Co. submitted low bid at \$176,100 for North Unit, with an alternate of \$175,560; Parker Schram Co. submitted low bid at \$163,797 for the South Unit, with an alternate of \$162,967.

LOS ANGELES, Calif.—Until 10 A. M., July 12, bids will be received by board of public works for improving Lincoln Blvd. from Venice Blvd. to Washington Blvd., under cash contract, involving:

- (1) lump sum for all grading, inc. removals;
- (2) 117,933 sq. ft. 5-in. asph. concrete base;
- (3) 116,338 sq. ft. 2-in. (gran-type Warrenite-Bit.) wearing surf.;
- (4) 4004 sq. ft. various thickness (average 2-in.) Warrenite-Bitulithic wearing surface;
- (5) 4535 sq. ft. 4-in. asph. concrete wearing surface;
- (6) 4336 sq. ft. 7-in. conc. pave.;
- (7) 3959 ft. unplastered heavy curb;
- (8) 79 ft. curb armor;
- (9) 730 sq. ft. 6-in. conc. sidewalk (driveways);
- (10) 32 693 sq. ft. 1-course sidewalk;
- (11) 4909 sq. ft. 7-in. conc. gutter;
- (12) sanitary sewer complete, not including house connections;
- (13) 75 ft. 6-in. V.C. pipe house connection sewers;
- (14) orna. lighting conduit complete;
- (15) reset 7 manholes;
- (16) 1595 sq. ft. white concrete traffic lines;

The sewer and conduit involve detailed quantities as follows:

SANITARY SEWER

75 ft. 6-in. vit. clay house connection sewers;
3 10x6-in. sables;
2 manholes "B";
2 manhole frame and cover sets;
reset 7 manholes.

CONDUIT

140 ft. 2-in.;

5642 ft. 1½-in.

LONG BEACH, Calif.—Sully-Miller Contracting Co., 1500 W 7th St., Long Beach, submitted the low bid to E. S. Dobbin, city manager, June 29 at \$3,-926.80 for paving Pico St. from Ocean Blvd. to Seaside Blvd., under cash contract.

LONG BEACH, Calif.—Sully-Miller Contracting Co., 1500 W 7th St., Long Beach, awarded contract by E. S. Dobbin, city manager, June 30 at \$3,-926.80 for paving Pico St. from Ocean Blvd. to Seaside Blvd.

EVERETT, Wash.—Snohomish Co. Commissioners plan to improve 3¼ miles of Darrington-Bennett's store road by light grading.

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

ANAHEIM BAY BRIDGE—ORANGE COUNTY

ORANGE COUNTY, Calif.—R. R. Bishop, 5017 E Broadway, Long Beach submitted low bid to District Engineer, State Highway Commission, Los Angeles, June 21 at \$12,581.50 for bridge construction at Anaheim Bay bridge, near Seal Beach, constructing approach spans and repairing existing bridge, involving:

- (1) 1950 cu. yds. excavation;
- (2) 1760 lin. ft. furnish creos. Douglas fir piles;
- (3) 44 drive do;
- (4) 65 cu. yds. Class A portland cement concrete;
- (5) 6 cu. yds. Class E do;
- (6) 8000 lbs. bar reinf. steel;
- (7) 39,000 lbs. struc. steel;
- (8) 7 F.M.B.M. creos. Douglas fir timber, sel. struc. grade;
- (9) 150 hours rent compressor, including operator;

- (10) 150 hours rent chipping hammer, including operator;
- (11) 150 hours rent gunite outfit, including crew;
- (12) 50 hours rent sandblast outfit, including crew;
- (13) 20 hours rent tank truck, including driver;
- (14) 350 sacks portland cement for gunite;
- (15) 90 tons sand for gunite;
- (16) 10 tons sand for sandblasting;
- (17) 1 lot staging complete;
- (18) move equipment to and from job
- (19) repair removable span.

The total bids were:

- (A) R. R. Bishop, \$12,581.50.
- (B) Weymouth Crowell Co., \$14,441.00.
- (C) John Strona, \$17,831.55.
- (D) Oscar Oberg, \$19,116.00.
- (E) Byerts & Dunn, \$23,443.50.

The unit bids follow:

	(A)	(B)	(C)	(D)	(E)
(1).....	\$ 1.35	\$.50	\$.725	\$ 1.25	\$ 1.60
(2).....	.40	.50	.67	.50	.60
(3).....	12.00	13.00	21.40	35.00	25.00
(4).....	14.00	15.00	21.80	29.50	25.00
(5).....	55.00	60.00	61.00	100.00	70.00
(6).....	.075	.03	.04	.045	.04
(7).....	.045	.05	.062	.05	.06
(8).....	60.00	64.00	93.50	90.00	100.00
(9).....	7.00	1.90	6.20	6.60	5.25
(10).....	2.00	1.30	6.35	1.95	2.00
(11).....	7.00	10.00	6.10	12.70	12.00
(12).....	5.00	6.00	6.10	9.35	9.00
(13).....	3.00	3.00	1.80	2.55	1.00
(14).....	.60	.60	1.22	.70	.60
(15).....	1.30	1.50	1.84	1.50	2.30
(16).....	3.50	5.40	2.44	1.50	1.50
(17).....	300.00	72.00	366.00	500.00	2000.00
(18).....	150.00	90.00	122.00	100.00	500.00
(19).....	1500.00	5140.00	4886.00	4100.00	6500.00

WATER PIPE FITTINGS—EAST BAY MUNI. DIST.

OAKLAND, Calif.—Grinnell Co. of the Pacific, 5th and Brannan Sts., Oakland, at \$4984.50 (lump sum) submitted low bid to East Bay Municipal Utility District, Oakland, to furnish 1515 cast iron h&s water pipe fittings, sizes from 4- to 8-in., involving:

- (1) elbows (complete schedule);
- (2) cast iron tees;
- (3) cast iron crosses;
- (4) sleeves;
- (5) nipples and plugs;

- (6) reducers and risers.

The total bids were:

- (A) Grinnell Co., \$4984.50
- (B) Phoenix Iron Works, \$5055.55
- (C) Santa Fe Foundry, \$5079.80
- (D) Vernon Foundry, Inc., \$5125.60
- (E) United Iron Works, \$5890.00
- (F) Reliable Foundry Co., \$7150.00
- (G) Pacific State C. I. Pipe, no lump
- (H) American C. I. Pipe, no lump
- (I) Ipameco Pipe Corp. (part'l), \$1726.56

The unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
(1) \$ 636.00	\$ 693.50	\$ 643.55	\$ 663.80	\$ 832.35	\$ 978.50	\$ 811.00	\$ 711.00	\$ 202.50	\$ 202.50
(2) 1343.05	1281.00	1260.40	1385.75	1613.00	2068.00	1631.20	1347.00	699.37	699.37
(3) 559.25	593.70	524.90	576.75	671.20	860.50	686.10	553.50	585.54	585.54
(4) 707.75	654.00	663.75	730.40	817.50	981.50	729.00	612.60	192.90	192.90
(5) 512.40	452.50	566.00	503.65	572.60	743.00	467.30	405.00	28.40	28.40
(6) 1226.05	1647.75	1420.80	1265.25	1510.50	1888.25	1366.30	1168.25	17.85	17.85

BIDS OPENED

LOS ANGELES, Cal.—Bids to furnish and deliver to Water and Power Dept. f.o.b. location shown below, miscellaneous bell and spigot cast iron water pipe under Spec. No. 3123, opened by A. J. Holm, City Purchasing Agent June 26 follow:

F.o.b. bidder's trucks, Dept. of Water and Power, Hewitt St. yard, Los Angeles:

- (1) 15,000 ft. 6-in. I. D. pipe, delivery Nov. 15, 1933;
- (2) 25,000 ft. 8-in. do, Oct. 7, 1933;
- (3) 25,000 ft. 8-in. do, Jan. 7, 1934;
- (4) 20,000 ft. 12-in. do, Sept. 1, 1933.

F.o.b. cars or trucks, Dept. of Water and Power, Slauson and Compton Ave. yard, Aqua Siding, A. T. & S. F., Ry. delivery, Los Angeles:

- (5) 15,000 ft. 6-in. I. D. pipe, delivery Sept. 15, 1933;
- (6) 25,000 ft. 8-in. do, Dec. 7, 1933;
- (7) 15,000 ft. 12-in. do, Nov. 1, 1933.

F.o.b. bidder's trucks, Dept. of Water and Power's yard at Aetna and Vesper Sts., Van Nuys:

- (8) 15,000 ft. 6-in. I. D. pipe, delivery Aug. 15, 1933;
- (9) 15,000 ft. 6-in. do, Oct. 15, 1933;
- (10) 25,000 ft. 8-in. do, Sept. 7, 1933;
- (11) 25,000 ft. 8-in. do, Nov. 7, 1933;
- (12) 20,000 ft. 12-in. do, Aug. 1, 1933;
- (13) 15,000 ft. 12-in. do, Oct. 1, 1933;
- (14) 15,000 ft. 12-in. do, Dec. 1, 1933.

The bidders were:

- (A) Pacific States C. I. Pipe Co., net.
- (B) American C. I. Pipe Co., net.
- (C) National C. I. Pipe Co., net.

(D) R. D. Wood & Co., net.
(E) U. S. Pipe & Foundry Co., net.
The bids were:

	(A)	(B)	(C)	(D)	(E)
(1).....	\$.69	\$.67	\$.66	\$.66	\$.647
(2).....	1.00	1.00	1.00	1.00	.937
(3).....	1.00	1.00	1.00	1.00	.987
(4).....	1.98	1.98	1.99	1.99	1.97
(5).....	.67	.67	.638	.638	.66
(6).....	1.00	1.00	.978	.978	1.01
(7).....	1.98	1.98	1.968	1.968	2.01
(8).....	.67	.67	.655	.675	.66
(9).....	.69	.67	.655	.675	.66
(10).....	1.02	1.005	1.005	1.01	1.01
(11).....	1.02	1.005	1.01	1.01	1.01
(12).....	2.00	2.00	2.03	2.03	2.01
(13).....	2.00	2.00	2.03	2.03	2.01
(14).....	2.00	2.00	2.03	2.03	2.01

BIDS OPENED

TUOLUMNE COUNTY, Cal.—M. A. Jenkins and J. W. Hoopes, 3560 Y St., and 5140 14th Ave., Sacramento, at \$7429.90 submitted low bid to District Engineer, State Highway Commission, Sacramento, to grade and pave with Portland cement concrete 0.6 mi. at Sonora and to widen two bridges, involving:

- (1) 6 trees, remove and dispose of;
- (2) 1700 cu. yds. rdwy. excav., unclass;
- (3) 7100 sta. yds. struc. excav.;
- (4) 175 cu. yds. struc. excav.;
- (5) 235 cu. yds. class A Port. cem. concrete (pavement widening);
- (6) 35 cu. yds. do (struc.);
- (7) 112 cp. yds. class C do (struc.);
- (8) 32 lin. ft. 12-in. corr. metal pipe
- (9) 54 lin. ft. 18-in. do;
- (10) 16 lin. ft. 12-in. do;
- (11) 3 move and rest headwalls;
- (12) 12 cu. yds. conc. remove from exist. pave and struc.;
- (13) 130 lin. ft. solid timber guard rail;
- (14) 32 cu. yds. dry rubble wall;
- (15) 1 lot remove portions exist. bridge
- (16) 3500 lbs. bar reinf. steel;
- (17) 1 lot place old struc. steel;
- (18) 8100 lbs. new struc. steel;
- (19) 55 lin. ft. reset pipe railing;
- (20) 110 lin. ft. solid timber railing (bridge);
- (21) 30 sta. finish roadway.

Complete bids follow:

- (A) M. A. Jenkins and J. W. Hoopes \$7429.90.
- (B) S. M. McGaw, Stockton, \$8720.50.
- (C) O. G. Ritchie, San Jose, \$9982.80.

Unit bids follow:

	(A)	(B)	(C)
(1).....	\$ 15.00	\$ 10.00	\$ 5.00
(2).....	.75	.80	1.50
(3).....	.005	.01	.02
(4).....	2.00	1.00	3.00
(5).....	10.00	15.00	13.80
(6).....	15.00	18.00	14.90
(7).....	11.00	12.00	9.50
(8).....	.20	.50	.40
(9).....	.25	.50	.50
(10).....	.25	.50	.75
(11).....	10.00	10.00	15.00
(12).....	3.00	4.00	3.00
(13).....	.90	1.00	.90
(14).....	4.50	6.00	7.00
(15).....	100.00	50.00	200.00
(16).....	.035	.05	.045
(17).....	150.00	25.00	300.00
(18).....	.05	.07	.065
(19).....	.80	.50	.40
(20).....	2.00	1.00	1.25
(21).....	6.00	5.00	3.00

BIDS OPENED

TUOLUMNE COUNTY, Cal.—M. A. Jenkins and J. W. Hoopes, 3560 Y St., and 5140 14th Ave., Sacramento, at \$5440 submitted low bid to District Engineer, State Highway Commission,

Sacramento, to construct a bridge across the Middle Fork of the Stanislaus River, about 52 ml. east of Sonora, consisting of one 71 ft. steel pony truss span and one 27 ft. steel stringer span, involving:

- (1) existing bridge to be removed;
- (2) 25 cu. yds. struc. excav.;
- (3) 77 cu. yds. class A Port. cement concrete;
- (4) 3000 lbs. bar reinf. steel;
- (5) 8200 lbs. new struc. steel;
- (6) 29 MFBM redwood timber, dense select all-heart structural grade.

Complete bids follow:

- (A) M. A. Jenkins and J. W. Hoopes, \$5440.
- (B) Thos. J. Doyle, San Francisco, \$5477.
- (C) Valley Constructors, Inc., Modesto \$6152.75.
- (D) H. Sneed, Berkeley, \$6342.

Unit bids follow.

	(A)	(B)	(C)	(D)
(1).....	\$660.00	\$755.00	\$1548.00	\$1000.00
(2).....	5.00	5.00	2.25	4.00
(3).....	16.00	16.00	15.00	19.00
(4).....	.037	.04	.035	.06
(5).....	.05	.05	.06	.09
(6).....	88.00	85.00	91.00	89.00
				21

BIDS OPENED

WASHOE COUNTY, Nevada—C. G. Willis & Sons, Inc., 2119 E. 25th St., Los Angeles, at \$21,819.10 submitted low bid to and recommended for award of contract by U. S. Bureau of Public Roads, San Francisco, to grade 5.199 mi. Section A, Route 2, Mt. Rose National Forest Highway, Tahoe National Forest, involving:

- (1) 5.2 acres clearing;
- (2) 21,400 cu. yds. unclass. excav.;
- (3) 500 cu yds. unclass. excav. struc.;
- (4) 38,400 cu. yds. unclass. excav., borrow;
- (5) 6000 sta. yds. overhaul;
- (6) 5.199 mi. finish earth graded road
- (7) 23,900 cu. yds. mi. haul borrow;
- (8) 2 cu. yds. class A concrete;
- (9) 36 cu. yds. class B concrete;
- (10) 500 lbs. reinforcing steel;
- (11) 288 lin. ft. 8-in. perf. metal pipe;
- (12) 1036 lin. ft. 18-in. corr. metal pipe;
- (13) 358 lin. ft. 24-in. do;
- (14) 86 lin. ft. 36-in. do;
- (15) extra work, maintain road;
- (16) 90 cu. yds. cru. rock or gravel, backfill;
- (17) 40 right-of-way monuments;
- (18) 1490 lin. ft. fence;
- (19) 1 16-ft. wire gate.

Complete bids follow:

- (A) C. G. Willis & Sons, Inc., Los Angeles, \$31,819.10.
- (B) J. C. Larsen Bros., Sacramento, \$32,528.70.
- (C) Engineer's estimate, \$26,476.20.

Unit bids follow:

	(A)	(B)	(C)
(1).....	\$150.00	\$490.00	\$200.00
(2).....	.43	.45	.30
(3).....	1.00	1.00	1.00
(4).....	.275	.25	.20
(5).....	.02	.03	.02
(6).....	200.00	300.00	100.00
(7).....	.18	.12	.20
(8).....	28.00	30.00	30.00
(9).....	28.00	30.00	30.00
(10).....	.08	.08	.05
(11).....	1.10	2.00	.90
(12).....	1.70	2.00	1.75
(13).....	2.60	2.50	2.40
(14).....	4.75	4.00	4.90
(15).....	300.00	300.00	300.00
(16).....	1.25	5.00	2.00
(17).....	3.50	3.00	4.00
(18).....	.15	.10	.15
(19).....	18.00	25.00	35.00

IMP. ALEMANY BLVD.—NAGLEE TO SAN JOSE

SAN FRANCISCO.—A. G. Raisch, 46 Kearny St., at \$49,283.90 submitted low bid to the Department of Public Works to improve Alemany Boulevard, Section C, from Naglee to San Jose Ave., involving:

- (1) 166,000 sq. ft. asph. conc. pave., 1½-in. wearing surface;
- (2) 4,000 sq. ft. asph. macadam pave.;
- (3) 11,000 sq. ft. asph. concrete, 2-in. wearing surface;
- (4) 36,000 sq. ft. 1-course concrete sidewalk;
- (5) 2,900 lin. ft. armored conc. curb;
- (6) 1,560 lin. ft. Douglas fir header;
- (7) 650 ft. V.C.P. side sewer;
- (8) 450 ft. V.C.P. culvert;
- (9) 1 brick catchbasin;
- (10) 20 brick catchbasins, reset;
- (11) 7 arterial stop signs, reflector type;

- (12) 3 do. wired type;
- (13) 2,760 lin. ft. 2-in. galv. N.E. conduit;
- (14) 600 ft. 1½-in. do;
- (15) 650 ft. lead covered cable;
- (16) 1 pole riser;
- (17) 1 junction box;
- (18) 12 pull boxes;
- (19) 79 ft. wooden bulkhead;
- (20) 4 replant trees;
- (21) 16 guard posts with reflectors.

Complete bids follow:

- (A) A. G. Raisch \$49,283.90
- (B) Fay Imp. Co. \$51,281.60
- (C) Hanrahan Co. \$54,536.70
- (D) C. L. Harney \$54,944.00
- (E) Union Paving Co. \$55,539.70
- (F) Pacific States Const. Co. \$56,922.50
- (G) Pacific Pavements \$59,671.10
- (H) Eaton & Smith \$60,097.90

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
(1).....	\$.23	\$.236	\$.25	\$.25	\$.26	\$.265	\$.28	\$.2535
(2).....	.08	.088	.10	.10	.085	.08	.10	.061
(3).....	.17	.172	.20	.19	.185	.17	.20	.175
(4).....	.10	.108	.11	.11	.11	.11	.11	.10
(5).....	.55	.61	.57	.60	.55	.61	.63	.56
(6).....	.19	.14	.12	.15	.145	.20	.20	.12
(7).....	.48	.60	.60	1.00	.50	1.50	.50	.60
(8).....	.60	1.00	1.00	1.00	.80	.70	.90	.75
(9).....	36.00	57.00	25.00	25.00	40.00	35.00	35.00	65.00
(10).....	50.00	55.50	75.00	70.00	60.00	60.00	60.00	65.00
(11).....	10.00	14.00	19.50	20.00	12.00	11.00	20.00	11.50
(12).....	52.00	45.00	50.00	50.00	40.00	37.50	50.00	45.00
(13).....	.30	.35	.40	.45	.45	.40	.46	.30
(14).....	.25	.30	.27	.35	.35	.33	.33	.25
(15).....	.08	.08	.08	.10	.10	.08	.09	.07
(16).....	20.00	16.50	40.00	50.00	6.00	16.00	40.00	15.00
(17).....	20.00	15.00	26.00	25.00	27.00	16.00	26.00	20.00
(18).....	20.00	17.00	19.00	20.00	17.00	16.00	19.00	20.00
(19).....	1.50	3.30	3.00	3.00	3.50	3.00	3.00	85.00
(20).....	13.50	12.00	10.00	10.00	10.00	15.00	15.00	2.00
(21).....	6.00	6.50	6.00	6.00	1.50	7.00	7.50	6.70

IMP. ALEMANY BLVD.—OCEAN TO SENECA

SAN FRANCISCO.—A. G. Raisch, 46 Kearny Street, at \$35,559.10 submitted low bid to the Department of Public Works to improve Alemany Boulevard, Section C, Ocean Ave. to Seneca Ave., involving:

- (1) 92,000 sq. ft. asph. conc. 1½-in. wearing surface;
- (2) 49,800 sq. ft. asph. macadam;
- (3) 19,000 sq. ft. 1-course concrete sidewalk;
- (4) 3120 lin. ft. armored conc. curb;
- (5) 900 lin. ft. Douglas fir header;
- (6) 127 cu. yds. Class B 2500 pounds concrete in pedestrian subway;
- (7) 15,800 lbs. bar reinf. steel;
- (8) lighting fixtures, water supply, etc., for pedestrian subway, lump sum;
- (9) 12 brick catchbasins;
- (10) 150 ft. V.C.P. culvert;
- (11) 800 ft. V.C.P. side sewer;
- (12) 400 ft. 1½-in. galv. N. C. conduit;

- (13) 1270 ft. 2-in. do;
- (14) 900 ft. 2½-in. do;
- (15) 920 ft. lead covered cable;
- (16) 8 pull boxes;
- (17) 1 junction box;
- (18) 1 arterial stop sign, wired type;
- (19) 1 pole riser;
- (20) 2 more exist. traffic signal foundations;
- (21) 4 replant trees;
- (22) 16 guard posts with reflectors.

Complete bids follow:

- (A) A. G. Raisch \$35,559.10
- (B) Fay Imp. Co. \$37,372.00
- (C) Eaton & Smith \$37,543.10
- (D) Hanrahan Co. \$39,176.00
- (E) Pacific States Const. Co. \$40,738.30
- (F) C. L. Harney \$40,891.50
- (G) Pacific Pavements \$41,952.60
- (H) M. J. Lynch \$42,246.10
- (I) E. J. Treacy \$44,760.60

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
(1).....	\$.23	\$.252	\$.2675	\$.25	\$.27	\$.25	\$.28	\$.28	\$.2815
(2).....	.08	.07	.061	.10	.09	.10	.10	.10	.095
(3).....	.10	.109	.105	.11	.11	.11	.11	.105	.115
(4).....	.55	.61	.61	.57	.61	.60	.63	.65	.60
(5).....	.19	.14	.12	.12	.20	.15	.20	.15	.25
(6).....	19.00	18.00	16.20	20.00	19.50	25.00	22.00	20.00	25.00
(7).....	.0375	.037	.04	.04	.04	.05	.04	.04	.04
(8).....	900.00	687.00	250.00	650.00	900.00	1000.00	650.00	637.00	900.00
(9).....	50.00	57.00	65.00	75.00	60.00	70.00	.60	70.00	75.00
(10).....	.60	1.15	.75	1.00	.70	1.00	.90	1.00	1.00
(11).....	.48	.60	.60	.60	.70	1.00	.50	.65	.90
(12).....	.25	.30	.28	.27	.40	.35	.33	.32	.32
(13).....	.30	.36	.33	.40	.40	.45	.46	.45	.45
(14).....	.50	.54	.47	.60	.60	.65	.71	.70	.70
(15).....	.08	.08	.07	.08	.08	.10	.09	.08	.08
(16).....	20.00	16.50	20.00	19.00	16.00	20.00	19.00	19.00	19.00
(17).....	20.00	16.50	20.00	26.00	16.00	25.00	26.00	26.00	26.00
(18).....	52.00	45.00	45.00	50.00	37.50	50.00	50.00	50.00	50.00
(19).....	20.00	16.00	15.00	40.00	16.00	50.00	40.00	40.00	40.00
(20).....	20.00	12.00	7.50	27.00	16.00	25.00	27.00	27.00	27.00
(21).....	13.15	12.00	2.00	5.00	15.00	10.00	15.00	5.00	10.00
(22).....	6.00	6.50	6.70	6.00	7.00	6.00	7.50	5.00	14.00

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IN THIS ISSUE



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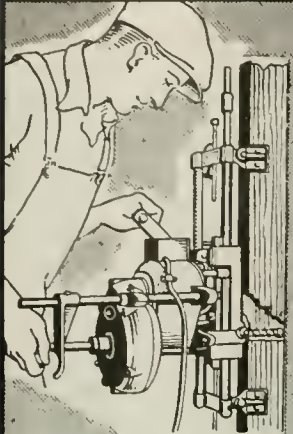
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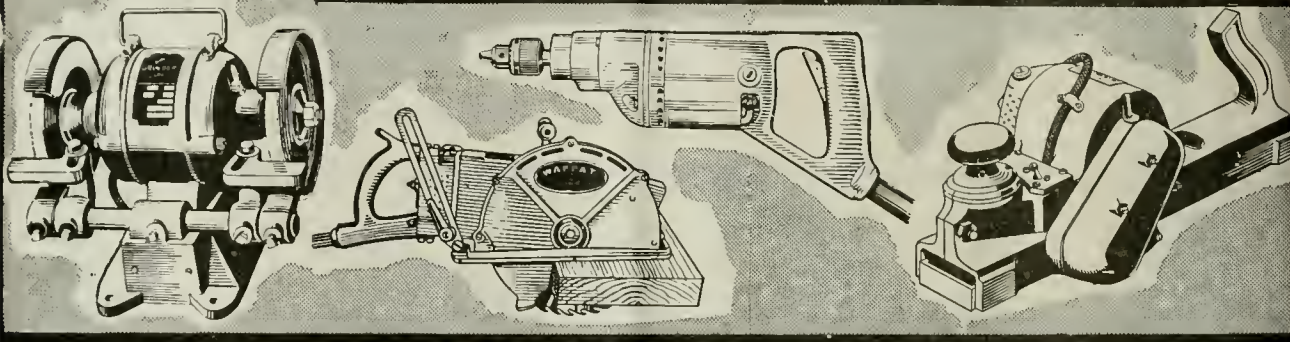
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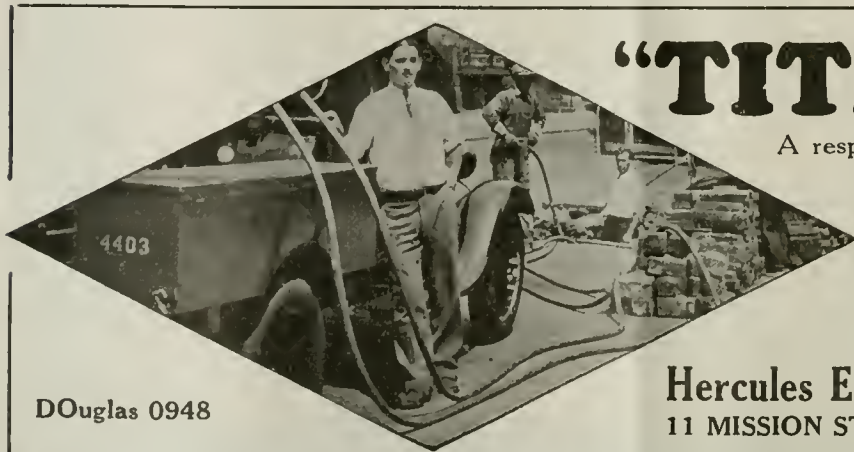
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Vol. XVI

SAN FRANCISCO, CALIF., JULY 15, 1933

No. 26

SHIPMENTS OF LUMBER EQUAL 1931 JULY PACE

**Production Exceeds Any
Week in Two Years;
Orders Steady**

Lumber production during the week ended June 24, 1933, overtopped all records since September, 1931, and lumber shipments since July, 1931; new business though a trifle under that of the week ended June 10, 1933, was otherwise largest in volume since December, 1930 according to telegraphic reports to the National Lumber Manufacturers' Association from regional associations covering the operations of 648 leading softwood and hardwood mills. Production totalled 186,116,000 feet; shipments, \$225,087,000 feet; orders, 253,091,000 ft.

All reporting regions showed excess of new business over production except Northern Pine where production is seasonally heavy. Softwood orders were 32 per cent above production and hardwood orders 75 per cent above hardwood output. Although all regions showed heavy order reports, those of Western Pine mills made a new record at 65,885,000 feet. For the 25 weeks of 1933 to date, orders were 41 per cent above production and shipments were 26 per cent above.

Compared with last year, production was 53 per cent greater than in the corresponding week of 1932; shipments were 68 percent heavier; orders 90 per cent greater. All regions showed gain over last year in all items. For the 25 weeks of the year to date production was 2 per cent above that of similar period of last year; shipments were 1.5 per cent heavier; orders 18 per cent larger.

Unfilled orders at the mills were the equivalent of 25 days' average production. They were 85 per cent heavier than on corresponding date of 1932. Stocks at softwood mills were 30 per cent lighter.

Forest products carloadings at 25,520 cars during the week ended June 17, were the heaviest since October, 1931. They were 8,380 cars above the same week in 1932 but 5,035 cars below the corresponding week of 1931.

THE WEEK'S NEWS Highlights

INDUSTRY CODE. After two preliminary conferences with construction industry leaders in San Francisco and Los Angeles, Colonel Carlos Huntington, registrar of contractors, announced he would hold a series of regional meetings to prepare a state code of fair competition for contractors. Col. Huntington said his department had ample authority under state law to regulate the contracting industry to the same extent that the Federal government is empowered under the National Recovery Act. Representatives of trade groups have asked his office to undertake preparation of a state code, meeting demands of all divisions, Co. Hunting said.

FEDERAL MONEY. The Supervising Architect, Treasury Department, has allocated \$20,759,500 to date for Federal buildings in California to be financed by Federal public works funds, it was announced in Washington. While the appropriation has not yet been approved by the public works committee, the Treasury Department recommendation is considered sufficient to assure adoption. Included in state work proposed is the Los Angeles court house and post office to cost \$9,050,000.

BRIDGE GROUND BREAKING. San Francisco-Oakland bay bridge construction was launched formally with ceremonies on Yerba Buena Island at noon Sunday. Work has been underway on the six major contracts already awarded (\$36,000,000 approx.) for sixty days.

EMPLOYMENT BUREAU. Contractors on San Francisco public works in the future must draw labor from the certified list of the municipal registration bureau. Supervisors voted to establish the bureau on plea of local labor that many applicants for jobs were presenting false residence addresses. Duty of bureau will be to ascertain bona fide residents and issue identification cards.

CALAVERAS CO. WILL NOT JOIN CEMENT MERGER

**Mein Says Firm Has With-
drawn From Negotiations
For Combine**

Calaveras Cement Company will not join the proposed merger of four California companies as a single producing and marketing unit, William W. Mein, its president, declared yesterday.

Mr. Mein did not enlarge on this statement or express an opinion as to the effect that his firm's withdrawal might have on negotiations that were announced six months ago.

"All we want is good, clean competition and a fair chance at our share of the business, and the President's National Recovery Act will give us that opportunity," said Mr. Mein.

"We are solidly behind President Roosevelt in his effort to lift industry and labor out of the chaotic condition of the past three years. The Calaveras plan is ready and will be the first in the United States to submit to the new code of ethics for the industry."

At the same time Mr. Mein announced that his company will commence production next month of pure white cement, the first commercial production of this material on the Pacific coast. The company also will start production of allied cement products, such as waterproofing materials and cement paints.

"Owing to the extremely high freight rates from the east, white cement has not been used extensively on the west coast," Mr. Mein said, "but with the Calaveras plant manufacturing the high-grade product we expect to develop an extensive market on the Pacific coast."

"Unless the railroads equalize freight rates for the Calaveras company we will develop our own transportation system, using trucks from San Andreas to Stockton and barges on Stockton's deep water channel to San Francisco."

The company is having a new road constructed to Calaveritas where a large deposit of lime was purchased recently.

10% OF U. S. LABOR ENGAGED IN CONSTRUCTION

League Chairman Cites Figures Proving Dependence On Industry

Every tenth person gainfully employed in the United States in 1929 depended for his livelihood on construction; of the total of \$11,000,000,000 of construction in that year, the greater part went eventually to wages. Further, just as much employment was furnished indirectly in dependent industries as was created by actual construction work.

This information was presented by Robert D. Kohn, past president of the American Institute of Architects, at a meeting of the Construction League of the United States of which he is general chairman.

"That the railroads, mines, and other contributing industries lean heavily on construction is clear from the facts that one out of every five carloads of freight moved in 1929 carried construction materials in raw or finished form," Mr. Kohn said. "Five per cent of all coal mined with burned to make these materials, and eight per cent of the wholesalers of the country were busy with their distribution. This multiple division of the construction dollar proves it to be a tremendous factor in the complicated and interlocking economic life of today.

"The fact that the jobs of a tenth of America's workers depend on construction brings home the importance of the public works program under the National Recovery Act. Construction paid \$7,000,000,000 to 4,500,000 persons in 1929 out of the total of 48,800,000 gainfully employed. Over half of these workers were engaged in direct construction.

"Engaged in wholesale distribution of the construction materials were 125,000 persons, reporting net sales to the Census Bureau of \$3,129,000,000, part of which was redistributed by 310,000 workers in retail establishments. This distribution group furnishes 10 percent of all construction employment and is one of the most widely dispersed divisions. The design of buildings, structures and projects of all kinds occupied 145,000 architects, draftsmen, engineers and designers in 1929, representing 3 per cent of the construction employees.

"Of the \$11,000,000,000 of construction, contractors built a little more than half, the remainder being done by railroads, public utility

EXTENSION CLASSES PLANNED FOR FALL

The University of California Extension Division which last year provided evening and day classes in a wide variety of subjects for more than 30,000 people has announced that more than 250 new classes of instruction will be started in the bay region during the months of August and September.

"There is no requirement for admission to a class other than the ability to pursue the work with profit," states Professor Leon J. Richardson, Director of Extension.

A new schedule of classes will be available for distribution in August and may be obtained by communicating with one of the offices: in San Francisco, 540 Powell St.; Oakland, 1730 Franklin St.; Berkeley, 301 California Hall.

Among the new classes starting at 540 Powell Street, San Francisco are the following:

Advertising, H. Hilscher, Sept. 12th.

Salesmanship, H. M. Crawford, Sept. 18.

Real Estate Law and Practice, J. A. Grennan, Jr., Sept. 13.

Legal Aspects of Fire Insurance, R. P. Wisecarver, Sept. 14.

Current Events in Finance, M. H. Epstein, Sept. 14.

Current Events, Dr P. W. Buck, Sept. 19.

Interior Decoration, H. J. Powers, Sept. 14.

Modern Interior Decoration, E. A. Hunt, Sept. 22.

Engineering - Strength of materials, N. B. Green, Sept. 12.

Reinforced Concrete Design, V. E. Johnson, Sept. 6.

Reinforced Concrete Theory and Design of Continuous Beams, V. E. Johnson, Sept. 6.

ties companies, municipal governments and the like. Direct employment was 2,500,000 men. New York, Pennsylvania and Illinois led in number of employees on contract construction work.

"In 1929 the raw materials production for construction engaged over 60,000 persons, mostly in the mines and quarries. The value of their products was a half-million dollars. These unfinished stone, ore and mineral products went to the manufacturing industries, which converted them, together with forest products, to finished materials, valued at three and three-quarters billions of dollars. In this manufacturing process 1,100,000 people were engaged, or one out of every ten occupied in all manufacturing industries; the materials were being made in one-fourth of the mills and factories of the country.

FIVE CONTRACTS ARE ADVERTISED BY COMMISSION

Bids August 2 on Highway Work in Alameda, L. A. And San Diego

SACRAMENTO, July 11.—Five contracts on which bids will be received August 2 were ordered advertised today by the State Highway Commission.

The only Northern California work included is for bituminous surface treatment of 1.9 miles between Mission San Jose and Warm Springs.

The other contracts are in Los Angeles and San Diego counties. Los Angeles county contracts are for excavation of slopes 6.8 miles between Palomas Creek and Whit-takes bridge; asphaltic road oil treatment of 18.6 miles roadbed and 2 miles earth shoulders between Neenach School and Del Sur road; asphaltic road oil treatment and bituminous seal coat to be applied on 5.1 miles of roadbed between Wet Canyon and Colby Creek.

San Diego contracts are for grading and paving with portland cement concrete 1.8 miles between Broadway and Harasthy street; asphaltic concrete paving of 4.4 miles between Barnett avenue and Balboa avenue.

NEVADA OUTLINES HIGHWAY PROGRAM

A tentative construction program for Nevada has been prepared by the state highway department providing for expenditure of \$3,524,000. The program calls for work totalling \$2,404,000 on the federal aid system outside corporate limits and \$235,000 within the cities of Elko, Carson City and towns on the Reno-Sparks highway. Feeder roads would receive \$850,000.

HEMSTREET - BELL BUY NEW PLANE

Hemstreet and Bell, Marysville road contractors, have purchased a new airplane, a four-place Waco cabin job to replace the ship they have flown for the past two years. The firm is well-known throughout the state and company officials have made extensive use of their privately-owned plane in supervising contracts in progress at different points.

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CITY BUREAU TO REGISTER LOCAL LABOR

Contractors Must Draw Em- ployees From Authorized List

A registration bureau to insure the carrying out of charter provisions requiring employes on municipal projects to be bona fide residents of San Francisco is to be established under the terms of an ordinance unanimously approved by the Board of Supervisors Monday and scheduled for final passage on July 20.

The bureau will issue registration cards to all applicants for work on city jobs who have been residents of the City and County for a year or more. False declaration of residence or transfer of the card to another person will constitute a misdemeanor.

Under the terms of the ordinance no one will be hired on city construction jobs, either directly or through contractors, without a certificate issued by the bureau.

The ordinance, however, will not apply to workmen on projects paid for wholly or in part by federal funds under the National Industrial Recovery Act. Employment on such work will be governed by the terms of the federal act and rules laid down by federal authorities.

The registration bureau, with offices in the City Hall, will be under the direction of Arthur Curtis, Director of Finance and Records. The staff will consist of clerks at present working in the unemployment relief office.

The measure, introduced by Supervisor Carl Miles of the Public Welfare Committee and sponsored by labor and industrial organizations, is expected to stop effectively the flood of outside labor that is making it difficult for San Francisco workmen to secure jobs.

Representatives of the bureau will contact private employers and urge them to employ workmen bearing cards issued by the bureau.

BARUCH LOW ON ELY POST OFFICE

WASHINGTON, D. C., July 11 —Herbert M. Baruch, Los Angeles, at \$66,690 submitted the low bid to the treasury department on the general contract for erection of the Ely, Nevada, post office. K. E. Parker, San Francisco, was second low at \$68,180, and Wm. MacDonald Const. Co., St. Louis, third low at \$74,428. Plans were prepared by treasury department supervisory architects.

A. P. DAVIS ON BOULDER BOARD

East Bay Engineer Consultant For Colorado River Development

Arthur P. Davis, former director of the United States Reclamation Service and engineer for the East Bay Municipal Utility District, has been appointed to the board of consulting engineers on the Boulder dam project, it was announced yesterday.

Mr. Davis was one of the first engineers to investigate and to recommend the construction of Boulder Dam. His report on the site and type of dam to be constructed was submitted to congress in 1922 and was the basis for further studies.

Starting with the government service in 1894 as topographer for the geological survey in Arizona and New Mexico, he was successively in charge of hydrographical examination for the Panama canal, consulting engineer on the canal, director of the Reclamation Service, consultant to the Czar of Russia on irrigation projects, chief engineer for the Mokelumne water supply development for the East Bay, and consultant for the Soviet government on an irrigation project in Turkestan.

Mr. Davis has been convalescing at his home in Oakland from an operation which he underwent several months ago. He will leave for Boulder City as soon as his health

FINAL DRAFT OF A.G.C. CODE IS PRESENTED

Competitive Practice Recom- mendation Submitted at Washington Meeting

Presentation of the final draft of a code of fair competition for general contractors, in conformity with the requirements of the National Industrial Recovery Act, was made Monday to the entire construction industry at a special open meeting at the Willard Hotel, Washington, by the recently set up National Industrial Control Committee for General Contractors, headed by A. C. Tozzer of New York, president of the Associated General Contractors of America, and composed of representative member and non-member contractors.

Basic principles of the code were approved at an open meeting of general contractors, held under the sponsorship of the Associated General Contractors on June 26 and 27 at Chicago, at which the control committee was authorized to perfect the proposed code for presentation.

"To a large extent," Tozzer said, "the general contractors' code, when approved by the President, will govern the \$3,300,000,000 construction expenditures contemplated by the Recovery Act, as well as the billions of dollars in private construction which can be anticipated during the next two years. The entire construction industry, therefore, should be fully advised as to what we intend to submit to the Administration," he said.

Representatives from all of the constituent member organizations of the Construction League of the United States, composed of national associations of architects, engineers, subcontractors, material producers and others were in attendance.

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U.S. AUTHORIZES \$20,759,500 FOR CALIFORNIA WORK

Nine - Million - Dollar L. A. Courts Building is Largest Allocation

Allocation of \$26,735,500 for federal buildings under the new National Industrial Recovery program in five western states and the territories of Alaska and Hawaii has been announced by the Supervising Architect, Treasury Department.

The list is not yet complete, but includes those buildings for which appropriations were approved prior to July 1, some of which are under contract and others that are being advertised.

Of the total authorization to date California will receive \$20,759,500. The largest single item in the state's appropriation is that for the Los Angeles court house and post office to cost \$9,050,000. Austin & Ashley, Los Angeles, have been commissioned to prepare plans for this building.

The San Francisco federal building on which were opened last February does not appear in the new list. The original bids are still in the hands of the treasury department, with the exception of that of N. P. Severin Company, low bidder, which was withdrawn.

Only one appropriation is included for San Francisco, that of \$150,000 for an Appraisers' Stores building. The largest appropriation in northern California is that for the Fresno federal building, \$650,000.

The complete list for the states of California, Arizona, Oregon, Washington, Alaska and Hawaii as issued by the treasury department July 1, follows: (All are post-office buildings, except as otherwise noted):

CALIFORNIA

Alhambra	\$195,000
Anaheim	\$130,000
Auburn	\$75,000
Bell	\$75,000
Brawley	\$95,000
Burbank	\$155,000
Burlingame	\$190,000
Calexico	\$95,000
Carmel	\$80,000
Claremont	\$85,000
Colton	\$80,000
Compton	\$125,000
Corona	\$85,000
Covina	\$80,000
Culver City	\$120,000
El Monte	\$80,000
Escondido	\$80,000
Fresno Federal Building	\$650,000
Fullerton	\$110,000
Gilroy	\$85,000
Hayward	\$100,000
Hemet	\$80,000
Hollister	\$85,000
Hollywood	\$425,000
Huntington Beach	\$80,000
Huntington Park	\$210,000
Inglewood	\$210,000
La Jolla	\$85,000
Lindsay	\$80,000
Livermore	\$80,000
Lodi	\$105,000
Los Angeles, Ct. H. & P. O.	\$9,050,000
Los Gatos	\$90,000

Madera	\$90,000
Martinez	\$95,000
Monrovia	\$130,000
Montebello	\$85,000
Mountain View	\$85,000
Oceanside	\$85,000
Ontario	\$135,000
Orange	\$90,000
Oxnard	\$95,000
Pacific Grove	\$80,000
Pasadena Federal Building	\$325,000
Paso Robles	\$80,000
Pittsburg	\$105,000
Redding	\$150,000
Redondo Beach	\$120,000
Redwood City	\$115,000
Richmond	\$130,000
Riverside Federal Building	\$360,000
Roseville	\$85,000
Salinas	\$175,000
San Diego, Post Office	\$775,000
San Diego, Marine Hospital	\$440,000
San Diego, Court House	\$25,000
San Fernando	\$95,000
San Francisco Appraisers Stores	\$150,000
San Gaoriel	\$110,000
San Mateo	\$140,000
San Rafael	\$100,000
Santa Barbara Federal Bldg.	\$215,000
Santa Clara	\$85,000
Sant Cruz Federal Building	\$110,000
Santa Maria	\$95,000
Santa Monica	\$300,000
Santa Paula	\$85,000
Sebastopol	\$80,000
South Gate	\$75,000
South Pasadena	\$120,000
South San Francisco	\$80,000
Susanville	\$75,000
Tecate, Border Station	\$59,500
Torrance	\$85,000
Tracy	\$80,000
Tulare	\$100,000
Turlock	\$100,000
Upland	\$80,000
Ukiah	\$80,000
Van Nuys	\$110,000
Venice	\$120,000
Ventura	\$200,000
Watsonville, Post Office Site only	\$60,000
Whittier	\$160,000
Wilmington	\$155,000
Woodland	\$95,000
Yreka	\$75,000
Yuba City	\$80,000

TOTAL \$20,759,500

ARIZONA

Bishee	\$135,000
Flagstaff	\$140,000
Jerome	\$90,000
Kingman	\$75,000
Mesa	\$90,000
Miami	\$110,000
Nogales, Immigration Station	\$150,000
Phoenix Ct. H., Remod	\$40,000
Winslow	\$90,000

TOTAL \$920,000

NEVADA

Lovelock	\$75,000
Not Named	\$75,000

TOTAL \$150,000

OREGON

Ashland	\$85,000
Eugene, Federal Bldg.	\$260,000
Grants Pass	\$150,000
Hillsboro	\$80,000
Hood River	\$90,000
McMinnville	\$85,000
Medford, Federal Building	\$85,000
Tillamook	\$85,000

TOTAL \$920,000

WASHINGTON

Aberdeen, Federal Bldg.	\$250,000
Anacortes	\$85,000
Auburn	\$85,000
Bremerton	\$135,000
Centralia	\$110,000
Kelso	\$115,000
Kent	\$80,000
Laurier, Border Station	\$56,000
Montesano	\$85,000

STATE BOARD WILL PREPARE WORKS PROGRAM

Governor Names Five Officials To Review Local Proposals

Five state officials have been named by Governor Rolph to constitute a clearing house for state public works projects seeking financing under the federal aid program.

The members of the board are State Director of Public Works Earl Lee Kelly, State Relief Administrator R. C. Branion, Director of Industrial Relations T. A. Reardon, Finance Director Rolland Vandegrift and Major A. M. Barton, reclamation board engineer.

Their task will be to review all local proposals and fit them into a state-wide program.

The governor said he had not been advised as to details of the federal administration in California but wanted the state to be prepared with a satisfactory list of essential improvements when it is requested.

The State Highway Commission, meanwhile is preparing a road improvement program allocating the state's share of the \$400,000,000 highway money.

The governor announced also that the Bureau of Reclamation had added its approval to that of the army engineers for the central valley water conservation plan, involving \$160,000,000 in construction.

The bureau's statement said:

"The great central valley project, designed primarily for the relief of highly developed, settled and producing lands suffering from shortage of water supplies, is meritorious and worthy of financial assistance from the federal government through the loaning of non-interest bearing reimbursable funds in accord with the federal reclamation policies and precedents.

"With federal financing of the project through the employment of non-interest hearing funds for irrigation features, interest bearing funds for the power features and justified direct contributions from the state and federal governments in the interest of flood control, navigation and other purposes and with fair and reasonable revenues from

Mt. Vernon	\$90,000
Puget Sound, Quarantine Station	\$250,000
Puyallup	\$90,000
Renton	\$85,000
Seattle, Custom House	\$150,000
Shelton	\$80,000
Spokane, Federal Building	\$790,000
Wenatchee, Federal Bldg.	\$300,000

TOTAL \$2,836,000

ALASKA

Anchorage, Federal Bldg.	\$400,000
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HAWAII

Honolulu, Quarantine Station	\$350,000
Honolulu, Post Office	\$400,000

TOTAL \$750,000

LICENSE LOSS IS STATE PENALTY FOR SUBSTITUTION

Amendment Effective Compelling Contractor to Complete Job on Bid Price

Warning that California contractors will be compelled to complete construction projects for the price specified in the contract was issued yesterday by Col. Carlos W. Huntington, state registrar of contractors.

A new law aimed to compel contractors to keep within the contract price without the substitution of cheaper materials or inferior workmanship is now effective, the registrar said. Rigid enforcement of the measure, an amendment to the contractors' act, was pledged by Huntington.

The registrar also warned contractors to exercise extreme care in computing bids, in order to protect themselves against a possible loss in the event of an advance in material costs, between the time estimates are obtained for computation purposes and the contract is awarded and materials ordered.

This amendment to the contractors' license act was sponsored by Assemblyman Lawrence Cobb, Los Angeles, upon the recommendation of the California State Builders' Exchange, and Governor James Rolph Jr. recently approved the bill.

Suspension or revocation of the license of a contractor found guilty of violating this new provision of the law is provided in the bill.

"This amendment," declared Col. Huntington, who is also director of the department of professional and vocational standards and a member of Governor Rolph's cabinet, "adds considerable teeth to the contractors' act, which should react to the benefit of the industry."

"It is aimed to curb a practice common among the unethical contractors in years past of accepting a contract at a figure below cost, and then attempting to secure enough additional money in his charges for changes or extras to give him a profit. The substitution of cheaper material or workmanship usually is found on such jobs also."

"The measure, as amended in 1931, fails to provide adequate power to curb fly-by-night contractors and jerry-builders from 'skinning the job,' except where fraud could be shown, and contained nothing relative to the price of the job. The amendment makes the act more workable in both respects."

"As a result of the new law, together with increased building activity and a possible rise in material prices, it behooves each and every contractor to exercise the utmost care and diligence in computing prices for the purpose of filing a bid."

"Unless due diligence is used, a contractor may find himself caught in a rising market. He should, for his own protection, do everything

BIDS RECEIVED ON EATON DAM

LOS ANGELES, July 10—Mistry Brothers, Los Angeles, at \$229,737 on first alternate and \$224,382 on second alternate, were low among seven bids received by Los Angeles County Flood Control District today for construction of Eaton Canyon dam. The first alternate is for gunite facing, the second for concrete. Both bids were lower than a combination of low bids on separate proposals for the earthwork and concrete work alone. Other bids for the dam complete include Basich Brothers, \$241,263 and \$234,173; Geo. Pollock, \$268,285 and \$256,195.

NATIONAL LUMBER COMMITTEE NAMED

The Emergency National Committee of the lumber industry, a liaison body between the lumber and forest products industries and the industrial control administration in Washington, includes the following:

Hardwood, C. A. Bruce, Bruce Lumber, Inc., Memphis, Tennessee; Fred Bringardner, Bringardner Lbr. Co., Lexington, Ky.; E. B. Ford, Mengel Co., New Orleans; C. A. Goodban, Sawyer-Goodman Co., Marinette, Wis.

Northern Hemlock, Ralph Hines, Edw. Hines Lbr. Co., Chicago.

Northern Pine, S. L. Coy, North-west Paper Co., Cloquet, Minn.

Northeastern Softwood, R. S. Brownell, Central Pacific Co., Williamsport, Pa.

Redwood, C. R. Johnson, Union Lumber Co., San Francisco.

Southern Pine, Charles Green, Eastman, Gardiner Co., Laurel, Miss.; A. J. Peavy, Peavy Wilson Co., Shreveport, La.; C. C. Sheppard, Louisiana Central Co., Clarks, Louisiana.

West Coast Logging and Lumber Industries, E. W. Demarest, Pacific National Lbr. Co., Tacoma, Wash.; M. E. Reed, Reed Lbr. Co, Shelton, Wash.; J. D. Tennant, Chairman, Long-Bell Co., Longview, Wash.

Western Pine, B. W. Lakin, McCloud River Lbr. Co., McCloud, Cal. Ralph Macartney, Weyerhaeuser Timber Co., Klamath Falls, Ore.

At Large, J. W. Blodgett, Grand Rapids, Mich.; W. M. Ritter, W. M. Ritter Lbr. Co., Columbus, Ohio; F. E. Weyerhaeuser, St. Paul, Minn.

Temporary Retail Rep., A. J. Hager, Hager Cove Co. Lansing, Mich.

Temporary Wholesale Rep., Max Myers, Nicola, Stone & Myers Co., Cleveland; Temporary Woodwork Rep., E. J. Curtis, Curtis Companies, Clinton, Ia.

possible to keep within the contract price and protect himself from increased prices. This is particularly true in the case of the small contractor with modest resources, who cannot absorb a possible loss," Registrar Huntington said.

TOWER DESIGN FOR BAY SPAN IS MODIFIED

Architectural Board Recommending Changes to Beautify Structure

Architects for the San Francisco-Oakland bridge have proposed a new plan for the tower of the suspension bridge sector which has been approved by the bridge engineers, the department of public works announced yesterday. The changes in the tower materially alter its appearance and were effected by reducing the angle of bracing.

Studies are being made now of the concrete masses, including the center anchorage, midway between San Francisco and Yerba Buena island which will stand 298 ft. above the water surface. Design of the island tunnel portals also is receiving consideration of the consulting architectural commission.

The architects appointed by State Director of Public Works Earl Lee Kelly are Timothy L. Pfeuger, Arthur Brown, Jr., and John J. Donovan.

They are commissioned to work with the engineers in creating a design for the crossing that will harmonize the several units into a single structure of graceful proportions.

SUPERVISORS ENDORSE U. S. AID PROJECTS

As city officials waited word from Sacramento on the fate of San Francisco's application for federal aid funds for six highway projects, two other public jobs of pressing necessity were approved by the Board of Supervisors for sharing in the federal funds.

The board passed resolutions allocating \$1,865,000 of the city's anticipated share in Industrial Recovery Act money for extension of the fire department's high pressure system, and \$1,700,000 for the completion of Yacht Harbor and Aquatic Park.

The high pressure main system was urged by Fire Chief Brennan, who pointed out that action to extend the system was begun after the fire of 1906, but dropped because of lack of funds.

Extensions to the system in the order of their importance, were listed as follows:

Potrero	\$550,000
Mission	100,000
South of Market	50,000
Clay Hill	50,000
North Beach	65,000
Marina	350,000
Hayes Valley	250,000
Park - Presidio	275,000
Sunset	175,000

The Yacht Harbor work was urged as one of the city's most important projects, and on that would attract yachtsmen of other cities to San Francisco, benefiting local trade.

New Process for Producing Thin Sheet Copper Will Extend Industrial Uses

Many new applications for sheet copper may result from a process recently developed, after years of research by metallurgists of the industry, for electrodepositing copper in thin wide sheets, reports the Industrial Bulletin issued by A. D. Little, Inc. "Such sheets are now commercially available as light as one ounce per square foot, as wide as 30 inches, and in rolls of indefinite length and uniform thickness. Advantages of the electrodeposition process over mechanical rolling include a much lower manufacturing cost, production in a few hours instead of as high as three weeks, much less loss to scrap, use of cheaper raw material (copper not yet electrolytically refined) and production of sheets upwards of three times the maximum width heretofore attainable.

"In the new process, copper is deposited from solution upon a revolving large-diameter lead-faced drum by an electric current many times higher than is normally used for copper plating. As the lead drum slowly revolves, the copper sheet which has been deposited upon it to a thickness of one ounce per square foot passes continuously from the plating bath through a cleansing operation. If a heavier weight is desired the 1-ounce sheet is passed over a series of rolls up and down through a long tank in which are suspended copper electrodes. During its passage through this tank copper is deposited upon one face of the one-ounce sheet, in a manner analogous to the electrolytic refining of copper, until sheets of any desired weight up to sixteen ounces are secured.

"The new copper sheeting possesses especially interesting possibilities when bonded to other materials, such as textiles, felt, paper fibre and composition boards, and to other metals. Specially embossed and bonded to fabric by a flexible binder, 1½-ounce sheet is being used experimentally by automotive engineers as a topping material for closed cars. The fireproof copper top, which may be finished by the same type of lacquers or varnishes used on the body of the car, is reported to be more durable and more resistant to the abrasion of tree branches than are customary topping materials. A similar composite sheet, with a somewhat heavier copper facing, is manufactured for use as roll roofing.

"The copper sheet alone is being introduced for sheathing and for use in built-up felt-asphalt-gravel roofing. Test roofs indicate that the copper affords almost perfect protection to the underlying asphalt, a fact which probably will permit elimination of one or more plies of felt. The extra cost entailed by use of the protecting layer of copper may thus be largely reduced by economies in other materials and in labor.

"Hundreds of tons of thin copper have been used to cover under-

ground pipe lines to protect them from the friction of settling soil and from corrosion. After welding or joining preparatory to burial, the pipe line is covered on its exterior surface with a plastic coating suitable for forming a dielectric bond between iron pipe and copper covering. When this has set to the desired consistency, continuous 8-inch bands of copper are wound spirally over the line from long rolls, covering pipe and joints. During winding, enough of the plastic coating squeezes out between the one-inch laps to form a water-proof joint.

"Thin sheet copper is also finding application as a paper substitute. Used on a recording meter in place of ordinary recorder paper, the dimensions of which changed with the humidity of the air, copper sheeting corrected for a petroleum company an error equivalent to \$5,000 worth of oil a month. Sheet copper has been used for novelty greeting cards, and has been found to be useful, when composited to fiber-board, as covers for books subject to severe usage in public libraries. The surface of the copper may be chemically treated to permit its taking ink satisfactorily, and the copper sheets may be attractively embossed.

"Electrodeposited copper has a somewhat lower tensile strength across the sheet than the rolled copper, a somewhat less dense structure, and a greater tendency toward the development of patina, the green film formed on the surface of copper during weathering. However, the manufacturers have found no reason to believe that electrodeposited copper is less weather-resistant than other dissipate heat so readily as to make per. The thin sheets of copper disallowance for expansion and contraction unnecessary. The speed, simplicity and low cost with which they may be produced, and the greater widths and continuous lengths available, indicate a considerable field for the new electrodeposited copper sheets."

SAN MATEO RENOVIZE DRIVE AUGUST 1

San Mateo county renovize campaign committee is to start its canvass about August 1.

The campaign will have as its object pledges for \$1,000,000 in building improvements to be completed within six months. County-wide endorsement has been given by organizations and individuals. C. C. Young, former governor, is chairman of the committee.

NEVADA AWARDS SIX CONTRACTS

CARSON CITY, Nev., July 6. Six contracts aggregating \$265,000 were let today by the State Highway Department, the first work to be undertaken under the new Federal allotment program. The awards were as follows: U. B. Lee, San Leandro, oiling 11.93 miles, Clark county, \$29,543; Basalt Rock Co., Napa, Calif., and J. C. Compton, McMinnville, Ore., oiling between Illipah and Robinson summit, 14.4 miles, White Pine county, \$35,091; Geo. French, Jr., Stockton, Calif., oiling 22.81 miles, White Pine county \$75,417; Jack Casson, Oakland, oiling 21.4 miles, Lander county, \$72,208; Nevada Rock and Sand Company, Reno, 9.91 miles grade and gravel, Lyon county, \$54,728.

COUNTY SURVEYOR SETS NEW BUDGET

County Surveyor James S. James of San Mateo County, will ask \$31,200 for the conduct of his office during the fiscal year 1933-34, according to a budget prepared for County Manager Walter T. Kellogg. James will receive \$3500 a year for his services as county surveyor and \$1300 as county engineer.

In the engineering department, Surveyor James will have the following assistants:

Deputy engineer, \$225 per month.
Designer-draftsman, \$210.
Heads transitman, \$200.
Superintendent of roads, \$225.
Assistant superintendent, \$210.
Cost accountant, \$125.
Two foremen, \$175.

The engineer shall, as authorized by the county executive, employ persons in special work as follows:

Inspectors on construction, \$6 to \$8; draftsmen, \$6 to \$8; transitmen, \$7 to \$8; chainmen, \$5 to \$6; axemen-flagmen, \$4 to \$5; right-of-way agent, \$7 to \$8; common labor, \$4.50; compressor operator, \$5; quarrymen, \$5 to \$6; powdermen, drillers, \$5 to \$6; sub-foremen, \$5 to \$7; truck drivers, \$5 to \$7; tractor-men, \$5 to \$7; gradermen, \$5 to \$7; mechanics, \$5 to \$7; carpenters \$7.20.

SAN LEANDRO POLICE ENFORCE CITY CODE

San Leandro policemen are charged now with the duty of enforcing building ordinances in the city, according to Chief of Police J. F. Peralta.

Each officer has been instructed to visit all construction work on his beat to determine whether contractors have the proper city licenses and permits. Building Inspector Pelton asked the police department for assistance in enforcing the municipal building code.

PERMITS AND CONTRACTS

SAN FRANCISCO COUNTY

454	Coppa	Owner	1500
455	Miller	Bettancourt	6000
456	Capurro	Owner	6000
457	Herzig	Owner	8000
458	Strand	Owner	1000
459	Graffigna	Yrigoyen	2500
460	Flagiello	Owner	1800
461	California	Ostlund	3800
462	Herzig	Owner	4000
463	Graffigna	Yrigoyen	2000
464	Banks	Hauge	6500
465	Owen	Larsen	3000
466	Risdon	Owner	6000
467	Fuhrer	Risdon	6000
468	Baumann	Wright	7000
469	Barry	Paganini	30000
470	Doelger	Owner	8000
471	Wilson's	Mullen	1500
472	Goetze	Doelger	4750
473	Shanahan	Stotzer	2000
474	Curley	Owner	5000
475	French	Owner	6500
476	Boyle	Moore	3000
477	Siri	Parodi	3950
478	Jacobson	Jones	6900
479	La Ferreira	Owner	1470
480	Woodbury	Owner	6000
481	Johnson	Johnson	4000
482	Jackson	Zinkand	6000
483	Sullivan	Owner	4000
484	Maloch	Cromwell	1200
485	Bagnani	Owner	4250
486	Griffin	Hedahl	6700
486	Whitney	Owner	7900
487	Little	Yount	5000
488	Luddecke	Holt	7000
489	Cardinale	Delucchi	1500
490	Bluett	Isaac	2500
491	Nelson	Owner	4000
492	Nelson	Owner	4000

ALTERATIONS

(454) NO. 120 SPRING ST. Alter restaurant.
 Owner — J. Coppa, 1668 North Point St., San Francisco.
 Architect — N. W. Sexton, deYoung Bldg., San Francisco. \$1500

DWELLING

(455) S MAGELLAN 260 E Pacheco. Two-story and basement frame dwelling.
 Owner — M. A. Miller, 275 Magellan St., San Francisco.
 Architect—H. Stoner, 810 Ulloa St., San Francisco.
 Contractor—J. Bettancourt, 422 San Anselmo St., San Bruno. \$6000

FLATS

(456) E WEBSTER ST. 100 N North Point St. Two-story and basement frame (2) flats.
 Owner—Angelo Capurro, 750 Green St., San Francisco.
 Architect—Not Given. \$6000

DWELLINGS

(457) E TWENTY-FIRST AVE. 40 N Ocean Ave. Two one-story and basement frame dwellings.
 Owner—A. J. Herzig, 635 Victoria St. San Francisco.
 Architect—Not Given. \$4000 each

RESTAURANT

(458) SE TENTH AND STEVENSON. One-story Class C restaurant.
 Owner—H. Strand, 670 Victoria St., San Francisco.
 Architect—Not Given. \$1000

DWELLING

(459) NE KEITH AND SHAFTER. One-story and basement frame dwelling.
 Owner — P. Graffigna, 1508 Shafter St., San Francisco.

Architect—Not Given.

Contractor — J. Yrigoyen, 1746 McKinnon St., San Francisco, \$2500

RESTAURANT

(460) NE OCEAN AVE. 60 S Keystone St. Two-story frame restaurant.
 Owner — L. Flagiello, 780 Head St., San Francisco.
 Architect—D. E. Jaekle, Call Bldg., San Francisco. \$1800

ALTERATIONS

(461) NO. 301 MONTGOMERY ST. Alter interior of offices.
 Owner—California Commercial Union Assurance Co., 315 Montgomery St., San Francisco.
 Architect—Kent & Hass, 525 Market St., San Francisco.
 Contractor—Ostlund & Johnson, 1901 Bryant St., S. F. \$3800

DWELLING

(462) E TWENTY-FIRST AVE. 160 N Ocean Ave. One-story and basement frame dwelling.
 Owner—A. J. Herzig, 635 Victoria St. San Francisco.
 Architect—Not Given. \$4000

DWELLING

(463) W KEITH 25 N Shafter St. One-story and basement frame dwelling.
 Owner — P. Graffigna, 1508 Shafter St., San Francisco.
 Architect—Not Given.
 Contractor — J. Yrigoyen, 1746 McKinnon St., S. F. \$2000

FACTORY

(464) N HOWARD 100 W Eighth St. One-story Class C factory.
 Owner—Mrs. S. M. Banks, 270 S-Hill Blvd., San Francisco.
 Engineer—S. Hodes.
 Contractor—K. Hauge. \$6500

REPAIRS

(465) FIFTEENTH AND FOLSOM. Repair fire damage to factory.
 Owner—Owens Illinois Glass Co.
 Architect—Not Given.
 Contractor — Larsen & Larsen, 629 Bryant St., San Francisco. \$3000

FLATS

(466) E WEBSTER ST. 75 S North Point St. Two-story and basement frame (2) flats.
 Owner — Risdon Bros., 1324 Portola St., San Francisco. \$6000

FLATS

(467) E WEBSTER 100 S North Point St. Two-story and basement frame (2) flats.
 Owner—W. Fuhrer, % Contractor.
 Architect—Not Given.
 Contractor—Risdon Bros., 1324 Portola St., San Francisco. \$6000

STORES

(468) SE LELAND AND DESMOND Sts. One-story frame stores.
 Owner—G. L. Baumann.
 Architect—G. A. Berger, 309 Valencia St., San Francisco.
 Contractor—J. Wright, 371 Rio Verde St., San Francisco. \$7000

PRINTING PLANT

(469) E JESSUP 80 N Washington. Two-story Class B printing plant.
 Owner—E. Barry Company.
 Architect—Not Given.
 Contractor—D. Paganini, 519 California St., San Francisco. \$30,000

DWELLINGS

(470) W 29th AVE. 278 S Irving St.:

two one-story and basement frame dwellings.
 Owner—H. Doelger, 320 Judah St.
 Architect—Not Given. \$4000 each

ALTERATIONS

(471) SW LEAVENWORTH and Sutter; alter store.
 Owner—Wilson's, Inc., 333 5th St.
 Architect—Not Given.
 Contractor—Mullen Manufacturing Co. 60 Rausch St. \$1600

DWELLING

(472) E SANCHEZ 184 N 16th; one-story and basement frame dwelling.
 Owner—J. G. Goetze, % contractor.
 Architect—Not Given.
 Contractor—H. Doelger, 320 Judah St. \$4750

ALTERATIONS

(473) 1338 11th AVE.; alter dwelling.
 Owner—E. J. Shanahan, 1338 11th Ave.
 Plans by L. Rasmussen.
 Contractor—F. Stotzer, 363 20th Ave. \$2000

FLATS

(474) N HENRY ST. 145 W Noe St. Two-story and basement frame (2) flats.
 Owner—E. Curley, 128 Henry St.,
 Architect—Not Given. \$6000

ADDITION

(475) S GEARY ST., bet. 5th and 6th Ave. Addition to hospital.
 Owner—French Hospital, Premises.
 Architect—Fabre & Hildebrand, 110 Sutter St., San Francisco.
 Engineer—F. W. Kelberg, 320 Market St., San Francisco. \$6500

DWELLING

(476) W SAN ANDREAS 330 SE San Anselmo. Two-story and basement frame dwelling.
 Owner—Mrs. T. C. Boyle, 1686 24th Ave., San Francisco.
 Architect—H. C. Baumann, 251 Kearny St., San Francisco.
 Contractor—Moore & Roberts, 693 Mission St., \$8000

DWELLING

(477) NW UNIVERSITY AND WAYland. One-story and basement frame dwelling.
 Owner—Mrs. M. Siri.
 Architect—D. E. Jaekle, Call Bldg., San Francisco.
 Contractor—G. Parodi, 2864 San Bruno Ave., S. F. \$3950

FLATS

(478) S WEST PORTAL 90 W 15th Ave. Two-story and basement frame (2) flats.
 Owner—C. Jacobson, 112 Gates St., San Francisco.
 Architect—Not Given.
 Contractor—T. M. Jones, 643 29th Ave. San Francisco. \$6900

STUDIO

(479) W KEARNY 70 N Lombard St. One-story frame studio.
 Owner—M. La Ferrera, 1613 Bay St., Alameda.
 Architect—Not Given. \$1470

DWELLING

(480) S MOUNTAIN SPRING AVE. 125 W Glenbrook Ave. Two-story and basement frame dwelling.
 Owner — Mrs. T. D. Woodbury, 860 33rd Ave., San Francisco.
 Architect—H. E. Harris, 38 San Fernando Way, S. F. \$6000

DWELLING
 (481) W CASTENADA 295 N Pacheco. One-story and basement frame dwelling.
 Owner—M. H. Johnson, 464 Bartlett St., San Francisco.
 Architect—Not Given.
 Contractor—G. H. Johnson, 942 Capp St., San Francisco. \$4000

DWELLING
 (482) W LACHECO 213 W Lopez St. Two-story and basement frame dwelling.
 Owner—L. R. Jackson, 852 Clement St., San Francisco.
 Architect—H. G. Stoner, 810 Ulloa St., San Francisco.
 Contractor—E. Zinkand, 667 36th Ave. San Francisco. \$6000

DWELLING
 (483) W CASTENADA ST. 80 S San Marcos St. Two-story and basement frame dwelling.
 Owner—M. D. Sullivan, 2322 18th Ave., San Francisco.
 Plans by J. D. Sullivan. \$4000

ALTERATIONS
 (484) NO 323 WOOLSEY ST. Alter dwelling.
 Owner—Mrs. M. L. Maloch, 323 Woolsey St., San Francisco.
 Architect—Not Given.
 Contractor—H. Cromwell, 3727 Lincoln Way, S. F. \$1200

DWELLING
 (485) NE QUESADA 190 NE Ingalls. One-story and basement frame dwelling.
 Owner—C. Bagnanl, 1326 Quesada St., San Francisco.
 Architect—Not Given. \$4250

DWELLING
 (486) E SAN BENITO 152 N Derien. Two-story and basement frame dwelling.
 Owner—W. L. Griffin, 1035 Portola, San Francisco.
 Architect—Not Given.
 Contractor—O. Hehahl, Burlingame. \$6700

DWELLINGS
 (486) W THIRTY-FOURTH AVE 163 N Lawton St. Two one-story and basement frame dwellings.
 Owner—Whitney Investment Co., 36th Ave. and Kirkham St., S. F.
 Architect—Not Given. \$3950 each

ALTERATIONS
 (487) 300 LAKE ST. Alter Old Peoples' Home.
 Owner—Little Sisters Of The Poor, 300 Lake St., San Francisco.
 Architect—Not Given.
 Contractor—E. W. Yount, 315 Avila St., San Francisco. \$5000

ALTERATIONS
 (488) SW TWENTY-SIXTH AVE. & Lake St. Alter store and dwelling.
 Owner—G. Luddecke, 201 26th Ave., San Francisco.
 Architect—C. O. Clausen, 746 46th Ave., San Francisco.
 Contractor—O. K. Holt, 3957 Army St., San Francisco. \$7000

STORES
 (489) W LANE 100 N Yosemite St. One-story frame stores.
 Owner—S. F. Cardinale, 2248 Lane St., San Francisco.
 Architect—Not Given.
 Contractor—D. Delucchi & Son, 3275 San Bruno Ave. \$1500

DWELLING
 (490) NW WILDE AND RUTLAND. One-story and basement frame dwelling.
 Owner—J. J. Bluetti, % Conaractor.
 Architect—S. A. Colton, Flatiron

Eldg., San Francisco.
 Contractor—H. H. Isaac, 1738 Page St., San Francisco. \$2500

DWELLING
 (491) W TWENTY-FIRST AVE. 40 N Ocean Ave. One-story and basement frame dwelling.
 Owner—F. Nelson & Sons, 2919 19th Ave., San Francisco.
 Architect—Not Given. \$4000

DWELLING
 (492) E TWENTY-FIRST AVE. 400 N Ocean Avenue. One-story and basement frame dwelling.
 Owner—F. Nelson & Sons, 2919 19th Ave., San Francisco.
 Architect—Not Given. \$4000

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
264	Powers	Swanstrom	7965
265	Boynton	Coats	2400
266	Burr	Van Aalst	1000
267	Sparin	Sullivan	1500
No.	Owner	Contractor	Amt.
268	Laughlin	Asmussen	3800
269	Soares	Gonsalves	1500
270	Silveria	Silva	1750
271	Farro	Beckett	4800
272	Mainzer	Sullivan	7000
273	Western	Lynn	1000
274	Steinmetz	Owner	3600
275	Talbot	Broderick	7000
276	Coggiola	Marengo	2250
277	Wachs	Muller	1500
278	Lencioni	Stotle	7800
279	Hammarberg	Owner	4500

ALTERATIONS
 (264) NO. 473 FOURTEENTH ST., OAKLAND. Alterations.
 Owner—Lillian D. Powers.
 Architect—Reed & Corlett, American Bank Bldg., Oakland.
 Contractor—Geo. Swanstrom, 1615 78th Ave., Oakland. \$7965

DWELLING
 (265) COR. DELMAR ST. 30 N Woodland, BERKELEY. Two-story 4-room frame dwelling and garage.
 Owner—Ray Boynton, La Loma and Buena Vista St., Berkeley.
 Architect—Gordon Herr.
 Contractor—Phillip Coats, 2730 Buena Vista St., Berkeley. \$2400

ADDITION
 (266) NO. 2327 VALLEY ST., BERKELEY. Additions.
 Owner—Mr. Burr, 2327 Valley Street, Berkeley.
 Architect—Not Given.
 Contractor—Wm. Van Aalst, 2039 34th Ave., Oakland. \$1000

ALTERATIONS
 (267) NO. 2926 SORINA ST., BERKELEY. Alterations.
 Owner—Amelia Skarin, Premises.
 Architect—Not Given.
 Contractor—James E. Sullivan, Orinda \$1500

RESIDENCE
 (268) NO. 662 JACKSON ST., HAYWARD. Seven-room residence.
 Owner—John Laughlin, Hayward.
 Plans by Geo. J. Asmussen.
 Contractor—Geo. J. Asmussen, 1058 Groveway St., Hayward. \$3800

ADDITION
 (269) NO. 679 WATKINS ST., HAYWARD. Addition to residence.
 Owner—M. S. Soares, 679 Watkins St., Hayward.
 Architect—Not Given.
 Contractor—Rufus Gonsalves, Sibley Ave., Hayward. \$1500

DWELLING
 (270) 1517 OREGON ST., BERKELEY; 1-story 4-room frame dwelling and garage.
 Owner—J. Silveria, 1519 Oregon St., Berkeley.

Architect—Not Given.
 Contractor—J. C. Silva, 2908 Mable St., Berkeley. \$1750

RESIDENCE
 (271) NO. 292 SCENIC AVE., PIEDMONT. Two-story 6-room residence and garage.
 Owner—Tom Farro, 468 42nd St., Oakland.
 Architect—Not Given.
 Contractor—A. T. Beckett, 224 Scenic Ave., Piedmont. \$4800

DWELLING
 (272) W ARCH ST. 250 S Virginia St., BERKELEY. Two-story 8-room frame dwelling and garage.
 Owner—A. Mainzer, 1048 Monterey St., Berkeley.
 Architect—Edwin L. Snyder, 2101 Shattuck Ave., Berkeley.
 Contractor—Lawrence C. Sullivan Co., 3909 Loma Vista Ave., Oakland. \$7000

REPAIRS
 (273) NO. 2021 SAN JOSE AVE., ALAMEDA. Repair to fire damage
 Owner—Western Loan & Bldg. Co., 1450 Franklin St., Oakland.
 Architect—Not Given.
 Contractor—Willis F. Lynn, 1037 Ashmont Ave., Oakland. \$1000

DWELLING
 (274) 2840 RUSSELL ST., BERKELEY; two-story six-room frame dwelling.
 Owner—Wm. F. Steinmetz, 3153 College Ave., Berkeley.
 Architect—Alfred C. Chapman Bayley 3159 College Ave., Berkeley. \$3600

DWELLING
 (275) 2590 CEDAR ST., BERKELEY; two-story 8-room frame dwelling and garage.
 Owner—M. W. Talbot, 2672 Hilgard Ave., Berkeley.
 Plans by Mr. Broderick.
 Contractor—Walter I. Broderick, 640 Arlington Ave., Berkeley. \$7000

DWELLING
 (276) 594 47th St., OAKLAND; one-story 4-room dwelling.
 Owner—Albert Coggiola, 4717 West St. Oakland.
 Architect—Not Given.
 Contractor—Jos. Marengo, 5423 Claremont Ave., Oakland. \$2250

ALTERATIONS
 (277) 1305 WASHINGTON ST., OAKLAND; alterations.
 Owner—Wachs Realty Co., Bank of America Bldg., Oakland.
 Architect—Not Given.
 Contractor—F. A. Muller, 805 Syndicate Bldg., Oakland. \$1500

DWELLING
 (278) 6040 OCEAN VIEW DR., OAKLAND; two-story 7-room dwelling
 Owner—R. Lencioni.
 Architect—W. E. Schirmer, Financial Center Bldg., Oakland.
 Contractor—F. C. Stolle Co., 3455 Laguna Ave., Oakland. \$7800

DWELLING
 (279) 4115 OAKMORE ROAD, OAKLAND; two-story 6-room dwelling
 Owner and Builder—Albert Hammarberg, 2340 LeConte Ave., Berkeley.
 Architect—Not Given. \$4500

SAN FRANCISCO UNDER \$1000

CONSTRUCT runway, \$40; N Rose 40 W Octavia St.; owner, C. R. Byrd, Los Altos.
REPAIR fire damage to dwelling, \$900 1233 Pierce St.; owner, Mrs. Pliers, Premises.
ALTER dwelling, \$200; 1381 Union St. owner, L. Gavazze, 1321 Union St.

SIGN, cloth, \$15; 647 Hyde St.; owner, F. Fautetta, Premises.
 SIGN, electric, \$150; 1322 Potrero Ave. owner, P. H. Martin, 1322 Potrero Ave.; contractor, Q. R. S. Neon Corp. Ltd., 690 Potrero Ave.
 ALTER dwelling, \$350; 216 Sussex; owner, A. Bachetti, 216 Sussex St.
 ALTER dwelling, \$250; 560 Victoria St.; owner, L. Carella, 560 Victoria St.
 SIGN, electric, \$50; 3059 Mission St.; owner, West Paint Co., 3059 Mission St.; contractor, QRS Neon Corp., Ltd., 690 Potrero Ave.
 GARAGE, \$150; S 17th St. 125 W Corwin; owner, J. Tatro, 220 Corbett
 REPAIR fire damage to flats, \$400; 3214 Mission St.; owner, J. Gendotti, Premises; contractor, W. J. Mooney, 68 Belcher St.
 ALTER store, \$150; Third & Williams Sts.; owner, N. Arvanites, 22 Williams St
 ALTER store, \$500; 416 Cortland Ave. owner, S. Chimera, 416 Cortland.
 SIGN, electric, \$150; 250 Eddy St.; owner, W. L. Walker, 250 Eddy St.; contractor, Golden Gate Sign Co.
 ALTER loft, \$950; 136 Second Street; owner, Sharp & Dohme, 539 Mission; contractor, H. Papenhausen, 595 Victoria St.
 BILLBOARD, \$7; NE Golden Gate and Jones; owner, Foster & Kleiser, 1675 Eddy St.
 ADD to dwelling, \$300; 1451 25th Ave.; owner, Mrs. Gilhey, 1451 25th Ave.
 SIGN, electric, \$350; 181 Townsend; owner, Depot Garage, Premises; contractor, Elec. Products Corp., 255 Golden Gate Ave.
 ALTER restaurant, \$180; 1659 Post St.; owner, H. King, Premises; contractor, J. F. Miyata, 612 Hemlock St.
 SIGN, electric, \$200; 895 Pacific Ave.; owner, J. Basahe, Premises; contractor, Elec. Products Corp., 255 Golden Gate Ave.
 SIGN, electric, \$450; Market and Eddy Sts.; owner, States Hof Brau, Premises; contractor, Elec. Prods. Corp., 255 Golden Gate.
 ALTER dwelling, \$250; 560 Victoria St.; owner, L. Carella, 560 Victoria St.
 SIGN, electric, \$10; 870 Geary St.; owner, Young & Horstmeyer, 462 Market St.; contractor, Morgan Elec. Shop, 163 Sanchez St.
 ALTER dwelling, \$500; 667 44th Ave.; owner, Mrs. Pearl Christensen, Premises; contractor, L. A. Hinson, 756 4th Ave.
 ALTER flats, \$300; 352 Shotwell St.; owner, Mrs. Andel, Prem.; contractor, O. Carson, 397 Haight St.
 ALTER dwelling, \$250; 2638 Baker St. owner, E. Rainey, 2048 Market; contractor, Ira Coburn, 2048 Market St.
 STUCCO front of dwelling, \$150; 876 Lombard St.; owner, E. Boschetti, 876 Lombard St.
 ALTER store, \$650; 78 Ellis St.; owner, Fauson Inv. Co., 391 Sutter St. architect, Hyman & Appleton, 68 Post St.; contractor, F. W. Schell, 741 Natoma St.

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
94	Wilson	Trousdale	2194
95	Miller	Bettancourt	8004
96	Traverso	S. F. Con.	5275
98	Weinstein	McClintic	6440
99	Associated	Michel	3960
100	Siri	Parodi	4925
101	Goetze	Doelger	5500

PLUMBING & STEAM HEATING
 (94) 1164 MARKET ST.; plumbing & steam heating for three-story and mezzanine Class C structure.
 Owner—A. W. Wilson, % architect.

Architect—C. A. Meussdorffer, 785 Market Street.
 Contractor—W. E. Trousdale, 422 Turk Street.
 Filed July 6, '33. Dated June 30, '33.
 Piping roughed in and tested.....\$645.00
 When completed1000.00
 Usual 35 days 548.50
TOTAL COST, \$2194.00
 Plans and Spec. filed.

RESIDENCE
 (95) LOT 38 and SW 6.66 ft lot 39 Blk 2, map Forest Hill; all work on two-story and basement frame residence.
 Owner—M. A. Miller.
 Architect—Harold G. Stoner, 810 Ulloa Street.
 Contractor—Jos. Bettancourt, 422 San Anselmo St.
 Filed July 6, '33. Dated July 5, '33.
 When frame is complete.....\$2001
 Brown coated 2001
 When completed 2001
 Usual 35 days 2001
TOTAL COST, \$8004
 Bond, \$4002. Sureties, Chas. Monson and Frank McNulty, Limit, 90 days. Plans and Spec. filed.

STORE BLDG.
 (96) SE OAKDALE AVE. A N D Mendell St. E 75x8 45. All work for one-story Class C concrete store building with wood roof.
 Owner—Albert Traverso, 2048 Market St., San Francisco.
 Architect—Irvine & Ebbets (R. R. Irvine, Architect), 2048 Market St., San Francisco.
 Contractor—San Francisco Constr. Co. Inc., 3159 Fillmore St., S. F.
 Filed July 6, '33. Dated July 6, '33.
 Composition roof installed.....\$1978
 Building completed 1978
 Usual 35 days 1319
TOTAL COST, \$5275
 Bond, none. Limit, 45 days. Forfeit, none. Plans and specifications filed.

DWELLING
 (97) E FAXON AVE 100 N De Montford; all work on 1-story and basement 5-story frame dwelling.
 Owner—Leo T. and Elsie Aigner, 643 London St.
 Architect—Not Given.
 Contractor—Boyd C. Lindsay, 183 Oxford Street.
 Filed July 8, '33. Dated June 27, '33.
 Roof on\$1037.50
 Brown plastered 1037.50
 Completed 1037.50
 Usual 35 days 1037.50
TOTAL COST, \$4150.00
 Bond, \$4150. Sureties, Glen Falls Indemnity Co. Plans and Spec. filed.

STORE
 (98) S MARKET 300 W Sixth W 25x S 30, No. 1037 Market St. Structural steel work for seven-story and basement store building.
 Owner—Isidor Weinstein Investment Co., 1041 Market St., San Francisco.
 Architect—Samuel Lightner Hyman and A. Appleton, 68 Post St., S. F.
 Contractor—McClintic-Marshall Corp. 2050 Bryant St., San Francisco.
 Filed July 10, '33. Dated June 29, '33.
 On or about 10th of each month 90%
 Upon completion sum sufficient to increase payments to..... 90%
 Usual 35 days Final
TOTAL COST, \$6440
 Bond, none. Limit, 30 days. Forfeit, none. Plans and specifications filed.

STEEL BLDGS. & FOLDING GATES
 (99) 16th & L STS, Merced; N Court and E Race, Visalia; 7th and Harris, Hanford; Broadway and Ventura, Fresno; Dwight Way and College Ave., Berkeley; Claremont and Ashby, Berkeley (steel buildings); Scott and Fell Sts., San Francisco; Park and Webb, Ala-

meda (folding gates); fabricate & erect on foundations furnished by company steel buildings or steel folding gates.
 Owner—Associated Oil Co., 79 New Montgomery Street.
 Architect—Not Given.
 Contractor—Michel & Pfeffer, Tenth and Harrison Sts.
 Filed July 19, '33. Dated June 28, '33.
 Completion75%
 Usual 35 days25%
TOTAL COST, \$3960.00
 Bond, \$3960. Sureties, American Bonding Co. of Baltimore. Limit, 30 days. Plans and Spec. filed.

RESIDENCE
 (100) W UNIVERSITY AND WAY-land NW 50xSW 120 Ptn Blk 73, University Md. All work for completion of one-story and basement residence and garage.
 Owner—Maria Sirl.
 Architect—Donnel E. Jaekle, Call Bldg., San Francisco.
 Contractor—G. Parodi, 2864 San Bruno Ave., San Francisco.
 Filed July 12, '33. Dated June 30, '33.
 Framed and sheathing in place\$1231.25
 Brown coated 1231.25
 Building completed 1231.25
 Usual 35 days 1231.25
TOTAL COST, \$4925.00
 Bond, \$2462.50. Sureties, Arthur Parodi and Mario Crescio. Limit, 90 days. Forfeit, none. Plans and specifications filed.

BUILDING
 (101) E SANCHEZ 184-7/4 N 16th St. N 25xE 125 Mission Land Blk 96. General contract for building.
 Owner—John G. and May Goetze, 255 Sanchez St., San Francisco.
 Architect—Not Given.
 Contractor—Henry Doelger, 320 Judah St., San Francisco.
 Filed July 12, '33. Dated June 29, '33.
 Upon signing agreement.....\$ 500
 Roof on 1250
 Brown coat plaster on..... 1250
 When completed 1250
 Usual 35 days..... 1250
TOTAL COST, \$5500
 Bond, none. Limit, 90 days. Forfeit, plans and specifications, none.

ALAMEDA COUNTY

32 Weeks Westlund 29270
 33 Associated Michel 3960
STORE BLDG.
 (32) 2270 TELEGRAPH AVE., Berkeley; erection of store building.
 Owner—Anna B. Weeks.
 Architect—Stafford L. Jory, 1370 Euclid Ave., Berkeley.
 Contractor—F. J. Westlund, 625 40th St., Oakland.
 Filed July 8, '33. Dated June 27, '33.
 75% monthly of actual work accomplished.
 Final payment usual 35 days after acceptance.
TOTAL COST, \$29,270.00
 Limit, Sept. 25, 1933. Plans and Spec. filed.

GATES
 (33) DWIGHT Way and College Ave. Berkeley; Claremont Avenue and Ashby St, Berkeley; Park and Webb Sts., Alameda; fabricate & erect steel folding gates.
 Owner—Associated Oil Co., Call Bldg., San Francisco.
 Architect—Not Given.
 Contractor—Michel & Pfeffer, Tenth and Harrison Sts., San Francisco.
 Filed July 12, '33. Dated June 28, '33.
 Within 10 days of completion & acceptance75%
 Usual 35 days25%
TOTAL COST, \$3960
 Bond, \$3960. Sureties, American Bonding Co. of Baltimore. Limit, 30 days. Plans and Spec. filed.

BUILDING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

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| 2.—Bonds | 12.—Power Plants |
| 3.—Churches | 13.—Public Buildings, Fire Houses and Jails |
| 4.—Factories and Warehouses | 14.—Residences |
| 5.—Flats | 15.—Schools |
| 6.—Garages and Service Stations | 16.—Banks, Stores and Offices |
| 7.—Federal Buildings | 17.—Theatres |
| 8.—Club Buildings | 18.—Wharves & Docks |
| 9.—Hospitals | 19.—Misc. Const. |
| 10.—Hotels | 20.—Misc. Supplies & Materials |

1—APARTMENTS

Additional Contracts Awarded.
REMODEL Cost, \$30,000
SAN FRANCISCO. No. 1164 Market Street.

Remodel four story concrete loft building for apartments (add one story, 30 2-room apts., 4 stores).
Owner—A. W. Wilson.

Architect—C. A. Meussdorffer, Humboldt Bank Bldg., San Francisco.
Heating and Plumbing—W. E. Trousdale, 422 Turk St., at \$2194.

Glass—W. P. Fuller & Co., 301 Mission St.

As previously reported, carpentry, etc., awarded to Monson Bros., 475 Sixth St., at \$2100.

APARTMENTS Cost, \$5000
PETALUMA, Sonoma Co., Cal. Liberty St. and Western Ave.

Two-story frame and stucco apts. (5 apts.)

Owner—John C. Mount, Petaluma.
Architect—Not Given.
Contractor—A. Marion Seeberg, Petaluma.

Plumbing—R. Kynoch, Petaluma
Painting—S. Kruse, Petaluma.

Wiring—Baugh & Little, Petaluma.
Concrete, carpentry, tile work, roofing and plastering being done by general contractor. Building is now ready for plastering.

Contract Awarded.
ADDITION Cont. Price, \$7592
SAN FRANCISCO. Twenty-sixth Ave. and Lake Street.

One-story frame addition to apartments (2 5-room flats) electric refrigeration, hardwood floors, tiled baths, etc.

Owner—Mr. Luddecke, % Architect.
Architect—C. O. Clausen, 742 46th Ave. San Francisco.

Contractor—O. K. Holt, 3957 Army St., San Francisco.

Following bids received:

O. K. Holt.....	\$ 7,592
C. L. Wold.....	7,733
Aetna Construction Co.....	7,977
A. D. Disston.....	8,000
J. Harold Johnson.....	9,624
I. W. Coburn.....	10,398

2—BONDS

LONG BEACH, Los Angeles Co., Cal.—The Long Beach Board of Education has decided to submit a bond issue to the electors of the Long Beach School District about August 15 to pass on an issue of \$4,140,000 for financing the reconstruction of Long Beach schools.

3—CHURCHES

Contract Awarded.
RECTORY Cost, \$81,450
LOS ANGELES, Los Angeles Co., Cal. No. 114 E. Second Street.

Four-story Class A reinforced concrete rectory building (94x76 ft.) tile covered reinforced concrete roof, metal roof vents, ornamental iron, fire escapes, cast stone trim, reinforced concrete, hardwood and mastic floors, concrete stairway, electric steel, incinerator, electric refrigeration, etc.

Owner—Roman Catholic Bishop of Los Angeles and San Diego.
Architect—Ross Montgomery, 3828 Amesbury Road, Los Angeles.

Contractor—Wurster Constr. Co., 890 E. 59th St., Los Angeles.

4—FACTORIES & WAREHOUSES

Tank Contract Awarded.
LUBRICATING PLANT Cost, \$800,000
OLEUM, Contra Costa Co., Calif.

Addition to lubricating plant.
Owner—Union Oil Co., Mills Bldg., San Francisco.

Plans by Engr. Dept. of Owner.
T nks—Berkeley Steel Const. Co., 2nd and Camelia Sts., Berkeley.

Grading bids are in and will be awarded shortly by the Oleum office. Bids on other portions of the work will be awarded from the Los Angeles office. Mr. Roy Heise, Oleum, is in charge of the construction.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$5800
SAN FRANCISCO. E Tenth St. 80 S Mission St.

Alterations and additions to Class C shop.

Owner—Herbst Brothers.
Plans by John A. Cole.
Contractor—F. R. Siegrist, 604 Mission St., San Francisco.

Brick Work—Emil Hogberg, 666 Mission St., San Francisco.

Mill Work—Anderson Bros. Planing Mill, Quint and Custer Sts.

Glass—W. P. Fuller & Co., 301 Mission Street.

Steel Sash—Truscon Steel Co., Call Bldg., San Francisco.

Lumber—San Francisco Lumber Co., Beach and Powell Sts.

Plumbing—George Rehn, 1919 Mission
Concrete—Adam Arras, 2476 Howard.
Electric—Pacific Electric Co.

Additional Sub-Contracts Awarded.
WAREHOUSE Cost, \$5000
SAN FRANCISCO. S Folsom St. 152 E Spear Street.

Two-story Class C reinforced concrete warehouse (40x50 ft.) composition roof, concrete floors, metal sash.
Owner—Federated Metals Corp., 75 Folsom Street.

Engineer—Ellison and Russell, Pacific Building.

Contractor—Barrett & Hilp, 918 Harrison Street.

Structural Steel—Western Iron W'ks, 141 Beale St.

Roofing—Roof Service Co.
Other awards reported June 21, 1932.

BERKELEY, Alameda Co., Calif.—The Chas. S. Hughes Co., 1001 Ashby Ave., Berkeley, have made the following awards on the construction of the new wet mix concrete and building materials plant to be erected at 9th and Ashby Sts., as follows. Estimated cost, \$20,000:

Bunkers, Office, Warehouse, Concrete Work: E. T. Lesure, 87 Ross Circle, Berkeley.

Conveying, Batching and Cement Unloading Machinery: Bodinson Mfg. Co., 4401 San Bruno Ave., San Francisco.

Steel Silos & Tanks: Berkeley Steel Const. Co., 2nd and Camelia Streets, Berkeley.

Wiring: T. L. Rosenberg & Co., 411 Webster St., Oakland.

Spur Track: United Commercial Co., 231 Steuart St., San Francisco.

Conveyor Belt: Hercules Rubber & Equipment Co., 11 Mission Street, San Francisco.

Lumber: Sunset Lumber Co., 400 High St., Oakland.

Contract Awarded.
FACTORY Cost, \$6500
SAN FRANCISCO. N Howard St. 100 W 8th St.

One-story Class C factory.
Owner—Mrs. S. M. Banks.
Engineer—S. Hodes, 536 Shrader St.
Contractor—K. Hauge, % Mr. Hodes.

Further details will be announced shortly.

Contract Awarded.
REPAIR FACTORY Cost, \$3000
SAN FRANCISCO. 15th and Folsom.

Repair fire damage to factory.
Owner—Owens Illinois Glass Co.
Plans by Owner.

Contractor—Larsen and Larsen, 629 Bryant Street.

Completing Plans.
WINERY Cost, \$—
LOS ANGELES, Los Angeles Co., Cal. City Terrace.

Brick and reinforced concrete winery (75x185 ft.) composition roof, steel sash, skylights, wood roof trusses window bars, cement floors, etc.

Owner—Withheld.
Architect—Edith Northman, 5369 Wilshire Blvd., Los Angeles.

SOUTH GATE, Los Angeles Co., Cal.—W Harry Hillier, engineer, 3016 W. Vernon Ave., Los Angeles, is preparing preliminary plans for a brewery to be erected in South Gate for the Columbia Brewing Co. Schuyler H. Williams, president, 500 Lane Mortgage Bldg., Los Angeles. The plant will be a steel frame structure and will have a daily capacity of 300 barrels of beer.

Owner Taking Bids.
ADDITION Cost, \$5000
OAKLAND, Alameda Co., Cal. No. 1501 Thirty-seventh Avenue.

One-story brick and tile addition to furniture factory (tar and gravel roof, electric wiring, wire glass & galvanized iron skylights, steel sash, etc.)

Owner—Sulmcock Mfg. Co., 1501 37th Ave., Oakland.

Architect—Guy L. Brown, American Bank Bldg., Oakland.

Equipment and Refrigeration Bids Being Taken.

BREWERY Cost, \$300,000
SAN JOSE. Santa Clara Co., Cal. Lincoln Avenue.

Remodel building for brewery (new equipment, refrigeration, etc.); capacity of 70,000 barrels per year

Owner—Sainte Claire Brewing Co.
Architect—Not Given.

Bids are being received by Frank J. McCarthy, 501 Vicente St., San Francisco, for equipment and refrigeration. Cost of building improvements will run about \$20,000.

LINDSAY, Tulare Co., Calif.—Fire destroyed the orange packing plant of the American Fruit Growers, Inc., in Lindsay. Damage estimated at \$65,000.

LINDSAY, Tulare Co., Cal. — Fire destroyed the orange packing plant owned by T. E. Anderson July 7. Damage estimated at \$100,000. Building covered by insurance in the amount of \$80,000.

SPOKANE, Wash. — Allaway & George of Spokane have been awarded a contract by the Union Oil Company for making general improvements in the Spokane area. Cost of work to be done is estimated at \$50,000.

Low Bidder.
BUILDING Cost, \$15,000
SAN JOSE, Santa Clara Co., Cal. No. 201 W-Julian Street.

One-story and basement reinforced concrete and frame coopeage (90 by 124 ft.) concrete floors, 15-year built-up roof with mineral top, etc.

Owner—Henry Lorentz, 201 W. Julian St., San Jose.
Architect—Charles McKenzie, Twohy Bldg., San Jose.

Low Bidder—H. C. Miller, Santa Clara

Planned.
WINERY Cost, \$100,000
LODI, San Joaquin Co., Cal. Winery.

Owner—Woodbridge Winery, Inc. (J. Oliver Ziegler, President), 622 17th St., Sacramento.

Architect—Not Selected.
Peter Maciel, 3987 Miller St., Sacramento, Vice President and Isidore Jubel, 2749 25th St., Sacramento, Secretary-Treasurer. Further details will be announced shortly.

Contrast Awarded.
ADDITIONS Cost, \$1500
CARBONA, San Joaquin Co., Cal.

Additions to warehouse (add lean-to, 16x212 ft.; sheet metal, etc.)
Owner—Carbona Growers Corp. (R. C. Jensen, Manager).

Plans by Owner.
Contractor—George Lattin, Tracy.
Lumber—Tracy Lumber Co., Tracy.
Sheet Iron and Metal — Tracy Sheet Metal Works, Tracy.

Grading—Frank Flne, Tracy.

Plans Being Revised.
CREAMERY Cost, \$18,000
SAN FRANCISCO. Stockton St. and Card Alley.

Two-story and basement wood frame and stucco creamery (61x113 ft.)
Owner—L. Glannone, 225 Columbus Ave., San Francisco.

Plans by Peter Canali, 65 Columbus Ave., San Francisco.
Lessor—Sonoma Mission Creamery.
Bids will be asked in about one week.

Plans Being Completed.
FOUNDRY Cost, \$50,000
SOUTH SAN FRANCISCO. San Mateo Co., Cal. Tanforan Ave.

One-story mill type foundry (steel and corrugated iron roof, concrete foundations, etc.)

Owner — American Brake Shoe & Foundry Co., 74 New Montgomery St., San Francisco.
Engineer—K. Theill, 580 Market St., San Francisco.

Bids will be asked within 30 days.

5—FLATS

To Be Done By Day's Work.
FLATS Cost, \$7000
SAN FRANCISCO. E Webster St. 100 N North Point St.

Two-story and basement frame and stucco flats (2 flats).
Owner — Angelo Capurro, 750 Green St., San Francisco.
Architect—Not Given.

To Be Done By Day's Work.
FLATS Cost, \$6500
SAN FRANCISCO. E Webster St. 75 S North Point St.

Two-story and basement frame and stucco flats (2 flats).
Owner & Builder—Risdon Bros., 1324 Portola Drive.
Plans by Owners.

Contract Awarded.
FLATS Cost, \$6000
SAN FRANCISCO. E Webster St. 100 S North Point St.

Two-story and basement frame and stucco flats (2 flats).
Owner—W. Fuhrer, % contractor.
Architect—Not Given.

Contractor—Risdon Bros., 1324 Portola Drive.

Contract Awarded.
FLATS Cost, \$7500
SAN FRANCISCO. S West Portal Ave. 90 W 15th Ave.

Two-story and basement frame and stucco flats (2 flats).
Owner—C. Jacobson, 112 Gates St.
Architect—Not Given.

Contractor—T. M. Jones, 543 29th Ave.

To Be Done By Day's Work.
FLATS Cost, \$5000
SAN FRANCISCO. N Henry St. 145 W Noe.

Two-story and basement frame and stucco flats (2 flats).
Owner—E. Curley, 128 Henry Street.
Architect—Not Given.

Sub-Contracts Awarded.
FLATS Cost, \$10,000
SAN FRANCISCO. NE Fulton Street and 30th Avenue.

Two-story and basement frame and stucco flats (2 flats).
Owner—E. Kearney, 473 Page Street.
Architect—D. D. Stone, 110 Sutter St., San Francisco.

Contractor—F. R. Du Puy, 110 Sutter Street.
Electric—Frank Goodman, 350 Waller Street.

Ornamental Plaster and Mantels—Theo. Binner, 423 14th St.
Hardware—Lee Hdwe. Co., 151 New Montgomery Street.

Mill Work—Herring & Nutting, 750 Florida St.
Painting—W. W. Baldwin, 121 Juanita Way.

Plastering—J. Piconi, 63 Gilbert St.
Plumbing and Tile Work—Scott Co., 243 Minna St.

6—GARAGES & SERVICE STATIONS

Sub-Contracts Awarded.
GARAGE Cost, \$6000
ALAMEDA, Alameda Co., Calif. Park Street.

One-story brick garage (50x100) corrugated iron roof, etc.
Owner—Withheld.
Architect—Not Given.

Contractor—J. H. Pickerell, 332 Santa Clara Ave., Alameda.
Brick—Albert Hall-art, 2500 65th Ave., Oakland.

Lumber—Zenith Mill & Lumber Co., 2101 E 12th St., Oakland.
Corrugated Iron Roofing—G. R. Borrmann Steel Co., 25 8th St., Oakland.

Plans Being Figured.
SERVICE STATION Cost, \$—
SAN JOSE, Santa Clara Co., Cal. Market and Post Streets.

Brick service station.

Owner—Fred H. Morgan, % Johnson & Temple, 6 N-First St., San Jose.
Plans by Owner.
Bids are being received by owner.

Contract Awarded.
SERVICE STATION Cost, \$4000
PALO ALTO, Santa Clara Co., Calif. Frame, stucco and tile service station.
Owner—Shell Oil Co., Shell Bldg., San Francisco.

Plans by Engr. Dept. of Owner.
Contractor—Pacific Truck Service, 646 Park Ave., San Jose.

SUNNYVALE, Santa Clara Co., Cal. —Theodore Johanns, 2020 15th Street, San Francisco, at \$6970 awarded contract by Navy Department for a gasoline filling station at the U. S. Naval Air Depot, Sunnyvale; Spec. No. 7301.

Work involves concrete and asphalt macadam pavements, concrete construction, tile and built-up roofing, piping and accessories for gasoline supplies.

SAN FRANCISCO—The Associated Oil Co., 79 New Montgomery St., awarded contracts to Michel & Pfeffer Iron Works, 10th and Harrison Sts., at \$5960 for furnishing steel buildings, steel folding gates, etc., at the following sites:

16th and L Sts., Merced; N. Court and E. Race Sts., Visalia; 7th and Harris Sts., Hanford; Broadway and Ventura St., Fresno; Dwight Way and College Ave., Berkeley; Claremont and Ashby Ave., Berkeley; Scott and Fell Sts., San Francisco and Park and Webb Sts., Alameda.

7—FEDERAL BUILDING

Preparing Plans.
POST OFFICE Cost, \$85,000
MADERA, Madera Co., Cal. Post Office.

Owner—United States Government.
Architect — Ernest J. Kump, Rowell Bldg., Fresno.

Structural Engineer—F. W. Kellberg, 320 Market St., San Francisco.

Preparing Working Drawings.
POST OFFICE Cost, \$175,000
SALINAS, Monterey Co., Cal. Block bounded by Lincoln, Church, Howard and Allisal Sts.

One-story and basement Class B concrete post office (60x160 ft.)
Owner—United States Government.
Architect—O'Brien Bros. and W. D. Peugh, 333 Montgomery St., San Francisco.

Plans will be completed in about six weeks.

Contract Awarded.
SUNNYVALE, Santa Clara Co., Cal. Fred W. Snook, 596 Clay Street, San Francisco at \$2,620 awarded contract by Public Works Officer for addition to heating facilities in Blds. No. 19 and No. 10 at the Naval Air Station, Sunnyvale; Spec. No. 7245. Work involves provision and installation of gas fired steam boiler together with necessary piping, fittings, appliances, appurtenances, pipe covering, boiler foundations, etc., for barracks building No. 19 and unit heaters and cast iron radiators, piping, accessories, fittings, etc., for additional heating facilities in helium re-purification plant, Bldg. No. 10.

Bids Wanted—To Close August 9.
POST OFFICE Cost, \$—
McALLEN, Texas.
United States Post Office Building.
Owner—United States Government.
Plans by Supervising Architect, Treasury Dept., Washington, D. C.
Plans and specifications available from above office upon deposit of \$25.

WASHINGTON, D. C.—John H. Rice, South Bend, Ind., at \$4900 submitted low bid to Treasury Department for painting the plaster in the U. S. Custom House at Denver, Colo. Following bids received:

(1) deduct.	
John H. Rice, South Bend, Ind.	\$ 4,900
(1)	400
Walter G. Camel, Inc., Denver.	\$ 9,343
(1)	1,500
W. C. Redlick Co., Denver.	\$ 9,675
(1)	1,540
Guiry Bros., Co., Denver.	\$ 9,921
(1)	1,300
Schayer Wall Paper & Painting Co., Denver	\$11,679
(1)	1,999
Schrlber Hartman Decorating Co., Denver	\$11,886
(1)	1,600
J. B. Whismant, Denver.	\$11,900
(1)	1,963
Wm. Wilson & Sons Co., Atlanta, Georgia	\$12,700
(1)	2,100
Louis Stekel, Denver.	\$14,000
(1)	2,400
George H. Wright, Denver.	\$16,350
(1)	3,000
Bankcroft Decorating Co., Denver	\$19,276
(1)	2,000

Bids held under advisement.

WASHINGTON, D. C.—H. A. Framburg Co., 3320 Carroll Ave., Chicago, Ill., at \$560 submitted low bid to Treasury Department for furnishing and installing lighting fixtures in the U. S. Post Office building at Porterville, Calif. Second low bid was submitted by Walter G. Warren Company, Chicago, at \$568. Complete list of bids will be published shortly.

WASHINGTON, D. C.—Herbert M. Baruch, 625 S Olive St., Los Angeles, at \$66,690 submitted low bid to the Treasury Department for construction of the U. S. post office in Ely, Nevada. K. E. Parker Co., San Francisco, at \$68,180 was second low and the Wm. MacDonald Const. Co., St. Louis, Mo., at \$74,428 submitted third low bid. Complete list of bids will be published shortly.

SANTA MONICA, Los Angeles Co., Cal.—C. W. Cook has been retained to make a topographical survey and La-Barre & Converse will make soil tests and load test for the new Federal building to be built in Santa Monica. Plans are being prepared by Architects Henry C. Newton and Robert D. Murray, 502 Architects Bldg., Los Angeles.

WASHINGTON, D. C.—California Nursery Co., Niles, Calif., at \$21,890 submitted low bid to Bureau of Yards & Docks, Navy Dept., for landscaping at the U. S. Naval Air Station, Sunnyvale, Calif. Following are the three low bids:

California Nursery Co., Niles.	\$21,890
W. A. Hoff Co., Los Altos.	27,745
Leonard Coates Nurseries, San Jose	29,750

Complete list of bids will be published shortly.

WASHINGTON, D. C.—As previously reported, H. A. Framburg & Co., 3320 Carroll Ave., Chicago, Ill., at \$560 submitted low bid to Treasury Department for furnishing and installing lighting fixtures in the U. S. Post Office at Porterville, Calif. Following bids received:

H. A. Framburg & Co., Chicago.	\$560
Walter G. Warren & Co., Chicago	568
Edwin F. Guth Co., St. Louis.	602

Bids held under advisement.

WASHINGTON, D. C.—Walter G. Warren Co. Chicago, Ill., at \$622

submitted low bid to Treasury Department, for furnishing and installing lighting fixtures in the U. S. Post office in Visalia, Calif. H. A. Framburg, at \$666 submitted second low bid and Edwin F. Guth Co. at \$693 submitted third low bid. Complete list of bids will be published shortly.

8—CLUB BUILDINGS

Sub-Contracts Awarded.
REMODEL BLDG. Cost, \$20,000
OAKLAND, Alameda Co., Calif. 12th and Washington Streets.
 Remodel 2-story Class C brick store and loft building (new tile front)
 Owner—Masonic Temple Assn.
 Architect—E. T. Foulkes, 357 12th St., Oakland.
 Contractor—E. T. Leiter & Son and Herbert Beckwith, 311 37th Street, Oakland.
Roofing—Western Roofing Co., 24th and Poplar Sts., Oakland.
Metal Lath, Furring—Joe Stevens, 3729 Woodruff, Oakland.
Tile—Robt. Howden, 337 17th Street, Oakland.
Carpentry—E. T. Leiter & Son, 811 37th St., Oakland.
Ornamental Iron—Fraunder Orn. Iron Works, 335 8th St., Oakland.
Granite Cutting—G. M. Gest Co., 503 Market St., San Francisco.
Millwork—Oakland Planing Mill, Inc., 2nd and Washington, Oakland.
 Sub-bids are being taken on concrete work. The total cost is about \$20,000.

Preparing Plans.
LODGE Cost, \$—
SANTA MARIA, Santa Barbara Co., Cal. No. 112 W El Camino.
 Frame and stucco lodge building (42x 100 ft) tile and composition roof, maple floors, etc.
 Owner—Loyal Order of Moose (Wm. Fischer, Dictator).
 Architect—Gaylor Jones, Santa Maria.

9—HOSPITALS

LOS ANGELES, Cal.—Los Angeles County Health Department has requested the Board of Supervisors to include the following in the list of federal aid projects to be constructed by the county under the National Industrial Recovery Act: Health and welfare building at Huntington Park, \$75,000; Health, County Welfare and courts building at Glendale, \$15,000; Health Department building in Civic Center, Los Angeles, \$250,000; present wooden Health Center building at Whittier to be replaced with a new structure, \$50,000.

Contracts Awarded.
REMODEL HOSPITAL Cost, \$50,000
PORTLAND, Oregon. E-Second and Hassalo Streets.
 Remodel five-story Hahnemann Hospital (partition work, modernization and rehabilitation of three floors.
 Owner—Hahnemann Hospital.
 Architect—Hollis Johnston, Meyer Bldg., Portland.
 Contractor—M. F. White, Portland.
Plumbing—H. C. Hastorf, Portland.
Electric—NePage-McKenny & Co.,

To Ask Federal Aid.
HOSPITAL Cost, \$70,000
REDDING, Shasta Co., Cal.
 One and two-story reinforced concrete hospital (245x36 feet); two ward wings and composition roof, steam heating system.
 Owner—County of Shasta.
 Architect—Otto Deichmann, 110 Sutter St., San Francisco.

Contract Awarded.
ALTERATIONS Cost, \$5000
SAN FRANCISCO, No. 300 Lake St.
 Alterations to Old Peoples' Home.
 Owner—Little Sisters of the Poor, 300 Lake St., San Francisco.
 Architect—Not Given.
 Contractor—E. W. Yount, 315 Avila St., San Francisco.

10—HOTELS

Heating Contract Awarded.
IMPROVE HOTEL Cost, \$30,000
STOCKTON, San Joaquin Co., Calif. East Weber Street.
 Improvements to hotel (re-decorate entire building, new cooling system, all 30 new shower baths).
 Owner—McDonough Estate, % Baldwin & Howell, 318 Kearny Street, San Francisco.
 Plans by Owner.
Heating—O'Mara & Stewart, 218 Clara St., San Francisco.
 As previously reported, plumbing awarded to O. H. Chain, 41 S. Sutter St., Stockton; electric to C. J. Franke, 748 E. Weber St., Stockton; ventilating system to Atlas Heating & Ventilating Co., 557 4th St., San Francisco; shower baths, etc., to O. H. Chain, 41 S. Sutter St., Stockton.

Construction Started.
HOTEL Cost, \$20,000
TAHOE CITY, Placer Co., Calif. Two miles north.
 One-story log lodge (50x100; 50 rooms and baths, 30 camping cottages) knotty pine trim, colored rock veranda and pillars, etc.
 Owner—A. L. Nichols, Tahoe City.
 Architect—Not Given.

11—ICE AND COLD STORAGE PLANTS

PULLMAN, Wash.—Until July 21, 1 P. M., bids will be received by E. O. Holland, Secretary, Board of Regents, State College, Pullman, for refrigeration machinery to be placed in Troy Hall, State College of Washington. Plans and specifications may be obtained from Stanley A. Smith, college architect, Mechanical Arts Bldg., State College, Pullman.

BREWLEY, Imperial Co., Calif.—Brawley city council is making inquiries as to the advisability of constructing a municipal ice plant in Brawley. Plans for a plant, to cost \$238,000, have been submitted to the council by the York Ice Machine Co. of Los Angeles.

12—POWER PLANTS

BOULDER CANYON, Nev.—Until August 18, 10 A. M., under Specifications No. 543, bids will be received by U. S. Bureau of Reclamation, Denver, Colo., to furnish and install two or four 82,500 kv-a. and one 40,000 kv-a. vertical shaft, alternating-current generators, each complete with main exciter, pilot exciter, thrust and guide bearings and surface coolers, for the Boulder power plant, Boulder Canyon Project, Arizona-California-Nevada; plant located at Boulder Dam. Specifications obtainable from above office, no charge to prospective bidders, \$1.50 to others, not returnable. Proposal guarantee, 10%.

ESCONDIDO, San Diego Co., Cal.—The bid of the Newbery Electric Corp. 1038 Venice Blvd., Los Angeles, at \$79,461 to construct a complete distributing power system, the only bid received, rejected by city council July 5th.

The committee of 15 citizens, headed by Dean Howell, mayor, and B. A.

Sweet, councilman, will meet July 6 to consider a call for a special election to vote on an \$80,000 bond issue to finance the project.

If satisfactory arrangements for the purchase of power from the existing utilities cannot be made, the city will entertain proposals from private companies to install a municipal power plant. Plans prepared by John H. Chase, consulting engineer, Security Title Insurance Bldg., Riverside. The system will consist of between 30 and 40 miles of bare wire system, including a 2300-volt primary system.

LOS ANGELES, Cal.—Osborn Co., 150 California Terrace, Pasadena, and Fritz Ziebarth, Security Bldg., Long Beach, awarded contract by the Metropolitan Water District July 7 at \$10,900 for constructing an electric power transmission line in accordance with Spec. No. 38. The work consists of the construction of approx. 16.7 miles of 33,000-volt transmission line located bet. Cabazon and Substation, about five miles west of Banning, and a point in Big Morongo Canyon, about six miles north of Garnet siding on the S. P. Ry., in Riverside county. Complete bids published June 15.

TURLOCK, Stanislaus Co., Cal.—City council authorizes City Engineer H. C. Hall to make survey and estimate of cost of municipal power plant.

**13—PUBLIC BUILDINGS
FIRE HOUSES & JAILS**

SAN BERNARDINO, Calif.—City of San Bernardino has included in a list of construction projects to be presented for federal aid an item of \$200,000 for a new city hall. A municipal plunge, to cost \$50,000 is also included in the list. The proposed city hall would be a 3-story structure with a jail in the upper story. H. E. Jones, 518 Anderson Bldg., San Bernardino, architect.

Preparing Plans.
ADDITION Cost, \$90,000
VISALIA, Tulare Co., Cal.
Three and one-half-story addition to courthouse (central heating plant) approx. 20,000 sq. ft. of floor space
Owner—County of Tulare.
Architect—Ernest J. Kump, Rowell Bldg., Fresno.
Structural Engineer—F. W. Kellberg, 320 Market St., San Francisco.

Preparing Preliminary Sketches.
CITY HALL Cost, \$68,000
SAN BRUNO, San Mateo Co., Calif.
Civic Center.
Two-story city hall (to house officers of the fire department, city attorney, mayor, jail, librarian, tax collector, etc.)
Owner—City of San Bruno.
Architect—Thos. Edward, 525 Market St., San Francisco.
Federal aid will be requested to finance construction.

Planned.
AUDITORIUM Cost, \$—
SAN JOSE, Santa Clara Co., Cal.
S-Market Street.
New civic auditorium.
Owner—City of San Jose.
Architect—Not Selected.
The site has been donated by Mr. and Mrs. Montgomery of San Jose. The Park Hotel, present building on site will be razed at a later date. Further details will be announced shortly.

Contract Awarded.
FIRE HOUSE Cont. Price, \$13,684
SACRAMENTO, Sacramento Co., Cal.
L Street near Alhambra Blvd.
One-story brick firehouse (57x92 ft.);

tile and composition roof, concrete floors, etc.
Owner—City of Sacramento.
Architect—Charles Dean, California State Life Bldg., Sacramento.
Architect—Charles Dean, California State Life Bldg., Sacramento.
Contractor—Azevedo & Sarmento, 920 O St., Sacramento.

SAN FRANCISCO—Pacific Electric Manufacturing Co., 5815 Third St., at \$16,890 awarded contract by Department of Public Works for locking device for cell doors at the jail at Sneath Ranch for the City and County of San Francisco.

SAN FRANCISCO—Until July 21, 11:30 A. M., bids will be received by S. J. Hester, Chief Deputy Director, Department of Public Works, City Hall for jail equipment for the jail building at Sneath Ranch, San Mateo County. Estimated cost, \$75,000. Specifications available from the Bureau of Architecture, City Hall.

14—RESIDENCES

Contract Awarded.
RESIDENCE Cost, \$—
SAN FRANCISCO. W San Andreas Ave. (St. Francis Wood).
Two - story and basement frame and stucco residence (9 rooms and 3 baths) tile roof, canvas walls, oak flooring, electric refrigeration, etc.
Owner—Mr. and Mrs. Thos. C. Boyle.
Architect—H. C. Baumann, 251 Kearny Street.
Contractor—Moore and Roberts, 693 Mission Street.

PRESCOTT, Ariz.—Mrs. Margaret Rockwell, Hotel Adams, Phoenix, has purchased two lots in the Hassayampa Mountain tract, Prescott, where she proposes erecting a large residence early next year.

Sub-Contracts Awarded.
RESIDENCE Cost, \$7600
OAKLAND, Alameda Co., Cal. Ocean View Drive.
Two - story and basement frame and stucco residence (8 rooms and 2 baths) Spanish type, tile and composition roof, gas heating system, tiled baths, hardwood floors, etc.
Owner—R. Lencioni.
Architect—W. E. Schirmer, Financial Center Bldg., Oakland.
Contractor—F. C. Stolte, 3449 Laguna St., Oakland.
Millwork and Lumber—Sunset Lumber Co., 400 High St., Oakland.
Plumbing—J. A. Fazio, 402 Castro St., Oakland.
Plastering—J. Rinaldi, 835 52nd St., Oakland.
Brick—Henry Koenig, 4418 Ygnacio Ave., Oakland.

Sub-Contracts Awarded.
RESIDENCE Cost, \$5000
OAKLAND, Alameda Co., Calif. 579 57th Street.
One - story and basement frame and stucco residence (6 rooms).
Owner—Lazzaro Musante, 1430 17th St., Oakland.
Architect—Not Given.
Contractor—John Cisero, 474 42nd St., Oakland.
Lumber—E. K. Wood Lbr. Co., Fredrick and King Sts., Oakland.
Plumbing—A. Rowse, 978 Apgar St., Oakland.
Painting—A. Barbera Co., 2325 Jones St., San Francisco.
Electric—E. L. Reed, 2541 Seminary Ave., Oakland.
Sub-bids are being taken on millwork, sash and doors, porch and step terrazzo work, concrete work and tile work.

Sub-Contracts Awarded.
RESIDENCES Cost, \$—
OAKLAND, Alameda Co., Cal. 1554-1560 33rd Avenue.
Two 1-story and basement frame and stucco residences (6 rooms each) Spanish type, tile roof, gas hot air heating system, hardwood floors, steel sash, tiled baths and shower, etc.
Owner and Builder—Leo J. Dolan, 770 Wesley Ave., Oakland.
Plans by Owner.
Lumber—Sunset Lbr. Co., 400 High St., Oakland.
Plumbing—J. A. Fazio, 402 Castro St., Oakland.
Brick—Paul Bretkopf, 2145 E 23rd St. Oakland.
Concrete—Nat Lena, 1174 19th Street, Oakland.
Millwork—Pacific Mfg. Co., 1315 7th St., Oakland.
Roofing—A. K. Goodmundson, 45th Ave. at Clement, Oakland.
Painting—C. W. Worden, 3025 Arizona St., Oakland.
Heating—Pacific Gas Appliance Co., 19th and Market, Oakland.
Plastering—C. E. Davidson, 3357 Jordan, Alameda.

Sub-Contracts Awarded.
RESIDENCE Cost, \$—
BERKELEY, Alameda Co., Cal. Cedar St. E Euclid Ave.
Two - story and basement frame and stucco residence (8 rooms).
Owner—M. W. Talbot, 2672 Hilgard Ave., Berkeley.
Architect—Not Given.
Contractor—Walter L. Broderick, 640 The Arlington, Berkeley.
Lumber—Humphry Lbr. Co., Rose St. at Santa Fe tracks, Berkeley.
Millwork—Sheehan - Ballard Planing Mill Co., 9th and Parker, Berkeley
Plumbing—Walter Kennon, 1639 Hopkins St., Oakland.
Tile—Brockhurst Tile Co., 2819 Shattuck Ave., Berkeley.
Concrete—Paul Schnoor, 6016 Claremont Ave., Oakland.
Hardwood Floors—M. W. Brodrick, 608 Santa Rosa Ave., Berkeley.
Brick—Chas. Hummer, 2221 34th Ave. Oakland.
Plastering—J. Rinaldi, 836 52nd St., Oakland.

Sub-Bids Being Taken.
RESIDENCES Cost, \$5000 each
SAN FRANCISCO. E Twenty-first Ave. N Ocean Ave.
Three one-story and basement frame and stucco residences.
Owner and Builder—A. J. Herzig, 635 Victoria St., San Francisco.
Plans by Owner.

Contract Awarded.
RESIDENCE Cost, \$7500
SAN FRANCISCO. W Thirtieth Ave. S Balboa St.
Two - story and basement frame and stucco residence (7 rooms and 3 baths) shingle, tile and composition roof, gas heating system, canvas walls, tiled baths, colored fixtures, hardwood floors and trim.
Owner—H. McKeever.
Architect—Charles Strothoff, 2274 15th Street.
Contractor—J. A. Johnson, 106 Broad Street.

Contract Awarded.
RESIDENCE Cost, \$5835
BAYWOOD, San Mateo Co., Cal. Lot 18 Blk 9.
Two-story frame and stucco residence (7 rooms).
Owner—A. Sandretti et al. 430 Hobart Ave., San Mateo.
Plans by Clarence A. Jackosn.
Contractor—Henry Voelker, 805 Winchester Drive, San Mateo.

Contract Awarded.
RESIDENCE Cost, \$7000
SAN FRANCISCO, S Magellan Ave.
E Pacheco.

Two-story and basement frame and stucco residence (9 rooms and 2 baths) tile roof, warm air heating system, tiled baths and kitchen, interior stucco and canvas, etc.

Owner—M. A. Miller, 275 Magellan.
Architect—Harold Stoner, 810 Ulloa.
Contractor—Joseph Bettancourt, 456 Beach St., San Bruno.

Plans Being Figured.
ADDITION Cost, \$—
RICHMOND, Contra Costa Co., Calif.
Yuba Street.

Addition to frame residence (add bedroom and bath, hardwood flooring, shingle roofing, steel sash, etc.)
Owner—Withheld.
Architect—William Rich, Orinda.

Contract Awarded.
RESIDENCE Cost, \$40,000
WEST LOS ANGELES, Los Angeles Co., Cal. No. 688 Nimes Road.

Two-story brick veneer, frame and stucco residence (22 rooms), 41x129 ft.; wood shakes and composition roof, ornamental iron, tile, oak and linoleum floors, unit gas furnace heating, incinerator, dumbwaiter, flagstone terrace, roller screens, four-car garage, etc.

Owner—Warner Baxter.
Architect—Harry E. Werner, 357½ N. Beverly Drive, Beverly Hills.
Contractor—Price & Werner, 357½ N. Beverly Drive, Beverly Hills.

Contract Awarded.
RESIDENCE Cost, \$3100
CROCKETT, Contra Costa Co., Calif.
One-story frame and stucco residence (4 rooms).

Owner—Jack Frost, Crockett.
Architect—Not Given.
Contractor—David Nordstrom, 4150 Emerald St. Oakland.

Plans Being Figured.
RESIDENCE Cost, \$6000
VALLEJO, Solano Co., Calif.

Two-story and basement frame and stucco residence (7 rooms and 2 baths) tile roof, gas heating system, hardwood floors, tiled baths and kitchen, etc.

Owner—Mr. Foley.
Architect—F. H. Slocombe, 131 Monte Cresta Ave., Oakland.

About two weeks will be allowed for figuring the plans.

Contract Awarded.
RESIDENCE Cost, \$5000
OAKLAND, Alameda Co., Calif. Oakmore Avenue.

Two-story frame and stucco residence (tile roof, gas furnace, hardwood floors, tiled bath, etc.)

Owner—Chas. E. Braun.
Architect—Miller and Warnecke, Financial Center Bldg., Oakland.

Contractor—C. F. Woolley, 5621 Thorn Road, Oakland.

Contract Awarded.
RESIDENCE Cont. Price, \$6630
PALO ALTO, Santa Clara Co., Calif.
Two-story frame and stucco residence (6 rooms, 2 baths) tile roof, gas heating system, hardwood floors, tiled baths, etc.

Owner—H. S. Clickford.
Architect—Birge M. Clark, 310 University Ave., Palo Alto.

Contractor—R. C. Knight, Mt. View.

Contract Awarded.
RESIDENCE Cost, \$4810
OAKLAND, Alameda Co., Cal. Contra Costa Road.

One-story and basement frame, brick veneer and stucco residence (five

rooms) shake roof, steel sash, stucco interior walls, oak floors, tiled baths, warm air heating system, etc.

Owner—C. J. Borgenson.
Architect—Ray Keefer, 770 Wesley Ave., Oakland.

Contractor—J. R. Armstrong, 1131 Fleet Road, Oakland.

Contract Awarded.
RESIDENCE Cost, \$4000
HAYWARD, Alameda Co., Calif. 662 Jackson Street.

Two-story frame and stucco residence (7 rooms).

Owner—John Laughlin, Hayward.
Plans by Mr. Asmussen.
Contractor—George J. Asmussen, 1058 Groveway, Hayward.

Contract Awarded.
ADDITION Cost, \$2000
HAYWARD, Alameda Co., Calif. 679 Watkins Street.

Addition to residence.
Owner—M. S. Soares, 679 Watkins St. Hayward.

Architect—Not Given.
Contractor—Rufus Gonsalves, Sibley Ave., Hayward.

Contract Awarded.
RESIDENCE Cont. Price, \$8,051
OAKLAND, Alameda Co., Calif. Oakmore Avenue.

Two-story frame and stucco residence (tile roof, gas furnace, hardwood floors, tiled baths, etc.)

Owner—Chas. E. Braun.
Architect—Miller & Warnecke, Financial Center Bldg., Oakland.

Contractor—B. F. Woolley, 5621 Thorn Road, Oakland.

Following bids received:
B. F. Woolley, Oakland.....\$8,051
Thos. F. L. Furlong, Oakland..... 8,084
J. J. More, Oakland..... 8,297
T. D. Courtright, Oakland..... 8,309
Price & Co., Oakland..... 8,450
Jensen & Pedersen, Oakland..... 8,675
Lindgren & Swinerton, Oakland 8,790
Fred. J. Westlund, Oakland..... 9,640

Contract Awarded.
RESIDENCE Cost, \$5500
SAN FRANCISCO, E Sanchez 184 N 16th St.

One-story and basement frame and stucco residence.

Owner—J. G. Goetze.
Architect—Not Given.
Contractor—H. Doelger, 320 Judah St.

Low Bidder.
RESIDENCE Cost, \$—
LOS ALTOS, Santa Clara Co., Calif.
Two-story frame and stucco residence (7 rooms).

Owner—Mr. Bean.
Architect—Birge M. Clark, 310 University Ave., Palo Alto.

Low Bidder—Wells P. Goodenough, 310 University Ave., Palo Alto.

Contract Awarded.
RESIDENCE Cost, \$—
CARMEL, Monterey Co., Cal. Carmel Highlands.

One- and two-story frame and stucco residence (10 rooms and 3 baths) shakes roof, hardwood floors, tiled baths, type of heating not determined.

Owner—Judge Mary M. Barteme, Chicago, Ill.

Architect—Guy O. Koepf, Carmel.
Contractor—L. Stoney, Carmel.

Contract Awarded.
RESIDENCE Cost, \$6000
PLACERVILLE, Eldorado Co., Cal.
Two-story and stucco residence (8 rooms) English type shingle roof, wood and coal furnace, hardwood floors, etc.

Owner—Withheld.
Architect—Not Given.

Contractor—W. G. Foster, 1088 Peralta St., Berkeley.

Contract Awarded.
RESIDENCE Cost, \$—
SAN FRANCISCO, Forest Hill.

Two-story and basement frame and stucco residence (8 rooms and 3 baths) tile roof, warm air heating system, tiled baths and kitchen, interior stucco and canvas hardwood floors, etc.

Owner—L. R. Jackson.
Architect—Harold Stoner, 810 Ulloa St., San Francisco.

Contractor—Ed. Zinkand, 667 36th Ave., San Francisco.

Plans Being Figured—Bids Close July 17, 2 P. M.

RESIDENCE Sost. \$6000
MONTEREY, Monterey Co., Cal. Peninsula Country Club.

One-story and basement frame and stucco residence (7 rooms and 3 baths), tile roof, electric heat, etc.

Owner—W. B. Gibson.
Architect—W. O. Raiguel, Hotel Del Monte, Del Monte.

Bids are being received from a selected list of contractors.

Sub-Contracts Awarded.
RESIDENCE Cost, \$—
BERKELEY, Alameda Co., Cal. Euclid Ave. N Regal Road.

One-story and basement frame and stucco residence (6 rooms) Spanish type, ornamental iron, hardwood floors, gas furnace, tile roofing, etc.

Owner and Builder—A. Hammarberg, 2340 Le Conte Ave., Berkeley.

Plans by Owner.
Plumbing—L. A. Winchester, 5316 Miles Ave., Berkeley.

Concrete—Axel A. Johnson, 1280 Monterey Ave., Berkeley.

Excavating—C. E. Lord, 1417 Northside Ave., Berkeley.

Lumber—Tilden Lumber Co., Foot of University Ave., Berkeley.

Contract Re-Awarded.
RESIDENCE Cost, \$6000
LOS ALTOS, Santa Clara Co., Cal.

Two-story and basement frame and stucco residence (6 rooms and 2 baths) tile roof, gas heating system, hardwood floors, tile baths.

Owner—Mr. Riotte, % Architect.
Architect—Farr & Ward, 68 Post St., San Francisco.

Contractor—L. N. Pollard, 55 Brewster St., Redwood City.

Contract was previously awarded to Carl Rosberg.

Additional Sub-Contracts Awarded.
RESIDENCE Cost, \$5500
PIEDMONT, Alameda Co., Cal. No. 50 Wildwood Gardens.

Two-story frame and stucco residence
Owner—H. H. Gerlach, 132 Palm Dr., Piedmont.

Architect—Not Given.
Contractor—J. F. Frey, 4718 Congress Ave., Oakland.

Canvas Decks—Daahl-Thoms Co., 2335 Broadway, Oakland.

Inside Trim—E. K. Wood Lumber Co., Frederick and King Sts., Oakland

Roofing—A. K. Goodmundson, 45th Ave. and Clement St., Oakland.

Heating Furnace—M. C. Henry, 1183 53rd St., Oakland.

Brick Wall & Mantel—Henry Koenig, 4418 Ygnacia Ave., Oakland.

Other awards reported June 30.

Contract Awarded.
RESIDENCE Cost, \$5000
PIEDMONT, Alameda Co., Cal. No. 2929 Scnic Ave. B.

Two-story frame and stucco residence (6 rooms).

Owner — Tom Farro, 468 42nd St., Piedmont.
 Architect—Not Given.
 Contractor—R. T. Beckett, 224 Scenic Ave., Piedmont.

Sub-Bids Being Taken.
ADDITION Cost, \$—
SAN FRANCISCO. No. 3433 Clay St. Addition to two-story frame and stucco residence.
 Owner—Miss Alys Miller.
 Architect—Farr & Ward, 68 Post St., San Francisco.
 Supt. of Constr.—Lee Moffatt, Prem.
 Sub-bids are being received by the Supt. of Construction on the site.

Contract Awarded.
RESIDENCE Cost, \$10,000
BERKELEY, Alameda Co., Cal. Oakmore Highlands.
 Two-story and basement frame and stucco residence (10 rooms and 3 baths) shakes roof, gas hot air heating system, colored tile baths.
 Owner—D. H. McKay Pter, 2206 Hopkins St., Oakland.
 Architect—E. L. Snyder, 2102 Shattuck Ave., Berkeley.
 Contractor—Geo. Windsor, 928 Kingston Ave., Piedmont.

Low Bidder.
RESIDENCE Cost, \$15,000
SAN FRANCISCO. Marina Blvd. near Fillmore Street.
 Two-story and basement frame and stucco residence (9 rooms and 3 baths) tile and composition roof, gas hot air heating system, tiled baths, oak floors, electric refrigeration, ornamental iron, etc.
 Owner—Capt. D. W. Thomsen.
 Architect—D. D. Stone, 110 Sutter St. San Francisco.
 Low Bidder—Fred Du Puy, 110 Sutter St., San Francisco.

Plans Being Figured—Bids Close July 17.
RESIDENCE Cost, \$10,000
PALO ALTO, Santa Clara Co., Cal. Southwood Drive.
 Two-story and basement frame and stucco residence (tile roof, gas hot air heating system, hardwood floors, tiled baths, etc.)
 Owner—L. S. Gurley.
 Architect—Erge M. Clark, 310 University Ave., Palo Alto.
 Wells P. Goodenough, 310 University Ave., Palo Alto, is figuring the plans and desires sub-bids on all portions of the work. 14
 (2105)

Low Bidder.
RESIDENCE Cost, \$10,000
ROSS, Marin Co., Cal.
 Two-story frame and stucco residence (slate roof, gas heating system, hardwood floors, tiled baths, etc.)
 Owner—C. F. Dedekan.
 Architect—J. K. Ballantine, 137 Harlan Place, Oakland.
 Low Bidder—Moore & Roberts, 693 Mission St., San Francisco.

Prospective Bidders.
RESIDENCE Cost, \$6000
VALLEJO, Solano Co., Calif.
 Two-story and basement frame and stucco residence (7 rooms and 2 baths) tile roof, gas heating system, hardwood floors, tiled baths and kitchen, etc.
 Owner—Mr. Foley.
 Architect—F. H. Slocombe, 131 Monte Cresta Ave., Oakland.
 Following is a partial list of the prospective bidders:
 Tilma & Olson, Vallejo.
 Frank Lumb, 821 Capital St., Vallejo.

Sub-Contracts Awarded.
ADDITIONS Cost, \$20,000
PALO ALTO, Santa Clara Co., Calif. Stanford Campus.
 Alterations and additions to 3-story frame and stucco fraternity house (add new third story, alterations and additions to first and second floors, etc.)
 Owner—Phi Delta Theta, 538 Lasuen St., Stanford University.
 Architect—W. E. Huson, 1913 Green St., San Francisco.
 Contractor—Lindgren and Swinerton, Inc., 225 Bush St., San Francisco.
Sheet Metal—Spangler Sheet Metal Works, Palo Alto.
Finish Hardware—Maxwell Hardware Co., 1320 Washington St., Oakland
Veneering and Partition Tile—W. S. Dickey Clay Mfg. Co., 116 Montgomery St., San Francisco.
Common Brick, Cement, Etc.—Redwood Materials Co., Redwood City
Lathing and Plastering—I. T. Bridges, Palo Alto.
Painting—Thomas & Stangl, Palo Alto
 As previously reported, plumbing & gas equipment awarded to H. P. Hansen, Palo Alto; heating to Walter Sterling, Redwood City; electric to Alta Electric Co., 467 O'Farrell St., San Francisco.

Additional Sub-Contracts Awarded.
RESIDENCE Cont. Price, \$11,050
PIEDMONT, Alameda Co., Cal. St. Jame Wood.
 Two-story and basement frame and stucco residence (9 rooms and 3 baths); hot air heating system, slate roof, steel sash, hardwood floors, tiled baths, etc.
 Owner—A. M. Mejnck.
 Architect—W. E. Schirmer, Financial Center Bldg., Oakland.
 Contractor—Jensen & Pederson, 3443 Adeline St., Oakland.
Mill Work—Lannom Bros., 5th and Magnolia Sts., Oakland.
Plastering—Frank Clausen, 819 Santa Ray Ave., Oakland.
Roofing—General Roofing Co., 3985 Beacon St., Oakland.
Ornamental Iron—Art Smith Ornamental Iron Works, Oakland.
Flooring—Fred Thrall, 3006 Santa Clara St., Alameda.

Sub-Contracts Awarded
RESIDENCE Cost, \$5000
BERKELEY Alameda Co., Cal. No. 494 Cragmont Avenue.
 Two-story frame and stucco residence.
 Owner—W. C. Cole, 611 Euclid Ave., Berkeley
 Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.
 Contractor—J. M. Walker, 1709 Grove St., Berkeley.
Tile—Rigney Tile Co., 3012 Harrison St., Oakland.
Millwork—Tiden Lumber Co., Berkeley.
Heating—Retary Oil-Burner Co., 4575 Horton St., Emeryville.
Glazing—East Bay Glass Co., 621 6th St., Oakland.
Painting—Blomgren Bros., 1927 Russell St. Berkeley.
Flooring—Inlaid Floor Co., 4067 Watts St., Emeryville.

Sub-Contracts Awarded.
RESIDENCE Cost, \$4500
OAKLAND, Alameda Co., Cal. No. 3864 Brown Avenue.
 One-story and basement frame and stucco residence (5 rooms).
 Owner—Frank Martini, 4117-D Penniman Ave., Oakland.
 Architect—Not Given.
 Contractor—J. H. Armstrong, 1131 Fleet Road, Oakland.
Plastering—W. B. Exline, 725 East 12th St., Oakland.
Electric—E. L. Reed, 2541 Seminary Ave., Oakland.

Lumber—E. K. Wood Lumber Co., Frederick and King Sts., Oakland
Brick—W. H. Wishecropp, 3749 Quigley St., Oakland.
Fixtures—S. A. Itan Inc., 824 Webster St., Oakland.
Painting—J. J. Burdon & Son, 1426 Macdonald Ave., Richmond.
Sash and Doors—Western Door & Sash Co., 5th and Cypress Sts., Oakland
Plumbing—Ambrose Bros., 206 Chumilla Ave., San Leandro.
Concrete—Allen MacDonald, 1539 39th Ave., Oakland.

Contract Awarded.
RESIDENCE Cost, \$7000
SAN FRANCISCO. E San Benito 152 N Darlen Way.
 Two-story and basement frame and stucco residence.
 Owner—W. L. Griffin, 1035 Portola Drive, San Francisco.
 Architect—Not Given.
 Contractor—O. Hedahl, 1224 Broadway Burlingame.

Sub-Bids Being Taken.
RESIDENCE Cost, \$7500
SAN FRANCISCO. Mountain Spring Ave. 125 W Glenbrook.
 Two-story and basement frame and stucco residence (8 rooms and 2 baths); tile roof, stucco interior, gas warm air heating system, Congoleum materials for baths, tiled showers, etc.
 Owner—F. D. Woodbury.
 Architect—Harvey E. Harris, 38 San Fernando Way, San Francisco.
 Contractor—Chas. A. Pratt, 270 Turk St., San Francisco.

Preparing Working Drawings.
RESIDENCE Cost, \$10,000
SAN FRANCISCO. Marina Blvd.
 Two-story frame and stucco residence (9 rooms and 3 baths) some brick work, flat French tile roof, vapor heating system, tiled baths, hardwood floors, etc.
 Owner—Withheld.
 Architect—Harvey E. Harris, 28 San Fernando Way, San Francisco.

Sub-Contracts Awarded.
RESIDENCE Cost, \$6000
BURLINGAME, San Mateo Co., Cal. Hale Drive.
 Two-story frame and stucco residence
 Owner—R. R. Zellick, 1325 Cabrillo St., Burlingame.
 Architect—Not Given.
 Contractor—G. W. Williams Co., 315 Primrose Road, Burlingame.
Electric Wiring—Chas. Morrison, Burlingame.
Floors—Regal Flooring Co., 620 4th St., San Francisco.
Heating and Sheet Metal—Garvey Sheet Metal Works, Burlingame.
Mill Work—Pacific Mfg. Co., Monadnock Bldg., San Francisco.
Painting—George Ames, Burlingame.
Plumbing—H. I. Lauder, Burlingame.
Steel Sash—Bates-Carpenter, 557 Market St., San Francisco.
Tile—Benetti Tile Co., San Mateo.
Lumber—Wisnom Lumber Co., Burlingame.
Linoleum—W. & J. Sloane, 224 Sutter St., San Francisco.
Concrete—Gus Adolphson, San Mateo

To Ask Bids Within One Week.
RESIDENCE Cost, \$—
BERKELEY, Alameda Co., Cal. Yosemite St. and The Alameda.
 One-story and basement brick veneer residence (5 rooms) shingle roof, gas heating system, hardwood floors, tiled bath, etc.
 Owner—Withheld.
 Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.
 Architect—E. L. Snyder, 2192 Addison St., Berkeley.

Contract Awarded.
RESIDENCE Cost, \$—
OAKLAND, Alameda Co., Cal. Wild-
wood Gardens.
Two-story frame and stucco residence
(6 rooms) English type, hot air
heating system, tiled baths, hard-
wood floors, etc.
Owner—Frances Levensala.
Architect—W. R. Yelland, Financial
Center Bldg., Oakland.
Contractor—B. F. Woolley, 6521 Thorn
Road, Oakland.

Contract Awarded.
RESIDENCE Cost, \$5500
SAN FRANCISCO. E Sanchez St. N
Mission Street.
One-story and basement frame and
stucco residence.
Owner—John G. and May Goetze, 255
Sanchez St., San Francisco.
Architect—Not Given.
Contractor—Henry Doelger, 320 Mar-
ket St., San Francisco.

Contract Awarded.
RESIDENCE Cost, \$—
SAN FRANCISCO. NW Wilde and
Rutland Streets.
One-story and basement frame and
stucco residence.
Owner—I. J. Bluett, % Contractor.
Architect—S. A. Colton, 544 Market
St., San Francisco.
Contractor—H. H. Isaac, 1738 Page
St., San Francisco.

To Be Done By Day's Work.
RESIDENCES Cost, \$4000 each
SAN FRANCISCO. W Thirty-fourth
Ave 163 N Lawton St.
Two one-story and basement frame
and stucco residences.
Owner and Builder—Whitney Invest-
ment Co., 36th Ave. and Kirkham
St., San Francisco.
Architect—Not Given.

Low Bidder.
RESIDENCE Cost, \$9780
BERKELEY, Alameda Co., Calif.
Two-story and basement frame and
brick veneer residence (10 rooms
and 3 baths) tile roof, steam and
oil burning system, tiled baths.
Owner—Professor Frederick Paxson.
Architect—E. L. Snyder, 2101 Addison
Ave., Berkeley.
Low Bidder—A. T. Beckett, 722 Scenic
Ave., Piedmont.

Contract Awarded.
RESIDENCE Cost, \$7500
SAN JOSE, Santa Clara Co., Cal. 1295
McKendrie Street.
Two-story and basement frame and
stucco residence (8 rooms).
Owner—Robert Renzel, 1052 Sherwood
Ave., San Jose.
Architect—Not Given.
Contractor—George Kocher, Graphic
Arts Bldg., San Jose.

Contract Awarded.
RESIDENCE Cost, \$4000
SAN JOSE, Santa Clara Co., Cal.
Margaret St., bet. 14th and 15th.
One-story and basement frame and
stucco residence (5 rooms).
Owner—Emilio Ferrari, 601 Orvis Ave.
San Jose.
Architect—Not Given.
Contractor—Gibson Wheeler Co., 19
N. Second St., San Jose.

Sub-Contracts Awarded.
RESIDENCE Cost, \$8000
BERKELEY, Alameda Co., Cal. Cam-
pus Drive.
Two-story frame and stucco residence
(8 rooms) Colonial-Monterey type.
Owner—E. W. Druhe.
Architect—H. E. Burnett, 931 Hill-
croft Circle, Berkeley.
Contractor—J. M. Walker, 1709 Grove
St., Berkeley.
Lumber—Tilden Lumber Co., Foot of
University Ave., Berkeley.

Millwork—Peoples Mill & Lumber
Co., Head of Bay St., Alameda.
Concrete—Golden Gate Stucco &
Bldg. Materials Co., Masonic Ave.
at Brighton, Berkeley.
Reinforcing Steel & Structural Beams
—Geo. R. Borrmann Steel Co., 25
Eigath St., Oakland.
Plumbing—Golden Gate Plumbing
Shop, 5904 San Pablo Ave., Oak-
land.
Plastering—Alex McTeer, 2024 25th
Ave., Oakland.
Flooring—Lalaid Floor Co., 4067 Watts
St., Emeryville.
Electric—James W. Anderson, 2421
23rd Ave., Berkeley.

Sub-Contracts Awarded.
RESIDENCE Cont. Price, \$10,300
OAKLAND, Alameda Co., Cal. Es-
tates Drive and Park Blvd.
Two-story and basement frame and
stucco residence (9 rooms).
Owner—Doctor T. E. Reynolds, 1624
Franklin St., Oakland.
Architect—J. K. Ballantine, 37 Har-
lan Place, San Francisco.
Contractor—Geo. Windsor, 928 Kings-
ton Ave. Oakland.
Millwork—Atkinson Mill & Mfg. Co.,
2955 Chapman St., Oakland.
Concrete—Triberti & Massaro, 957
38th St., Oakland.
Painting—W. H. Pollard, 522 Grand
Ave., Oakland.
Steel Sash—Michel & Pfeffer Iron
Works, Inc., 10th & Harrison Sts.,
San Francisco.
Brick—Hans Johnson, 5012 Congress
Ave., Oakland.
Plumbing—J. A. Fazio, 402 Castro St.,
Oakland.
Tile—Superior Tile & Products Co.,
3743 Broadway, Oakland.
Plastering—Harry Mortensen, 4060
E-18th St., Oakland.
Sheet Metal—M. C. Henry, 1183 53rd
St., Oakland.
Electric—E. L. Reed, 2541 Seminary
Ave., Oakland.
Tile Roofing—M. & S. Tile Co., Decoto

Prospective Bidders.
RESIDENCE Cost, \$7500
PIEDMONT, Alameda Co., Cal. Pied-
mont Pines.
Two-story and basement frame and
stucco residence (Model home);
wood shake roof, hot air heating
system, etc.
Owner—Brenner Furniture Co., 21st &
Broadway, Oakland.
Architect—Miller & Warnecke, Finan-
cial Center Bldg., Oakland.
Following will submit bids. Bids
open July 18, 4 P. M.:
C. W. Leekins, 1652 Hopkins St.,
Oakland.
Thomas F. L. Furlong, 460 Jerome
Ave., Piedmont.
John J. Moore Co., 354 Hobart St.,
Oakland.
J. R. Armstrong, 1131 Fleet Road,
Oakland.
Theodore H. Lapham, 546 Kenmore
Ave., Oakland.
Price Constr. Co., 1723 Webster St.,
Oakland.
J. E. Petersen & Son, 4021 Agua
Vista Ave., Oakland.
George Windsor, 928 Kingston Ave.,
Piedmont.

Sub-Contracts Awarded.
RESIDENCE Cost, \$—
BERKELEY, Alameda Co., Cal. Eu-
clid Ave. near Acacia.
Two-story frame and stucco residence
(6 rooms); Spanish style, tile and
composition roof, gas heating sys-
tem, hardwood floors, etc.
Owner—E. A. Edgar.
Architect—Not Given.
Contractor, Geo. Windsor, 928 Kings-
ton Ave., Piedmont.
Lumber—Sunset Lumber Co., 400
High St., Oakland.

Painting—Blomgren Bros., 1927 Rus-
sell St., Berkeley.
Plumbing—J. R. Pierce Plumbing
Co., 7109 E-14th St., Oakland.
Brick—Paul Breitkopf, 2145 E-23rd
St., Oakland.

Sub-Contracts Awarded.
RESIDENCE Cost, \$—
BERKELEY, Alameda Co., Cal. Ar-
lington and Wellesley Sts.
Two-story and basement frame and
stucco residence (6 rooms and 2
baths) shingle roof, gas furnace,
hardwood floors, pine panelling,
steel sash, tiled baths, wood walls
etc.
Owner—W. G. Aronke.
Architect—E. L. Snyder, 2101 Shat-
tuck Ave., Berkeley.
Contractor—F. W. Confer, 5730 Kelth
St., Berkeley.
Lumber—Tilden Lumber Co., Foot of
University Ave., Berkeley.
Concrete—Axel A. Johnson, 1280 Mon-
terey Ave., Berkeley.
Electric—Rochester Elec. Co., 2938
University Ave., Berkeley.
Plastering—Harry Mortensen, 4060 E-
18th St. Oakland.
Plumbing—Suendermann Plumbing Co.,
921 University Ave., Berkeley.
Steel Sash—Michel & Pfeffer Iron
Works, Tenth and Harrison Sts.,
San Francisco.
Brick—Morgan Bros., 2205 84th Ave.,
Oakland.
Flooring—C. Graziano, 454 Cavour St.,
Berkeley.
Painting—Edward Linforth.
Heating & Sheet Metal—J. C. Owens
Sheet Metal Works, 1612 Carlton
St., Berkeley.
Finish Hardware—Sunset Hardware
Co., 2104 Shattuck Ave., Berkeley

Additional Sub-Contracts Awarded.
RESIDENCE Cost, \$4800
NORTH BERKELEY, Alameda Co.,
Cal. Hilldale near Marin Ave.
Two-story frame residence (6 rooms
& 2 baths) wood exterior, shingle
roof, gas heating system, hard-
wood floors, etc.
Owner—R. M. Sanford.
Architect—E. L. Snyder, 2101 Shat-
tuck Ave., Berkeley.
Contractor—J. M. Walker, 1709 Grove
St., Berkeley.
Shingles—Tilden Lumber Co., Ber-
keley.
Rough Hardware—Berkeley Hardware
Co., 2154 University Ave., Ber-
keley.
Steel Sash—Soule Steel Co., 1750 Army
St., San Francisco.

Sub-Bids Being Taken.
RESIDENCE Cost, \$4000
ALAMEDA, Alameda Co., Cal. No.
1617 Wood Street.
One-story and basement frame and
stucco residence (5 rooms).
Owner—Mrs. H. Schroeder, 1617 Wood
St., Alameda.
Plans by Owner.
Contractor—W. S. Le Blanc, 1513
High St., Alameda.

Sub-Contracts Awarded.
RESIDENCE Cost, \$6500
BERKELEY, Alameda Co., Cal. North
Cragmont District.
Two-story frame and stucco residence
(6 rooms) tile roof, hot air heat-
ing system, hardwood floors, tiled
baths, electric refrigeration, etc.
Owner—George Dallas.
Architect—E. L. Snyder, 2101 Shat-
tuck Ave., Berkeley.
Contractor—W. A. Netherby, 3853 Ly-
man Road, Oakland.
Flooring—Hans Hansen, 3922 Santa
Rita St., Berkeley.
Millwork—Smith Lumber Co. of Oak-
land, Foot of 19th Ave., Oakland.
Glass—East Bay Glass Co., 621 6th
St., Oakland.

Finished Cement—Axel A. Johnson, 1280 Monterey Ave., Berkeley.
Tile—Rigney Tile Co., 3012 Harrison St., Oakland.
Hardware—Sunset Hardware Co., 2104 Shattuck Ave., Berkeley.

Plans Being Completed.
RESIDENCE Cost, \$—
ROSS, Marin Co., Cal.
 One-story and basement frame and brick veneer residence (6 rooms) redwood shake roof, oil hot air heating system, hardwood floors, bath, etc.
 Owner—Victor E. Kleven.
 Architect—W. W. Wurster, 260 California St., San Francisco.
 Bids will be asked in one week from a selected list of contractors.

Contract Awarded.
RESIDENCE Cost, \$—
WATSONVILLE, Santa Cruz Co., Cal.
 Two-story frame, plaster and brick veneer residence (7 rooms and 3 baths) wood shingle roof, gas hot air heating system, wood sash, tiled baths, hardwood floors, etc.
 Owner—Dr. E. H. Eiskamp, Watsonville.
 Architect—W. W. Wurster, 260 California St., San Francisco.
 Contractor—T. H. Rosewall, Watsonville.

Preparing Working Drawings.
RESIDENCE Cost, \$11,500
ATHERTON, San Mateo Co., Cal.
 One-story and basement frame and stucco residence (11 rooms and 4 baths) slate roof, gas heating system, hardwood floors, tiled baths, colored fixtures, slate terraces.
 Owner—Withheld.
 Architect—F. E. Amandes, 1879 18th Ave., San Francisco.
 Bids will be asked in about one week.

Contract Awarded.
RESIDENCE Cost, \$6500
BAYWOOD PARK, San Mateo Co., Calif.
 Two-story frame and stucco residence (8 rooms, 2 baths) shingle roof, gas hot air heating system, tiled baths, hardwood floors, etc.
 Owner—Roy Clifford, 14 Ninth Ave., San Mateo.
 Architect—E. L. Norberg, 407 Occidental Ave., Burlingame.
 Contractor—Lengfeld & Olund, 220 Third Ave., San Mateo.

Contract Awarded.
RESIDENCE Cost, \$5000
BURLINGAME, San Mateo Co., Calif.
 California Drive.
 One-story and basement frame and stucco residence.
 Owner—Mrs. M. Barnes.
 Architect—Not Given.
 Contractor—F. H. Borin, 1045 Balboa, Burlingame.

Contract Awarded.
RESIDENCE Cost, \$5000
SAN FRANCISCO, NW University & Wayland Streets.
 One-story and basement frame and stucco residence.
 Owner—Mrs. M. Siri.
 Architect—D. E. Jaekle, Call Bldg.
 Contractor—G. Parodi, 2864 San Bruno Avenue.

July 12, 1933
 Sub-Contracts Awarded.
RESIDENCE Cost, \$—
SAN FRANCISCO, W San Andreas Ave. (St. Francis Wood).
 Two-story and basement frame and stucco residence (9 rooms and 3 baths) tile roof, canvas walls, oak flooring, electric refrigeration, etc.
 Owner—Mr. and Mrs. Thos. C. Boyle.
 Architect—H. C. Baumann, 251 Kearny Street.

Contractor—Moore and Roberts, 693 Mission Street.
Lumber—Smith Lumber Co., 4th and Channel Sts.
Removing Trees—Lund Bros.
Plumbing—W. E. Trousdale, 422 Turk Street.
Tile—Granada Tile Co., 1553 Page St.
Sheet Metal—Poulsen Plumbing Co.
Mill Work—Brannan Street Planing Mill, 560 Brannan St.
Roofing—Fisher & Houts, 1252 Howard Street.
Plastering—Mullarkey & Kilgariff, 42 Alvarada St.

Plastering—Spaan Bros., 2145 Ward St., Berkeley.
Reinf. Steel—McGrath Steel Co., 354 Hobart St., Oakland.
Roofing—Hay Cities Asbestos Co., 188 10th St., Oakland.
Sheet Metal—Richmond Sheet Metal Works, Richmond.
Steel Sash—Detroit Steel Products Co., 63rd and Doyle Sts., Oakland.
 As previously reported heating contract awarded to Scott Co., 113 10th St., Oakland, at \$1,814.

Plans Being Prepared.
ADMIN. BLDG. Cost, \$212,000
COMPTON, Los Angeles Co., Calif.
 Reconstruct administration bldg. and girls' gymnasium at Compton Jr. College.
 Owner—Compton Union High School District.
 Architect—John C. Austin and F. M. Bldg., Los Angeles.
 Ashley, Chamber of Commerce

SAN FRANCISCO—Until July 19, 2:30 P. M., bids will be received by S. J. Hester, Chief Deputy Director, Department of Public Works, City Hall, for repairing fire damage to the Fremont School. Estimated cost, \$4000.

SAUSALITO, Marin Co., Cal.—Until July 22, 11 A. M., bids will be received by S. G. Ratto, clerk of the Board of Trustees of the Sausalito School District for the construction and installation of heating equipment in the South School in Sausalito. Plans and specifications prepared by W. W. Howe and may be obtained from S. G. Ratto, 941 Water Street, Sausalito.

PORTERVILLE, Tulare Co., Cal.—Until July 21, 8 P. M., bids will be received by Lucien V. Schmittou, Clerk of the Board of Trustees of the Porterville Union School District, for the construction of a new toilet and shower room, plumbing work, etc., at the Porterville High School. Plans prepared by W. D. Coates Jr., 626 Rowell Bldg., Fresno. Plans and specifications on file with the Clerk of the Board at 420 Main St., Porterville.

Planned.
CLASSROOM BLDG., ETC \$—
OAKLAND, Alameda Co., Cal.
 New unit of Mills College (Classrooms studios, offices and art gallery).
 Owner—Mills College, Seminary Ave. and Camden Sts., Oakland.
 Architect—Not Given.
 W. H. Ratcliff, Chamber of Commerce Bldg., Berkeley, is the college architect.

BRENTWOOD, Contra Costa Co., Cal.—H. H. Henning, 1751 Berkeley Ave., Stockton, at \$4400 submitted low bid to Liberty Union High School District, for repairs and painting to the high school building at Brentwood. Work involves carpentry work, painting and plastering. Only other bid was submitted by L. Ubels, Ripon, at \$4670. Bids held under advisement until July 13.

Contracts Awarded.
SCHOOL Cost, \$135,000
FAIRBANKS, Alaska.
 Three-story reinforced concrete school (75x150 feet) kindergarten rooms, manual training department, classrooms, gymnasium and auditorium.
 Owner—Fairbanks School District.
 Architect—Tourtellotte & Hummel, Postal Bldg., Portland.
 Contractor—McDonald Building Co.
Mechanical Work—H. C. Hastorff, 457 E. Morrison St., Portland.

15—SCHOOLS

Sub-Contracts Awarded.
SCHOOL Cost, \$20,000
LOS MOLINAS, Tehama Co., Cal.
 One-story frame and stucco high school (7 classrooms and shop) main building (60x200 feet) shop (36x100 feet) composition roof, hot air heating system, pine floors, blackboards, etc.
 Owner—Corning High School Dist.
 Architect—W. E. Coffman, Forum Bldg., Sacramento.
 Contractor—Harry Porter, Gerber.
Plumbing, Heating and Sheet Metal—Jack Allen, Red Bluff.
Electric—Cox Bros., Red Bluff.
Plastering and Brick Work—O'Connors Bros., Red Bluff.
Rough Lumber—Macy & Co., Orland.
Mill Work—Diamond Match Co., Chico
Painting—E. B. Baker, Chico.
Roofing—W. F. Nash, Chico.

Preparing Plans.
JUNIOR COLLEGE Cost, \$150,000
LOS ANGELES, Cal. Clark and Carson Sts. (27-acre site).
 New junior college.
 Owner—Long Beach Board of Education.
 Architect—Kirtland Cutter, Farmers' & Merchants' Bank Bldg., Los Angeles.
 The site was donated by the Montana Land Company.

Sub-Contracts Awarded.
SCHOOL Cont. Price, \$26,410
ALBANY, Alameda Co., Calif. Ramona and Garfield Streets.
 Two-story and basement reinf. concrete high school (8 classrooms, 1st unit) to be known as Herbert Hoover Junior High School.
 Owner—City of Albany.
 Architect—P. L. Dragon and C. R. Schmidts, 3016 Telegraph Avenue, Berkeley.
 Contractor—W. E. Lyons, 354 Hobart St., Oakland.
 Will have composition roof, steam heating system, pine floors, linoleum corridors, stucco finish, cement stairs, tile and wainscoting in toilet rooms, steel partitions, etc.
Blackboards—Rucker Fuller Co., 1922 Franklin St., Oakland.
Brick Work—Kneale & Hallert, 2500 65th Ave., Oakland.
Concrete—Nat Lena, 1174 19th Street, Oakland.
Electric—Fred. Schmits, 428 Moss Ave., Oakland.
Excavation—Lee J. Immel, 1031 Evelyn St., Oakland.
Glass and Glazing—W. P. Fuller Co., 259 10th St., Oakland.
Iron—Industrial Iron Works, 1350 34th Ave., Oakland.
Linoleum—Venor Co., 2059 Webster St., Oakland.
Lumber—Hill Lbr. & Hdwe. Co., Alamo and Brighton, Berkeley.
Mill Work—Sheehan - Ballard Planing Mill, 9th and Baker, Berkeley.
Painting—J. J. Burdon, Richmond.
Patent Window Hardware—Dalmo Sales Corp., 511 Harrison Street, San Francisco.

Plans Being Prepared.
HEATING PLANT Cost, \$7000
KING CITY, Monterey Co., Cal.
Steam heating plant for grammar school.

Owner—King City Union Grammar School Dist. (J. A. Carlson, Chairman).

Engineer—George E. Atkins, Hobart Bldg., San Francisco.

NEW MEXICO, Etc.—Secretary of the Interior Ickes has recommended the expenditure of \$2,440,350 for school building construction on Indian reservations of New Mexico and northern Arizona. The program provides \$2,037,950 for Navajo reservation, including the Hopi Indians and \$402,400 for New Mexico pueblos. Building of day schools and other education plants account for \$1,754,650, of which the pueblos will receive \$252,400. Eastern and southern Navajo jurisdictions each are slated to get \$300,000 for day school plants; northern Navajos, \$200,000, and Hopi, \$150,000. In addition to the day school allotment the Hopi will receive \$125,000 for the erection of a central high school building; southern Navajo, \$110,000 for a school auditorium at Fort Defiance, Ariz., and eastern Navajo, \$150,000 for a hospital at Crown Point.

Preparing Plans.
ADDITION Cost, \$18,000
OAKLAND, Alameda Co., Cal. Seminary Ave. and Camden St.
Reinforced concrete addition to college building (art gallery, 2 classrooms library and offices); tile roof, 22-ft. walls, etc.
Owner—Mills College, Seminary Ave. and Camden St., Oakland.
Architect—W. H. Ratcliff Jr., Chamber of Commerce Bldg., Berkeley.

PASADENA, Calif.—Approximately \$1,500,000 will be required to remodel or rebuild Pasadena's school buildings to make the construction comply with the earthquake resistant standards as set forth in the state law, according to a preliminary survey made by the state architect's office.

BERKELEY, Alameda Co., Calif.—The University of California is planning to raze the Harmon Gymnasium on the Campus of the University at Berkeley. Whether bids will be asked or not is not determined at this time.

Bids Wanted—To Close July 25th, 8 P. M.

MECHANICAL WORK Cost, \$—
ALBANY, Alameda Co., Cal. Ramona and Garfield Sts.

Furnishing and installing mechanical work for Herbert Hoover Junior High School.

Owner—Albany High School District.
Architect—P. L. Dragon and C. R. Schmidts, 3006 Telegraph Avenue, Berkeley.

On bid opening lowest bid was submitted by Scott Co., at \$1925.

Sub-Contracts Awarded.
RESIDENCE Cost, \$6000
OAKLAND, Alameda Co. Cal. No. 5529 Mendocino Avenue.

Two-story and basement frame and stucco residence (six rooms) tile roof, gas heating system, hardwood floors, tiled baths, colored fixtures, etc.

Owner—A. J. Perry.
Plans by W. W. Dixon, 1844 5th Ave., Oakland.

Contractor—Geo. Windsor, 928 Klings-ton Ave., Piedmont.

Electrical Work—E. L. Reed, 2451 Seminary Ave., Oakland.

Sheet Metal—M. C. Henry, 1183 53rd St., Oakland.

WOODLAND, Yolo Co., Cal.—Woodland Plumbing and Hardware Co., Woodland, at \$139 awarded contract by Woodland High School District for construction of a skylight in the Manual training section and one in the gymnasium of the Woodland High School.

16—BANKS, STORES AND OFFICES

Plans Being Revised.
SAN FRANCISCO. Chestnut Street N Mallorca Way.

One-story reinforced concrete store 25x70 feet) tar and gravel roof, concrete floors, etc.

Owner—Martin Stelling, 155 Montgomery St., San Francisco.

Architect—Bertz, Winter & Maury, 681 Market St., San Francisco.

Bids previously taken have been rejected. Plans are being revised and new bids will be asked within a few days.

(2044) 1st report July 6; 2nd July 12.

SAN FRANCISCO—Continental Car-nava Corporation, 7 Front St., at \$180 submitted only bid to Department of Public Works for refinishing floors in the Superintendent's office at the San Francisco Hospital.

Contract Awarded.
ALTERATIONS Cost, \$2000
OAKLAND, Alameda Co., Calif. 1305 Washington Street.

Alterations to building.

Owner—Wachs Realty Co., Bank of America Bldg., Oakland.

Architect—Not Given.

Contractor—F. A. Muller, Syndicate Bldg., Oakland.

Additional Sub-Contracts Awarded.
ALTERATIONS Cost, \$50,000
SAN FRANCISCO. No. 867-871 Market Street.

Alterations to four-story and basement store (130,000 sq. ft. floor space).

Owner—Lincoln Realty Co., Mills Bldg., San Francisco.

Architect—E. M. Sharpe, 525 Market St., San Francisco.

Engineer—A. P. Fisher, 111 Sutter St. San Francisco.

Lessee—J. C. Penney Co., 330 W. 34th St., New York City.

Contractor—J. B. Oswald, Mills Bldg., and 433 California St., S. F.

Glass—Arthur Goepf, 70 12th St., San Francisco.

Plumbing—Anderson & Rowe, 45 Belcher St., San Francisco.

As previously reported, electric contract awarded to Crown Electric Co., 153 Eddy St.; plastering to Wm. Day; elevator to Otis Elevator Co., I Beach St.; structural steel to Western Iron Works, 141 Beale St.; tile to Harry Drake, 2094 46th Ave.; foundation to T. J. Sullivan.

SAN FRANCISCO—Clinton Stephenson Constr. Co., 550 Montgomery St., at \$3741 awarded contract by Department of Public Works for alterations to the Controller's office in the City Hall.

Contract Awarded.
STORES Cost, \$2000
SAN FRANCISCO. W Lane St. 100 N Yosemite.

One-story frame store building.

Owner—S. F. Cardinale, 2248 Lane St., San Francisco.

Architect—Not Given.

Contractor—D. Delucchi & Son, 3275 San Bruno Ave., San Francisco.

LOS ANGELES, Calif.—John Deere Plow Co., Moline, Ill., has purchased property at the NE corner of Wilson and Violet Sts., Los Angeles, where

they propose erecting a reinforced concrete building to cost \$150,000. The site covers an area of 330x140 feet. The company's Los Angeles address is 200 N Los Angeles St.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$5000
OAKLAND, Alameda Co., Cal. N 7th St., bet. Market and Myrtle.

Alterations to building.

Owner—Fireman Fund Ins. Co., San Francisco.

Architect—W. E. Huson, 1723 Webster St., Oakland.

Contractor—Lindgren & Swinerton, Inc., 1723 Webster St., Oakland.

Tile Work—Rigney Tile Co., 3012 Harrison St., Oakland.

Painting—Mark Miller, 3664 Madrone Ave., Oakland.

Plastering—Spaan Bros., 2145 Ward St., Berkeley.

Millwork—National Mill & Lumber Co., 400 High St., Oakland.

Lumber—Sunset Lumber Co., 400 High St., Oakland.

Sheet Metal—Central Sheet Metal Works, 2817 Hannah St., Oakland.

Sub-Contracts Awarded.
STORE Cost, \$—
OAKLAND, Alameda Co., Cal. NE Foothill Blvd. and Coolidge Ave. 100x124 feet).

One-story brick and tile store (Mission style of architecture).

Owner—Edwin A. Roller.

Architect—Not Given.

Lessee—Hagstrom's Food Stores, 10,626 E-14th St., Oakland.

Contractor—C. E. Atkinson, 3125 61st Ave., Oakland.

Lumber and Millwork—Loop Lumber Co., Broadway and Blanding Ave., Alameda.

Brick—W. H. Wisneropp, 3749 Quigley Ave., Oakland.

Plastering—Robert Streiff, 2113 62nd Ave., Oakland.

Electric—Don Trego, 752 Cleveland St., Oakland.

Hardware—Maxwell Hardware Co., 1320 Washington St., Oakland.

Tile—Rigney Tile Co., 3012 Harrison St., Oakland.

Plumbing—J. A. Freltas, 2815 E-10th St., Oakland.

Glass—W. P. Fuller & Co., 589 10th St., Oakland.

Sub-Contracts Awarded.
REMODEL STORE Cost, \$6000
SACRAMENTO, Sacramento Co., Cal. No. 916 K Street.

Remodel store (new front, new fixtures, etc.)

Owner—Capital Clothing Co.

Architect—W. E. Coffman, California State Life Bldg., Sacramento.

Contractor—Arthur J. Fisher, 800 35th St., Sacramento.

Electric Wiring—George Foss, 2973 San Jose St., Sacramento.

Mill Work—Capital City Planing Mill, 1812 9th St., Sacramento.

Structural Steel—Palm Iron Works, 15th and S Sts., Sacramento.

Plastering—Thomas Scollan Co., 2919 T St., Sacramento.

Marble and Terrazzo—Fischer Tile & Marble Co., 1219 J St., Sacramento

Glass and Glazing—W.P.I. tmc32ft.

Glass and Glazing—W. P. Fuller & Co., 1013 12th St., Sacramento.

Contract Awarded.
REMODEL STORE Cost, \$8000
FRESNO, Fresno Co., Calif. Fulton and Merced Streets.

Remodel store building (new furnishings, etc.)

Owner—Roos Brothers.

Architect—Not Given.

Contractor—Fisher & McNulty, Mattei Bldg., Fresno.

Contract Awarded.
STORE Cost, \$—
SANTA BARBARA, Santa Barbara Co., Cal. NE Chapala and Victoria Streets.
 One-story masonry store (65x117 ft.); stucco exterior, tile and composition roof, structural steel, cement floors, interior tile work, ventilating fans, etc.
Owner—Arlington Corporation.
Architects and Engineers—Edwards & Plunkett, 20 E. Figueroa Sts., Santa Barbara.
Contractor—Jackson Bros., 1140 S. Citrus Ave., Los Angeles.
Lessee—Safeway Stores.

Contract Awarded.
STORE Cost, \$—
SAN FRANCISCO. Twenty-first Ave. and Irving Street.
 One-story reinforced concrete store building.
Owner—Richard Faulkner, 1336 Judah St., San Francisco.
Architect—Not Given.
Real Estate Agent—Waymire & Cunningham, 1950 Irving St., San Francisco.
Contractor—Geo. Wagner, 181 South Park, San Francisco.
 Construction will start in 30 days.

Construction To Start Shortly.
STORE AND FLATS Cost, \$6000
SAN FRANCISCO. Columbus Ave., between Greenwich and Lombard
 Two-story frame and stucco store and five-room flat; tile and composition roof, hardwood floors, colored tile bath and kitchen, etc.
Owner—Mr. Panelli.
Architect—F. W. Dakin, 625 Market St., San Francisco.
Contractor—Delucchi & Son, 3275 San Bruno Ave., San Francisco.

Contract Awarded.
ALTERATIONS Cost, \$6,000
 July 8, 1933
ALAMEDA, Alameda Co., Cal. 31st Ave. and E 14th St.
 Alterations to store building (exterior changes, carmel stone, leaded glass sash and plaster, etc.)
Owner—Derby Estate.
Architect—Not Given.
Contractor—J. H. Pickerell, 332 Santa Clara Ave., Alameda.

Additional Contracts Awarded.
REMODEL BLDG. Cost, \$15,000
OAKLAND, Alameda Co., Calif. 475 14th Street.
 Remodel exterior of building.
Owner—Mrs. Lillian D. Powers.
Architect—Reed and Corlett, Bank of America Bldg., Oakland.
Contractor—Geo. Swannstrom, 1615 78th Ave., Oakland.
Electric—Scott-Buttner Elec. Co., 19 Grand Ave., Oakland.
Painting—J. Turgeon, 512 E 12th St., Oakland.
 As previously reported, tile awarded to Rigney Tile Co., 3012 Harrison St., Oakland; store front to S. Kulchar & Co., 731 E 10th St., Oakland.

Sub-Contract Awarded.
BUILDING Cost, \$15,000
ALAMEDA, Alameda Co., Calif. 1517 Park Street.
 Two-story and mezzanine floor brick building (50x70 ft.) terra cotta tile, steel sash, orn. iron, linoleum.
Owner—Alameda Times-Star.
Private plans.
Contractor—Ben Kopf, 845 Pacific Avenue, Alameda.
Plastering—J. D. Tyler, 2703 Spencer St., Alameda.
Lumber—Sunset Lbr. Co., 400 High St., Oakland.
Steel Reinforcements—Herrick Iron Works, 18th and Campbell, Oakland.
Roofing—Western Roofing Co., 24th & Poplar, Oakland.

Contract Awarded.
ALTERATIONS Cost, \$2000
SAN FRANCISCO. SW Leavenworth and Sutter Streets.
 Alterations to store.
Owner—Wilson's, Inc., 333 5th St.
Architect—Not Given.
Contractor—Mullen Manufacturing Co., 60 Rausch Street.

Sub Bids Wanted.
STORE Cost, \$5450
SAN FRANCISCO. SE Oakdale and Mencl Streets.
 One-story class C concrete store.
Owner—Albert Traverso.
Architect—Irvine & Ehbets (R. R. Irvine, Architect), 2048 Market St., San Francisco.
Contractor—San Francisco Constr. Co., 3159 Fillmore St., S. F.
 Sub bids wanted on all portions of the work.

Contracts Awarded.
CAFE Cost, \$12,000
SAN ANDREAS, Calaveras Co., Cal.
 One-story cafe building.
Owner—J. W. Ormes and Lotta Ormes
Architect—Glenn Allen, 412 E-Market St., Stockton.
Contractor—Frank Tucker, 1625 E. Main St., Stockton.
Plumbing, Heating and Pressure System—Jcs. C. Black, 721 W. Elm St., Stockton.

Plans Completed.
MARKET Cost, \$100,000
PASADENA, Los Angeles Co., Cal.
 Lake Avenue and Walnut St.
 Market building (240x240 feet).
Owner—Farmer's Marketing Company
Architect—H. A. Hamm, 1108 E. Walnut St., Pasadena.

Planned.
ADDITION Cost, \$—
ANTIOCH, Contra Costa Co., Cal. 5th Street.
 Addition to office building.
Owner—R. P. Easley, Antioch.
Architect—Not Given.

Sub-Contracts Awarded.
STORE Cost, \$—
OAKLAND, Alameda Co., Calif. 728 Clay Street.
 One-story brick annex to store (30x51 ft.) concrete foundations, wiring, plumbing and mill work, etc.
Owner—W. J. Mentz, 656 Capell St., Oakland.
Contractor—Lee J. Davis, 121 Monte Vista Ave., Oakland.
Lumber—El Cerrito Lbr. Co., 1206 San Pablo Ave., Berkeley.
Brick—C. M. Goodell, 2836 Minna Ave. Oakland.
Excavating—J. Catucci, 1212 18th Ave. Oakland.
Concrete—Nat Lena, 1174 19th Street, Oakland.
Plumbing—Poorman & Co., 713 Clay St., Oakland.
 Sub-bids are being taken on plastering and roofing.

Plans Completed.
STORE Cost, \$5000
ALAMEDA, Alameda Co., Cal. Park St. and Santa Clara Avenue.
 One-story store building.
Owner—E. M. Shaw.
Architect—H. A. Minton, 525 Market St., San Francisco.
 Bids will be asked shortly.

Contracts Awarded.
ALTERATIONS Cost, \$—
SAN FRANCISCO. No. 301 Montgomery Street.
 Alterations to offices.
Owner—E. A. Pierce & Company.
Architect—Kent & Hass, 525 Market St., San Francisco.
Cabinet Work, Etc.—Ostlund & Johnson, 1901 Bryant St.
Heating—Scott Co., 243 Minna St.

Floor Covering—Van Fleet Freoar Co., 557 Howard St.
Marble—Vermont Marble Co., 525 Market St.
Lighting Fixtures—Preston Hopkins.
Bronze Work—Fair Manufacturing Co., 617 Bryant St.
Elevator—Otis Elevator Co., 1 Beach St.
Electric—Chas. Langlais, 472 Tehama

Plans Being Figured.
ALTERATIONS Cost, \$2500
SAN FRANCISCO. No. 120 Spring St.
 Alterations to restaurant.
Owner—J. Coppa, 1668 North Point St., San Francisco.
Architect—N. W. Sexton, 1606 de Young Bldg., San Francisco.

Sub-Bids Being Taken.
RESTAURANT AND OFFICE Cost, \$3500
SAN FRANCISCO. N Ocean Ave. 60 S. Keystone St.
 Two-story frame restaurant and office building (25x55 ft.) stucco front, composition roof, some marble work, cement and Oregon pine floors, plate glass, etc.
Owner and Builder—L. Flagiello, 780 Head St., San Francisco.
Architect—D. E. Jaekle, Call Bldg., San Francisco.

SAN FRANCISCO—Clinton Stephenson Constr. Co., 550 Montgomery St., awarded the following additional sub-contracts in connection with the construction of the alterations and additions to the Administration Building at the San Francisco Airport:
Glass—W. P. Fuller & Co., 301 Mission St.
Roofing—Malott & Peterson, 20th and Harrison Sts.
 Other awards reported June 26.

Contracts Awarded.
REMODEL BLDG. Cost, \$15,000
OAKLAND, Alameda Co., Calif. 475 14th Street.
 Remodel exterior of building.
Owner—Mrs. Lillian D. Powers.
Architect—Reed & Corlett, Bank of America Bldg., Oakland.
Contractor—Geo. Swannstrom, 1615 78th Ave., Oakland.
Tile—Rigney Tile Co., 3012 Harrison St., Oakland.
Store Front—S. Kulchar and Co., 731 E 10th St., Oakland.

Contract Awarded.
STORE ALTERATIONS Cost, \$6000
EURLINGAME, San Mateo Co., Calif.
 Burlingame Ave. and California Drive.
 Alterations to reinforced conc. store.
Owner—Pacific States Savings & Loan Association.
Architect—H. A. Minton, 525 Market St., San Francisco.
Contractor—G. W. Williams Co., Ltd. 315 Primrose Road, Burlingame.

Contract Awarded.
STORE Cost, \$3,000
SAN LEANDRO, Alameda Co., Calif.
 One-story store (brick walls, steel trusses, plate glass front, cement floors, etc.; 46x67 ft.)
Owner—Withheld.
Architect—Ray Keefer, 770 Wesley Ave., Oakland.
Contractor—C. M. Flewelling, 1625 E 14th St., San Leandro.

Contract Awarded.
STORES Cost, \$8000
SAN FRANCISCO. SE Leland and Desmond Streets.
 One-story frame and stucco stores.
Owner—G. L. Baumann.
Architect—G. A. Berger, 309 Valencia Street.
Contractor—J. Wright, 371 Rio Verde Street.

To Ask Bids Within One Week.
BUILDING Cost, \$15,000
FRESNO, Fresno Co., Cal. N Fulton St. near Sumner Ave.
 Two-story concrete, frame and stucco medical office building (70x80 ft.) 20 rooms and five-room apartment (flat composition roof, gas heating system, etc.)
 Owner—Dr. Roscoe F. Wallace, Fresno
 Architect—Chas. E. Butner, Cory Bldg., Fresno, and Glikbarg Bldg., Salinas.

To Ask Bids Within One Week.
ALTERATIONS Cost, \$80,000
SACRAMENTO, Sacramento Co., Cal. NW Eleventh and K Streets.
 Alterations to four-story Class B and C building for department store (80x60 ft.) redecorating, etc.
 Owner—Lon Marche, 7th and K Sts., Sacramento (Mitchel W. and Emlie C. Nathan).
 Architect—George C. Sellon, California State Life Bldg., Sacramento.
 Sub-Contracts Awarded.
STORE Cost, \$25,000
BERKELEY, Alameda Co., Cal. Telegraph and Bancroft Aves.
 One-story reinforced concrete store building (three stores) gas steam heating system, composition roofing, etc.

Owner—Anna Weeks.
 Architect—Stafford Jory, 1370 Euclid Ave., Berkeley.
 Contractor—Fred Westlund, 625 40th St., Oakland.
Lumber and Millwork—Loop Lumber Co., Broadway at Blanding St., Alameda.
Excavating—Joe Catucci, 1212 18th Ave., Oakland.
Reinforcing Steel—Pacific Coast Steel Corp., 20th and Illinois Sts., San Francisco.
Electric—A. W. Gates, 1173 Harvard St., Oakland.
Structural Steel—Fair Mfg. Co., 617 Bryant St., San Francisco.
Plumbing—J. A. Fazio, 402 Castro St., Oakland.
Painting—Hurtig & Lindahl, 1536 Edith St., Berkeley.
Flooring—A. G. Johnson, 1549 Fifth St., Alameda.
Brick—Martin Back, 2100 Woodbine Ave., Oakland.
Glass—East Bay Glass Co., 621 6th St., Oakland.
Tile—Rigney Tile Co., 3012 Harrison St., Oakland.
Heating—Scott Co., 113 10th St., Oakland.

Sub-Contracts Awarded.
RESTAURANT Cost, ---
BERKELEY, Alameda Co., Cal. Telegraph Avenue near Sather Gate (45x73 feet).
 Two-story and basement Class C brick restaurant and store.
 Owner—The Black Sheep.
 Architect—W. R. Yelland, Financial Center Bldg., Oakland.
 Contractor—H. K. Henderson, 20 Avis Road, Oakland.
Millwork and Lumber—Sunset Lumber Co., 400 High St., Oakland.
Plumbing—Harry Kyle, 1635 E-12th St., Berkeley.
Brick—W. H. Wisheropp, 3749 Quigley Ave., Oakland.
Concrete—Ensor Buel, 2927 Lorina St., Berkeley.
Wiring—Electric Service Co., 2415 California St., Berkeley.

As previously reported, excavation awarded to J. Catucci, 1212 18th Ave., Oakland; structural steel to Judson-Pacific Co., Foot of Park Ave., Alameda; mill and lumber to Sunset Lumber Co., Oakland.

To Ask Bids Within One Week.
REMODEL RESTAURANT \$---
SAN FRANCISCO, Market, Powell and Eddy Streets.

Remodel and redecorate restaurant (ventilating system, etc.)
 Owner—Whittell Estate, 166 Geary St., San Francisco.
 Plans by Herman Saruck, 191 Ralston St., and Premises.
 Lessee—States Hof Brau.

17—THEATRES

Contract Awarded.
ALTERATIONS Cost, \$30,000
OAKLAND, Alameda Co., Calif. 1430 Broadway.
 Alterations to Century theatre.
 Owner—Golden State Theatre Corp., 25 Taylor St., San Francisco.
 Architect—Meyer and Jorgensen, 525 Market St., San Francisco.
 Contractor—A. J. Hopper, 1769 Pleasant Valley Road, Piedmont.

PRESCOTT, Ariz.—Stetson Bros., owner of the Studio theater, Phoenix, and C. A. Caballero, Los Angeles, have leased the Goldwater building in Prescott and will award a contract this week for converting the structure into a theater. The building will be remodeled and seating accommodations provided for 550 people.

18—WHARVES & DOCKS

KERN COUNTY, Cal.—Until July 24, 2 P. M., bids will be received by E. E. Wallace, District Engineer, State Highway Commission, State Highway Bldg., Fresno, to construct reinforced concrete piers about 5 miles north of Bakersfield at Oil Junction. Specifications obtainable from above office. Certified check 10% required with bid.

Construction Postponed Indefinitely.
WHARF Cost, \$15,000
OAKLAND, Alameda Co., Cal. Estuary (San Antonio Slough).
 Timber wharf.
 Owner—Western Pacific Railroad Co., Mills Bldg., San Francisco.
 Plans by Engineering Dept. of Owner.

19—MISC. CONSTRUCTION

Steel Erection Contract Awarded.
DOG TRACK Cost, \$150,000
BAYSHORE, San Mateo Co., Cal.
 Dog racing track.
 Owner—Bayshore Kennel Club (Thos. Keene, J. Foppiano, et al) Belmont.

Plans by Thomas Keene, Belmont.
 Mgr. of Const.—Thomas Keene.
Steel Erection—A. D. Coutts, Jr., 47 Hubbell St., San Francisco.
 As previously reported, lumber contract awarded to McCallum Lbr. Co., 748 Bryant St., San Francisco; structural steel to McClintic Marshall Corporation, 2050 Bryant St., San Francisco.

SAN FRANCISCO—American Bldg. Maintenance Co., 467 O'Farrell Street, at \$4,965 awarded contract by Purchasing Department for window cleaning for school department under proposal No. 1026.

Planned.
ADDITIONS Cost, \$---
DEL MONTE, Monterey Co., Cal.
 Additions to race track, clubhouse, stables, etc.
 Owner—Del Monte Properties Co. (F. B. Morse, Pres.), 620 Market St., San Francisco.
 Architect—W. O. Raiguel, Hotel Del Monte, Del Monte.

Proposal work is in a very preliminary stage.

LONG BEACH, Los Angeles Co., Cal.—Long Beach Harbor Commission has approved the construction of an air marine base in the Outer Harbor,

consisting of a terminal and shed to cost \$150,000. Funds will be sought through the Reconstruction Finance Corp.

Plans Being Completed
ADDITION Cost, \$7500
SAN FRANCISCO, No. 1965 Market Street.
 One-story frame and stucco top addition to funeral parlors (automatic elevator, tar gravel and tile roofing, re-decorate entire building, etc.)
 Owner—Gantner, Felder, Kenny, 1965 Market St., San Francisco.
 Architect—Walter Falch, Hearst Bldg., San Francisco.
 Plans will be completed within one week. Whether bids will be asked or work be done by day's labor is not determined at this time.

Prospective Bidders.
RECREATION CENTER Cost, \$5000
RICHMOND, Contra Costa Co., Calif. Nichol Park.
 Two one-story frame and stucco recreation bldgs. (men's unit, 27.6x55; women's unit, 21x27.6) locker and shower rooms, toilets, etc.; tile roof, concrete floors (Spanish style).
 Owner—City of Richmond.
 Plans by Engr. Dept. of Owner.
 Following will submit bids:
General Work
 R. F. Johnson.
 Elmer J. Freethy.
 Tandy & Theis.
 F. D. Hoskins.
 Carl Overaa.

Plumbing
 Standard Plbg. & Heating Co.
 Frank Lucas.
 R. W. Timmons.
 Spiersch Brothers.
 R. E. Washburn.
 Richmond Plbg. & Heating Co.
 George Doll.
 Bidders all of Richmond. No bids will be considered from contractors or sub-contractors other than Richmond contractors.
 Bids open July 17, 8 P. M.

SAN DIEGO, Calif.—Proposed construction program of the Consolidated Aircraft Corp., in conjunction with the new aircraft factory the company will build near Lindbergh Field, includes dredging, water and sewer lines, paving, trackage, etc. The cost is estimated at \$200,000.

Contracts Awarded.
PLATFORM Cost, \$12,000
OAKLAND, Alameda Co., Cal. Foot of Market Street.
 Concrete platform.
 Owner—Howard Terminal, First and Market Sts., Oakland.
 Architect—Reed & Corlett, Bank of America Bldg., Oakland.
 Contractor—S. G. Johnson, 4652 Dolores St., Oakland.
Structural Steel—Moore Drydock Co. Foot of Aceline St., Oakland.
Concrete—J. H. Fitzmaurice, 2857 Hannan St., Oakland.

SEATTLE, Wash.—Berg Shipbuilding Co., Seattle, at \$289,890, submitted low bid to Northland Transportation Co. to construct a new passenger and freight motorship for the Seattle-Alaska service (bid on hull only), estimated cost of vessel, \$500,000. To be 231 ft. long, beam 40.6 ft., depth 23 ft.; will have twin Diesel engines, 1000-hp. each, 12½ knots speed.

SEATTLE, Wash.—Following yards submitted bids to American Mall Line in connection with repairs to steamer "President Madison" recently damaged; estimated cost \$1,000,000.
 Todd Drydocks, Inc., Seattle; United Engr. & Drydock Co., Oakland; Moore Shipbuilding & Drydock Co.,

San Francisco, and Newport News Shipbuilding Co., Newport News, Va. No figures are available, and all bids are being held under advisement.

OREGON AND WASHINGTON—R. R. Tinkham, superintendent of the 17th Lighthouse District, Portland, Ore., has outlined an \$800,000 light-house improvement program for the Oregon and Washington coast to be financed through the Industrial Recovery Act. The proposed work would involve the establishment of five to seven new radio beacon stations, installation of lighted signal buoys and modernization of lighthouse plants.

SAN FRANCISCO—Main Engineering Company, 110 Hooper St., at \$131 awarded contract by Department of Public Works for repair work to the west rock and sand elevator chute at the Municipal asphalt plant.

ALBROOK FIELD, C. Z.—Lone bid received June 16 by Quartermaster, Panama Canal Dept., Quarry Heights, C. Z., for a gasoline fueling system at Albrook Field, C. Z., rejected and project cancelled.

SEATTLE, WASH.—Until July 20, 10 A. M., bids will be received by G. W. Roberge, Secretary, Board of Public Works, Room 511, County-City Bldg., Seattle, for a sprinkling system as follows:

Aurora Avenue and its approaches between North 36th St. and North 38th St. and between Allen Place and North 46th St. Ordinance No. 63799. Plans and specifications available from City Engineer, County-City Bldg., Seattle. (2128)

20—MISC. SUPPLIES AND MATERIALS

OROVILLE, Butte Co., Cal.—County Supervisors reject following identical bids and will buy 7500 tons crushed rock in the open market: Bechtel Kaiser Co., Pacific Coast Aggregates, Johnston Rock Co., all at \$10.672.

SACRAMENTO, Cal.—Bids for furnishing the state approximately 30,000 bbls. portland cement for use of various departments and at locations throughout the state as noted below, were opened by the State Purchasing Agent June 23.

The prices shown below are for cloth sacks. For paper sacks, deduct 20c bbl. Discount on all bids, 2% 10th prox.

The bidders were:

- (A) Henry Cowell Lime & Cement Co.
- (B) Pacific Portland Cement Co., Santa Cruz Portland Cement Co., Calavaras Portland Cement Co. and Yosemite Portland Cement Co., bidding severally (prices identical)

Delivery Points	(A)	(B)*
Folsom	\$2.40	\$2.65
San Quentin	2.30	2.55
Stockton	2.13	2.38
Ukiah	2.52	2.77
San Luis Obispo	2.61	2.86
Agnews	2.19	2.32
Ione	2.35	2.60
Imola	2.09	2.34
Yountville	2.17	2.42
Eldridge	2.19	2.44

F.o.b. mill for delivery to various points for Division of Highways, \$1.80; \$2.05 with freight equalized.

*Prices of four other bidders iden-

SAN FRANCISCO—Sudden Lumber Company, Evans and Quint Streets, awarded contract by Purchasing Department for furnishing lumber for school department.

LOS ANGELES, Cal.—Western Pipe & Steel Co. awarded contract by A. J. Holm, City Purchasing Agent, July 5, at \$3498 to furnish and deliver to water and power department f.o.b. Bouquet Canyon construction site, 60 ft. full round, non-telescopic type, steel concreting forms for 8-ft. diameter tunnel; Spec. No. 3104. Bids opened June 19

LOS ANGELES, Cal.—Spencer and Holt, Ltd., awarded contract by A. J. Holm, City Purchasing Agent, at \$83,160 (estimated total) to furnish Bureau of Engineering with oil and mineral aggregate for six months from July 1, 1933, under Spec. No. 3114. Bids opened June 23.

LOS ANGELES, Cal.—Southern California Gas Co., Los Angeles Gas and Electric Corp. and Southern Counties Gas Co., bidding jointly awarded contract by A. J. Holm, City Purchasing Agent, at \$45000 (estimated total) to furnish Water & Power Dept. with fuel gas for 12 months, under Spec. No. 3093. All bids rejected on items 1 to 12 inc. Bids opened June 2.

SAN FRANCISCO—Standard Asbestos Co., 744 Folsom St., at \$73.00 awarded contract by Department of Public Works for Silocel natural brick asbestos insulating cement, mesh wire etc., at the Juvenile Detention Home.

WASHINGTON, D. C.—Elkington Helwig Mfg. Co., 621 Minna St., San Francisco, at \$6650 submitted low bid to Navy Department for furnishing 14 dishwashing machines. Following bids received:

Elkington Helwig Mfg. Co., San Francisco	\$6650
Champion Dishwashing Machine Co., Hoboken, New Jersey	7490
Insinger Co., Philadelphia, Pa.	7772
Fearless Dishwashing Co., Rochester, New York	7980
Colt's Patent Fire Arms Mfg. Co., Hartford, Conn.	8917

Bids held under advisement.

MODESTO, Stanislaus Co., Calif.—Following bids received by the City Council to furnish 30,000 gals. gasoline delivery city tanks:

- Richfield Oil Co., Los Angeles, Hi-Octane, \$.165; Green-Flash, \$.145.
- Shell Oil Co., San Francisco, Shell 3, \$.16½; Green Streak, \$.14½.
- Associated Oil Co., San Francisco, Flying-A, \$.15½; Green Gold, \$.13.
- Thrifty Oil Co., Modesto, and Signal Oil & Gas Co., Los Angeles, Purr-Pull \$.18; Peerless, \$.16.
- Union Oil Co. of Calif., Union 76 \$.15½; Unoco, \$.13½.
- Standard Oil Co. of Calif., Standard, \$.165.

Texaco Oil Co. also submitted a bid which was disqualified, not being accompanied by certified check.

Bids held under advisement until July 12.

LOS ANGELES, Cal.—Petrol Corp. awarded contract by A. J. Holm, City Purchasing Agent, July 5 at \$58,800 (estimated total) to furnish Bureau of Engineering with 1000 tons per month of 90% asphaltum road oil from July 1, 1933 to Dec. 31, 1933; Spec. No. 3115. Bids opened June 20.

SAN FRANCISCO—Following bids being received by U. S. Forest Service, Ferry Bldg :

Until July 17, 2:30 P. M., for drill steel as follows:

- 215 ft. 2-ft.;
- 250 ft. 4-ft.;
- 250 ft. 6-ft.;
- 200 ft. 8-ft.

Until July 18, 2:30 P. M., for 18 air compressors;

Until July 19, 2:30 P. M., for 18 road rippers.

Specifications on above obtainable from above office.

REDDING Shasta Co., Cal.—Until July 24, 3 P M., bids will be received by Leslie E. Engram, City Clerk. to furnish cedar poles f.o.b. car Redding as follows:

- (1) 10 9-in. top 50-ft. cedar poles;
- (2) 35 9-in. top 45-ft. do;
- (3) 10 9-in. top 45-ft. do.

Western Red Cedar, butts creosoted one-half inch guaranteed penetration. Certified check 10% required with bid.

BREMERTON, Wash.—Until July 28, 10 A. M., D. S. T., under Req. No. NSA-8/1175, bids will be received by Supply Officer, Puget Sound Navy Yard, to furnish 1400 pounds cement-compound, iron or steel, hydraulic, in 10-lb. cans. Navy Dept. Spec. 51-C-3C. Delivery Aug. 21 f.o.b. above or f.o.b. carrier at or near contractor's works.



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A welcoming room...an enterprising chef...a Union Square location (and that says volumes if you know your San Francisco) ...These are among the Plaza features that will brighten the days of your visit here † †

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RAY MAXWELL, Manager

HOTEL PLAZA
POST STREET AT STOCKTON
SAN FRANCISCO



ENGINEERING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

21.—Bridges	30.—Reservoirs and Dams
22.—Dredging, Harbor Works, Excava.	31.—Pipa Lines and Wells
23.—Irrigation Proj.	32.—Sewers & Sewage Disposal Plants
24.—St. Light. Systems	33.—Water Works
25.—Machinery and Equipment	34.—Parks & Playgrounds
26.—Railroads	35.—Tunnels
27.—Fire Alarm Sys.	
28.—Fire Equipment	
29.—Streets & Highways	

21—BRIDGES

EUREKA, Humboldt Co., Calif.—Frank Johnson, J. L. Cloney and K. V. Haapala, Eureka, at \$1,943.50 were awarded contract by county supervisors for refooring the Miranda Bridge over the south fork of the Eel River near Miranda in Road Dist. No. 2.

Complete bids follow:

Johnson, Cloney, Haapala.....	\$1,943.50
Henry Padgett	2,094.00
H. A. Anderson	2,130.00
Boydstrom & Vaughn	2,291.00
Mercer-Fraser Co.	2,313.00
Smith Brothers	2,333.00
Evans Const. Co.	2,340.00
E. A. Morganti	2,639.00
Fred Maurer	3,031.00

HANFORD, Kings Co., Cal.—People's Ditch Co., Hanford, granted \$80,000 loan by Reconstruction Finance Corp., which will be used to replace wood weir across Kings river near Kingsburg with a concrete weir for diversion of water.

SAN FRANCISCO.—Sibley Grading & Teaming Co., Ltd., 165 Landers St., awarded sub-contract by Healy-Tibbits Const. Co. for excavation in connection with the San Francisco Anchorage, S. F.—Oakland Bay Bridge.

MARION CO., Ore.—Tom Lillebo of Reedsport, at \$31,368, submitted low bid to U. S. Bureau of Public Roads, Portland, to construct one steel I-beam stringer bridge over White Water Creek, North Santiam Highway Project E-24-D2, N. F. R. Proj., Willamette National Forest. Complete bids follow:

Tow Lillebo, Reedsport.....	\$31,368
J. F. Johnson, Newberg	32,384
Parlet-Schram, Portland	33,450
Kukenberg-Wittman, Yosemite	33,518
J. J. Badraun, Portland	34,327
Smith & Gregiore, Portland	34,434
Guthrie-McDougal, Portland	39,941

LOS ANGELES, Calif.—R. W. Stewart, engineer of bridges and viaducts, has been authorized to prepare plans for constructing a new bridge to replace the old wooden structure on Sunset Blvd., over Glendale Place. The new structure will be 80 ft. wide and 100 ft. long, single span of rigid frame construction. The cost is estimated at \$145,000.

SAN FRANCISCO—Healy Tibbits Constr. Co., 64 Pine St., contractors on the San Francisco Anchorage, S. F.—Oakland Bay Bridge, award the following sub-contracts in connection with construction:

WRECKING—Symon Bros. Wrecking Co., 1435 Market St., S. F.

ELECTRIC WORK—Victor Lemoje, 281 Natoma St., San Francisco.

PITTSBURG, Contra Costa Co., Cal.—City council plans new pedestrian subway at Tenth and Black Diamond Sts., 50 ft. long, 7 ft. high, 6 ft. wide; reinforced concrete construction; estimated cost, \$4500. Project may be financed by gas tax funds. Geo. T. Oliver, city manager and city engineer.

LOS ANGELES, Calif.—E. G. Perham, 1128 Stearns Drive, Los Angeles, awarded contract by county supervisors July 10 at \$8587 (using steel piling encased in concrete) for the construction of concrete and steel bridge on Anaheim-Puente Road over San Jose Creek.

James Noon was allowed to withdraw his bid on account of clerical error.

RENO, Washoe Co., Nevada—Home Lumber Co., Reno, at \$1054.50 awarded contract to supply 46,281 ft. b. m. 2x9x9 timbers to recover the East Second bridge across the Truckee River.

ORANGE-RIVERSIDE COUNTIES, Cal.—Until 2 P. M., August 9, bids will be received by the Board of Directors of the Ortega Joint Highway District at the office of the district, Orange County Court House, Santa Ana, for constructing a bridge across San Juan Creek, 2.6 miles north of San Juan Capistrano, in accordance with plans prepared by A. C. Fulmor, Chief Engineer. Plans may be obtained from his office in the Riverside County Court House upon payment of \$5, not returnable. Certified check or cashier's check, 10%. The proposed bridge will be of the steel girder type with concrete deck and concrete handrail, 160 ft. in length, consisting of four 40-ft. spans, with a 24-ft. roadway between curbs. The work will involve:

- (1) 204 cu. yds. struc. excav.;
- (2) 28 cu. yds. class E concrete;
- (3) 248 cu. yds. class A concrete;
- (4) 29,600 lbs. reinf. steel;
- (5) 146,600 lbs. structural steel.

The bid is to be on a lump sum basis.

The cost is estimated at \$12,500. L. W. Briggs, Secretary.

22—DREDGING, HARBOR WORKS, EXCAVATION

PORTLAND, Ore.—U. S. Engineer Office, 321 Customhouse, Portland, will call bids shortly for harbor improvement projects as follows:

Remove 8800 cu. yds. subaqueous rock in upper Columbia River between Celio Falls and Arlington, Ore.

Construct rubble mound and south jetty at entrance to Tillamook Bay, Ore., involving in the main 200,000 tons stone, 60,000 lin. ft. piling, 575,000 ft. lumber, 20,000 lbs. drift bolts,

130 tons rail, 15,000 lbs. spikes, 14,000 lbs. machine bolts and 20,000 ft. wire cable.

Dredge 5,730,000 cu. yds. from Columbia River opposite Harrington Pt., 90 miles below Portland.

Dredge 3,103,000 cu. yds. from two locations in Willamette river.

Beach, 2130.
San Francisco Bridge Co., 160.
Sparks adm McClellan, Newport
er bids were:
cannot be made for 10 days. The other bids will be awarded as above but by the charter the official award Agent's recommendation, the contract will be awarded to the Purchasing agent with the Purchasing In accordance with the Purchasing agent's recommendation, the contract handling 600,000 cu. yds. material. Shoals in San Diego Harbor, involving \$83,340, for dredging at Alexander July 10 at 13.89¢ cu. yd., or a total purchasing agent, A. R. Sauer, Jr., Diego, submitted low bid to the City of San Diego, Municipal Pier No. 1, San Diego, Cal.—Standard Dredge-

SACRAMENTO, Cal.—Franks Contracting Co., 260 California St., San Francisco, at \$135 submitted low bid to U. S. Engineer Office, Sacramento, to dredge 242,000 cu. yds. material from the San Joaquin River 26 ft. Channel in two reaches totalling about 4550 ft. in length near Turner Cut. Only other bid submitted by Hydraulic Dredging Co., Ltd., Oakland, at \$145. Engineer's estimate, \$13. Bids held under advisement.

PORTLAND, Ore.—Parker - Schram Co., Couch Bldg., Portland, awarded contract by Army Engineer Corps at \$69,706, for rock excavation and removal, reconstruction of miter sill and thrust walls, lock gate and timber.

LOS ANGELES, Calif.—Until Aug. 11, 3 P. M., bids will be received by U. S. Engineer Office, 751 S. Figueroa St., Los Angeles, Maj. W. H. Lanagan, District Engineer, to repair encroachment at Reservation Point, Los Angeles Outer Harbor, involving furnishing and placing 4000 tons stone.

The project will provide nearly half of the proposed extension, may be either of the clay core rock surface type, as is the initial segment, or all rock. Present construction costs would permit the latter type under the original \$7,000,000 appropriation. The cost of constructing the 4000 feet with clay base would approximate \$1,400,000, the all-rock would be \$2,000,000, according to estimates of the engineer.

The clay core type, requiring but 940,000 tons of rock, will entail use of 445,000 cu. yds. of clay. The clay would be dredged from the outer harbor shoal directly south of Reservation Point, enabling the straightening of the harbor fairway approach to the main channel. If the all-rock type is used, approximately 1,500,000 tons of rock will be required.

ber fenders, construction of emergency dam and riprap for dike, all in Willamette river, in and between Lock No. 1 (lowest lock of locks at Willamette Falls, near Oregon City), and a point about one mile downstream from Willamette Falls.

OAKLAND, Cal.—Lee J. Immel, 1031 Evelyn Ave., Berkeley, at \$32 per cu. yd. awarded contract by City Port Commission for the removal of approximately 2000 cu. yds. of material in rear of the 329-ft. extension to Outer Harbor Terminal, estimated cost \$900.

CAPITAL CITY TITLE COMPANY

J. C. PALEN,
Manager

914 Seventh Street

Sacramento :: California

SACRAMENTO, Cal.—Franks Contracting Co., 260 California St., San Francisco, at \$135 awarded contract by U. S. Engineer Office, Sacramento, to dredge 242,000 cu. yds. material from the San Joaquin River 26 ft. Channel in two reaches totalling about 4550 ft. in length near Turner Cut. Complete bids published July 7.

NYSSA, Ore.—As previous reported J. A. Terteling & Son, 511 Sound, Spokane, Wash., at \$118,404.50 submitted low bid to U. S. Bureau of Reclamation, Denver, Col., to construct earth-work and structures, North Canal, Sta. 260 (Owyhee River Siphon) to Sta. 513, Mitchell Butte Division, Owyhee Project, Oregon-Idaho, work located near Nyssa and Adrian, Ore., on the Oregon Short Line Railroad. Complete bids follow:

J. A. Terteling & Sons, Spokane	\$118,404.00
Morrison-Kundsen Co. Boise	122,675.00
F. H. Slate, Portland	125,357.00
General Const. Co., Seattle	132,937.00
Guthrie-McDougal Co., Portland	163,199.00
Winston Bros., Minneapolis	166,566.00
Bernard-Curtis Co., "	168,349.00

23—IRRIGATION PROJ.

IDAHO STATE—J. W. Brennan & Co., Pocatello, Idaho, awarded contract by the U. S. Bureau of Reclamation, Denver, Colo., at \$4455 to construct structures on laterals, Gooding Division, Minindoka project, Idaho.

24—ST. LIGHT. SYSTEMS

SAN FRANCISCO.—Until July 26, 2:30 P. M., bids will be received by S. J. Hester, Chief Deputy Director, Department of Public Works, to erect lighting system in Alenmany Blvd., Section B and C, Mission to San Jose, involving:

- (1) 96 ornamental iron standards and appurtenances, to be erected, assembled and hauled (furnished by the city) lump sum bid.
- Estimated cost, \$16,000. Specifications obtainable from John J. Casey, city engineer, 3rd floor, City Hall.

25—MACHINERY AND EQUIPMENT

SANTA CRUZ, Cal.—High School District will open bids July 17, 8 P. M., to furnish three school buses, 2 48-passenger and one 60-passenger capacity, one for the San Lorenzo Valley, one for service along the Coast to Swanton, and the 60-passenger bus through the Live Oak Dist.

DURHAM, Butte Co., Cal.—Until July 21, 8 P. M., bids will be received by Wm. Bollerud, Clerk, Grammar School Board, to furnish two truck chassis to fit school bus bodies now in storage in Durham Garage. Certified check 10% required with bid.

SALEM, Ore.—Until July 25, 11 A. M., bids will be received by the State Board of Control, Salem, to furnish:

- (1) five snow plows, moldboard push type, 8-ft. for 1½-ton International;
- (2) five do, for 1½-ton Chevrolet.

Specifications obtainable from above office.

PORTERVILLE, Tulare Co., Cal.—Until July 21, 6 P. M., bids will be received by Lucien V. Schmitton, clerk, Porterville Union High School Dist., to furnish one school bus. Specifications obtainable from Secretary, 420 Main St., Porterville. Certified check 10% required with bid.

PANAMA CANAL ZONE—Until July 27, 10:30 A. M., under Schedule No. 2836, bids will be received by the General Purchasing Officer, Panama Canal Zone, Washington, D. C., to furnish:

- Pump equipment;
- Oil-purifying equipment and motor-driven blower for Craneship;
- Lifeboats;
- Galley Range;
- Fire Extinguisher System;
- Portable Fire Extinguishers;
- Steel Reinforcing Bars;
- Creosote Oil.

WASCO, Kern Co., Cal.—Waseo Mill & Mfg. Co. awarded contract by high school district to furnish an all-metal school bus body. Marvin Braham, Bakersfield, was awarded contract to furnish the chassis and motor. Complete cost of the bus is \$3725.

26—RAILROADS

LOS ANGELES, Cal.—E. C. Eaton, 202 N Broadway, county flood control engineer, has completed specifications for the sale and removal of 12,000 lin. ft. of railroad track and accessories in San Gabriel Canyon, upstream from Pine Canyon Dam. The specifications have been submitted to the county supervisors for their approval and advertisement of bids.

30—RESERVOIRS & DAMS

OAKLAND, Cal.—East Bay Municipal Utility District, Oakland, preparing plan for construction of Middle Bar Dam, 10 miles upstream from the Pardee Dam, Mokelumne River, which will develop 9000 k.w. of electric energy. Dam will be 156 ft. from foundation to spillway crest; will have runway on top of dam; siphon spillways; curved gravity type dam. A power house will be constructed downstream. Dam will be 23 ft. thick at top; 119 ft. thick at base; length 535 ft. at crest; will involve about 90,000 cu. yds. of concrete. Capacity of reservoir will be about 30,850 acre feet. R. C. Kennedy, Engineer; John H. Kimball, Secretary of the District. Estimated cost, \$800,000. Project may be financed by federal funds under the National Industrial Recovery Act.

LOS ANGELES, Cal.—Mittry Bros. Const. Co., 5531 Downey Road, Los Angeles, at \$224,332 for concrete, and \$229,737 for granite (Proposal No. 1) submitted low bid July 10 to county supervisors to construct Eaton Wash Debris Dam. Other bids follow:

- Basich Bros., Torrance, \$234,173.25 and \$241,263.25.
 - Geo. Pollock, Sacramento, \$256,195. and \$268,285.
 - A. Teichert & Son, Sacto., \$288,-698.50 and \$292,377.50.
 - Von der Hellen & Pierson, Castiac, \$333,855.25 and \$332,314.50.
 - J. E. Haddock, Ltd., Pasadena, \$333,-855.25 and \$342,791.25.
 - Guy F. Atkinson, San Francisco, \$336,233 and \$344,480.
- Complete bids under Proposal No. 2 follow:
- Hall Johnson Co. and M. S. Ross, Alhambra, \$143,782.50.
 - Geo. Pollock Co., Sacramento, \$149,-435.
 - C. G. Payne Const. Co., Los Angeles \$179,852.55.
- Complete bids under Proposal No. 3 follow:
- Case Const. Co., 1927 Thayer Ave., Los Angeles, \$125,951.
 - George Hess, Los Angeles, \$143,392.

SEATTLE, Wash.—Columbia Basin Commission and Federal Government sign contract for preparation of plans and estimates of cost for construction of power dam at the Grand Coulee site, Columbia River.

31—PIPE LINES & WELLS

LAKEPORT, Lake Co., Cal.—City Council will seek \$15,000 federal funds through the National Industrial Recovery Act to construct 200-yard redwood causeway across Rumsey Bay, north end of Main St.

HANFORD, Kings Co., Cal.—North & Cole, Corcoran, awarded contract by Gas Fuel Service Company for welding 2200 lengths of pipe 45 ft. long, in connection with their gas line now being built, estimated cost \$680,000.

MT. VIEW, Santa Clara Co., Cal.—Until July 19, 8 P. M., bids will be received by E. L. Hays, City Clerk, to drill 10-in. well, 400-ft. deep and furnish and install a casing. Specifications obtainable from above. Certified check 10% required with bid.

SAN FRANCISCO.—American Concrete & Steel Pipe Co., 19th Avenue and Estuary, Oakland, at \$90,444.70 for Alameda Creek, and \$25,294.55 for Tesla Portal, total \$115,739.25 under Prop. B, steel cylinder reinforced concrete pipe, awarded contract by the Public Utilities Commission, under Hetch Hetchy Water Supply Contract 142, to construct pipe lines, Coast Range Division, Hetch Hetchy Aqueduct (Alameda Creek Siphon and Tesla Portal connection).

32—SEWERS & SEWAGE DISPOSAL PLANTS

SAN BRUNO, San Mateo Co., Cal.—Fairbanks Morse & Co., Spear and Harrison Streets, San Francisco, at \$2358.87 awarded contract by city council to furnish four sewage pumps for the San Bruno-Lomita Park outfall sewer.

CAPITOLA, Santa Cruz Co., Calif.—County supervisors continue action on outfall sewer system for Capitola, bids for which were opened May 29, until July 24, 2:30 P. M.

CLOVERDALE, Sonoma Co., Cal.—City council plans to improve sewage system by construction of Imhoff tank.

PALO ALTO, Santa Clara Co., Cal.—Until July 24, 4 P. M., bids will be received by Board of Public Works to furnish vitrified salt-glazed sewer pipe as follows in connection with new sewage disposal system:

- (1) 2300 ft. 27-in.;
 - (2) 850 ft. 20-in.;
 - (3) 3850 ft. 15-in.;
 - (4) 780 ft. 14-in.;
 - (5) 1500 ft. 12-in.;
 - (6) 490 ft. 10-in.;
 - (7) "Y" ranches for above;
 - (8) 4600 ft. 22-in. wood stave pipe.
- Specifications obtainable from J. F. Byxbee, Jr., city engineer.

SONOMA, Sonoma Co., Calif.—City council considers plan to construct outfall sewer to tide water; proposed by C. G. Gillespie, State Bureau of Sanitary Engineering.

PALO ALTO, Santa Clara Co., Cal.—Bids had under further advisement until July 24, 4 P. M., by Board of Public Works, to furnish sedimentation tank and sludge pump in connection with the new sewage disposal system.

PALO ALTO, Santa Clara Co., Cal.—De Laval Steam Turbine Co., Rialto Bldg., San Francisco, at \$2062 awarded contract by Board of Public Works to furnish 2 sewage pumps 1000 to 1100 G.P.M. against an average 18½ ft. head, maximum 21½ to minimum 16½.

CAPITOLA, Santa Cruz Co., Cal.—Santa Cruz County may purchase bonds of Capitola Sanitation District in order to proceed with construction of \$21,500 outfall sewer, for which \$12,000 bonds have already been sold.

33—WATER WORKS

ALDERWOOD MANOR, Wash.—Until July 5, bids will be received by Alderwood Water District, Peter H. Tutmark, President, to construct water distribution system, involving:

- 60 miles pipe line;
- 241,000 ft. 4-in. pipe;
- 45,000 ft. 6-in. pipe;
- 5000 ft. 8-in. pipe;
- 24,000 ft. 12-in. pipe;
- 5000 ft. 18-in. pipe.

Henry R. Stevens, Thompson Bldg., Seattle, Wash., is consulting engineer on the project. Bonds not to exceed \$75,000 have been voted to finance project.

BOULDER CANYON, Nev.—Following awards made by U. S. Bureau of Reclamation, Denver, to furnish stop plates, bronze guides, bulkhead gates, gate hangars, anchors for intake towers, under Spec. 593-D:

- (1) J. W. Beam, \$30,845, Denver.
- (2) Riverside Bridge & Steel Co., Milwaukee, Wis., 1550.
- (3) Pacific Car & Foundry Co., Los Angeles, \$13,910.
- (4) Consolidated Steel Co., Los Angeles, \$900.

OAKLAND, Cal.—Following awards made by East Bay Municipal Utility District, Oakland, to furnish cast iron b&s water pipe fittings:

Schedule 1: Grinnel Co. of the Pacific, 5th and Brannan Sts., San Francisco, elbows, \$636.00.

Schedules 2 and 3: Santa Fe Foundry, Richmond, cast iron tees, \$1260.40 and cast iron crosses, \$524.90.

Schedules 4, 5 and 6: American C. I. Pipe Co., Balboa Bldg., San Francisco sleeves, \$612.60, nipples and plugs, \$405.00 and reducers and risers, \$1,168.25.

Complete bids published July 1.

EUREKA, Humboldt Co., Cal.—City council plans construction of new water system, involving construction of seven tunnels in the 27 miles of pipe lines. C. C. Kennedy, 74 New Montgomery St., San Francisco, engineer on the project.

ALHAMBRA, Los Angeles Co., Cal.—Until 9 A. M., July 18, bids will be received by city commission to furnish between 2000 and 4000 ft. of 18-in. cast iron pipe, Class B or equal. Alternate bids will be taken on centrifugally cast pipe. T. B. Downer, water superintendent, R. E. Wallace, city clerk. This pipe will be laid in Pine St. from Atlantic Blvd. to Bushnell Ave., and on Bushnell Ave. from Huntington Drive to the Marengo Avenue Reservoir. The work will be done by force account. Estimated cost is \$24,000.

SIGNAL HILL, Los Angeles Co., Cal.—Bids will be called by city council within the next two weeks to furnish 10,000 ft. of 6-in., 8-in. and 16-in. cast iron pipe for the city water department. The pipe shall be Class 150, bell and spigot, delivered f.o.b. city yards. Specifications are being

prepared by W. V. Thompson, water superintendent, City Hall, 2120 Cherry Avenue.

SIGNAL HILL, Los Angeles Co., Cal.—Bids will be called by city council within the next two weeks to construct reinforced concrete water tank or standpipe for the city water department in accordance with plans which are being prepared by W. V. Thompson, water superintendent, City Hall, 2120 Cherry Ave. The proposed tank will be 18 ft. in diameter, 40 ft. in height with a capacity of approximately 80,000 gallons.

SEBASTOPOL, Sonoma Co., Cal.—Until August 7, bids will be received by City Clerk McFarlane to drill 14-in. well, furnish deep-well pump and pipe to connect; and to construct pump house. Bids may be offered for plant as a whole or separately.

HAYWARD, Alameda Co., Calif.—As previously reported, until July 19, 8 P. M., bids will be received by M. B. Templeton, city clerk, to furnish 2000 lin. ft. 6-in. b&s centrifugal cast iron pipe, Class 150, 16- to 18-foot lengths. Specifications obtainable from above. John A. Mancini, city engineer.

BEVERLY HILLS, Los Angeles Co., Cal.—Until 8 P. M., August 1, bids will be received by City to furnish and install one deep well turbine pump at the Melrose well. Plans and specifications obtainable from Salisbury, Bradshaw & Taylor, engineers, 714 W. 10th St., Los Angeles.

BEVERLY HILLS, Los Angeles Co., Cal.—Until 8 P. M., August 1, bids will be received by City to furnish and install feed vacuum chlorinator and one Venturi tube and recording water meter. Plans and specifications obtainable from Salisbury, Bradbury & Taylor, engineers, 714 W. 10th St., Los Angeles.

LOS ANGELES, Cal.—Vernon Tool Co. awarded contract by A. J. Holm, City Purchasing Agent, July 11, at \$2339.75 to furnish Department of Water & Power with sluice gates under Specifications No 3129.

NORTH SACRAMENTO, Cal.—City council will apply for \$100,000 federal funds under the National Industrial Recovery Act to finance construction of municipal water plant. Water will be purchased from the City of Sacramento. 33

PASO ROBLES, San Luis Obispo Co., Cal.—City council will purchase 10,000 ft. second-hand cast iron pipe from City of Los Angeles in connection with municipal water system.

DUNSMUIR, Siskiyou Co., Cal.—City council plans to apply for \$225,000 federal funds through the N. I. R. A., for municipal water and electrical distribution systems. Council members state that the existing system will not be purchased.

35—TUNNELS

LOS ANGELES, Calif.—H. W. McKinley, 1326 N Central Ave., Glendale awarded sub-contract by C. V. Cummings, Elitmore Hotel, vice-president of the West Const. Co., contractor for the Whitewater Tunnels Nos. 1 and 2, for excavating the approach cut, involving about 40,000 cu. yds. H. E. Carleton, Elitmore Hotel, is the contractor's general superintendent.

LOS ANGELES, Cal.—A. Teichert & Son, 409 Le Roy St., Los Angeles, awarded the contract by the Walsh Construction Co. for grading and oiling 5.5 miles roadway in connection with the construction of the adit for the Whipple Mountain Tunnel.

LOS ANGELES, Cal.—H. W. McKinley, 1326 N. Central Ave., Glendale, awarded sub-contract by L. E. Dixon Co. and Bent Bros. for about 5000 cu. yds. excavation in the approach cut in connection with the contract for the west portion of the West Eagle Mountain Tunnel.

29—STREETS AND HIGHWAYS

LOS ANGELES, Cal.—Southern California Roads Co., 2145 E 25th Street, Los Angeles, at \$30,070 submitted low bid July 12 to board of public works to improve Lincoln Blvd. from Venice Blvd. to Washington Blvd.

TUOLUMNE COUNTY, Cal.—M. A. Jenkins and J. W. Hoopes, 3560 Y St and 5140 14th Ave., Sacramento, at \$7429.90 awarded contract by State Highway Commission to grade and pave with Portland cement concrete 0.6 mile at Sonora and to widen two bridges.

WILLOWS, Glenn Co., Cal.—Glenn county supervisors plan to ask federal funds under the National Industrial Recovery Act, as follows:

Willows-Elk Creek Road.....	\$ 3,500
Orland-Newville Road.....	66,000
Newville-Stonyford Road	108,000

NEVADA STATE.—Following low bids received by S. C. Durkee, State Highway Engineer, Carson City, for highway construction as follows, bids being taken under advisement:

Esmeralda and Nye Counties: C. F. Frederickson and Sons, Lower Lake, Calif., at \$28,370.49 for 9.77 miles oiling between Miller's Cutoff Road and Tonopah, Route 3, Sections C1 and A1.

Douglas and Lyon Counties: Basalt Rock Co., 900 8th St., Napa, and J. C. Compton, McMinnville, Ore., at \$27,153.87 for oiling from 5 miles east of Holbrook to the east county line, and from Yerington to 9.5 miles east, a length of approximately 15.15 miles, Route 3, Sections A1 and A2.

White Pine County: Wheelwright Const. Co., Ogden, Utah, at \$36,752 to construct state highway system between west foot of Antelope Summit and Illipah, 12.62 miles, Route 2, Section B.

Elko County: Utah Const. Co., Ogden, Utah, at \$153,160.71 to construct state highway system between Little Salmon River and Idaho State line, 18.02 miles, Route 13, Sections C4, 5 and 6.

LOS ANGELES, Cal.—Hearing on the improvement of Beverly Blvd., between Hilgard Ave. and Paseo Miramar, continued by city council to Sept. 12. The proposed work involves:

- 18,000 cu. yds grading;
- 358,410 sq. ft. pavement;
- Gutter; storm drain, etc.

Engineer's estimate, \$140,397.77.

FREMONT COUNTY, Wyo.—Central States Contracting Co., Oakland, Calif., at \$53,780 awarded contract by U. S. Bureau of Public Roads, for oiling Section A, Wind River or Shoshone Indian Reservation Highway.

THIAMA COUNTY, Cal.—Basalt Rock Co., 900 8th St., Napa, at \$1440 submitted lone bid to and recommended for award of contract by U. S. Bureau of Public Roads, San Francisco, for 3.715 mi. road oil dust pal-

native on Section A, Route 79, the Morgan Summit-Morgan Springs National Forest Highway, Lassen National Forest, involving 18,000 gals. furnishing and applying road oil. Unit bid was \$.08 per gal. Engineer's estimate, \$1440.

COCONINO COUNTY, Ariz.—All bids rejected and new bids will probably be advertised at a later date by U. S. Bureau of Public Roads, for 3.556 mi. placing subgrade reinforcement, Grand Canyon Route No. 10, Grand Canyon National Park.

O. F. Fisher, 516 S. 7th St., Phoenix, submitted low bid at \$6445.

WASHINGTON STATE—Following contracts awarded by L. V. Murrow, State Director of Highways, for highway construction as follows:

J. F. Kernan, Paloma, Ore., at \$36,060—**SKAMANIA COUNTY**—construct 12 miles bituminous macadam surface on State Road No. 8, Stevenson to Cooks.

Deisel Oil Sales Co., 115 Belmont N., Seattle, at \$36,614.60 (combined bid) for:

KITSAP COUNTY—3.9 mi. bituminous macadam surface on State Road No. 14, end of pavement south of Bremerton to beginning of pavement in Port Orchard.

MASON COUNTY—4.8 mi. bituminous macadam surface on State Road No. 9, end of pavement north of Shelton to junction State Road No. 14.

CALLAM COUNTY—3.2 mi. State Road No. 9, Blyn Ease.

WALLOWA CO., Ore.—The Colonial Building Co., Hutton Bldg., Spokane, at \$82,992 (metal pipe) and \$87,489 (concrete pipe), submitted low bid to U. S. Bureau of Public Roads, Portland, to improve Enterprise-Imnaha Grading Project E-39-A, N. F. R. Proj. Wallowa National Forest, 8.634 mi. Complete bids follow:

	(a)	(b)
The Colonial Building Co., Spokane	\$82,992	\$87,489
Fred H. Slate, Portland	\$9,049	94,276
Siems-Spokane Co., Spokane	107,947	112,452
General Construction Co., Seattle	107,976	109,014
S. H. Newell & Co., Portland	115,169	118,764
Clifton & Applegate, Spokane	121,122	123,642
E. C. Peck & Co., Portland	122,719	125,026
P. L. Crooks, Portland	123,515	124,645
Morrison-Knudson, Spokane	128,630	131,736

MARIN and SONOMA COUNTIES, Cal.—Until July 26, 2 P. M., bids will be received by State Highway Commission, Sacramento, for ten miles of bituminous surface treatment between Ignacio and Fairville, involving:

- (1) 2000 tons crushed gravel or stone, bit. treat. surf.;
- (2) 100 tons cut-back asph. bit. treat. surface;
- (3) 20,000 sq. yds. asph. paint binder;
- (4) 2000 tons rock screenings;
- (5) 80 tons emulsified asph. road oil;
- (6) 2400 cu. yds. imp. borrow.

SAN LUIS OBISPO AND MONTREY COS., Cal.—Until July 21, 2 P. M., bids will be received by L. H. Gibson, District Engineer, State Highway Commission, to treat with fuel oil as a dust palliative 14.7 mi. existing roadbed between San Carpojo Creek and Willow Creek. Specifications obtainable from above office. Certified check 10% required with bid.

PLUMAS COUNTY, Cal.—C. F. Fredericksen & Sons, Lower Lake, at \$6381 submitted low bid to and recommended for award of contract by U. S. Bureau of Public Roads, San Francisco, for 16,394 mi. road oil dust palliative on Sections E and F, Route 23, the Quincy-Beckwith National Forest Highway, Plumas National Forest, involving 96,000 gallons furnishing and applying road oil. Complete bids follow:

C. F. Fredericksen & Sons, Lower Lake, \$.0665, total \$6384.

Basalt Rock Co., Napa, \$.07, \$6730.
E. A. Forde, San Anselmo, \$.071, \$6816.

Engineer's Estimate, \$.07, \$6720.

SONOMA COUNTY, Cal.—Until July 20, 2 P. M., bids will be received by John H. Skeggs, District Engineer, State Highway Commission, Room 211, State Bldg., San Francisco, for 4.2 mi. existing asphalt concrete pavement to be placed between Willow Brook and Haystack, involving 331,000 sq. ft. planing. Specifications obtainable from above office.

LAKE COUNTY, Cal.—Until July 20, 2 P. M., bids will be received by John H. Skeggs, District Engineer, State Highway Commission, Room 211 State Bldg., San Francisco, for 6 mi. bituminous surface treatment to be applied between the southerly boundary and Middletown, involving:

- (1) 100 tons emulsified asphalt;
- (2) 1150 tons cru. gravel or stone screenings.

Specifications obtainable from above office. Certified check 10% required with bid.

MENDOCINO COUNTY, Cal.—Until July 20, 2 P. M., bids will be received by John H. Skeggs, District Engineer, State Highway Commission, Room 211, State Bldg., San Francisco, for 7.7 mi. bituminous surface treatment to be applied between Ukiah and Forsythe the Creek, involving:

- (1) 125 tons emulsified asphalt;
- (2) 1250 tons crushed gravel or stone screenings.

Specifications obtainable from above office. Certified check 10% required with bid.

RIVERSIDE, Riverside Co., Calif.—Plans and specifications for the oiling of 17 miles of the Pines-toPalms road east from the Idyllwild Forest road approved by the county supervisors. The oil will be furnished by the Bureau of Public Roads and bids will probably be called in one week when specifications are completed. Work will be done by the county by force account under the direction of R. L. McKenzie, Road Superintendent. The county work will start at Keen's Camp and will extend in the direction of Pinon Flats, 17 miles, the lower portion, 16 miles, terminating at Indian Wells on the state highway, will be surfaced by the state highway department under its secondary highway program. The proposed road will be 20-ft. in width, of desert mix type, with oil laid 1½-gal. to the square yard, or approximately 20,000 gals. per mile, requiring about 340,000 gals., 60-70 road oil.

TULARE COUNTY, Cal.—All bids rejected and new bids will probably be advertised at a later date by U. S. Bureau of Public Roads for 3.37 miles grading Section B of the Gen. Grant-Sequoia Park Road.
Yglesias Bros., Box 25, San Diego, submitted low bid at \$164,874.

NEWPORT, Wash.—D. A. Sullivan & Co., Inc., at \$25,608 awarded contract by Pend Oreille County Com-

missioners to clear, grub, grade, drain and surface with crushed gravel five miles of lateral highway No. 4, Camden Road.

HEMET, Riverside Co., Calif.—Bids for furnishing and spreading oil on 2.5 miles of city streets opened by city council July 3, follow:

Gilmore Oil Co.: 35,000 gals. road oil delivered in lots of not more than two carloads at a time, including spreading on streets with contractor's equipment, 3.5c gal.

Union Oil Co.: Furnish, deliver and spray, \$1.80 per bbl.

Bids taken under advisement.

LOS ANGELES, Cal.—Graham Bros. awarded contract by A. J. Holm, City Purchasing Agent, July 5 at \$90,000 (estimated total) to furnish Bureau of Engineering with Nos. 2, 3 and 4 crushed rock from July 1, 1933, to Dec. 31, 1933. Spec. No. 3131. Bids opened June 22.

SAN FRANCISCO.—A. G. Raisch, 1 De Haro St., at \$49,283.90 awarded contract by Department of Public Works to improve Alemany Blvd., Section C, from Naglee to San Jose.

SAN FRANCISCO.—A. G. Raisch, 1 De Haro St., at \$35,559.10 awarded the contract by Department of Public Works to improve Alemany Blvd., Section C, Ocean Ave. to Seneca Ave.

MODOC COUNTY, Cal.—Until Aug. 1, 2 P. M., bids will be received by U. S. Bureau of Public Roads, C. H. Sweetser, District Engineer, 461 Market St., San Francisco, for 28.077 mi. of road oil dust palliative on Beds and Howard Gulch National Forest Highways, Modoc National Forest, involving 148,000 gals. furnish and apply road oil. Specifications are obtainable from above office on deposit of \$10, certified check payable to the Regional Fiscal Agent, U. S. Forest Service.

KERN COUNTY, Cal.—Until July 24, 2 P. M., bids will be received by E. E. Wallace, District Engineer, Highway Bldg., Fresno, for bituminous surface treatment between Wasco and Famoosa, 8.7 mi. earth State Highway Commission, State shoulders to be oil treated; between Bakersfield and Kern Canyon, and between Monolith and Cameron, 14.3 mi. existing surfacing to be bituminous surface treated. Specifications obtainable from above office. Certified check 10% required with bid.

MERCED AND MARIPOSA COS., Cal.—Until July 24, 2 P. M., bids will be received by E. E. Wallace, District Engineer, State Highway Commission, State Highway Bldg., Fresno, for bituminous surface treatment between Merced and Orange Hill School, 14.9 mi. existing shoulders and 6.3 mi. existing roadbed. Specifications obtainable from above office. Certified check 10% required with bid.

LOS ANGELES, Cal.—G. W. Jones, county road commissioner, preparing plans for grading and improving La Tijera Blvd., 10 ft. wide, from Slau-son Ave. to Arizona Ave., about 2.94 miles, involving 150,000 cu. yds. excavation and placing of small culverts. Work to be started this week by un-employment forces. The county supervisors authorized the appropriation of \$55,500 July 10 for this project.

RED BLUFF, Tehama Co., Calif.—Hemstreet & Bell, 501 11th St., Marysville, at \$7,170 (one bid) submitted low bid to Joint Highway District No. 18 for additional highway construction on the district road between Proberta and Los Molinos. The proposed work calls for surfacing with armor

type oil that part of the highway between north line of Gerber and the north line of Las Flores; surfacing with crushed rock base and penetration surface approximately 1000 feet south of Gerber; and re-building the curves at various points between Gerber and Tehama, involving:

- (1) 900 tons screenings.....\$ 5.00
- (2) 47 tons asphaltic oil..... 22.00
- (3) 84 bbls. fuel oil..... 4.00
- (4) 520 cu. yds. gravel..... 2.50

SAN DIEGO COUNTY, Calif.—Until August 2, 2 P. M., bids will be received by State Highway Commission, Sacramento, to pave with asphaltic concrete 4.4 miles between Barnett Ave. and Balboa Ave., involving:

- (1) 350 cu. yds. struc. excav.;
- (2) 78,000 sq. yds. subgrade for pave.
- (3) 100 cu. yds. cushion course;
- (4) 33,800 tons asph. concrete;
- (5) 60 cu. yds. Class A Port. cement concrete curbs and gutters;
- (6) 8 cu. yds. Class A do (struc.);
- (7) 700 lbs. bar reinf. steel (struc.);
- (8) 1100 lbs. misc. iron and steel (struc.);
- (9) 168 lin. ft. 12-in. reinf. concrete pipe;
- (10) 136 lin. ft. 14-in. do;
- (11) 2600 sq. yds. asph. paint binder;
- (12) 50 cu. yds. conc. remove from existing pave. and curb;
- (13) 2500 bbls. fuel oil;
- (14) 660 guide posts;
- (15) 233 sta. finish roadway.

State will furnish reinforced concrete pipe.

ALAMEDA COUNTY, Cal. — Until August 2, 2 P. M., bids will be received by State Highway Commission Sacramento, to apply bituminous surface treatment over 1.9 mi. between Mission San Jose and Warm Springs, involving:

- (1) 4300 cu. yds. selected material;
- (2) 1300 tons broken stone (Bit. mac. base);
- (3) 2100 tons screenings (bit. surf. treat.);
- (4) 230 tons emulsified asphalt, base and surface treatment;
- (5) 101 sta. finish roadway.

TRINITY COUNTY, Cal.—Granfield, Farrar and Carlin, 67 Hoff Street, San Francisco, at \$98,131.10 submitted low bid to, and recommended for award of contract by U. S. Bureau of Public Roads, San Francisco, to grade 4.265 miles of Section B, Route 5, the Douglas City-Peanut National Forest Highway, Trinity National Forest.

LOS ANGELES COUNTY, Cal.—Until August 2, 2 P. M., bids will be received by State Highway Commission, Sacramento, to excavate slopes between Palomas Creek and Whitaker Bridge, 6.8 miles, involving:

- (1) 180,000 cu. yds. slope excavation, unclass.;
- (2) 310,000 mi. yds. overhaul;
- (3) 3000 cu. yds. struc. excav.;
- (4) 8 lin. ft. 18-in. corr. metal pipe;
- (5) 34 lin. ft. 24-in. do;
- (6) 50 lin. ft. 36-in. do;
- (7) 3 culvert headwalls to be moved and reset.

State will furnish corrugated metal pipe.

LOS ANGELES COUNTY, Cal.—Until August 2, 2 P. M., bids will be received by State Highway Commission, Sacramento, to treat with asphaltic road oil 18.6 miles of roadbed and two miles of earth shoulders between Neenach School and Del Sur Road; and between Wet Canyon and Colby Creek, 5.1 miles of roadbed to be treated with asphaltic road oil and bituminous seal coat applied, involving:

- (1) 3450 bbls. 70-80 asph. road oil (Route 59);
- (2) 1810 bbls. 70-80 do (Route 61);
- (3) 101 tons 90-95 asph. road oil (Rt. 61);
- (4) 900 tons rock screenings (Rt. 61).

SAN DIEGO COUNTY, Calif.—Until August 2, 2 P. M., bids will be received by State Highway Commission, Sacramento, to grade and pave with portland cement concrete on 1.8 miles between Broadway and Harashty St., involving:

- (1) 7200 cu. yds. rdwy. embankment;
- (2) 850 cu. yds. struc. excav.;
- (3) 39,500 sq. yds. subgrade for pave.;
- (4) 8350 cu. yds. Class A Port. cem. conc. pave.;
- (5) 2 cu. yds. do, curbs;
- (6) 45 cu. yds. Class A do, struc.;
- (7) 188,000 lbs. bar reinf. steel pave. and struc.;
- (8) 2500 lbs. misc. iron and steel (struc.);
- (9) 234 lin. ft. 18-in. reinf. concrete pipe;
- (10) 12 lin. ft. 24-in. do;
- (11) 176 lin. ft. 54-in. do;
- (12) 285 cu. yds. Portland cem. conc. remove from existing pave. and curb and dispose of;
- (13) 420 M. gals. water;
- (14) 1020 bbls. heavy fuel oil;
- (15) 97 sta. finish roadway.

JUNEAU, Alaska—Until July 19, 9 A. M., bids will be received by U. S. Bureau of Public Roads, M. D. Williams, District Engineer, 419 Federal & Territorial Bldg., Juneau, to surface 3.788 mi. Glacier Highway, Lemon Creek-Duck Creek Section, Tongass National Forest, 1st Judicial Division involving 6500 cu. yds. crushed rock or gravel top course. Specifications obtainable from above office on deposit of \$5, returnable, checks payable to Bureau of Public Roads, Juneau.

LOS ANGELES, Cal.—Consolidated Rock Products Co., awarded contract by A. J. Holm, City Purchasing Agent July 5, at \$14,950 (estimated total), to furnish Bureau of Engineering with sand from July 1, 1933 to Dec. 31, 1933. Spec. No. 3118. Bids opened June 20.

LOS ANGELES, Cal.—Consolidated Rock Products Co., awarded contract by A. J. Holm, City Purchasing Agent July 5, at \$52,800 (estimated total), to furnish Bureau of Engineering with Nos. 2, 3 and 4 crushed rock from July 1, 1933, to Dec. 31, 1933. Spec. No. 3132. Bids opened June 22.

SAN FRANCISCO.—Department of Public Works, S. J. Hester, Chief Deputy Director, plans to improve Fitzgerald, Jennings to 3rd, (Expendiency), estimated cost, \$2500, involving:

- (1) 4500 cu. yds. excavation;
- (2) 110 cu. yds. fill;
- (3) 632 ft. 12-in. V.C.P. sewer;
- (4) 46 V.C.P. Y branches;
- (5) 1 brick catchbasin;
- (6) 35 ft. 10-in. V.C.P. culvert;
- (7) 2 brick manholes.

MONTEREY COUNTY, Cal.—Santa Maria Const. Co., 101 N Broadway, Santa Maria, awarded contract by the State Highway Commission at \$13,510.20, to treat with cutback asphaltic road oil 7.8 miles existing roadbed between Molera's Ranch and Rocky Creek, involving 690 tons cut-back asphaltic road oil.

SAN JOSE, Santa Clara Co., Calif.—W. A. Dontanville, Box 544, Salinas, at \$4001 awarded contract by County Supervisors to grade and surface Withey Road in Supervisor District No. 5, involving:

- (1) 9,000 cu. yds. excavation;

(2) 59 000 sq. ft. surfacing.

Complete bids follow:

W. A. Dontanville.....	\$4001
O. G. Ritchie.....	5660
Piazza & Greene.....	5388

SAN JOSE, Santa Clara Co., Calif.—Piazza & Greene, 296 N 6th St., San Jose, at \$6484 awarded contract by County Supervisors to improve Ccx Road in Supervisor District No. 5, involving 156,481 sq. ft. oil macadam pavement Complete bids follow:

Piazza & Greene.....	\$6484
A. J. Raisch.....	6750
O. G. Ritchie.....	6985
Surveyor's Estimate.....	8225

LOS ANGELES, Cal.—G. W. Jones, county road commissioner, has completed plans for straightening, realigning and eliminating creek crossings on the Big Tujunga Canyon Road between Los Angeles city limits and Wildwood Lodge, about four miles, in olving 24,000 cu. yds. excavation.

ARIZONA STATE—Arizona Sand & Rock Co., Box 1522, Phoenix, submitted low bid to State Highway Commission, Phoenix, July 11, at \$43,761.90 for construction on the Hilbrook-St. Johns Highway. The work on E-78-B and E-73-F, which extends from the end of the pavement in Holbrook to a point about 5.9 miles east of Holbrook, consists of the placing of subgrade stabilizer and oil processing by the plant mix method, and is to be completed on or before October 15, 1933.

OAKLAND, Alameda Co., Cal.—Architects Kent & Hass, 525 Market St., San Francisco, will take bids on painting and electrical work about July 18 in connection with the construction of the new boat and train courcses for the Key Terminal Railway, Ltd. at the Key Pier, Oakland.

SAN FRANCISCO—H. H. Larsen, 64 South Park desires sub-bids on all portions of the work in connection with the construction of the repairs to the Fremont School for which bids will be opened July 19.

ARIZONA STATE—Packard & Tanner, 905 W. Latham St., Phoenix, submitted low bid to State Highway Commission, Phoenix, July 11, at \$121,698.75, for highway construction on the Holbrook-Winslow Highway (E-40). The work on E-40, which extends from west city limits of Holbrook weseterly about 21.2 miles, consists of the construction of one concrete and two C.M.P. culverts, the placing of subgrade stabilizer and oil processing by the plant mix method, and is to be completed on or before November 30, 1933.

ARIZONA STATE—Heafey - Moore Co., 344 High St., Oakland, submitted low bid to State Highway Commission, Phoenix, July 12, at \$108,162.94, for construction on the St. Johns-Springerville Highway (E-60 and E-63-A). The work, which begins at a point about 11½ miles south of St. Johns and extends southeasterly approximately 8¾ miles toward Springerville, consists of grading and draining about ¼ of a mile or roadway, the placing of subgrade stabilizer, and the oil processing of the entire length by the road mix method, and is to be completed on or before November 30, 1933.

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

HOOPA HIGHWAY GRADING — HUMBOLDT COUNTY

HUMBOLDT COUNTY, Cal.—Hemstreet & Bell, 501 11th St., Marysville, at \$115,189.11 submitted low bid to and recommended for award by U. S. Bureau of Public Roads, San Francisco, for 4.587 miles grading Section A, Route 51, Hoopa National Forest Highway, Trinity National Forest, involving:

- (1) 41 acres clearing;
- (2) 370,300 cu. yds. unclass. excav.;
- (3) 3,850 cu. yds. unclass. excavation, struc.;
- (4) 171,500 sta. yds. overhaul;
- (5) 4.587 miles finish earth graded road;
- (6) 65 MFBM timber cribbing;
- (7) 43 cu. yds. Class A concrete;
- (8) 24 cu. yds. Class B do;
- (9) 3,270 lbs. reinf. steel;
- (10) 44 lin. ft. 8-in. 16-gauge asph. dipper, G.M.P.;
- (11) 72 lin. ft. 12-in. do;
- (12) 1614 lin. ft. 18-in. corru. galv. metal pipe;

- (13) 652 lin. ft. 24-in. 14 ga. do;
 - (14) 416 lin. ft. 24-in. 12-ga. do;
 - (15) 280 lin. ft. 30-in. do;
 - (16) 160 lin. ft. 36-in. 10-ga. do;
 - (17) 112 cu. yds. hand laid rock embankment;
 - (18) 40 right of way monuments;
 - (19) 1 type A spillway inlet;
 - (20) 2 type B do;
- Extra work, move and repair telephone line, \$150.
Extra work, maintenance detour, \$1500
Complete bids follow:
- (A) Hemstreet & Bell, Marysville, \$115,189.11.
 - (B) Mitty Bros. Const. Co., Los Angeles, \$134,936.85.
 - (C) Granfield, Farrar & Carlin, San Francisco, \$136,051.15.
 - (D) Mercer-Fraser, Eureka \$136,813.85
 - (E) Young & Son, Berkeley, \$147,648.95
 - (F) Meyers & Goulter, Seattle, \$164,538.20.
 - (G) Engineer's estimate, \$129,891.95.

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
(1)	\$250.00	\$120.00	\$200.00	\$225.00	\$350.00	\$200.00	\$150.00
(2)	.22	.30	.29	.285	.29	.36	.27
(3)	1.25	.60	1.00	1.25	1.50	1.00	1.50
(4)	.01	.015	.01	.01	.02	.015	.015
(5)	250.00	350.00	250.00	250.00	300.00	300.00	250.00
(6)	75.00	30.00	70.00	60.00	67.00	70.00	60.00
(7)	25.00	23.00	20.00	32.00	33.00	22.00	25.00
(8)	25.00	27.00	25.00	31.00	23.00	22.00	25.00
(9)	.06	.06	.05	.07	.065	.06	.07
(10)	1.00	1.00	1.00	.90	.90	1.00	.90
(11)	1.20	1.25	1.05	1.05	1.35	1.40	1.10
(12)	1.43	1.30	1.25	1.20	1.50	1.50	1.30
(13)	2.12	2.25	1.70	1.90	2.00	2.20	1.90
(14)	2.75	2.50	2.15	2.40	2.60	2.70	2.50
(15)	3.75	3.10	2.60	2.95	3.00	3.60	3.75
(16)	4.50	4.00	3.00	4.45	4.75	4.40	4.60
(17)	4.00	7.00	3.00	4.00	3.50	3.00	3.00
(18)	3.00	4.00	3.00	3.50	3.30	3.00	3.50
(19)	30.00	14.00	25.00	15.00	25.00	20.00	15.00
(20)	35.00	22.00	50.00	25.00	25.00	25.00	20.00

OWYHEE RV SIPHON EARTHWORK & STRUC (GOVT.)

NYSSA, Ore.—As previously reported, J. A. Terteling & Sons, 511 Sound, Spokane, Wash., at \$118,404.50 submitted low bid to U. S. Bureau of Reclamation, Denver, Colo., to construct earthwork and structures for North Canal Sta. 260 (Owyhee River Siphon) to Sta. 513, Mitchell Butte Division, Owyhee Project, Oregon-Idaho, work located near Nyssa and Adrian, Ore., on the Oregon Short Line Railroad, involving:

- (1) 105,000 cu. yds. canal excav., Class 1;
- (2) 218,000 cu. yds. do, Class 2;
- (3) 134,000 cu. yds. do, Class 3;
- (4) 40,000 cu. yds. excav., core banks
- (5) 15,000 sta. yds. overhaul;
- (6) 2,500 cu. yds. struc. excav., Class 1;
- (7) 2,700 cu. yds. do, Class 2;
- (8) 650 cu. yds. do, Class 3;
- (9) 1,100 cu. yds. drainage channel excavation;

- (10) 1,260 cu. yds. do, Class 2;
 - (11) 340 cu. yds. do, Class 3;
 - (12) 2,600 cu. yds. backfill, struc.;
 - (13) 1,150 cu. yds. puddling;
 - (14) 260 cu. yds. concrete, struc.;
 - (15) 23,000 lbs. place reinf. bars;
 - (16) 2,500 lbs. install gates & hoists;
- Complete bids follow:
- (A) J. A. Terteling & Sons, Spokane, \$118,404.50.
 - (B) Morrison - Kundsens Co., Boise, \$122,675.00.
 - (C) Fred H. Siate, Portland, \$125,357.00.
 - (D) General Const. Co., Seattle, \$132,937.50.
 - (E) Guthrie-McDougall Co., Portland, \$163,199.00.
 - (F) Winston Bros. Co., Minneapolis, \$166,566.00.
 - (G) Barnard-Curtiss Co., Minneapolis \$168,349.00.

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
(1)	\$.14	\$.12	\$.23	\$.10	\$.17	\$.14	\$.125
(2)	.14	.15	.23	.18	.22	.23	.28
(3)	.44	.42	.23	.45	.57	.60	.54
(4)	.16	.25	.23	.23	.22	.20	.24
(5)	.02	.05	.05	.05	.05	.06	.05
(6)	.20	.22	.20	.35	.40	.25	.40
(7)	.20	.50	.20	.75	.60	.50	.60
(8)	.50	1.00	2.00	1.50	1.20	2.00	1.00
(9)	.20	.20	.20	.25	.20	.30	.20
(10)	.20	.50	.20	.50	.40	.60	.40
(11)	.50	1.00	2.00	1.50	1.00	1.25	1.00
(12)	.20	.25	.20	.50	.40	.40	.30
(13)	.50	.50	.50	.75	.60	.40	.50
(14)	15.00	18.00	20.00	18.00	18.00	20.00	20.00
(15)	.02	.025	.02	.03	.02	.03	.02
(16)	.025	.05	.02	.05	.05	.10	.05

HUMBOLDT COUNTY, Cal.—M. J. Murphy, Inc., Carmel, at \$38,600 submitted low bid to U. S. Bureau of Public Roads, San Francisco, for 13.-748 miles crushed gravel base course on California Federal Lands Project No. 1, Hoopa Valley Indian Reservation, involving:

- (1) 40,000 tons crushed gravel base course;
 - (2) 5500 tons suppl. crushed gravel;
 - (3) 1200 M. gals. watering;
- Complete bids follow:
- (A) M. J. Murphy Inc., Carmel, \$38,600
 - (B) Hemstreet & Bell, Marysville 47,525
 - (C) Pacific Truck Service, San Jose 58,550
 - (D) A. Teichert & Son, Sacto. 59,915
 - (E) E. B. Bishop, Sacramento. 61,650
 - (F) Mercer-Fraser Co., Eureka. 80,175
 - (G) Engineer's estimate 61,025

	(1)	(2)	(3)
(A)	\$.80	\$.80	\$1.50
(B)	1.00	.95	1.50
(C)	1.25	.95	2.25
(D)	1.27	1.16	1.75
(E)	1.30	1.20	2.00
(F)	1.75	1.20	2.25
(G)	1.30	1.25	1.25

AWARD

LANDER COUNTY, Nevada.—Jack Casson, Oakland, awarded contract by S. C. Durkee, State Highway Engineer, Heroes Memorial Bldg., Carson City, July 6 at \$72,208.60, for oiling state highway system between Railroad Pass and Austin, 21.4 miles of Route 2, Sections B and C, involving:

- (1) 470,334 gals. asph. road material, Type SC2;
- (2) 34,492 gals. asph. road material, Type MC2;
- (3) 21.38 miles roadmix;
- (4) 21.40 miles finish roadway;
- (5) 308 sq. yds. asph. mat. surface;

- The bids were:
- (A) Jack Casson.....\$72,208.60
 - (B) U. B. Lee.....73,249.86
 - (C) Basalt Rock Co. & J. C. Compton 75,750.16
 - (D) George French, Jr.....76,431.24
 - (E) Engineer's estimate 63,394.44

Unit bids follow:

	(1)	(2)	(3)	(4)	(5)
(A)	\$.115	\$.12	\$50.00	\$75.00	\$2.00
(B)	.116	.13	600.00	50.00	1.00
(C)	.12	.14	600.00	70.00	.50
(D)	.12	.13	650.00	50.00	1.75
(E)	.10	.12	500.00	50.00	1.50

WHITE PINE COUNTY, Nev.—Basalt Rock Co., Napa, Cal., and J. C. Compton, McMinnville, Ore., awarded contract by S. C. Durkee, State Highway Engineer, July 6 at \$35,091.96, for oiling state highway system between Illipah and Robinson Summit, 14.40 miles, Route 2, Section C-2, involving:

- (1) 316,860 gals. asph. road material, Type SC2;
- (2) 23,236 gals. asph. road material, Type MC2;
- (3) 14.40 miles road mix;
- (4) 14.40 miles finish roadway.

- The bids were:
- (A) Basalt Rock Co. & J. C. Compton \$35,091.96
 - (B) M. J. Bevanda.....36,416.97
 - (C) Jack Casson.....36,704.97
 - (D) U. B. Lee.....37,923.50
 - (E) Engineer's estimate 32,191.44

Unit bids follow:

	(1)	(2)	(3)	(4)
(A)	\$.074	\$.12	\$590.00	\$25.00
(B)	.0775	.12	590.00	40.00
(C)	.0775	.12	600.00	50.00
(D)	.079	.121	650.00	50.00
(E)	.07	.09	500.00	50.00

DOUGLAS CITY—PEANUT NAT'L. FOREST GRADING

TRINITY COUNTY, Cal.—Granfield, Farrar & Carlin, 67 Hoff, San Francisco, at \$98,131.10 submitted low bid to, and recommended for award of contract by U. S. Bureau of Public Roads, San Francisco, to grade 4.265 miles of Section B, Route 5, the Douglas City-Peanut National Forest Highway, Trinity National Forest, involving:

- (1) 37 acres clearing;
- (2) 257,000 cu. yds. unclass. excav.;
- (3) 1950 cu. yds. unclass. excavation, structures;
- (4) 413,000 sta. yds. overhaul;
- (5) 4.265 miles finish earth graded rd.
- (6) 26 MFBM timber crib in place;
- (7) 26 cu. yds. Class A concrete;
- (8) 33 cu. yds. Class B concrete;
- (9) 2100 lbs. reinf. steel;
- (10) 1104 lin. ft. 18-in. 16-ga. corru. metal pipe;
- (11) 1530 lin. ft. 24-in. 14-ga. do;

- (12) 204 lin. ft. 24-in. 12-ga. do;
 - (13) 508 lin. ft. 30-in. 12-ga. do;
 - (14) 464 cu. yds. handlaid rock embankment;
 - (15) 188 monuments.
- Complete bids follow:
- (A) Granfield, Farrar & Carlin, \$98,131.10.
 - (B) Hemstreet and Bell, Marysville, \$100,431.85.
 - (C) Young & Sons, Berkeley, \$112,040.90.
 - (D) Mittry Bros., Los Angeles, \$116,677.10.
 - (E) March & Wunderlich, Jefferson City, Mo., \$124,090.50.
 - (F) Myers & Goulter, Seattle, \$128,012.30.
 - (G) Dunn & Baker, Klamath Falls, Ore., \$152,464.30.
 - (H) Engineer's estimate, \$106,865.85.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
(1)	\$200.00	\$225.00	\$325.00	\$200.00	\$200.00	\$200.00	\$300.00	\$200.00
(2)	.28	.265	.30	.35	.375	.38	.47	.30
(3)	1.00	1.50	1.30	1.00	1.00	1.00	1.00	1.50
(4)	.01	.015	.015	.01	.01	.015	.01	.015
(5)	300.00	250.00	300.00	300.00	300.00	300.00	300.00	250.00
(6)	70.00	80.00	75.00	60.00	80.00	80.00	90.00	75.00
(7)	23.00	35.00	30.00	25.00	30.00	25.00	30.00	30.00
(8)	23.00	35.00	30.00	33.00	30.00	25.00	27.00	30.00
(9)	.06	.06	.06	.07	.07	.06	.08	.07
(10)	1.25	1.40	1.40	1.40	1.50	1.50	1.40	1.30
(11)	1.80	2.00	2.00	2.00	2.00	2.20	2.10	1.90
(12)	2.15	2.75	2.60	2.50	2.50	2.70	2.70	2.50
(13)	3.00	3.75	3.30	3.25	3.00	3.50	3.30	3.30
(14)	3.00	4.00	3.50	3.00	3.00	4.00	3.00	2.50
(15)	3.00	3.00	3.00	3.00	4.00	3.00	3.00	3.00

LOS ANGELES COUNTY, Calif.—Matich Bros., Elsinore, at \$13,355.68 submitted lowest regular bid July 12 to State Highway Commission, Sacramento, for a total length of 9.3 miles at San Gabriel Canyon, near Azusa, of which 6 miles will be treated with heavy fuel oil and seal coat to be applied over the entire length, involving:

- (1) 4200 bbls. heavy fuel oil;
 - (2) 160 tons asphalt road oil;
 - (3) 1640 tons screenings.
- Complete bids follow:
- (A) *Geo. Gardner & Sons, Redlands, \$11,476.
 - (B) *Alex D. Chalmers and Max Winters, Los Angeles, \$12,539.60.
 - (C) Matich Bros., Elsinore, \$13,355.68.
 - (D) Gogo & Rados, L. A., \$13,441.20.
 - (E) Sander Pierson, Santa Monica, \$13,546.00.
 - (F) P. J. Amadzich, Los Angeles, \$14,914.00.
 - (G) Kemper Const. Co., Ltd., Los Angeles, \$15,260.00.
 - (H) C. W. Wood, Stockton, \$14,472.00.
 - (I) J. E. Haddock, Ltd., Pasadena, \$15,844.00.

* Bids thrown out, no State license.

Unit bids follow:

	(1)	(2)	(3)
(A)	\$1.60	\$13.00	\$1.60
(B)	1.74	13.00	1.89
(C)	1.75	16.82	1.98
(D)	1.90	16.00	1.73
(E)	1.80	16.50	2.00
(F)	1.95	16.00	2.50
(G)	2.13	16.00	2.25
(H)	2.20	18.00	2.00
(I)	2.23	18.00	2.15

HETCH HETCHY AQUE. PIPE LINES—ALAMEDA CREEK & TESLA PORTAL

SAN FRANCISCO.—American Concrete & Steel Pipe Co., 13th Avenue and Estuary, Oakland, at \$90,444.70 for Alameda Creek, and \$25,294.55 for Tesla Portal, total \$115,739.25 under Prop. B, Steel Cylinder Reinforced Concrete Pipe, submitted low bid July 7 to Public Utilities Commission, under Hetch Hetchy Water Supply Contract 142, to construct pipe lines, Coast

Range Division, Hetch Hetchy Aqueduct (Alameda Creek Siphon and Tesla Portal connection) as follows:

PROP. A: Steel pipe line and accessories, Section No. 1, Alameda Creek.

PROP. A: Section No. 2, Tesla Portal.

PROP. B: Steel cylinder reinforced concrete line, with short lengths steel pipe, Section 1, Alameda Creek.

PROP. B: Sec. No. 2, Tesla Portal.

Complete bids follow:
PROP. A: Western Pipe & Steel Co., San Francisco, Sec. 1, \$96,575.95; Sec. 2, \$26,752.91; Total, \$123,328.86.

PROP. B: American Concrete and Steel Pipe Co., Oakland, Section 1, \$90,444.70; Section 2, \$25,294.55; Total, \$115,739.25.

Quantities and unit prices follow:

	Prop. A1		Prop. A2		Prop. B1		Prop. B2	
	Quant.	Price	Quant.	Price	Quant.	Price	Quant.	Price
(1) 72-in. steel pipe, 3/8-in. plate ft.	3,040	\$ 15.82	565	\$ 15.90	105	\$ 13.80	565	\$ 14.00
(2) mortar cover on do., 3/4-in. thick	2,225	3.31	568	3.31	90	4.75	568	4.50
(3) Gunite lining, 2-in. thick, 10'6" steel pipe	108	12.69	137	12.69	108	9.90	137	9.90
(4) manholes	2	158.84			2	90.00		
(5) saddle nozzles, per lb.	1,400	.33			1,400	.20		
(6) steel plate nozzle 48" taper to 36"	L. S.	926.00			L. S.	450.00		
(7) steel plate nozzle, 42-in.	L. S.	431.00			L. S.	300.00		
(8) 6-in. gate valves, non-rising stem	2	31.00			2	60.00		
(9) 8-in. do, rising stem	1	63.00			1	80.00		
(10) 12-in. gate valve, non-rising stem	1	111.00			1	110.00		
(11) 16-in. do, non-rising stem	1	195.00			1	200.00		
(12) 6-in. air valves	2	191.00			2	200.00		
(13) air release valve	1	34.00			1	40.00		
(14) steel frames and covers for valve and manhole boxes, lb.	1,400	.23			1,400	.15		
(15) structural steel frames, per lb.	6,200	.07	2,800	.07	6,200	.07	2,800	.07
(16) flanged c.i. pipe & fittings, per lb.	8,000	.18			8,000	.16		
(17) 15-in. reinf. conc. pipe, per ft.	130	1.60			130	3.00		
(18) 6-in. drain tile, per ft.	200	.30	325	.30	200	5.75	325	.75
(19) steel bolts, nuts, washers, per lb.	500	.22	100	.22	500	.25	100	.25
(20) steel manifold sections, per unit.	2	3001.00	1	3200.00	2	2200.00	1	2700.00
(21) 10' 6" dia. steel pipe 7/16-in. plate foot	52	38.85	105	36.96	52	32.00	105	32.00
(22) misc. steel work, per lb.	1,500	.30	300	.30	1,500	.20	300	.20
(23) install fittings furn. by city, lb.	500	.14	300	.14	500	.15	200	.15
(24) install valves do, larger than 16-in. per lb.	30,000	.05			30,000	.05		
(25) install misc. steel work do, per lb.	500	.14	200	.14	500	.08	200	.05
(26) earth excav., per cu. yd.	10,000	.98	2,000	.88	11,000	.70	2,000	.70
(27) rock excav. per cu. yd.	100	2.00	50	2.00	100	2.25	50	2.25
(28) earth fill, tunnel portals, cu. yd.	1,100	.30	1,300	.30	1,100	.70	1,300	.60
(29) Class A concrete, per cu. yd.	75	15.00	25	15.00	75	25.00	25	25.00
(30) Class C concrete, per cu. yd.	20	13.50	5	13.50	20	20.00	5	20.00
(31) conc. jacket, 10'6" steel pipe, l.f.	55	19.60	130	20.00	55	30.00	130	27.00
(32) do on 72-in. steel pipe, lfn. ft.	800	9.70						
(33) reinf. steel, per lb.	10,000	.035	4,000	.035	10,000	.04	4,000	.04
(34) valve house	L. S.	3,050.00			L. S.	2,500.00		
(35) extra cement, per barrel	50	2.30	20	2.30	50	3.00	20	3.00
(36) 69" steel cyl. reinf. conc. pipe l.f.					2,935	20.00		
(37) tension joints in above, each.					50	8.00		

IMPROVE GAFFEY STREET—LOS ANGELES

LOS ANGELES, Calif.—J. L. McClain 5850 Brynhurst Ave., submitted low bid to board of public works June 23 at 158,193.10 for improving streets in the Gaffey St. and Fourth St. Imp. Dist., San Pedro, under cash contract. The streets to be improved are: Gaffey St., Channel St. to 9th St.; Channel St., Wilmington-San Pedro Road to Gaffey St.; First St., Grand Ave. to Cabrillo Ave.; Third St., Grand Ave. to Gaffey St.; Marshall Court, and Central Ave., Eberon Ave. to Summerland Ave. The work involves:

- (11) 25,542 sq. ft. asph. conc. base, including fine grading;
- (12) 3759 tons asph. conc. wearing surface;
- (13) 25,246 sq. ft. oiled roadway, including fine grading;
- (14) 8600 sq. ft. combination gutter, 8-in. thick, incl. fine grading;
- (15) 32 sq. ft. conc. gutter, 7-in. thick, including fine grading;
- (16) 1082 lin. ft. of reinf. integral curb and conc. gutter, 6-in. thick, as per Standard Plan No. B-1035, including fine grading;
- (17) 4451 lin. ft. dn. 8-in. thick;
- (18) 10,569 lin. ft. heavy unplastered curb;
- (19) 53,255 sq. ft. conc. sidewalk, 3-in. thick, inc. fine grading between property line and curb line;
- (20) 2567 sq. ft. conc. sidewalk 6-in. thick (driveways) inc. fine grading;
- (21) sanitary sewer, complete, not inc. house connections;
- (22) 3019 lin. ft. 6-in. cement pipe house connection sewers, inc. 85 6-in. 1/2-bends and five 6-in. saddles;
- (23) storm drain and appurtenances, complete, inc. resurf., not inc. local depressions;
- (24) ornamental lighting sys. comp.;
- (25) 53 manholes to be reset;
- (26) 775 type A traffic markers, as per Stand. Plan No. B-1279 or Stand. Plan No. B-1416;
- (27) 520 type B traffic markers, as per Stand. Plan No. B-1279, or Stand. Plan No. B-1416.

(1) grading, 65,000 cu. yds. of excavation, including the placing of material in the required embankment (40,000 cu. yds. of fill) and the removal of exist. improvements. (Note: These quantities are assumed for the purpose of comparing bids; the bid will be per cubic yard);

(2) 162,112 sq. ft. asph. conc. pave., 8-in. base, consisting of 6-in. concrete base and 2-in. asph. conc. wearing surface, including fine grading;

(3) 155,775 sq. ft. asph. conc. pave., 8-in. thick, consisting of 6-in. asphaltic conc. base and 2-in. asph. conc. wearing surf., including fine grading;

(4) 434 sq. ft. asph. conc. pave., 7-in. thick, consisting of 5-in. asph. conc. base and 2-in. asph. conc. wearing surface, including fine grading;

(5) 20,950 sq. ft. asph. conc. pave., 6-in. thick, consisting of 4-in. asph. conc. base and 2-in. asph. conc. wearing surface, including fine grading;

(6) 7178 sq. ft. conc. pave., 8-in. thick, including local depressions and fine grading;

(7) 45,898 sq. ft. conc. pave., 7-in. thick, including fine grading;

(8) 481 sq. ft. conc. pave., 6-in. thick, including fine grading;

(9) 8745 sq. ft. conc. pave., 5-in. thick, including fine grading;

(10) 79,607 sq. ft. conc. base, 6-in. thick, including fine grading;

- (19) 53,255 sq. ft. conc. sidewalk, 3-in. thick, inc. fine grading between property line and curb line;
- (20) 2567 sq. ft. conc. sidewalk 6-in. thick (driveways) inc. fine grading;
- (21) sanitary sewer, complete, not inc. house connections;
- (22) 3019 lin. ft. 6-in. cement pipe house connection sewers, inc. 85 6-in. 1/2-bends and five 6-in. saddles;
- (23) storm drain and appurtenances, complete, inc. resurf., not inc. local depressions;
- (24) ornamental lighting sys. comp.;
- (25) 53 manholes to be reset;
- (26) 775 type A traffic markers, as per Stand. Plan No. B-1279 or Stand. Plan No. B-1416;
- (27) 520 type B traffic markers, as per Stand. Plan No. B-1279, or Stand. Plan No. B-1416.

The total bids were:
 (A) J. L. McClain, \$158,193.20.
 (B) Griffith Co., \$159,689.61.
 (C) Southern Calif. Roads Co., \$164,193.89.
 (D) Geo. H. Oswald, \$166,995.71.
 (E) W. E. Hall and Chas. W. Heuser \$178,859.95.
 (F) Mundo Engr. Co., \$178,904.60.
 (G) Engineer's estimate, \$167,011.63.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
(1) \$	.195	.22	.22	.25	.25	.32	.265
(2)	.145	.16	.15	.16	.165	.166	.161
(3)	.15	.15	.14	.14	.155	.15	.147
(4)	.14	.13	.12	.13	.135	.132	.13
(5)	.12	.125	.11	.105	.12	.118	.111
(6)	.18	.17	.20	.21	.22	.197	.182
(7)	.16	.155	.16	.183	.18	.19	.164
(8)	.14	.13	.14	.16	.14	.20	.14
(9)	.125	.115	.12	.135	.14	.128	.12
(10)	.11	.12	.12	.128	.13	.131	.125
(11)	.12	.125	.11	.105	.11	.118	.107
(12)	2.83	2.60	2.90	2.68	2.80	2.85	2.86
(13)	.03	.037	.08	.035	.04	.04	.035
(14)	.17	.18	.20	.23	.19	.20	.18
(15)	.18	.17	.20	.25	.25	.25	.22
(16)	.75	.80	.75	.92	.66	.65	.624
(17)	.85	.90	.80	1.00	.75	.80	.753
(18)	.40	.43	.40	.40	.40	.40	.37
(19)	.10	.10	.10	.104	.10	.11	.095
(20)	.17	.20	.17	.18	.18	.18	.18
(21)	7,000.00	6,200.00	7,000.00	7,000.00	12,500.00	7,780.00	6,945.00
(22)	.80	1.10	1.00	.90	.86	1.00	1.11
(23)	14,500.00	11,600.00	15,000.00	12,750.00	15,500.00	16,280.00	14,300.00
(24)	22,500.00	22,000.00	24,400.00	25,000.00	26,500.00	24,000.00	23,980.00
(25)	200.00	300.00	400.00	250.00	200.00	250.00	200.00
(26)	.25	.20	.20	.21	.18	.22	.20
(27)	.35	.30	.30	.37	.30	.38	.35

CLARK COUNTY, Nev.—U. B. Lee, San Leandro, Calif., awarded contract by S. J. Durkee, State Highway Engineer, Heroes Memorial Bldg., Carson City, Nevada, July 6, at \$29,543.38 for oiling; state highway system over the Muddy River bridge and from the Lower Virgin River bridge to Mesquite, 11.93 miles, Route 6, Sections F, H2, H1 and H4, involving:
 (1) 253,585 gal. asph. road material, Type SC-2;
 (2) 18,502 gal. asph. road material, Type MC-2;
 (3) 11.56 miles road mix;
 (4) 4462 sq. yds. asphalt mat surface;
 (5) 11.93 miles finish roadway.
 The bids were:
 (A) U. B. Lee, \$29,543.38.
 (B) Gibbons & Reed Co., \$29,958.60.
 (C) Jack Casson, \$30,469.43.
 (D) J. C. Compton, \$30,741.70.
 (E) Geo. French, Jr., \$36,857.49.
 (F) Engineer's estimate, \$37,751.35.
 Unit bids follow:

	(1)	(2)	(3)	(4)	(5)
(A)	\$.067	\$.09	\$600.00	\$.75	\$50.00
(B)	.065	.085	590.00	.95	70.00
(C)	.07	.09	595.00	.80	50.00
(D)	.0675	.1025	625.00	.90	40.00
(E)	.03	.095	650.00	1.50	.50
(F)	.09	.10	500.00	1.50	50.00

AWARD
 WHITE PINE COUNTY, Nev.—Geo. French, Jr., Stockton, Calif., awarded contract by State Highway Engineer, S. C. Durkee, July 6 at \$75,417, for oiling state highway system between west county line and west foot of Antelope Summit, 22.81 miles, Route 2, Sections A and B, involving:
 (1) 202,192 gals. asph. road material, Type SC2;
 (2) 336,459 gals. asph. road material, Type MC2;
 (3) 22.81 miles road mix;
 (4) 22.81 miles finish roadway.
 The bids were:
 (A) Geo. French, Jr., \$75,417.61
 (B) M. J. Bevanda, 78,243.57
 (C) Jack Casson, 78,813.82
 (D) Basalt Rock Co. & J. C. Compton, 80,807.29
 (E) Engineer's estimate, 64,388.68

Unit bids follow:

	(1)	(2)	(3)	(4)
(A)	\$.09	\$.126	\$600.00	\$50.00
(B)	.10	.125	650.00	50.00
(C)	.10	.125	650.00	75.00
(D)	.11	.13	610.00	40.00
(E)	.09	.10	500.00	50.00

SAN BRUNO, San Mateo Co., Cal.—Fairbanks Morse & Co., Spear and Harrison Sts., San Francisco, at \$2,358.87 submitted low bid to city council to furnish four sewage pumps for the San Bruno-Lomita Park Outfall sewer, as follows:
 (1) 2 120-140 GPM pumps;
 (2) 2 400 GPM pumps.
 Complete bids follow:
 (A) Fairbanks Morse & Co., \$2358.87
 (B) Pacific Engine Co., 2454.00
 (C) A. H. Coates Co., 2469.00
 (D) United Iron Works, 2650.00
 (E) P. L. Burr, 2689.00
 (F) Smith & Sons, 2750.00
 (G) Worthington Co., 2759.04
 (H) Pacific Pump Co., 2955.00
 (I) Byron Jackson Co., 2993.00
 (J) Wesco Chippewa Co., 3146.00

Unit bids follow:

	(1)	(2)
(A)	\$1055.57	\$1303.30
(B)	1042.00	1412.00
(C)	1176.00	1293.00
(D)	1180.00	1550.00
(E)	1138.00	1551.00
(F)	1220.00	1530.00
(G)	1158.73	1620.31
(H)	1200.00	1755.00
(I)	1255.00	1728.00
(J)	1365.00	1781.00

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IN THIS ISSUE



PRIVATE ARCHITECTS FAVORED FOR
TREASURY BUILDING PLANS

LUMBER INDUSTRY SETS NATIONAL
WAGE SCALES

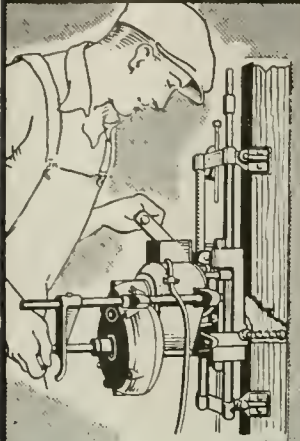
\$7,798,917 ALLOTTED CALIFORNIA PUBLIC
LANDS ROADS

BUILDING PERMITS — ADVANCE REPORTS
OF BUILDING AND ENGINEERING
PROJECTS

UNIT PRICE REVIEW



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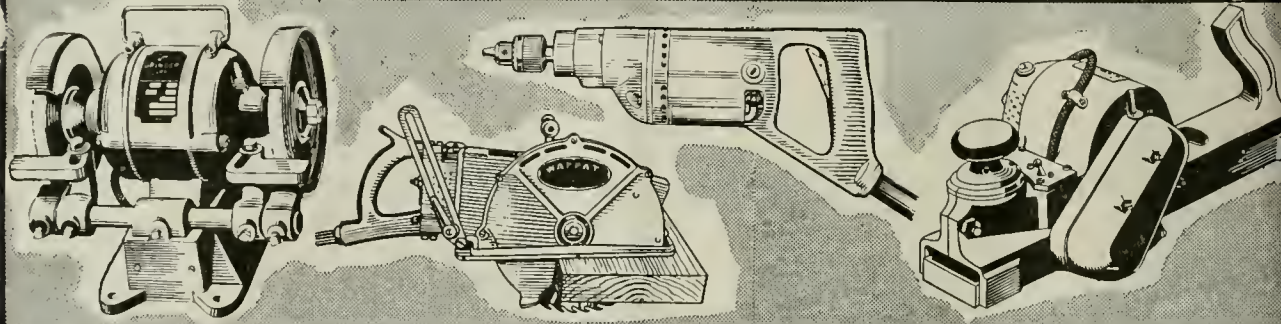
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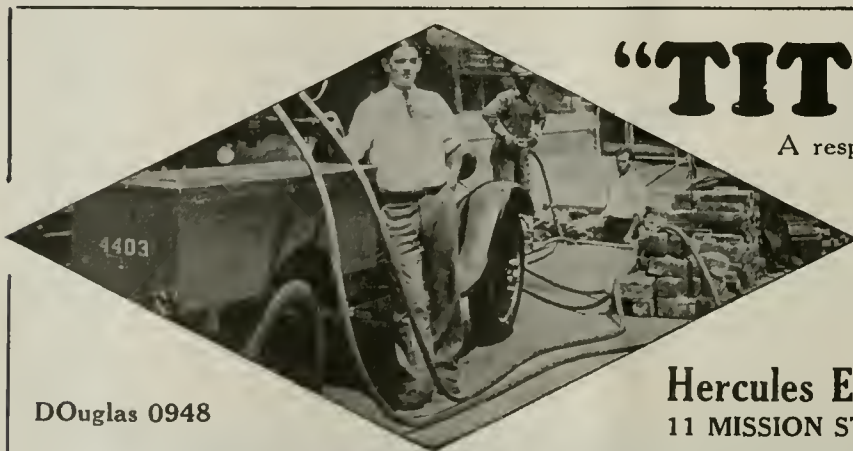
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No. 27

EXCHANGE VOTES ENDORSEMENT OF NATIONAL ACT

**Meetings of Crafts Called;
Invite Participation of
Non-Members**

Endorsement of the Industrial control provisions of the Recovery Act and a pledge of cooperation was voted at the monthly meeting of the Central Council of the San Francisco Builders' Exchange, it was announced yesterday by W. H. George, president.

Mr. George said the Exchange is calling special meetings of its members belonging to the several crafts and inviting non-members to attend, urging them to join the Exchange and to obtain the protection which the industrial control regulations will provide.

The text of the resolution adopted by the central council follows:
WHEREAS, there has been enacted a Federal law known as the National Industrial Recovery Act, and

WHEREAS, it is anticipated that the California State Legislature will adopt a similar act covering those who do intrastate business, and

WHEREAS, the success of such act is dependent largely upon the whole hearted support it receives from all civic, industrial and trade organizations and the public in general, and

WHEREAS, The Builders' Exchange of San Francisco has always favored reasonable wages to the employes of its members, fair competition within the crafts engaged in the construction industry, and has always been against unfair and unethical methods in the building and construction industry,

NOW THEREFORE BE IT RESOLVED, that the Central Council of the Builders' Exchange in meeting duly assembled, does hereby go on record as endorsing said National Industrial Recovery Act and will cooperate and do everything within its power to have its members comply with the requirements of the Act.

THE WEEK'S NEWS

Highlights

ROAD FUNDS. Hope for early release of Federal and state money to build California highways rests with action of the legislature on an emergency bill which will remove legal obstacles. State public works officials were advised that the state laws adopted this spring requiring alternate bids on portland cement and asphaltic concrete specifications and specifying use of domestic materials which become effective August 21 prohibit the highway commission from advertising any contracts prior to that date. Emergency legislation suspending the effective dates of these acts has been submitted at the recessed session and its sponsors are confident of adoption before adjournment. The act will release the \$15,607,354 Federal appropriation as well as ordinary state budget money.

U. S. ROADS. California will receive \$7,798,917 from the \$50,000,000 allocated to construction of roads and trails in the national forests and public lands, according to figures issued by the Bureau of Public Roads.

CONSTRUCTION CODES. Associated General Contractors have sent their proposed code of fair competition to the National Recovery Administration. State Builders Exchange urges its member locals to prepare codes in cooperation with the state organization, which in turn will join with the California Construction League to obtain satisfactory regulation of the state industry. San Francisco Builders' Exchange by vote of the Central Council endorses N.R.A. principles and calls meetings of crafts to prepare codes.

CITY WORK. Construction of necessary self-liquidating additions and improvements to San Francisco water system will cost \$12,010,000, according to the estimate of E. G. Cahill, director of public utilities.

WEBB TO RULE ON BAY SPAN WAGE SCHEDULE

**Purcell Asks Attorney-General
For Opinion on Sub-Contract Obligations**

At the request of State Director of Public Works Earl Lee Kelly for an interpretation of the state contract wage laws as they affect the San Francisco-Oakland Bay Bridge, Chief Engineer C. H. Purcell yesterday asked Attorney-General U. S. Webb for an opinion on wages paid sub-contractors as well as a ruling on what classified a sub-contractor on the bridge.

Complaint was made to Director Kelly and Chief Engineer Purcell by J. F. Cambiano, President of the California State Council of Carpenters, that carpenters were being employed at below union wages in defiance of state contract minimum wage laws in the construction of a plant in the East Bay, which will sell ready mixed concrete to bridge contractors.

A ruling is also requested on the wages paid at the Moore Shipbuilding Company on steel caissons.

Chief Engineer Purcell wants the attorney-general to define a contractor and a sub-contractor, as distinguish from a firm supplying materials to the bridge and the extent of the effect of state wage laws on both classifications.

Specifications given to contractors set forth minimum wage scales as well as hours of labor, the latter being limited to thirty hours a week except for administrative or emergency employment.

Labor unions have been endeavoring to extend this wage scale and hour schedule to plants and shops supplying materials to the bridge as well as on the construction job itself.

From the attorney-general Chief Engineer Purcell hopes to obtain an interpretation of the law which will settle the dispute between contractors, material manufacturers, and union representatives.

PRIVATE FIRMS TO DESIGN NEW U. S. BUILDINGS

Treasury Department will Commission Many Architects and Engineers

Private architects and engineers throughout the country will be engaged by the Treasury Department to prepare the plans and specifications for a large Federal building program which may reach a total of \$200,000,000. L. W. Robert, Jr., assistant secretary of the treasury, has adopted this policy in order that professional men who have not had employment will benefit by the large expenditure for new Federal buildings, the design and construction of which come under the authority of the Supervising Architect's Office of the Treasury.

For the purpose of spreading employment as far as possible among architects and engineers who, preferably, have had some previous experience in public building work, Mr. Robert has requested the co-operation of American Engineering Council and the American Institute of Architects in enrolling qualified individuals and firms. His purpose is to engage on every building architects and engineers resident in the state in which it will be erected.

The Treasury Department, with the co-operation of the American Institute of Architects, is assembling the records of architects throughout the country. Each known architect has or will receive a pre-qualification blank which should be forwarded to reach the Treasury Department promptly.

As the procedure adopted for enrolling architects could not be followed satisfactorily to obtain the same character of information concerning engineers, the American Engineering Council has been requested by Mr. Robert to compile state lists of engineers and engineering firms that customarily engage in construction of buildings of the monumental character usually typifying those built by the Federal Government.

Through its member-organizations and other technical groups, the council inaugurated its canvass several weeks ago. The lists are being prepared so that the council will be in a position to submit to Treasury Department the names of competent engineers in any and all states when there is a call for the services which they are qualified to render.

Any qualified engineer desiring to participate in the Treasury Department's building program is invited to send to L. W. Wallace, Ex-

DIVIDE STATES FOR U. S. FUNDS

Western states will be divided into two districts under the regional plan of administration of public works, it was indicated in dispatches from Washington yesterday. California, Nevada, Utah and Arizona will be known as District 6. Montana, Idaho, Washington and Oregon will comprise District 5. Each district will be in charge of a regional administrator to whom recommendations will be submitted by an advisory board of three members for each state, according to revised administration plans. Cities in which the regional headquarters will be located are to be announced shortly.

STATE PAYROLL GAIN SHOWN BY DIVISION REPORT

Construction Industry Employment Here up 10 Per Cent From May

Employment in the construction industry gained 10.6 per cent in the San Francisco-Alameda section of the state from May to June, according to the monthly survey of the State Division of Labor Statistics.

The average gain for the state was 3.9 per cent.

Payrolls locally increased 14.7 per cent in total and average per capita weekly earnings gained 3.7 per cent.

Compared with June last year there was a decrease of 16.5 per cent in the local area in number of employes and a decrease of 30.3 per cent in payrolls.

The labor division report shows an increase in all industries in number of employes of 3.6 per cent gain over May is 4.2 per cent.

Executive Secretary, American Engineering Council, 744 Jackson Place, N. W., Washington, D. C., a complete statement, in duplicate, of his professional record, with a citation of significant references.

"American Engineering Council's function in enrolling engineers for the building program is to make available lists of competent engineers and firms and not to select and employ men. These are functions of the Treasury Department," says the council statement.

LUMBER CODE SETS NATIONAL WAGE MINIMUM

Eighty-Five Percent of Industry Accepts Regulations, Says Association

The code of the National Lumber Manufacturers Association submitted to the Industrial Control Administration proposes a maximum work week of 48 to 40 hours, depending on the region, and wages from 22½ cents an hour to 42½ cents.

In presenting the code the association said it had been approved by twenty-six divisions, representing 85 percent of the forest industries.

Control of production is proposed by allocation through a voluntary agreement. Fixing of minimum prices to include "reasonable costs" at proposed wages is asked.

Wages prescribed for various divisions include:

West Coast Logging and Lumber—Forty-eight hours in logging, forty in manufacture; factory labor 40 cents, other 42½ cents.

Western Pine—Same as West Coast, except for Arizona and New Mexico, where 22½ cents and forty-eight hours would prevail.

Western Red Cedar Shingles—Same as West Coast Logging, with 40 cents for stained shingle subdivision.

Woodwork Industry—Forty hours average over each half year, with forty-eight hours individual weekly maximum; wages same as sawmill, minimums of various regions, with 25 per cent of each mill's employment in minimums of various regions, with 25 cents as absolute minimum and no more than 25 per cent of each mill's employment in minimum classification.

Veneer Industry—Forty-four hours in Southern Zone, with 25 cents an hour; forty hours in North, with 30 cents generally and 40 cents in metropolitan cities.

Oak Flooring—Forty-eight hours, 22½ cents in towns under 5,000; 25 cents from 5,000 to 50,000 population; 27½ cents above.

Walnut—Forty hours, 25 to 40 cents wages, same as veneer.

Hardwood—Forty-eight hours, 22½ cents, with 25 cents in North Central and Northwestern mills.

Mahogany—Forty cents, 30 cents in Southern zone, 40 cents in Northern, 45 cents in Philippine mahogany industry.

Architect Mario Corbett is now located at 683 Sutter street, San Francisco. He was formerly at 156 Montgomery street. The telephone is PRespect 0443.

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\$7,798,917 U. S. FOREST ROAD FUND FOR STATE

California to Get Nearly Sixth of \$50,000,000 Appropriation

California will receive \$7,798,917 of the \$50,000,000 Federal fund for forest, park and Indian reservation roads, according to advices from Washington yesterday.

The distribution of this fund within the state as recommended by the Federal public works committee is as follows: forest highways, \$2,351,177; forest roads, \$2,927,000; park roads, \$1,947,000; Indian reservation roads, \$53,000; public land highways, \$475,740.

Other western states will receive the following amounts: Arizona, \$4,838,606; Colorado, \$2,492,497; Idaho, \$3,068,415; Montana, \$3,641,103; Nevada, \$1,483,268; New Mexico, \$2,397,476; Oregon, \$4,273,540; Utah, \$1,878,846; Washington, \$3,693,526; Wyoming, \$3,443,263.

Alaska is allotted \$660,000 and Hawaii, \$516,000.

The California and Nevada appropriations will be expended under supervision of District Engineer C. H. Sweetser, Bureau of Public roads, San Francisco.

FIVE ENDORSEMENTS REQUIRED FOR LICENSE

Personal endorsements of contractors applying for state licenses are required on the new application blanks just received by the division offices of the Contractors License Bureau.

The endorsements take the place of some of the queries relating to performance and financial information about the applicant.

The statement signed by the endorser guarantees that the applicant is of good personal reputation and has truthfully answered the questions on the blank. The endorsement requested are those of individuals with whom the party has done business.

If the applicant is an individual five signatures are required, three for each member if a copartnership two for each officer of a corporation.

PARKER LOW ON MARSHFIELD P. O.

WASHINGTON, D. C., July 14. —K. E. Parker, San Francisco, at \$95,107 submitted the low bid to the Treasury Department for construction of the Marshfield, Oregon, post office. George Isackson, Portland, at \$95,700, and L. H. Hoffman Co., Portland, at \$99,767, were second and third low bidders. The building is to be a Class A structure with brick exterior, two stories and basement. Johnson & Wallwork U. S. Bank Building, Portland, are architects.

WORDEN ADVISES CITY SURVEY OF QUAKE HAZARDS

Director of Public Works Wm. H. Worden is to ask the Board of Supervisors this week to appropriate \$5000 for a survey by building inspectors of cornices, parapet walls and signs, to minimize danger from falling building accessories in case of earthquake.

City Attorney John O'Toole has been asked to draw up an ordinance ordering the survey. The measure was approved by City Administrator A. J. Cleary.

The action is the result of a campaign to make the city safe from earthquake hazards.

The survey will be made by four building inspectors and one engineer, working under Jobu B. Leonard, chief of the Bureau of Building Inspection, over a period of four months.

Buildings will be inspected for improperly constructed or weak balconies, parapet walls, hanging signs, cornices and water tanks.

Property owners will be required to remove any hazard disclosed by the survey.

June shipments of electric industrial trucks and tractors, as reported to the Bureau of the Census by ten leading manufacturers, consisted of 52 trucks and tractors as compared with 22 in May, 25 in June, 1932, and 75 in June, 1931.

TREASURY WORK PLAN REVISION ASKED BY BOARD

Quarter Million Appropriation For Northern California Approved

Revision of the Treasury Department building program has been ordered by the public works committee, it was reported in Washington dispatches yesterday. The recommendations of the supervising architect issued last week included expenditure of \$20,759,500 in California, of which \$9,050,000 was for the Los Angeles federal building.

The treasury department was instructed to revise and reduce the building appropriations, which totaled about \$750,000,000 for the entire program.

Specific building projects must be justified on the same basis as other portions of the public works construction program, it was said. This is understood to mean that post offices and federal office buildings must be planned only for those cities where the investment would be justified by savings in rent.

A list of minor appropriations which have been approved included a total of approximately \$250,000 for work in Northern California, according to reports received here yesterday. Principal items are for new construction and remodeling of facilities on Angel Island and reconditioning of various stations of the lighthouse service, including light ships.

CONTRACTOR SUES ALVISO PROMOTERS

G. V. Metzger, electrical contractor, has filed suit in Santa Clara county against the Alviso Greyhound Breeders Association for \$7,799 claimed under his contract for materials and labor in the electrical installation at the Alviso track. Other claims for material and labor totaling more than \$3000 have been filed against the track promoters.

FOR SALE...

110 Horsepower Diesel Engine at a Bargain

United Commercial Co., Inc.

234 Steuart Street

San Francisco

SMITH BROS. TRUCK CO.

"TRANSPORTATION SPECIALISTS"

Portable Crane Service—Rigging

1704 E. 16th St.

Los Angeles

WEstmore 3271

Move More Dirt Faster with LE TOURNEAU Equipment

A complete line of grading machinery — designed by a contractor — developed on actual construction jobs—built to stand continuous use under the worst conditions.

ENGINEER'S CONSULTATION FREE

R. G. LE TOURNEAU, INC.

Wilson Way at Roosevelt

Stockton, Calif.

PERMITS AND CONTRACTS

SAN FRANCISCO COUNTY

493	Wundeler	Bettancourt	5000
494	Kolmitz	Bay	1000
495	Golden	Swanson	4000
496	Golden	Swanson	4000
497	Golden	Swanson	4000
498	Golden	Swanson	4000
499	Pot	MacDonald	1000
500	Lechivallier	Ragni	3500
501	Evers	Owner	3500
502	Bocci	Owner	5000
503	Evers	Owner	3500
504	Moultin	Fink	1900
505	Whitney	Owner	3950
506	McKeever	Johnson	3500
507	Standard	Owner	6000
508	Zech	Prout	4000
509	Weinstein	Jacks	48000
510	Schloss	Rogers	3000
511	Stelling	Young	3000
512	Shell	Owner	4525
513	Morbio	Larsen	7500
514	Westhat	Collman	1800
515	Watkins	Duerner	4000
516	Paul	Anderson	6000
517	Powell	Jensen	7400
518	Lolla	Owner	1000
519	Heglin	Owner	4000
520	Andersen	Owner	4000
521	Lavin	Owner	12500
522	Carraro	Owner	4000
523	Bazani	Owner	2000

DWELLING

(493) NW SAN PABLO AND SANTA Monica. Two-story and basement frame dwelling.

Owner—E. H. Windeler, 48 Retiro St., San Francisco.

Architect—Charles F. Strothoff, 2574 15th St., San Francisco.

Contractor—J. Bettancourt, San Bruno. \$5000

ALTERATIONS

(494) NO 207 POWELL ST. Alter offices.

Owner—S. M. Kolmitz, 125 S. Las Palmas St., Los Angeles.

Architect—Not Given.

Contractor—Bay City Service Co., 15 Harriet St., S. F. \$1000

DWELLING

(495) N RIVERA 95 E Thirty-third Ave. One-story and basement frame dwelling.

Owner—Golden Gate Investment Co., 1145 Grant Ave., San Francisco.

Architect—C. O. Clausen, 746 46th Ave., San Francisco.

Contractor—O. Swanson, 35 Rockwood St., San Francisco. \$4000

DWELLING

(496) NW THIRTY-SECOND AVE. and Rivera St. One-story and basement frame dwelling.

Owner—Golden Gate Investment Co., 1145 Grant Ave., San Francisco.

Architect—C. O. Clausen, 746 46th Ave., San Francisco.

Contractor—O. Swanson, 35 Rockwood St., San Francisco. \$4000

DWELLING

(497) W THIRTY-SECOND AVE. 25 N Rivera St. One-story and basement frame dwelling.

Owner—Golden Gate Investment Co., 1145 Grant Ave., San Francisco.

Architect—C. O. Clausen, 746 46th Ave., San Francisco.

Contractor—O. Swanson, 35 Rockwood St., San Francisco. \$4000

DWELLING

(498) N RIVERA ST. 95 W Thirty-second Ave. One-story and basement frame dwelling.

Owner—Golden Gate Investment Co., 1145 Grant Ave., San Francisco.

Architect—C. O. Clausen, 746 46th Ave., San Francisco.

Contractor—O. Swanson, 35 Rockwood St., San Francisco. \$4000

ALTERATIONS

(499) NO. 22 MONTGOMERY ST. Alter restaurant.

Owner—Pot & Kettle, Premises.

Architect—Not Given.

Contractor—MacDonald & Kahn, Financial Center Bldg., S. F. \$1000

DWELLING

(500) SW THERESA ST. 280 NW Mission St. One-story and basement frame dwelling.

Owner—M. Lechivallier, 49 Theresa St., San Francisco.

Architect—Not Given.

Contractor—J. Ragni, 443 Bellevue Ave., Daly City. \$3500

DWELLING

(501) S QUINTARA ST. 71 E 19th Ave. One-story and basement frame dwelling.

Owner—K. Evers, 2100 19th Ave., San Francisco.

Architect—Not Given. \$3500

ALTERATIONS

(502) NO. 2939 MISSION ST. Alter stores and apartments.

Owner—G. Bocci & Sons, Colma.

Architect—Not Given. \$5000

DWELLING

(503) S QUINTARA ST. 403 E 19th Ave. One-story and basement frame dwelling.

Owner—F. Evers, 2100 19th Ave., San Francisco.

Architect—Fred Amandes, 1879 18th Ave., San Francisco. \$3500

ALTERATIONS

(504) NO 505 MONTGOMERY ST. Alter offices.

Owner—R. H. Moulton, % Taylor and Jackson.

Architect—Not Given.

Contractor—Fink & Schindler, 552 Brannin St., S. F. \$1900

DWELLING

(505) S KIRKHAM 95 E 36th Ave.; one-story and basement frame dwelling.

Owner and Builder—Whitney Inv. Co. 36th Ave. and Kirkham St.

Architect—Not Given. \$3950

DWELLING

(506) W THIRTIETH AVE 198 S Balboa St. One-story and basement frame dwelling.

Owner—E. McKeever, 591 9th Ave., San Francisco.

Architect—Charles F. Strothoff, 2274 15th St., San Francisco.

Contractor—J. A. Johnson, 450 Pioche St., San Francisco. \$3500

SERVICE BLDGS.

(507) NW PINE AND LARKIN STS. Two steel service stations buildings.

Owner—Standard Oil Co., 225 Bush St., San Francisco.

Architect—Not Given. \$4000 and \$2000

DWELLING

(508) N KENSINGTON WAY 55 W Merced. One-story and basement frame dwelling.

Owner—G. J. Zech, 333 Pine St., San Francisco.

Architect—W. G. Merchant, Russ Bldg., San Francisco.

Contractor—J. Prout, 515 Magellan St., San Francisco. \$4000

STORE

(509) S MARKET 275 W Sixth St. Seven-story and basement Class C department store.

Owner—Weinstein & Co., 1037 Market St., San Francisco.

Architect—Hyman & Appleton, 68 Post St., San Francisco.

Engineer—H. Rosenthal, Pacific Bldg., San Francisco.

Contractor—Jacks & Irvine, 74 New Montgomery St. \$48,000

WAREHOUSE

(510) S STILLMAN 215 E Fourth. One-story Class C warehouse.

Owner—Schloss Mfg. Co., 525 Mission St., San Francisco.

Architect—C. J. Rogers, Phelan Bldg., San Francisco.

Engineer—W. Adrian, 417 Market St. San Francisco.

Contractor—Clinton-Stephenson Co., San Francisco. \$3000

STORES

(511) N CHESTNUT 66 W Mallorca. One-story and basement Class C stores.

Owner—M. Stelling Jr., 155 Montgomery St., San Francisco.

Architect—Bertz, Winter & Maury, 681 Market St., San Francisco.

Contractor—Young & Horstmeyer, 461 Market St., S. F. \$3000

ADDITION

(512) NW THIRD AND ARMY STS. Addition to service station.

Owner—Shell Oil Co., 100 Bush St., San Francisco.

Architect—Not Given. \$4525

MARKET

(513) NO. 1540 OCEAN AVE. One-story and basement Class C market.

Owner—C. S. Morbio, 72 New Montgomery St., San Francisco.

Architect—W. H. Toepke and O. G. Hintermann, 74 New Montgomery St., San Francisco.

Contractor—H. H. Larsen Co., 64 South Park, S. F. \$7500

ALTERATIONS

(514) NW FILLMORE & DUBOCE. Alter dwelling.

Owner—F. E. Westhat Co., 810 Balboa Bldg., San Francisco.

Architect—Not Given.

Contractor—A. D. Collman, 666 Mission St., San Francisco. \$1800

DWELLING

(515) E SAN PABLO 85 N Yerba Buena. Two-story and basement frame dwelling.

Owner—F. A. Watkins, % Architect.

Architect—Irvine & Ehbets, 2048 Market St., San Francisco.

Contractor—J. C. Duerner, 550 Templeton St., S. F. \$4000

FLATS

(516) NE McALLISTER AND LAGUNA. Two-story and basement frame flat and store.

Owner—P. Paul, % Contractor.

Architect—Irvine & Ehbets, 2048 Market St., San Francisco.

Contractor—Anderson & Ringrose. \$6000

DWELLING

(517) S SAN MARCOS 258 W Castaneda St. Two-story and basement frame dwelling.

Owner—Mrs. O. Powell, % Architect.
Architect—Morrow & Morrow,
deYoung Bldg., San Francisco.
Contractor—G. P. W. Jensen, 320
Market St., S. F. \$7400

SHED
(518) N ONONDAGA AVE. 30 W
Otsego. One-story frame shed.
Owner—P. Lolla, 254 Ocean Ave., San
Francisco.
Architect—Not Given. \$1000

DWELLING
(519) NW TWENTY-SECOND AVE.
and Moraga St. One-story and
basement frame dwelling.
Owner—P. Heglin, 1245 24th Avenue,
San Francisco.
Architect—Not Given. \$4000

DWELLING
(520) E THIRTY-FIRST AVE. 25 N
Kirkham St. One-story and base-
ment frame dwelling.
Owner—C. Andersen, 146 Granville
St., San Francisco.
Architect—Not Given. \$4000

MARKET
(521) W POLK ST. 137 N Broadway.
One-story Class C market.
Owner—S. H. Lavin, 25 Taylor St.,
San Francisco.
Engineer—V. R. Grede, Oakland.
Contractor—Not Let. \$12,500

DWELLINGS
(522) W BOWDOIN 70 N Felton St.
Two 1-story and basement frame
dwellings.
Owner—G. Carraro & Sons, 750 Felton
St., San Francisco.
Architect—Not Given. \$2000 each

DWELLING
(523) NE QUESADA AND INGALLS
One-story and basement frame
dwelling.
Owner—C. Bagani, 1326 Quesada St.,
San Francisco.
Architect—Not Given. \$2000

ALAMEDA COUNTY

280 McClintock	Goodmundson	1000
281 Hepburn	Bunker	3700
282 Reynolds	Grubb	2950
284 Lodge	Anderson	2800
285 Hughes	Lesure	6700
(286) Levansaler	Owner	6354
287 Hellenic	Warn	4000
288 Concrete	Sattin	10000
289 Gray	Owner	2000
290 Signal	Owner	6500
291 Soderberg	Person	5000
292 Hufschmidt	Owner	4000
293 Abbott	Brewer	1300
294 Mortensen	Owner	3000
295 Sigwart	Bartelsen	1790
296 Ponsetti	Marietti	3000
297 Christian	Parker	16000
298 Key	—	80000

ALTERATIONS
(280) BETHLEHEM SHIP BUILD-
ing Corp. Yard, ALAMEDA. Al-
terations and reroofing.
Owner—McClintick-Marshall Corp.,
2308 Webster St., Alameda.
Architect—Not Given.
Contractor—A. K. Goodmundson, 45th
Ave. and Clement St., Oakland. \$1000

DWELLING
(281) NO. 2239 MOUNTAIN BLVD.,
OAKLAND. One-story five-room
dwelling and one-story garage.
Owner—H. M. Hepburn.
Architect—P. H. Slocombe, 121 Monte
Cresta Ave., Oakland.
Contractor—Glenn Bunker, 521 Central
Bank Bldg., Oakland. \$3700

DWELLING
(282) SW 108TH AVE. AND BREED
Ave., OAKLAND. One-story five
room dwelling.

Owner—Mrs. B. Reynolds.
Architect—Not Given.
Contractor—Jas. B. Grubb, 1801 109th
Ave., Oakland. \$2950

DWELLING
(283) 4315 WEST ST., OAKLAND;
one-story 6-room dwelling.
Owner and Builder—Peter Perata, 861
46th St., Oakland.
Architect—Not Given. \$3800

ALTERATIONS
(284) 3829 PIEDMONT AVE., OAK-
LAND; alterations and addition.
Owner—Gjoa Lodge, 59 Pearl St. Oak-
land.
Architect—Not Given.
Contractor—C. M. Andersen, 1853 9th
Ave., Oakland. \$2800

BUNKERS
(285) 1003 ASHBY AVE., BERKE-
LEY; gravel bunker.
Owner—Charles S. Hughes Co., 1061
Asby Ave., Berkeley.
Architect—Kaiser Paving Co., Lath-
am Square Bldg., Oakland.
Contractor—E. T. Lesure, 87 Ross Cir-
cle, Oakland. \$6700

RESIDENCE
(286) NO. 49 WILDWOOD GARDENS
PIEDMONT. Two-story 6-room
frame residence and garage.
Owner—Miss Frances Levansaler.
Architect—W. E. Yelland, Financial
Center Bldg., Oakland. \$6354

HALL
(287) NO. 914 BRUSH ST., OAK-
LAND. One-story social hall.
Owner—Hellenic Community Society.
Architect—Not Given.
Contractor—Warn Brothers, 419 E.
Merle Court, San Leandro. \$4000

PLANT
(288) SOUTHERN PACIFIC MOLE.
Pier No. 2, OAKLAND. Concrete
batching plant.
Owner—Concrete Products Sales Co.,
Ltd., 1522 Latham Square Bldg.,
Oakland.
Architect—Not Given.
Contractor—H. J. Sattin, Berkeley. \$10,000

ALTERATIONS
(289) NE TWENTIETH & BROAD-
way, OAKLAND. Alterations.
Owner—Gray Shop, Premises.
Architect—Not Given. \$2000

STATION
(290) NO. 196 GRAND AVENUE,
OAKLAND. One-story steel serv-
ice station.
Owner—Signal Oil & Gas Co., 2301
Blanding Ave., Alameda.
Architect—Not Given. \$6500

DWELLING
(291) NO. 1741 SONOMA ST., BER-
KELEY. Two-story 6-room frame
dwelling and garage.
Owner—Sylvia E. Soderberg, 2218
Browning St., Berkeley.
Architect—Theo. G. Ruegg, 1515 Tyler
St., Berkeley.
Contractor—Emil Person, 829 San
Luis Road, Berkeley. \$5000

DWELLING
(292) NO. 130 BROOKSIDE DRIVE,
BERKELEY. Two-story six-room
frame dwelling and garage.
Owner—Hufschmidt & Whalen, 461
Lee St., Oakland.
Architect—Hale Ford Thompson, 189
Linden Ave., Palo Alto. \$4000

DWELLING
(293) NO. 1166 CRAGMONT, BER-
KELEY. One 3-room frame dwlg
Owner—Park Abbott, 1174 Cragmont
Berkeley.

Architect—F. Confer, 520 The Ala-
meda, Berkeley.
Contractor—E. Brewer, 1006 Euclid
Ave., Berkeley. \$1300

ADELLING
(294) NO. 2423 PALMETTO STREET,
OAKLAND. One-story five-room
dwelling.
Owner—Paul Mortensen, 2117 Pal-
metto St., Oakland.
Architect—Not Given. \$3000

ADDITION
(295) NO. 6221 MONA ST., OAK-
LAND. Addition.
Owner—A. A. Sigwart, 6221 Mona St.,
Oakland.
Architect—Not Given.
Contractor—S. J. Bertelsen, 30 Es-
trella Ave., Piedmont. \$1700

RESIDENCE
(296) NO. 1301-05 BERKELEY WAY,
BERKELEY. Two-story 5-room
frame residence and store.
Owner—C. Ponsetti, 803 Delaware St.,
Berkeley.
Architect—Not Given.
Contractor—Charles Marietti, 1201
Stannage Ave., Berkeley. \$3000

DWELLING
(297) NO. 2601 DURANT AVENUE,
BERKELEY. Two-story 12-room
frame dwelling and assembly
room.
Owner—Christian Science Society,
University of California, Berkeley
Architect—H. H. Gutterson, 526
Powell St., San Francisco.
Contractor—K. E. Parker Co., 135
South Park, S. F. \$16,000

BUILDING
(298) KEY SYSTEM PIER, OAK-
LAND. One-story steel concourse
building.
Owner—Key Terminal Railway, Ltd.,
2129 Grove St., Oakland.
Architect—Kent & Hass, 525 Market
St., San Francisco.
Contractor—Segregated. \$80,000

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

102 Jackson	Zinkand	8321
103 Stelling	Young	4231
104 Luddecke	Holt	7394
105 La Societe	Larsen	7343

RESIDENCE
(102) LOT 4 AND S 1/2 LOT 3 BLK
21, Map Forest Hill. All work for
two-story and basement frame &
stucco residence.
Owner—L. R. Jackson, 852 Clement
St., San Francisco.
Architect—Harold G. Stoner, 810 Ulloa
St., San Francisco.
Contractor—Ed. Zinkand & Son, 667
36th Ave., San Francisco.
Filed July 17, '33. Dated July 8, '33.
Frame up and roof on..... 25%
Brown coat plaster on..... 25%
When completed..... 25%
Usual 35 days..... 25%
TOTAL COST, \$8321.50
Bond, \$4160.75. Sureties, Fred Wal-
pert and M. J. White. Limit, 90 days.
Forfeit, none. Plans and specifica-
tions filed.

BUILDING
(103) N CHESTNUT 66-3 W Mal-
lorca Way. General work for Job
1456.
Owner—Martin Stelling Jr., 155 Mont-
gomery St., San Francisco.
Architect—Fertz, Winter & Maury,
210 Post St., San Francisco.
Contractor—Young & Horstmeyer, 461
Market St., San Francisco.

Filed July 18, '33. Dated July 18, '33.
On 10th of each month..... 75%
Completed sum sufficient to in-
crease payments to..... 75%
Usual 35 days..... Final
TOTAL COST, \$4231
Bond, \$241. Surety, American Bond-
ing Co. of Baltimore. Limit, 30 days.
Forfeit, none. Plans and specifications
filed.

ALTERATIONS

(104) SE LAKE AND TWENTY-
sixth Ave W 32-6xS 100 OL 97.
All work for alterations and addi-
tions to one-story frame building
Owner—George Luddecke, 1201 26th
Ave., San Francisco.
Architect—C. O. Clausen, 746 46th
Ave., San Francisco.
Contractor—O. K. Holt, 3957 Army
St., San Francisco.

Filed July 18, '33. Dated July 12, '33.
Frame up\$1848.50
Brown coat plaster on..... 1848.50
When completed 1848.50
Usual 35 days..... 1848.50
TOTAL COST, \$7394.00
Bond, \$3750. Surety, Maryland Casu-
alty Co. Limit, 90 days. Forfeit,
none. Plans and specifications filed.

ADDITION

(105) CONG. AT PT AT RIGHT
Angles to Sixth Ave and dist 50
E Sixth Ave. and 300 N Anza St
E 55xS 60 All work for addition
of one-story offices and two-story
solariums to hospital.
Owner—La Societe Francaise de Bien-
faisance Mutuelle.

Architect—Fabre & Hildebrand, 110
Sutter St., San Francisco.
Contractor—L. H. and R. V. Larsen
(as H. H. Larsen Co.), 64 South
Park, San Francisco.

Filed July 19, '33. Dated July 17, '33.
Sheathing ready for roofing.....\$1835
White coat plaster on..... 1836
When completed 1836
Usual 35 days..... 1836
TOTAL COST, \$7343
Bond, \$3675. Sureties, J. M. Dupas
and J. H. McCallum. Limit, 60 days.
Forfeit, none. Plans and specifications
filed.

ALAMEDA COUNTY

34 Powers	Swanstrom	5391
35 Same	Rigney	2465
36 Fiore	Delucchi	3100
296 Braun	Furlong	7086

REMODELING

(34) NO. 473 FOURTEENTH ST.,
Oakland. Remodeling front of
building.
Owner—Lillian D. Powers, New York.
Architect—Wm. C. Hays and W. G.
Corlett, 1801 Bank of America
Bldg., Oakland.
Contractor—Geo. Swanstrom, 1615 78th
Ave., Oakland.

Filed July 13, '33. Dated July 1, '33.
On 10th of each month..... 75%
Usual 35 days.....Balance
TOTAL COST, \$5391
Bond, none. Limit, 45 days. Forfeit,
none. Plans and specifications filed.

(35) TILE WORK ON ABOVE.

Contractor—The Rigney Tile Co., 3012
Harrison St., Oakland.
Filed July 13, '33. Dated July 1, '33.
Payments same as above.....
TOTAL COST, \$2465
Bond, none. Limit, 45 days. Forfeit,
none. Plans and specifications filed.

BUILDING

(36) SW COR. 14th and Center Sts.,
Oakland; 1-story frame and stucco
building.
Owner—Giuseppe Fiore, 629 E 19th
St., Oakland.
Plans by Contractor.
Contractor—P. Delucchi & Son, 6443
Claremont Ave., Oakland.

Filed July 14, '33. Dated July 12, '33.
Rough frame and roof done...\$775.00
Plastering complete 775.00
Completion 775.00
Usual 35 days..... 775.00
TOTAL COST, \$3100.00
Limit, 70 days. Plans and Spec. filed.

RESIDENCE

(296) LOT 6 BLK 13, Oakmore High-
land. All work for two-story
frame residence and garage.
Owner -- Chas. E. Braun, 5545 Taft
St., Oakland.
Architect—Miller & Warnecke, Finan-
cial Center Bldg., Oakland.
Contractor—Thos. Furlong, 460 Jerome
St., Oakland.

Filed July 18, '33. Dated July 17, '33.
Rafters in place.....\$1417.30
Brown coat plaster on..... 1417.30
Inside trim ready for painter 1417.30
Completed and accepted 1417.30
Usual 35 days..... 1417.30
TOTAL COST, \$7086.50
Bond, none. Limit, 80 days. Forfeit,
none. Plans and specifications filed.

SAN FRANCISCO UNDER \$1000

SIGN, electric, \$218; 1355 Pacific Ave.
owner, J. Marymont, 1355 Pacific
Ave.; contractor, Brumfield Elec.
Sign Co., 965 Folsom St.

REPAIR fire damage to dwelling. Cost
\$312. No. 44-46 Langton St.; own-
er, G. Bassetti, Premises; con-
tractor, J. B. McSheehy, 137 Clif-
ford Terrace.

SIGN, electric, \$300; 3079 16th St.;
owner, J. Sullivan, Premises; con-
tractor, Brumfield Elec Co., 965
Folsom St.

SIGN, electric, \$250; 692 Geary Street
owner, J. Ferris, 692 Geary St.;
contractor, Brumfield Electric Co.
965 Folsom St.

BILLBOARD, \$7; NE 20th and Bryant
Sts.; owner, Foster & Kleiser,
1675 Eddy St.

SIGN, electric, \$250; 2198 Folsom St.;
owner, Delenkos, 2198 Folsom St.
contractor, Brumfield Electric Co.,
965 Folsom St.

ALTER public garage, \$300; NW Eddy
and Buchanan Sts.; owner, E. B.
De Golia, 114 Sansome St.

ALTER store, \$490; 780 Market St.;
owner, Peggy Shops, Inc., 780
Market St.; contractor, Ping &
Schindler Co., 552 Brannan St.

ALTER restaurant, \$250; 1128 Market
St.; owner, J. H. Leighton, Prem.
contractor, P. O. Lind, Inc., 2745
16th St

ADD to store, \$175; SE Geneva Ave.
and Mission St.; owner, Caesar's
Drug Store, Mission and Geneva
Ave.; contractor, H. Apte, 287
Arleta St

ADD to dwelling, \$100; 1028 Munich
St.; owner, S. E. Newcomb, 1028
Munich St.

SHED, one-story frame, \$200; NE 10th
St. 95 NW Harrison; owner, T.
H. Elkington, 1291 33rd Ave.

FLUES (3) patent, \$65; NW Ellis and
Broderick Sts.; owner, Mr. Stev-
ens, Butler Bldg.; contractor, H.
Ernst & Son, 541 Hayes St.

SIGN, electric, \$250; 44 Campton Pl.;
owner, Gangplank Tavern, Prem.;
contractor, Elec. Products Corp.,
255 Golden Gate Ave.

STUCCO front of dwelling, \$75; 331
Gates; owner, J. Brugaletta, 331
Gates St.

REPAIR fire damage to shops, \$250;
14 Beale St.; owner, Crocker First
Federal Trust Co., Post and
Montgomery Sts.; contractor, Geo.
Wagner, 181 South Park.

GARAGE, private, frame, \$50; Adjoin-
ing 1424 45th Ave.; owner, Mrs. N.
Ingenhorth, 21 Bartlett St.

TAVERN, one-story frame, \$450; NE
Tenth 95 NW Harrison St.; owner,
T. H. Elkington, 1291 33rd Ave.

SIGN, electric, \$450; 2048 Chestnut
St.; owner, J. & G. Coffee Shop,
Prem., contractor, Pioneer Elec.
Co., 2128 Market St.

ALTER dwelling, \$390; 864 Funston
Ave.; owner, H. J. Zimmet, 864
Funston Ave.; contractor, T. Cohn
Russ Bldg.

REPAIR store, \$50; 2456 Mission St.;
owner, G. J. Young, 5928 Keith
St., Oakland.

ALTER auction room, \$100; 1742-46
Geary St.; owner, A. B. Clark,
172 Geary St.; architect, C. O.
Clausen, 746 46th Ave.; contrac-
tor, A. D. Disston, 666 Mission St.

ALTER interior of flats, \$10; 1157-A
Taylor St.; owner, R. P. Drady,
Premises.

SIGN, electric, \$200; 2300 Market St.;
owner, Burke & Ralseman, Prem.;
contractor, Elec. Products Corp.,
255 Golden Gate Ave.

SIGN, cloth, \$45; 1069 Market St.;
owner, Sterling Furniture Co.,
Premises; contractor, Osthoff &
Co., 501 3rd St.

ALTER dwelling, \$50; 29 Richland
Ave.; owner, A. L. Krause, Prem.

SIGN, cloth, \$50; 1111 Market St.;
owner, Hamilton's Market, Prem.
contractor, Osthoff & Co., 501 3rd.

ALTER flats, \$175; 738 Hayes St.;
owner, Mrs. Greenwood, 738 Hayes
St.; contractor, J. Fuller, 663
Hayes St.

ALTER dwelling, \$200; 254 Felton St.;
owner, G. Garibaldi, 254 Felton St.
BARBER poles (2) \$50 each; 5454
Geary St.; owner, E. J. Miller,
5454 Geary St.

ALTER restaurant, \$50; 405 Eddy St.
owner, Louis Hecklet Estate, 493
Eddy St.

ADD to flats, \$500; 2927 Buchanan St.;
owner, B. Gauze, 2927 Buchanan.

ADD to dwelling, \$600; 1636 Revere;
owner, C. Thumel, 1636 Revere;
contractor, L. R. Andersen 253
States St.

ALTER dwelling, \$100; 221 Filbert
St.; owner, R. Hoefler, 225 Fil-
bert St.

ALTER dwelling, \$500; SE Laidley
157 NE Mignet; owner, M. Harring-
ton, 237 Laidley.

SIGN, electric, \$150; 847 Divisadero;
owner, Sign of Elephant, 847 Di-
visadero; contractor, Wonderlite
Neon Prod. Co., 170 Otis St.

SIGN, electric, \$40; 4141 18th; owner,
Zickerman, 4141 18th; contractor,
Laib, 7th and Folsom.

GARAGE, frame private, \$60; S Con-
go 135 E Martha; owner, Mrs.
Hoepler, 76 Martha.

REPAIR fire damage to dwelling, \$300
1342 Rhode Island; owner, J. Cooper,
1342 Rhode Island.

STUCCO front of dwelling, \$75; 2277
46th Ave.; owner, Mrs. I. M. Cam-
bridge, 4620 Irving St.; contrac-
tor, N. Hallstrom, 34 Fountain.

FENCE, \$50; W Bayshore 260 S Cort-
land; owner, A. E. Yorkich, 2419
Harrison St.

ADD to flats, \$500; 2927 Buchanan St.;
owner, B. Gauze, 2927 Buchanan.

ALTER store, \$400; 2293 Mission St.;
owner, J. Bund, 2293 Mission St.

ALTER dwelling, \$190; 2637 Broder-
ick St.; owner, Mrs. K. McCarthy,
2637 Broderick St.

ALTER dwelling, \$65; 685 Laguna
Honda Blvd.; owner, Raphael
Porta, 685 Laguna Honda.

ALTER garage for beer garden, \$250;
2030 Lombard St.; owner, G.
Cagaccio, 2030 Lombard St.

STUCCO front of dwelling, \$450; 639
4th Ave.; owner, H. Koethe, care
contractor; contractor, H. Erick-
son, 972 Cheney St.

ALTER restaurant, \$200; SE First &
Harrison Sts.; owner, Fuehrer &
Gribney, 790 Harrison St.

ADD to hotel, \$600; 1075 Filbert St.;
owner, S. Trabaccio, 1075 Filbert;
contractor, T. D'Amico, 2345 Polk.

BUILDING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

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| 1.—Apartments | Offices |
| 2.—Bonds | 11.—Ice and Cold Storage Plants |
| 3.—Churches | 12.—Power Plants |
| 4.—Factories and Warehouses | 13.—Public Buildings, Fire Houses and Jails |
| 5.—Flats | 14.—Residences |
| 6.—Garages and Service Stations | 15.—Schools |
| 7.—Federal Buildings | 16.—Banks, Stores and |
| 8.—Club Buildings | 17.—Theatres |
| 9.—Hospitals | 18.—Wharves & Docks |
| 10.—Hotels | 19.—Misc. Const. |
| | 20.—Misc. Supplies & Materials |

1—APARTMENTS

Electrical Contract Awarded.
REMODEL Cost, \$30,000
SAN FRANCISCO. No. 1164 Market Street.

Remodel four-story concrete loft building for apartments (add one story, 30 2-room apts., 4 stores).
 Owner—A. W. Wilson.

Architect—C. A. Meussdorffer, Humboldt Park Bldg., San Francisco.
Electric—Crown Electric Co., 153 Eddy St., San Francisco.

Plastering and painting bids will be taken in about one week.

As previously reported, heating and plumbing awarded to W. E. Treusdale 422 Turk St., at \$2194; glass to W. P. Fuller & Co. 301 Mission St.; carpentry, etc., to Monson Bros., 475 Sixth St., at \$2100.

Plans Being Completed.
APARTMENTS Cost, \$50,000
SAN FRANCISCO. Hayes Valley District.

Three-story and basement frame and stucco apartments (15 2 and 3-rm. apts.); composition 10-year roof, 18-car garage, gas steam heating plant, elevator, individual electric refrigeration, canvas walls, hardwood floors, tiled baths and showers, electric ranges, etc.

Owner—Withheld.
 Architect—Irvine & Ebbets (R. R. Irvine, Architect), 2048 Market St. San Francisco.

Sub-bids will be taken by the architect in about ten days on all portions of the work with the exception of wrecking and plastering.

2—BONDS

HUNTINGTON PARK, Los Angeles Co., Cal.—Huntington Park will hold another election, probably on August 21, for the purpose of submitting a \$95,000 bond issue, proceeds to be used for the construction of a new city hall. A similar proposition was defeated at the election of June 6. The city council adopted preliminary plans for the structure prepared by L. C. Ownbey & Co. (R. Van Buren Livingston, architect), 7018 Passaic Street, Huntington Park.

4—FACTORIES & WAREHOUSES

Being Done By Day's Work by Own-ALTERATIONS, ETC. Cost, \$50,000 (including equipment)
SAN JOSE, Santa Clara Co., Calif.
 Alterations and additions to winery

(bunk house, kitchens, general quarters, cellar, office building, bottling equipment and extension to main plant; capacity of 300,000 gallons per year).

Owner—Almaden Vineyards Corporation (Chas. Jones and R. Foley, owners) San Jose.

Plans by owners.

Work is being done under the supervision of the owners.

To Be Done By Day's Work.
ALTERATIONS, ETC. Cost, \$5000
SAN FRANCISCO. NW Third and Army Streets.

Alterations and additions to distributing plant (two 2,300-gal. tanks, enlarge retaining walls, etc.)

Owner—Shell Oil Co., Shell Bldg.
 Plans by Engr. Dept. of Owner.

Preparing Preliminary Plans.
CREAMERY Cost, \$200,000
SAN FRANCISCO. Sixteenth and Shotwell Streets
 Group of reinforced concrete creamery buildings.

Owner—New Organization headed by W. F. Cordes, 126 Post St., San Francisco.

Architect—O'Brien Bros. and W. D. Peugh, 333 Montgomery St., San Francisco.

Grading Contract Awarded.
ADDITION Cost, \$800,000
OLEUM, Contra Costa Co., Cal.
 Addition to lubricating plant.
 Owner—Union Oil Co., Mills Bldg., San Francisco.

Plans by Engineering Dept. of Owner.
Grading—I. B. Lee, 1059 Carpentier St., San Leandro.

As previously reported, tanks awarded to the Berkeley Constr. Co., Second and Camelia Sts., Berkeley.

Bids on other portions of the work will be awarded from the Los Angeles office. Mr. Roy Heise, Oleum, is in charge of the construction.

Reinforcing Steel Bids Being Taken.
FACTORY Cost, \$750,000
OAKLAND, Alameda Co., Cal. Foot of Adeline St. on the estuary.
 Steel frame and concrete coconut products factory (650x100 feet); steel frame and reinforced concrete warehouse (40x146 ft.); pile foundations, flat slab floor, corrugated iron roof and siding.

Owner—El Dorado Oil Werks, Third and University Ave., Berkeley.

Engineers—Ellison & Russell, Pacific Bldg., San Francisco.

Bids on reinforcing steel are being received by L. M. King, % Owner.
Lumber—Sunset Lumber Co., 400 High St., Oakland.

Structural Steel—Judson-Pacific Co., 18th and Campbell Sts., Oakland.
Concrete—Nat Lean, 1174 19th Street, Oakland.

Planned.
BREWERY Cost, \$—
BELLINGHAM, Washington.
 New brewery.
 Owner—Whatcom-Skagit Brewery (W. W. Fairburn, President).
 Architect—To Be Selected.

S. Orloff, vice-president and J. H. Trede, treasurer. A site will be selected shortly.

Contract Awarded.
WAREHOUSE Cont. Price, \$3734
SAN FRANCISCO. Stillman St. near Fourth Street.

One-story reinforced concrete warehouse (20x80 feet) concrete floors, tar and gravel roof, steel sash,

steel rolling doors, skylights, etc.
 Owner—Schloss Mfg. Co.

Architect—Chas. E. J. Rogers, Phelan Building.

Engineer—W. Adrian, 417 Market St.
 Contractor—Clinton Stephenson Construction Co., 550 Montgomery St.

Preparing Plans.
PACKING PLANT Cost, \$—
LINDSAY, Tulare Co., Calif.

Concrete packing plant (250x130 feet) steam heating system, ventilating equipment, etc.

Owner—Lindsay Farm Bureau Packing Company.

Architect—W. W. Ache, 1616 Fourth Ave., Los Angeles.

Additional Contracts Awarded.
PLANT Cost, \$—
OAKLAND, Alameda Co., Calif.

One-story plant for batching concrete (work involves timber structure, concrete work, steel work, machinery, installation of machinery, weighing apparatus, electric work, water and air lines and compressors).

Owner—Concrete Products Sales Co., 1522 Latham Square Bldg., Oakland.

Plans by Engr. Dept. of Owner.
 Contractor—J. F. Fattin, 2925 Hille-gass, Berkeley, approx. \$5500.

Electric—West Coast Electric Co., 160 10th Street.

Plumbing—Bertram and Murray, 726 Bryant Street.

Steel—R. G. LeTourneau, Roosevelt and First Sts., Stockton.

As previously reported, foundations awarded to A. W. Kitchen, 110 Market St., San Francisco, at approximately \$9,000.

Planned.
FACTORY & OFFICES Cost, \$—
SAN FRANCISCO. Site Not Selected.
 New factory and office building.

Owner—George Caswell Company (Mr. Quinn, in charge) 442 Second St.
 Architect—Not Selected.

Proposed work is in a very preliminary stage at this time. Further details will be announced in about 30 days.

Preparing Plans.
BREWERY Cost, \$220,000
SOUTH GATE, Los Angeles Co., Cal.
 Brewery (six-story brewhouse, grain storage elevators, cellars, bottling house, office building and power plant, concrete tanks).

Owner—Southern California Brewing Co., Oviatt Bldg., Los Angeles.

Architect—Bryant & Shaw, 1610 Cesmo St., Los Angeles.

July 18, 1933

To Ask Bids In About Two Weeks.

WINERY Cost, \$100,000
LODI, San Joaquin Co., Cal.

New winery (type of construction not determined).

Owner—Woodbridge Winery, Inc. (J. Oliver Ziegler, Pres.), 622 17th St., Sacramento.

Private Plans.

Bids will be asked in about two weeks by Isidore Jubel, 2749 25th St., Sacramento, the Secretary-Treasurer of the company.

Plans Being Prepared.
FACTORY Cost, \$50,000
BERKELEY, Alameda Co., Cal. 63rd and Overland Sts.

Two-story steel frame factory (120x140 ft.) brick walls, concrete work composition roofing, etc.

Owner—Peterson Tallow Co., 65th and Bay Sts., Oakland.

Engineer—E. W. Remnitz, 1594 63rd St., Oakland.

Bids will be asked in about sixty days.

SAN BERNARDINO COUNTY, Cal.
—Edward E. Meyer, Verdumont, will start work soon on the erection of a winery at Verdumont, San Bernardino County. The building will cost \$10,000 and the equipment about \$50,000.

Plans Being Prepared.

FACTORY Cost, \$—
SAN FRANCISCO. NE Harrison and Hawthorne Sts. (150x68.6 ft.)
New factory and office building.
Owner—George Caswell Co. (Mr. Quinn), 442 Second St., S. F.
Architect—Mastin & Hurd, 233 Post St., San Francisco.

Further details will be announced in about thirty days.

Planned.
Cannery Cost, \$15,000
VISALIA, Tulare Co., Cal.
New cannery.
Owner—Visalia Canning Co., % A. D. Sweet, Chamber of Commerce, Visalia.
Architect—Not Given.

Planned.
MALT HOUSE Cost, \$—
SAN FRANCISCO. North Beach Dist.
New malt house.
Owner—Bauer-Schweitzer Hop & Malt Co., 660 Sacramento Street
Architect—Not Selected.

Proposed project is in a very preliminary stage.

July 19, 1933
To Ask Bids Within Few Days.
CREAMERY Cost, \$18,000
SAN FRANCISCO. Stockton St. and Card Alley.

Two-story and basement wood frame and stucco creamery (61x113 feet)
Owner—L. Giannone, 225 Columbus Ave., San Francisco.
Plans by Peter Canali, 65 Columbus Ave., San Francisco.
Lessee—Sonoma Mission Creamery.

OAKLAND, Cal.—Until July 24, 4:30 P. M., bids will be received by A. H. Abel, Secretary, City of Oakland Port Commission, for repairs to floors of the third unit in Terminal Building "B", Outer Harbor, Oakland.

Electrical Contract Awarded.
WAREHOUSE, ETC. Cost, \$—
SAN FRANCISCO. 447-453 Broadway.
Three-story Class C brick and steel warehouse, manufacturing factory hotel and three stores.
Owner—E. Parducci and P. Domenici, 505 Sansone Street.
Architect—Irvine & Ebbets (R. R. Irvine, architect) 2048 Market St.
Contractor—Peter Sartorio, 2440 Greenwich Street.
Electric—G. Vaccarino, 1909 Hyde St.
As previously reported, structural steel awarded to McClintic-Marshall Corp., 2050 Bryant Street; reinforcing steel to W. S. Wetenhall, 17th and Wisconsin Sts.

Contract Awarded.
BREWERY Cost, \$300,000
SAN JOSE, Santa Clara Co., Cal.
Lincoln Avenue.
Remodel building for brewery (new equipment, refrigeration, etc.); capacity of 70,000 barrels per year
Owner—Sainte Claire Brewing Co., (Frank J. McCarthy, in Charge), San Jose.
Contractor—Jacks & Irvine, 74 New Montgomery St., San Francisco, at \$20,000.

Bids on machinery and refrigeration are being received by the owner up to July 15.

Construction Postponed Indefinitely.
ADDITION Cost, \$5000
OAKLAND, Alameda Co., Calif. 1501 Thirty-seventh Avenue.

One-story brick and tile addition to furniture factory (tar and gravel roof, electric wiring, wire glass & galvanized iron skylights, steel sash, etc.

Owner—Sulmock Mfg. Co., 1501 37th Avenue, Oakland.
Architect—Guy L. Brown, American Bank Bldg., Oakland.

Contract Awarded.
BUILDING Cost, \$15,000
SAN JOSE, Santa Clara Co., Cal. No. 201 W-Julian Street.

One-story and basement reinforced concrete and frame coopeage (90 by 124 ft.) concrete floors, 15-year built-up roof with mineral top, etc.

Owner—Henry Lorentz, 201 W. Julian St., San Jose.
Architect—Charles McKenzie, Twohy Bldg., San Jose.
Contractor—H. C. Miller, Santa Clara.

Contract Awarded.
WAREHOUSE AND MILL BLDGS. Cost, \$50,000
LOS ANGELES, Los Angeles Co., Cal. Calada and Noakes Streets.

Two warehouses (123x177 ft. each) and five-story mill building (40x60 feet).

Owner—V-O Milling Company.
Architect—C. A. Kelso, 2283 W. 26th Place, Los Angeles.

The warehouses will be brick structures with arched roofs, composition roofing, sprinkling systems, steel windows, metal rolling shutters, concrete floors, gas radiators, etc. The mill building will be a heavy wood frame structure. As previously reported, Jones-Hettelsater Co., 600 Mutual Bldg., Kansas City, Mo., has the contract for the erection of a six-story Class A grain elevator on the site for the V-O Milling Co. The elevator will cost \$50,000.

Bids Opened.
WAREHOUSE Cost, \$4000
SAN FRANCISCO. Stillman St. near Fourth Street.

One-story reinforced concrete warehouse (20x80 feet) concrete floors, tar and gravel roof, steel sash, steel rolling doors, skylights, etc.

Owner—Schloss Mfg. Co.
Architect—Chas. E. J. Rogers, Phelan Building.

Engineer—W. Adrian, 417 Market St.
Low Bidder—Clinton Stephenson Construction Co., 550 Montgomery St.

Following bids received:
Clinton Stephenson Const. Co. \$3,734
DeLuca & Son, Inc. 3,767
J. Martinelli 3,987
Wm. Martin 4,023
Barrett & Hill 4,098
F. R. Siegrist Co. 4,342
S. Rasori 5,119
Bids held under advisement.

Being Done By Day's Labor.
DIST. PLANT Cost, \$15,000
UKLAH, Mendocino Co., Calif.
Storage and oil distributing plant (2 25,000-gallon steel storage tanks, pump house, office and warehouse) galvanized iron construction.

Owner—Gilmore Oil Co. (T. B. Kelp, Mgr.) Third and 18th Sts., San Francisco.

Plans by Engr. Dept. of Owner.
Mgr. of Const.—Henry Gurries, Ukiah

Being Done By Day's Labor.
DIST. PLANT Cost, \$15,000
EUREKA, Humboldt Co., Calif.
Storage and oil distributing plant (2 25,000-gallon steel storage tanks, pump house, office and warehouse) galvanized iron construction.

Owner—Gilmore Oil Co. (T. B. Kelp Mgr.) Third and 18th Sts., San Francisco.

Plans by Engr. Dept. of Owner. and care owner.
Mgr. of Const.—Henry Gurries, Eureka, and care owner.

Contract Awarded.
DIST. PLANT Cost, \$10,000
REDDING, Shasta Co., Cal.

Storage and oil distributing plant (2 20,000 gallon steel storage tanks, pump house, office and warehouse) galvanized iron construction).

Owner—Gilmore Oil Co. (T. B. Kelp Mgr.) Third and 18th Sts., San Francisco.

Plans by Austin Company of Calif.
Contractor—Austin Co. of Calif., 1924 Broadway, Oakland.

Planned.
WINERY Cost, \$15,000
ELK GROVE, Sacramento Co., Cal.
Alterations and improvements to winery (528,000 gallon storage capacity) three concrete buildings, pressing building and out-houses.
Owner—Woodbridge Winery, Inc. (J. Oliver Ziegler, Pres.) 622 17th St., Sacramento.
Architect—Not Given.

Contract Awarded.
BREWERY Cost, \$100,000
SEATTLE, Wash. 3100 Airport Way.
Remodel three- and four-story steel frame building for brewery (16,000 sq. ft. of floor space) steel frame interior, concrete and steel plate floors covered with mastic covering, etc.

Owner—Century Brewing Association of Canada.

Plans by Jos. Wohleb, Chambers Bldg. Olympia, Wash.

Contractor—A. W. Quist Company, Exchange Bldg., Seattle.

5—FLATS

Contract Awarded.
FLATS AND STORES Cost, \$6000
SAN FRANCISCO. NE McAllister and Laguna Sts.

Two-story and basement frame and stucco flats and stores.

Owner—P. Paul, % Contractor.
Architect—Irvine & Ebbets (R. R. Irvine, Architect), 2048 Market St., San Francisco.

Contractor—Anderson & Ringrose, 320 Market St., San Francisco.

Plans Being Figured.
FLATS & STORES Cost, \$20,000
SAN FRANCISCO. S Columbus Ave. 55 W Mason Street.

Two-story, basement and sub-basement frame and stucco flats (2 5-room flats and one store and sub-basement); flat composition roof, individual gas radiators, individual electric refrigeration, tiled baths, hardwood floors, etc.

Owner and Builder—R. Panell, 857 Union St., San Francisco.

Architect—Irvine & Ebbets (R. R. Irvine, Architect), 2048 Market St., San Francisco.

6—GARAGES & SERVICE STATIONS

Plans Completed.
SERVICE STATION Cost, \$—
OAKLAND, Alameda Co., Cal. NW Harrison and Grand Avenue.

New service station.

Owner—Signal Oil & Gas Co., 2301 Blanning Ave., Alameda, and Los Angeles.

Plans by Engr. Dept. of Owner (H. J. Schaufle, engineer).

Whether bids will be asked or work done by day's labor is not determined at this time. Announcement will be made within a few days.

To Be Done by Day's Work.
SERVICE STATIONS Cost, \$6000
SAN FRANCISCO. NW Pine and Larkin Streets.
 Two steel service station buildings.
 Owner—Standard Oil Co., 225 Bush St., San Francisco.
 Plans by Engineering Dept. of Owner.

Plumbing Bids Being Taken.
SERVICE STATION Cost, \$4000
PALO ALTO, Santa Clara Co., Calif. Frame, stucco and tile service station.
 Owner—Shell Oil Co., Shell Bldg., San Francisco.
 Plans by Engr. Dept. of Owner.
 Contractor—Pacific Truck Service, 646 Park Ave., San Jose.

Contracts Awarded.
SERVICE STATION Cost, \$6500
OAKLAND, Alameda Co., Cal, NW Harrison and Grand Avenue.
 New steel service station.
 Owner—Signal Oil and Gas Co., 2391 Blanding Ave., Alameda, and Los Angeles.
 Plans by Engr. Dept. of Owner (H. J. Schauffle, engineer).

Steel Buildings—Pacific Steel Building Co., 2065 E 51st St., Los Angeles.
Yard and Ground Work—Norman Peterson, Oakland.
 Bids on other options of the work will be awarded by Mr. Schauffle in a few days.

7—FEDERAL BUILDING

WASHINGTON, D. C. — As previously reported, Herbert M. Baruch Corp., 125 S. Olive St., Los Angeles, at \$66,690 submitted low bid to Treasury Department for construction of the U. S. Post Office at Ely, Nevada. Following is a complete list of the bids received.
 Herbert M. Baruch Corp., Los Angeles, \$66,690.
 K. E. Parker Co., San Francisco, \$68,184.
 Wm. MacDonald Constr. Co., St. Louis Mo., \$74,428.
 Geo. A. Whitmeyer & Sons Co., Ogden Utah, \$75,900.
 James J. Burke Co., Salt Lake City, Utah, \$77,000.
 Fred R. Comb Co., Minneapolis, Minn. \$78,325.
 Bannister-Field Co., Ltd., Los Angeles, \$79,450.

SAN FRANCISCO—Until July 24, 2 P. M., bids will be received by U. S. Forest Service, Ferry Bldg., for 300 or more ready-cut frame buildings, 9 plans of 286 to 1300 square feet of floor area. Plans and specifications available from above office upon deposit of \$10.

WASHINGTON, D. C. — Julius A. Peterson, Warrenburg Miss., at \$748 submitted low bid to Treasury Department for painting the plaster in the U. S. Post Office at Boulder, Colo. Complete list of bids will be published shortly.

WASHINGTON, D. C. — Until Aug. 10, 2 P. M., bids will be received by Treasury Department for furnishing and installing interior lighting fixtures in the U. S. post office at San Jose, Calif. Plans and specifications available from above office.

WASHINGTON, D. C. — As previously reported, Julius A. Peterson, Warrenburg, Miss., at \$748 submitted low bid to Treasury Department Department for painting the plaster in the U. S. Post Office at Boulder, Colo.
 Following bids received
 Julius C. Peterson, Warrenburg, Mo. \$ 748
 Arthur M. Glenden, Chicago..... 883
 E. P. Blair, Colorado 1450
 Bids being held under advisement.

WASHINGTON, D. C. — As previously reported, K. E. Parker Co., 135 South Park, San Francisco, at \$95,107 submitted low bid to the Treasury Department, for construction of the U. S. Post Office at Marshfield, Oregon. Will be a two-story and basement Class A structure, 112x65 feet, with brick exterior. Johnson & Wallwork, U. S. Bank Bldg., Portland, Oregon, architect. Following is the complete list of bids received:

- (1) Granite Steps (add);
- (2) Stone Steps (add);
- (3) Brick Facing (add);
- (4) Split Wood Block Flooring (add)

K. E. Parker Co., S. F.....	\$ 95,017
(1)	2,750
(2)	509
(3)	200
(4)	400
George Isackson, Portland.....	\$ 95,706
(1)	2,500
(2)	120
(3)	320
(4)	500
L. H. Hoffman, Portland.....	\$ 99,767
(1)	2,415
(2)	—
(3)	200
(4)	—
Western Constr. Co., Seattle.....	\$104,100
(1)	2,350
(2)	—
(3)	475
(4)	—
Wm. Wills, Seattle.....	\$109,800
(1)	2,800
(2)	3,800
(3)	600
(4)	1,200

A. F. Mowet, Seattle \$110,000
 (1) 2,800
 (2) 3,500
 (3) 500
 (4) 600

Murch Bros., St. Louis..... \$110,529
 (2) 2,480
 (2) 1,900
 (3) 500
 (4) 1,000

Johnson Bros., Seattle..... \$111,350
 (1) 2,672
 (2) 400
 (3) 500
 (4) 75

Schuler & McDonald, Oakland..... \$113,000
 (1) 2,000
 (2) 800
 (3) 1,500
 (4) 1,000

Pedar P. Gjarde, Seattle \$120,958
 (1) 1,500
 (2) —
 (3) 120
 (4) 75

Bids held under advisement.
WASHINGTON, D. C.—Until Aug. 11, 2 P. M., bids will be received by the Treasury Department for remodeling Resident Officers' Quarters at the U. S. Marine Hospital, Seattle, Washington. Plans and specifications available from above office and from the Medical Officer in charge at the Hospital.

WASHINGTON, D. C.—As previously reported, California Nursery Company, Niles, at \$21,890 submitted low bid to Bureau of Yards and Docks, Navy Dept., for landscaping at the U. S. Naval Air Station, Sunnyvale. Following is complete list of bids:
 California Nursery Co., Niles..... \$21,890
 W. A. Hoff Landscaping Organization, Los Altos 27,745
 Coates Nurseries, San Jose..... 29,750
 Peterson Bros., Inglewood, Cal. 40,590

WASHINGTON, D. C.—As previously reported, Walter G. Warren Company, Chicago, at \$622 submitted the low bid to Treasury Department to furnish and install lighting fixtures in the U. S. post office at Visalia, Calif. Following bids received:

W. G. Warren Co., Chicago..... \$622
 H. A. Framburg Co., Chicago 666
 E. F. Guth Co., St. Louis..... 693
 Bids held under advisement.

WASHINGTON, D. C.—V. D. Lorenzo, Santa Fe, New Mexico, at \$2,489 submitted low bid to Treasury Department for painting plaster, etc., in the U. S. Court House at Santa Fe, New Mexico. Following bids received:
 V. D. Lorenzo, Santa Fe, New Mexico \$2,480
 R. W. Lynch, Albuquerque, New Mexico 2,766
 D. C. Beggs, Santa Fe, New Mexico 2,800
 Bids held under advisement.

WASHINGTON, D. C.—As previously reported, Chas. Montague, 1111 N Highland St., Los Angeles, at \$61,258 submitted low bid to the Treasury Department for the construction of the two-story quarantine station at San Pedro for the U. S. Government. Following is complete list of bids:

- (1) add.

Chas. Montague, Los Angeles..	\$61,258
(1)	12,823
Orndorff Const. Co., L. A.....	66,600
(1)	15,000
Willard Lutz, Los Angeles.....	68,000
(1)	19,000
Robt. E. McKee, Los Angeles...	70,950
(1)	16,500
J. T. Bibb, Glendale.....	71,331
(1)	16,274
Erie Lang Const. Co., L. A.....	71,400
(1)	15,300
George Mittry, Los Angeles.....	71,900
(1)	18,500
H. Mayson, Los Angeles.....	73,600
(1)	15,700
H. M. Baruch Corp., L. A.....	75,000
(1)	25,000
J. F. Kobler, Los Angeles.....	77,867
(1)	17,642
John Strona, Romona.....	78,544
(1)	19,280
Associated Const., Inc., L. A.....	82,200
(1)	14,900

Bids held under advisement.
WASHINGTON, D. C.—Julius A. Peterson, Warrensburg, Mo., at \$2300 awarded contract by Treasury Department, for painting the plaster in the United States post office building at Tucson, Arizona.

WASHINGTON, D. C.—E. P. May Hardware Co., 469 C St. N. W., Washington, D. C., at \$82.20 submitted low bid to Treasury Department for ten Venetian blinds to be installed in the border station at San Ysidro. Proposal No. 9247. Following bids received:
 May Hdwe. Co., Washington..... \$ 82.20
 Bunnett Venetian Blind Co., Portland, Ore. 98.00
 Venetian Blind Service, Inglewood 99.36
 Bostwick Goodell Co., Norwood, Ohio 105.75
 Schatz Venetian Blind Co., Los Angeles 105.00
 Bids held under advisement.

WASHINGTON, D. C.—The Public Works Administration has allocated \$500,000 for the rehabilitation of steam gauging stations, \$25,000 was allocated to California, \$10,000 to Arizona and \$1000 to Nevada. A total of \$15,000 was held in reserve to provide later adjustments.

WASHINGTON, D. C.—The \$285,000 fund allotted to the Department of Commerce for combination of aeronautical radio facilities will be spent in 57 cities. They include Elko, Nevada; Fresno, Los Angeles, Kingman, Arizona and Winslow, Arizona.

Plans Being Completed.

POST OFFICE Cost, \$175,000
SALINAS, Monterey Co., Cal. Block
 bldg. by Lincoln, Church, How-
 ard and Allisall Sts.

One-story and basement Class B con-
 crete and brick Post Office Build-
 ing (60x160 ft.)

Owner—United States Government.
 Architect—O'Brien Bros. and W. D.
 Peuga, 333 Montgomery St., San
 Francisco.

Structural Engineer—F. W. Kellberg
 320 Market St., San Francisco.

Mechanical Engineers—Leland & Haley
 58 Sutter St., San Francisco.

Plans will be forwarded to Wash-
 ington for approval in about three
 weeks.

Preparing Working Drawings.

POST OFFICE Cost, \$81,000
LODI, San Joaquin Co., Calif.

Two-story and basement Class A
 brick and steel post office build-
 ing (60x106) flat roof, brick and
 terra cotta front, steam heating
 system, oil burner, etc.

Owner—United States Government.
 Architect—S. Heiman, 605 Market St.,
 San Francisco.

SAN YSIDRO, San Diego Co., Cal.—
 Until Tuesday, August 1, bids will be
 received by the Custodian, United
 States post office, San Ysidro, to fur-
 nish linoleum.

CUSHING, Okla.—Until 10 A. M.,
 Aug. 11, bids will be received by the
 Treasury Department, Office of the
 Supervising Architect, Washington, D.
 C., for the construction of the U. S.
 post office at Cushing. Plans may be
 obtained from the architect in Wash-
 ington upon deposit of \$20, checks to
 be made payable to the Treasurer of
 the United States. Jas. A. Wetmore,
 acting supervising architect.

CALIFORNIA—The Federal proj-
 ects approved and the funds allo-
 cated to them include the following:

Angle Island—Repairs to Wharf,
 \$3500; reroofing detention shed and
 other buildings, \$2000; interior decor-
 ating, \$2500; reinforced concrete addi-
 tion to present Chinese record vault,
 \$3500; 10 immigration customs in-
 spection buildings, \$96,000.

Point Reyes—Move diaphone, re-
 build storeroom, \$3000; reconstruct
 lightship 76, San Francisco, recon-
 struct pilot house, \$800.

San Francisco—Yerba Buena light-
 house depot extension of wharf,
 \$8500.

Los Angeles—Completing new light-
 house depot, \$61,000.

Baird—Painting plant industry
 buildings, \$300.

Fresno—Painting and extending labo-
 ratory, \$1500; Superintendent's resi-
 dence, \$4800.

Palo Alto—Plant industry labo-
 ratory building, \$500; repairs to build-
 ings, \$199; greenhouse construction,
 \$8000.

8—CLUB BUILDINGS

Additional Sub-Contracts Awarded.
ALTERATIONS Cost, \$40,000
SAN FRANCISCO, Sutter and Powell
 Streets.

Alterations to third and four floors
 of the Sir Francis Drake Hotel.

Owner—Sir Francis Drake Hotel.
 Architect—W. P. Day, Financial Cen-
 ter Bldg., San Francisco.

Lessee—Bohemian Club.

Contractor—Lindgren & Swinerton,
 Inc., 225 Bush St., San Francisco.

Refrigeration Equipment—Electric Ap-
 pliance Company.

Soundproofing—Wayland Co., Ltd.,
 583 2nd St.

Preparing Preliminary Plans.

MASONIC TEMPLE Cost, \$40,000
VISALIA, Tulare Co., Cal. South
 Locust St. and Mineral King Ave.
 Two-story Masonic Temple (60x120 ft)
 concrete exterior walls.

Owner—Masonic Temple Association.
 Architect—P. L. Dragon and C. R.
 Schmdts, Mercantile Bank Bldg.,
 Berkeley.

Preparing Plans.

CLUB Cost, \$45,000
LONG BEACH, Los Angeles Co., Cal.
 Third and Cerritos Streets.

Rebuilding club building (reinforced
 concrete construction, metal lath
 and plaster, interior plastering,
 plumbing, electric wiring, painting
 and decorating, etc.)

Owner—Ebell Club.
 Architect—Piper & Kahrs, 1224 Lin-
 den Ave., Long Beach.

Engineer—R. D. Van Alstine, 410 9th
 St., Long Beach.

Preparing Working Drawings.

MEMORIAL BLDG. Cost, \$70,000
SAN LEANDRO, Alameda Co., Calif.
 Bancroft Ave. near Estudillo.

Two-story reinforced concrete Vet-
 erans' memorial building (100x125)
 tile roof, steam heating system.

Owner—County of Alameda.
 Architect—Henry H. Meyers, Kohl
 Bldg., San Francisco.

Plans will be complete in about six
 weeks.

Contract Awarded.

SOCIAL HALL Cost, \$5000
OAKLAND, Alameda Co., Cal. No.
 914 Erush Street.

One-story social hall.
 Owner—Hellenic Community Society.
 Architect—Not Given.

Contractor—Warn Bros., 419 E. Merle
 Court, San Leandro.

9—HOSPITALS

Plans Completed.
INFIRMARY UNITS Cost, \$100,000
LOS ANGELES, Los Angeles Co., Cal.
 County Farm.

Two infirmary units and connecting
 arcade (56x150 ft.) each, reinforc-
 ed concrete construction; composi-
 tion roof, steel windows and sash,
 steam heat, concrete and linoleum
 floors, etc.

Owner—County of Los Angeles.
 Plans by William Davidson, Hall of
 Records, Los Angeles.

Bids will be asked shortly.

Contract Awarded.
ADDITION Cost, \$7343
SAN FRANCISCO, Geary Street and
 Fifth Avenue.

One- and two-story steel frame and
 brick addition to hospital for so-
 larium and X-ray Dept. (lead
 coated copper and tar and gravel
 roof, tiling, plastering, Brita
 glass, etc.)

Owner—French Hospital, Geary Street
 and Fifth Avenue.

Architect—Fabre and Hildebrand, 110
 Sutter Street.

Contractor—H. H. Larsen, 64 South
 Park Street.

11—ICE AND COLD STOR-
AGE PLANTS

SAN FRANCISCO—Bridge Builders
 155 Sansome St., San Francisco, and
 Parr Terminal Wharf, Oakland, have
 purchased from the Robertson ship-
 yards, 2517 Blanding Ave., Alameda,
 six barges in connection with the con-
 struction of the San Francisco-Oak-
 land Bay Bridge. Three of the barges
 are to be 80 ft. and three 72 ft.

SAN FRANCISCO—An additional
 \$3,000,000 block of Golden Gate Bridge

& Highway District bonds has been
 sold to a syndicate composed of Bank
 of America, Blyth & Co., Dean Witter
 & Co., and Weedon & Co. The price
 paid was \$2,800,365.

TUOLUMNE COUNTY, Cal.—M. A.
 Jenkins and J. W. Hoopes, 3560 Y St.
 and 5140 14th Ave., Sacramento, at
 \$5440 awarded contract by the State
 Highway Commission to construct a
 bridge across the Middle Fork of the
 of Sonora, consisting of one 71-foot
 steel pony truss span and one 27-foot
 steel stringer span.
 Stanislaus River, about 52 miles east

12—POWER PLANTS

LOS ANGELES, Cal.—Western Pipe
 & Steel Co., 5717 Santa Fe Ave., Los
 Angeles, and Consolidated Steel Corp.
 6500 E Slauson Ave., bidding jointly,
 apparently submitted low bid July 14
 to City Purchasing Agent to furnish
 Boulder City transmission towers. No
 totals are available at present, but
 complete bids will be published short-
 ly.

ESCONDIDO, San Diego Co., Cal.—
 The city council has voted to call an
 election to vote a \$100,000 bond issue
 to provide for the purchase or con-
 struction of an electric distributing
 system for Escondido. A date will be
 set July 18. Newbery Elec. Corp. sub-
 mitted the only bid July 5 at \$79,461,
 for constructing such a system. The
 bid was rejected. John H. Chase, Se-
 curity Title Insurance Bldg., River-
 side, consulting engineer.

13—PUBLIC BUILDINGS
FIRE HOUSES & JAILS

Preparing Working Drawings.
ADDITION Cost, \$15,000
WATSONVILLE, Santa Cruz Co., Cal.

Reinforced concrete and structural
 steel addition to Public Library,
 (40x60 feet); composition and
 shingle roofing and remodel pres-
 ent building.

Owner—City of Watsonville.
 Architect—A. W. Story, Pajaro Valley
 Bank Bldg., Watsonville.

SAN FRANCISCO—Westinghouse
 Electric Elevator Co., 166 7th St., at
 \$16,741 submitted low bid to Board of
 Trustees of the San Francisco War
 Memorial to furnish and install stage
 equipment hoists. Following bids re-
 ceived:

Westinghouse Elec. Elev. Co.	16,741
Link Belt Co.	17,900
Pacific Gear Co.	19,010
Pacific Elev. Equip. Co.	19,265

Bids held under advisement.

WATSONVILLE, Santa Cruz Co.,
 Cal.—Until August 8, 7:30 P. M., bids
 will be received by M. M. Swisher,
 City Clerk, Watsonville, for cleaning
 and removing all rust, etc., from elec-
 troliers of the City of Watsonville and
 painting same. Paint to be supplied
 by the City.

Planned.
CIVIC CENTER Cost, \$3,000,000
PORTLAND, Oregon.

Twenty-seven-story Class A Court-
 house and City Hall.

Owner—State of Oregon.
 Architect—John E. Toultellotte,
 Postal Bldg., Portland.

LOS ANGELES, Cal.—Fire Chief
 Ralph J. Scott has recommended the
 construction of new fire station, addi-
 tions and improvements to old sta-
 tions and warehouses in Los Angeles
 to cost \$520,300. The program of im-
 provements has been approved by the
 fire commission.

14—RESIDENCES

Contract Awarded.
ALTERATIONS Cost, \$—
HILLSBOROUGH, San Mateo Co., Cal.
No. 417 Fulton Road.
Remodel two-story frame and stucco residence (rearrange rooms, gas hot air heating system, painting, plumbing and electric wiring).
Owner—E. F. Gohl, Premises.
Architect—James Mitchell, 369 Pine St., San Francisco.
Contractor—C. H. Bessett Bldg. Co., 826 Walnut St., Burlingame.

Contract Awarded.
RESIDENCES Cost \$4000 each
BURLINGAME, San Mateo Co., Calif.
Oxford Road.
Two one-story frame and stucco residence.
Owner—H. B. Allen.
Architect—Not Given.
Contractor—Gordon Hess, 1446 Burlingame Ave., Burlingame.

Additional Contracts Awarded.
IMPROVE RESIDENCE Cost, \$—
ATHERTON, San Mateo Co., Cal.
Improvements to residence (painting, plumbing, roof repairs, etc.)
Owner—Louis Lurie, 333 Montgomery St., San Francisco.
Architect—Gardner Dalley, 210 Post St., San Francisco.
Marble Floors and Baths—Jos. Musto Sons-Keenan Co., 535 North Point St., San Francisco.

Sinks and Drains—Ace Sheet Metal Works, 444 Clementina St., San Francisco.
Bids are wanted on mirrors.

Contract Awarded.
RESIDENCE Cost, \$5000
SAN FRANCISCO, N Rivera St. 95 E 22rd Avenue.
One - story and basement frame and stucco residence.
Owner—Golden Gate Investment Co., 1145 Grant Ave.
Architect—C. O. Clausen, 746 46th Ave.
Contractor—O. Swanson, 35 Rockwood Street.

Contract Awarded.
RESIDENCE Cost, \$—
OAKLAND, Alameda Co., Cal. Moraga Road near Park Blvd.
Two-story frame and stucco residence (6 rooms); English style, shingle roof, wood and coal furnace, tiled bath, etc.
Owner—H. T. Hepburn.
Architect—Not Given.
Contractor—Glen Bunker, 5215 Congress Ave., Oakland.

Contract Awarded.
RESIDENCE Cost, \$10,000
ROSS, Marin Co., Cal.
Two-story frame and stucco residence (slate roof, gas heating system, hardwood floors, tiled baths, etc.)
Owner—C. F. Dedekan.
Architect—J. K. Ballantine, 137 Harlan Place, Oakland.
Contractor—Moore & Roberts, 693 Mission St., San Francisco.

Sub-Contracts Awarded.
RESIDENCE Cost, \$10,000
SAN MATEO, San Mateo Co., Cal. Baywood Park.
Two-story and basement frame and stucco residence.
Owner—Dr. Harold Groth, 2660 South El Camino Real, San Mateo.
Architect—Herbert Goodpastor, 260 California St., San Francisco, and Roseville.
Contractor—G. W. Williams Co., 315 Primrose Road, Burlingame.
Plastering—F. Sevarinsen, 929 Darien Way, San Francisco.

Cement and Driveway—H. E. Casey Co., San Mateo.
Painting—George Ames, Burlingame.

Owner Taking Bids.
RESIDENCE Cost, \$—
PALO ALTO, Santa Clara Co., Cal.
Two-story and basement frame and siding residence (Colonial Type); (9 rooms and 3 baths) wood shingle roof, gas warm air heating system, tiled baths, hardwood floors, etc.
Owner—Mrs. Anna B. Skinner, Palo Alto.
Architect—Douglas D. Stone, 110 Sutter St., San Francisco.

Low Bidder.
RESIDENCE Cost, \$—
MENLO PARK, San Mateo Co., Cal.
One-story frame and stucco residence (five rooms).
Owner—Mr. Knight, Private plans.
Low Bidder—Aro & Okerman, Box 433, Palo Alto, at \$3300.

Contract Awarded.
RESIDENCE Cost, \$—
REDWOOD CITY, San Mateo Co., Cal. 234 Hopkins Avenue.
One-story frame and stucco residence (4 rooms).
Owner—Carl K. Mable, 243 Sansom St., Redwood City.
Architect—Not Given.
Contractor—E. Steinegger, 371 Alameda St., Redwood City.

Plans Being Figured—Bids Close July 24th.
RESIDENCE Cost, \$3500
SALINAS, Monterey Co., Calif.
One-story frame and stucco residence (5 rooms) shingle roof, gas heating system, hardwood floors, etc.
Owner—O. L. Eckman.
Architect—Charles Butner, Glikbarg Bldg., Salinas.

Plans Being Figured—Bids Close July 24th.
RESIDENCE Cost, \$4000
SALINAS, Monterey Co., Calif.
One-story frame and stucco residence (6 rooms) shingle roof, gas heating system, hardwood floors, etc.
Owner—James Force.
Architect—Charles Butner, Glikbarg Bldg., Salinas.

Additional Sub-Contracts Awarded.
RESIDENCE Cost, \$5800
BERKELEY, Alameda Co., Cal. San Miguel at Santa Rosa.
Two-story and basement frame and stucco residence (8 rooms and 2 baths, tile and composition roof, hardwood floors, tiled baths, etc.)
Owner—C. C. Bradford.
Architect—Hardman & Russ, Berkeley Bank Bldg., Berkeley.
Contractor—C. M. Norgrove, 2220 Roosevelt St., Berkeley.
Finish Hardware—Sunset Hardware Co., 2104 Shattuck Ave., Oakland.
Finish Cement Work—Schnoor Bros., 6016 Claremont Ave., Oakland.
Sash and Doors—Western Door & Sash Co., 5th and Cypress Sts., Oakland.

Sub-Contracts Awarded.
RESIDENCE Cont. Price, \$6630
PALO ALTO, Santa Clara Co., Calif.
Two-story frame and stucco residence (6 rooms, 2 baths) tile roof, gas heating system, hardwood floors, tiled baths, etc.
Owner—H. S. Clickford.
Architect—Birge M. Clark, 310 University Ave., Palo Alto.
Contractor—R. C. Knight, Mt. View.
Brick Work—B. Anderson, Mt. View.
Mill Work—Pacific Mfg. Co., Santa Clara.
Heating and Sheet Metal—Stanford Sheet Metal Works, Palo Alto.

Plastering—Alberson.
Plumbing—Christiansou & Anderson, Palo Alto.
Tile Work—Art Tile & Mantel Co., 221 Oak St., San Francisco.
Foundations are being poured.

Contract Awarded.
RESIDENCE Cost, \$5000
OAKLAND, Alameda Co., Cal. Broadmoor Park.
Two - story and basement frame and stucco residence (8 rooms and 3 baths) Mexican style, tile roof.
Owner—M. A. Barr.
Architect—Charles McCall, 837 Santa Ray St., Oakland.
Contractor—H. S. Shain, 54 Arlette St., Hayward.

Contract Awarded.
RESIDENCE Cost, \$5000
SAN FRANCISCO, SW Theresa 280 NW Mission St.
One - story and basement frame and stucco residence.
Owner—M. Leichvaller, 49 Theresa Street.
Architect—Not Given.
Contractor—J. Ragni, 443 Bellevue Ave., Daly City.

LONG BEACH, Los Angeles Co., Cal.—The Long Beach Council Public Works Committee will probably include in the city's Federal aid program \$500,000 for constructing a new library in Lincoln Park to replace the structure damaged by the recent earthquake.

COMPTON, Los Angeles Co., Cal.—A building program involving the expenditure of \$1,500,000 will be submitted to the Compton city council this week. Sponsors of the movement will ask the council to approve the program and submit formal application to Washington for funds. Proposed building projects include: Rebuilding quake-damaged schools, \$400,000; post office, \$125,000; city hall \$200,000; civic center and patriotic hall, \$200,000; power plant, \$150,000.

SAN FRANCISCO—Ira W. Coburn, 2084 Market St., at \$930 submitted low bid to Trustees of the San Francisco War Memorial for hardwood flooring in Room No. 1 in the Veterans' Building, Civic Center. Following bids reselved:
Ira W. Coburn.....\$930.00
Royal Floor Co..... 940.00
H. F. Kay 950.00
Regal Floor Co. (substitute bid)..566.00
Oak Floor Co. (substitute bid).. 667.50

Additional Sub-Contracts Awarded.
JAIL Cont. Price, \$359,953
SNEATH RANCH, San Mateo County. Seven-story men's jail building and 2-story women's jail bldg. (Class B reinforced concrete construction tar and gravel roof, concrete floors, mastic finish in cell block, steel cells, steel sash, steam heat, ventilating system, laundry, kitchen, sewage disposal plant, farm group).
Owner—City and County of San Francisco.
Architect—Albert F. Roller, Crocker First National Bank Bldg., and Dodge Riedy, Pacific Bldg., San Francisco.
Contractor—MacDonald & Kahn, Financial Center Bldg., San Francisco.

Painting—D. Zellnsky, 165 Grove St., San Francisco.
Steel Windows—Soule Steel Co., 1750 Army St., San Francisco.
Hollow Metal Work—Forderer Conlce Works, 269 Potrero Ave., S. F.
Mastic Floors—Cordes Bros., 200 Davis St., San Francisco.

- Laundry Machinery—U. S. Hoffman Machinery Co., 1150 Mission St., San Francisco.
- Elevator—Otis Elevator Co., 1 Beach. Other awards previously reported.
- Commissioned To Prepare Plans.
CITY HALL Cost, \$10,000
MENLO PARK, San Mateo Co., Cal. Site To Be Selected.
New City Hall.
Owner—City of Menlo Park (Fannie I. Kertz, City Clerk).
Architect—A. A. Cantin, 557 Market St., and William Mooser, Monadnock Bldg., San Francisco, Associated.
- Contract Awarded.
RESIDENCE Cost, \$3000
SAN FRANCISCO.
Two-story and basement frame and stucco residence (8 rooms and 3 baths) slate roofing, gas hot air heating system, canvas walls, concrete garage, brick work, Monterey stone, leaded glass, hardwood floors, etc.)
Owner—F. A. Watkins, % architect.
Architect—Irvine & Ebbets (R. R. Irvine, architect) 2048 Market St.
Contractor—J. C. Duerner, 550 Templeton Street.
- Bids Opened.
RESIDENCE Cost, \$8000
OAKLAND, Alameda Co., Cal. Broadmoor Park.
Two-story and basement frame and stucco residence (8 rooms and 3 baths) Mexican style, tile roof.
Owner—M. A. Barr.
Architect—Charles McCall, 837 Santa Ray St., Oakland.
Contractor—H. S. Shain, 54 Arlette St., Hayward.
Following is complete list of bids:
H. S. Shain, Hayward.....\$2229
J. H. Pickrell, Alameda..... 3250
A. A. Haskell..... 9150
Chester E. Gossett, San Leandro 9150
J. R. Armstrong, Oakland..... 9173
C. W. Falk, Oakland..... 9400
Harold L. Paige, Oakland..... 9592
Booth & Williams, Oakland..... 9957
- Owner Taking Bids.
RESIDENCE Cost, \$10,000
BERKELEY, Alameda Co., Cal. Virginia and Euclid Ave.
Two-story frame and stucco residence (11 rooms and 3 baths, doctor's offices); tile roof, gas heating system, hardwood floors, tiled baths.
Owner—Dr. Horace Stare, 2510 Bancroft Way, Berkeley.
Architect—Not Given.
Following will submit bids:
Theo. H. Lapham, 546 Kenmore St., Oakland.
H. C. Prfang, 5659 Ocean View Dr., Oakland.
C. M. Norgrove, 2220 Roosevelt St., Berkeley.
J. M. Walker, 1709 Grove St., Berkeley.
- Plans Being Prepared.
RESIDENCE Cost, \$15,000
SAN FRANCISCO, Marina District.
Two-story and basement frame, stucco and brick veneer residence (8 rooms and 3 baths).
Owner—Withheld.
Architect—Clarence Tantau, 210 Post St., San Francisco.
- Contract Awarded.
RESIDENCE Cost, \$4000
COTATI, Marin Co., Cal.
One-story frame and stucco residence (5 rooms) composition shingle roof, central heating plant, hardwood floors, etc.
Owner—Not Given.
Architect—William Herbert, Rosenberg Bldg., Santa Rosa.
Contractor—Carl Shatto, Sebastopol.
- Plans Being Figured.
RESIDENCE Cost, \$—
OAKLAND, Alameda Co., Calif. Leimert Blvd.
Two-story and basement frame and stucco residence (Spanish style) tile roof, hot air heating system, hardwood floors, etc.
Owner—Withheld.
Architect—Miller & Warnecke, Financial Center Bldg., Oakland.
- Sub-Contracts Awarded.
RESIDENCE Cost, \$—
OAKLAND, Alameda Co., Cal. Wildwood Gardens.
Two-story frame and stucco residence (6 rooms) English type, hot air heating system, tiled baths, hardwood floors, etc.
Owner—Frances Levensala.
Architect—W. R. Yelland, Financial Center Bldg., Oakland.
Contractor—E. F. Woolley, 6521 Thorn Road, Oakland.
Concrete—Nat Lena, 1174 19th Street, Oakland.
Lumber—Smith Lbr. Co., 19th Avenue and Estuary, Oakland.
Mill Work—Lannom Bros. Mfg. Co., Fifth and Magnolia, Oakland.
Plumbing—Carl T. Doell, 467 21st St., Oakland.
Plastering—Herman Thorndyke, 2450 E 21st St., Oakland.
Painting—W. H. Pollard, 522 Grand Ave., Oakland.
Wiring—F. W. Parkhurst, 6432 Pinehaven, Oakland.
Oak Floors—F. C. Thrall, 3006 Santa Clara Ave., Alameda.
Tile Work—Rigney Tile Co., 3012 Harrison St., Oakland.
Roofing—W. H. Wisely, 2911 Adeline, Oakland.
- Additional Sub-Contracts Awarded.
RESIDENCE Cost, \$—
BERKELEY, Alameda Co., Cal. Cedar St. E Euclid Ave.
Two-story and basement frame and stucco residence (8 rooms).
Owner—M. W. Talbot, 2672 Hilgard Ave., Berkeley.
Architect—Not Given.
Contractor—Walter L. Broderick, 640 The Arlington, Berkeley.
Painting—W. S. Lingard & Son, 1348 McGee Ave., Berkeley.
Ornamental Iron—The Berkeley Craftsmen, 2906 Shattuck Avenue, Berkeley.
Roofing—W. L. Saxby, 4538 Fleming Ave., Oakland.
Sheet Metal—J. C. Owens Sheet Metal Works, 1612 Carlton St. Berkeley.
Other awards reported July 7.
- Contracts Awarded.
ADDITION Cost, \$—
OAKLAND, Alameda Co., Cal. No. 6221 Manoa Street.
Alterations and additions to residence (add 2 bedrooms and bath, each)
Owner—A. A. Sigwart.
Architect—Not Given.
Contractor—S. J. Bertelsen, 30 Estrella Ave., Piedmont.
Lumber—Sunset Lumber Co., 400 High St., Oakland.
Millwork—Oakland Planing Mill Co., 2nd and Washington Sts., Oakland.
Tile—Rigney Tile Co., 3012 Harrison St., Oakland.
- Sub-Bids Being Taken.
RESIDENCE Cost, \$6000
BERKELEY, Alameda Co., Cal. Sonoma Ave. W Monterey.
Two-story frame and stucco residence (7 rooms and 2 baths); shingle roof, gas heating system, hardwood floors, ornamental iron, oak trim, hardwood floors, tiled baths, etc.
Owner—Withheld.
- Plans by The. Ruegg, 1515 Tyler St., Berkeley.
Contractor—Emil Person, 1829 San Luis Road, Berkeley.
Grading—J. Catucci, 1212 18th Ave., Oakland.
Lumber—California Mill & Lumber Co., 1829 Webster St., Alameda.
Sub-bids are being taken on other portions of the work.
- Contract Awarded.
RESIDENCE Cost, \$9780
BERKELEY, Alameda Co., Cal.
Two-story and basement frame and brick veneer residence (10 rooms and 3 baths) tile roof, steam and oil burning system, tiled baths.
Owner—Professor Frederick Paxson.
Architect—E. L. Snyder, 2101 Addison Ave., Berkeley.
Contractor—A. T. Beckett, 224 Scenic Ave., Piedmont.
- Plans Being Completed.
RESIDENCE Cost, \$—
UKIAH, Mendocino Co., Cal.
One-story frame and stucco residence (5 rooms); shingle roofing, hot air furnace, hardwood floors, etc.
Owner—C. W. Handy.
Plans by Walter L. Broderick, 640 The Arlington, Berkeley.
- Contract Awarded.
RESIDENCE Cost, \$5000
VALLEJO, Solano Co., Cal. Louisiana and Marin Streets.
One-story frame and stucco residence (5 rooms); English style.
Owner—Donald Buss.
Architect—Not Given.
Contractor—Irwin H. Reimers, 565 Kennore Ave., Oakland.
Mill Work—Sunset Lumber Co., 400 High St., Oakland.
Lumber—Vallejo Lumber Co., Vallejo
- Contract Awarded.
RESIDENCE Cost, \$60,000
SEATTLE, Wash. Shore of Lake Washington, No. 154 40th Ave.
Two-story residence (16 rooms).
Owner—Mr. and Mrs. Lambert Dunbar (formerly of Hong Kong, China).
Architect—A. H. Albertson, Wilson & Richardson, Northern Life Tower, Seattle.
Contractor—Murdock & Eckman, Liggett Bldg., Seattle.
- Contract Awarded.
ADDITION Cost, \$2500
PEBBLE BEACH, Monterey Co., Cal.
Addition to residence (add studio and garages) frame construction, plaster exterior, tile roof.
Owner—F. A. Ingalls.
Architect—Williams & Wastell, 374 17th St., Oakland.
Contractor—F. C. Stolte, 3449 Laguna St., Oakland.
- Preparing Working Drawings.
RESIDENCE Cost, \$6000
BERKELEY, Alameda Co., Cal.
Two-story and basement frame and stucco residence (7 rooms and 2 baths) tile roof, gas heating system, hardwood floor, tiled baths, colored fixtures, etc.
Owner—Withheld.
Architect—Fabre & Hildebrand, 110 Sutter St., San Francisco.
Bids will be asked in about ten days
- Sub-Bids Being Taken.
RESIDENCE Cost, \$5000
BERKELEY, Alameda Co., Cal. No. 130 Brookside Drive.
Two-story frame and stucco residence (6 rooms).
Owner and Builder—Hufschmidt & Whalen, 461 Lee St., Oakland.
Architect—Dale Ford Thompson, 189 Linden Ave., Palo Alto.

Plans Being Completed.
RESIDENCE Cost, \$6500
BERKELEY, Alameda Co., Cal. San Luis Road.
 Two-story frame, stucco and brick veneer residence (6 rooms and 2 baths) wood sash, hot air heating system, oak floor floors, tiled baths, tile roof, etc.
 Owner—John Rutherford.
 Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.
 Bids will be asked in about 1 week.

Plastering Contract Re-Awarded.
ADDITIONS Cost, \$20,000
PALO ALTO, Santa Clara Co., Calif. Stanford Campus.
 Alterations and additions to 3-story frame and stucco fraternity house (add new third story, alterations and additions to first and second floors, etc.)
 Owner—Phi Delta Theta, 538 Lasuen St., Stanford University.
 Architect—W. E. Huson, 1913 Green St., San Francisco.
 Contractor—Lindgren and Swinerton, Inc., 225 Bush St., San Francisco.

Plastering contract was previously awarded to I. T. Bridges. Other awards reported July 12, 1933.

Plans Being Figured—Bids Close July 25, 7 P. M.
RESIDENCE Cost, \$—
PALO ALTO, Santa Clara Co., Cal. Crescent Park.

Two-story frame, stucco and brick veneer residence (9 rooms and 4 baths) English style; split shake Royal shingle roof, steel sash, roller screens, tiled baths, oak floors, gas furnace heating, etc.
 Owner—Mrs. Henrietta S. Young, % Architect.
 Architect—Chas. K. Sumner, Decker oak Bldg., Palo Alto.

Plans Being Figured.
RESIDENCE Cost, \$—
SAN MATEO, San Mateo Co., Calif. Baywood Park.
 One and one-half-story frame and stucco residence (7 rooms and 2 baths) tile roof, gas heating system, interior stucco and canvas, tiled baths and kitchen.
 Owner—A. L. Scott, 241 Staten St., San Mateo.
 Architect—Harold Stoner, 810 Ulloa St., San Francisco.

MODESTO, Stanislaus Co., Cal.—Modesto School District is planning extensive repairs to the schools including the Junior College during the summer vacation. Work involves painting, roof repairs, decorations, plumbing and boiler equipment, etc.

Contract Awarded.
RESIDENCE Cost, \$6000
BERKELEY, Alameda Co., Cal. No. 1741 Sonoma Street.
 Two-story frame and stucco residence (6 rooms).
 Owner—Sylvia E. Soderberg, 2218 Browning St., Berkeley.
 Plans by Theo. G. Rugg, 1515 Taylor St., Berkeley.
 Contractor—Emil Person, 829 San Luis Road, Berkeley.

Contract Awarded.
RESIDENCE Cost, \$23,000
RENO, Nevada.
 Two-story brick, stone and stucco residence (shingle roof, steel sash, ornamental iron work, oil burning heating system, electric refrigeration, tiled baths, etc.)
 Owner—Mrs. L. D. Graham.
 Architect—F. J. DeLongchamps, Gazette Bldg., Reno.
 Contractor—J. C. Dillard, 806 S Virginia St., Reno.

Contract Awarded.
RESIDENCE Cost, \$9933
LOS ALTOS, Santa Clara Co., Calif. Manuella Road near Arastradero.
 Two-story frame and stucco residence (7 rooms).
 Owner—Jos. A. Bien, 209 Post Street, San Francisco.
 Plans by Mr. Goodenough.
 Contractor—Wells P. Goodenough, 310 University Ave., Palo Alto.

Contract Awarded.
RESIDENCE Cost, \$5000
BERKELEY, Alameda Co., Cal. Vine and Shattuck Avenue.
 Two-story frame and stucco residence and store (5 rooms and 2 stores); part tile and composition roof, gas heating system, hardwood floors, etc.
 Owner—George Eliw, 6 Wildwood Ave. Berkeley.
 Architect—Not Given.
 Contractor—Leslie Dawe, 1629 Telegraph Ave., Oakland.

Plans Being Figured—Bids Close July 25.
RESIDENCE Cost, \$8500
PIEDMONT, Alameda Co., Cal. Wildwood Avenue.
 Two-story and basement frame and stucco residence (8 rooms); tile roof, hot air heating system, wood sash, hardwood floors, etc.
 Owner—Withheld.
 Architect—Miller & Warnecke, Financial Center Bldg., Oakland. (2185) 14

July 19, 1933
 Plans Being Figured—Bids Close August 1
RESIDENCE Cost, \$8500
PIEDMONT, Alameda Co., Cal. Wildwood Gardens.
 Two-story and basement frame and stucco residence (8 rooms) Spanish type, tile roof, gas hot air heating system, hardwood floors, wood sash, etc.
 Owner—Withheld.
 Architect—Miller & Warnecke, Financial Center Bldg., Oakland.

Sub-Contracts Awarded.
RESIDENCE Cost, \$10,000
ROSS, Marin Co., Cal.
 Two-story frame and stucco residence (slate roof, gas heating system, hardwood floors, tiled baths, etc.)
 Owner—C. F. Dedekant.
 Architect—J. K. Ballantine, 137 Harlan Place, Oakland.
 Contractor—Moore & Roberts, 693 Mission St., San Francisco.
Tile and Plumbing—Scott Plumbing Co., 243 Minna St., San Francisco.
Plastering—William Berwick.
Sheet Metal—A. Knowles, San Rafael.
Brick Work—Al. Ende, Mill Valley.
Mill Work—Brannan Street Planing Mill, 560 Brannan St., S. F.

Contract Awarded.
RESIDENCE Cost, \$5000
SAN FRANCISCO, N Kensington Way 55 W Merced St.
 One-story and basement frame and stucco residence.
 Owner—G. J. Zech, 333 Pine St., San Francisco.
 Architect—W. G. Merchant, Russ Bldg., San Francisco.
 Contractor—J. Prout, 515 Magellan Ave., San Francisco.

Low Bidder.
RESIDENCE Cost, \$6000
MONTEREY, Monterey Co., Cal. Peninsula Country Club.
 One-story and basement frame and stucco residence (7 rooms and 3 baths) tile roof, electric heat, etc.
 Owner—W. B. Gibson.
 Architect—W. O. Raiguel, Hotel Del Monte, Del Monte.
 Low Bidder—H. C. Geyer, 946 Hellam St., Monterey.

15—SCHOOLS

BAKERSFIELD, Kern Co., Cal.—Kern County Union High School District will make application for funds in the amount of \$450,000 with which to finance a school building program. The following improvements are proposed: New auditorium, \$300,000; joining together of the music and junior college buildings, providing at least four additional classrooms, \$35,000; remodeling of present auditorium into a library, \$30,000; remodeling of present library into two classrooms, \$15,000; combined assembly and gymnasium buildings at Shafter and at McFarland, \$35,000 each or a total of \$70,000. Also under consideration, but not projected in this program, is the construction of a shop building on 14th St., west of F St., and the construction of a large classroom building on the block where the old high school now stands.

Plans Being Figured—To Close July 29th, 8 P. M.
SCHOOL Cost, \$—
TULE LAKE, Siskiyou Co., Cal.
 One-story wood frame school (four classrooms, office, etc. (75x60 feet; hot air heating system, coal or wood burner, maple floors, wood shingle roof, wood exterior and interior, sheet rock with plaster finish, wood sash, blackboards and shades, septic tank, fixtures, etc.
 Owner—Siskiyou Union High School District, Yreka.
 Architect—A. O. Johnson, Sir Francis Drake Hotel, San Francisco.
 Engineer—Woodworth Wethred, Sir Francis Drake Hotel, San Francisco.

On previous bid opening lowest bid was submitted by J. P. Brennan, Redding, at \$13,200. New bids now being received on Plan No. 1, only.
 Plans available from the architect and engineer, L. S. Newton, county superintendent, Court House, Yreka; A. G. Grant, high school supt., Park Hotel Bldg., Mt. Shasta, and from G. W. Martin, Tule Lake, upon deposit of \$10. Bond in the amount of 10% of amount bid required with bid.

To Ask Bids Shortly.
HEATING PLANT Cost, \$7000
KING CITY, Monterey Co., Calif.
 Steam heating plant for grammar school.
 Owner—King City Union Grammar School Dist. (J. A. Carison, chairman).
 Engineer—George E. Atkins, Hobart Bldg., San Francisco.

Preparing Plans.
HIGH SCHOOL Cost, \$314,000
CORVALLIS, Oregon.
 Three-story brick high school (17 classrooms, laboratory facilities, auditorium to seat 1,000; gymnasium with galleries to seat 1000).
 Owner—Corvallis High School Dist.
 Architect—Whitehouse, Stanton and Church, Railway Exchange Bldg., Seattle.

Preparing Preliminary Plans.
SCHOOL Cost, \$125,000
HUNTINGTON BEACH, Orange Co., Calif.
 Two-story reinforced concrete school building (30 classrooms) rehabilitation of home economics and cafeteria building, etc.
 Owner—Huntington Beach Elementary School District.
 Architect—Allison & Allison, Edison Bldg., Los Angeles.

Contract Awarded.
REPAIRS Cont. Price, \$2786
PITTSBURG, Contra Costa Co., Cal.

Repairing, remodeling and installation of additional units of heating in Pittsburg primary school (steam heating plant).

Owner—Pittsburg School Dist. (Armand Stow, clerk).

Mechanical Engineer—Leland & Haley 58 Sutter St., San Francisco.

Contractor—T. J. Kennedy, 1032 Arlington Way, Martinez.

Following bids received:

T. J. Kennedy, Martinez.....	\$2786
W. H. Picard, Oakland.....	2843
Scott Co., Oakland.....	3086
Pacific Heat & Vent. Co., Oakland.....	3240
O'Mara & Stewart, S. F.....	3141
Geo. C. Bell, Oakland.....	3469
J. A. Nelson, San Francisco.....	3470
Carl T. Doell, Oakland.....	3570
F. W. Snook, San Francisco.....	3630
Herman Lawson, San Francisco.....	3750

SAN FRANCISCO—Dunham Carrigan & Hayden, Kansas and Division Streets, awarded contract by City Purchasing Department for sheet metal shop supplies for the school department.

RICHMOND, Contra Costa Co., Cal.—Carl Lamble, 533 Barrett St., Richmond, at \$864 awarded contract by Richmond Union High School District for painting window sash and frames in the Richmond High School Building, located at 23rd and Tulare Sts. Only other bid was submitted by J. J. Burdon, Richmond, at \$1,153.

Preparing Plans.
SCHOOL BLDGS. Cost, \$16,000
SANTA YNEZ VALLEY, Santa Barbara Co., Cal.

Remodel school and auxiliary buildings (enlarge assembly room, construct shop and locker building; addn. to domestic science room).

Owner—Santa Ynez Valley Union High School District.
Architect—E. K. Lockard, 117 E De la Guerra, Santa Barbara.
Funds are available.

SAN FRANCISCO—Anderson & Ringrose, 320 Market St., at \$8192 submitted low bid to Department of Public Works for repairing fire damage to the Fremont School. Following bids received:

Anderson & Ringrose.....	\$ 8,192
O. Monson.....	8,600
Val. Franz.....	9,931
A. H. Vogt Company.....	10,329
F. C. Amoroso & Sons.....	10,994
H. L. Petersen.....	11,373
MacDonald & Kahn.....	11,439
J. Harold Johnson.....	11,497
Commercial Constr. Co.....	11,950
Leo Epp.....	11,990

Bids held under advisement.

Contract Awarded.

SCHOOL ADDN., ETC.

Cont. Price, \$3983
REDWOOD CITY, San Mateo Co.

Alterations and additional to elementary school (frame and stucco construction) add two classrooms

Owner—Redwood City School District (C. G. Uhlenberg, Clerk).

Architect—Martin Rist, Phelan Bldg., San Francisco.

Contractor—H. H. Larsen, 64 South Park, San Francisco.

H. H. Larsen, San Francisco.....	\$3983
Gus. Waller, Redwood City.....	4092
C. L. Wold, San Francisco.....	4377
Barrett & Hilp, San Francisco.....	4456
C. Steingel.....	4673
H. L. Petersen, San Francisco.....	4844
Thomas Gesso, Redwood City.....	4994

SAN FRANCISCO—Until July 28, 11:30 A. M., bids will be received by S. J. Hester, Chief Deputy Director, Board of Public Works, City Hall, for painting the following schools:
Sarah B. Conper School, Lombard St.

near Jones So. Est. cost, \$1200.
Monroe School, Excelsior and Lisbon Sts. Est. cost, \$1750.
Excelsior School, Excelsior and Paris Sts. Est. cost, \$1200.
Franklin School, Eighth and Harrison Sts. Est. cost, \$2300.

16—BANKS, STORES AND OFFICES

Contact Awarded — Sub-Bids Being Taken.

MARKET Cost, \$17,000
SAN FRANCISCO. Polk Street 100 S Vallejo Street.

One-story and mezzanine floor reinforced concrete market.

Owner—Samuel Levin, 25 Taylor St., San Francisco.

Engineer—H. C. Britt, % Henslee Corporation.

Lessee—Henslee Corp., 366 17th Street, Oakland.

Contractor—H. L. Petersen, 731 Treat Ave., San Francisco.

Contract Awarded.
ALTERATIONS Cost, \$2000

OAKLAND, Alameda Co., Cal. SE Thirteenth Ave. and E-14th St.

Alterations for beer tavern (work involves glass work, carpentry, plastering, painting, etc.)

Owner—Derby Estate.
Architect—Not Given.

Contractor—J. B. Peterson & Son, 4021 Agua Vista Ave., Oakland.

Plastering—Frank Stevens, 265 Amherst Ave., Berkeley.

Contract Awarded.
REMODEL BLDG. Cost, \$4000

PALO ALTO, Santa Clara Co., Calif. 205 University Avenue.

Remodel store building.

Owner—The Capital Co., 625 Market St., San Francisco.

Plans by Engr. Dept. of Owner.
Contractor—Unit Bilt Fixture Company, premises.

Contract Awarded.
REMODEL FRONT Cost, \$2465

OAKLAND, Alameda Co., Calif. 473 14th Street.

Remodel front of store (tile work).

Owner—Lillian D. Powers, New York.

Architect—W. G. Corlett, Bank of American Bldg., Oakland.

Contractor—Rigney Tile Co., 3012 Harrison St., Oakland.

Sub-Contracts Awarded.
BUILDING Cost, \$15,000

ALAMEDA, Alameda Co., Cal. No. 1517 Park Street.

Two-story and mezzanine floor brick building (50x70 ft.) tar and gravel roof.

Owner—Alameda Times-Star.

Private Plans.
Contractor—Ben Kopf, 845 Pacific Ave., Alameda.

Rough Lumber—Sunset Lumber Co., 400 High St., Oakland.

Cement Work—Nat Lena, 1174 19th St., Oakland.

Roofing—Western Roofing Co., 24th & Poplar Sts., Oakland.

Structural Steel—Herrick Iron Works 18th and Campbell Sts., Oakland.

Plastering—J. D. Tyler, Oakland.

Glass—W. P. Fuller Co., 259 10th St., Oakland.

Plumbing—A. Petitjean, 1649 11th Ave., Oakland.

Terra Cotta—Gladding-McGean Co., 22nd and Market Sts., Oakland.

Mill Work—Atkinson Mill & Mfg. Co., 2985 Chapman St., Oakland.

Linoleum—Anderson Carpet House, 520 13th St., Oakland.

Tile Work—Rigney Tile Co., 3021 Harrison St., Oakland.

Plans Being Figured.
REMODEL STORE Cost, \$35,000

Remodel store building (new store fronts, interior changes and new fixtures).

Owner—Feltman & Curme Shoe Co. of Chicago.

Architect—Herman Kanner, % Standard Cabinet Works, 1822 E Washington St Los Angeles.

Sprinkler Contract Awarded.
STORE Cost, \$25,000

BERKELEY, Alameda Co., Cal. Telegraph and Bancroft Avenues.

One-story reinforced concrete store building (three stores) gas-steam heating system, composition roofing, etc.

Owner—Anna Weeks.

Architect—Stafford Jory, 1370 Euclid Ave., Berkeley.

Contractor—Fred Westlund, 625 40th St., Oakland.

Sprinkler System—Grinnell Company of the Pacific, 2230 Peralta St., Oakland.

Contract Awarded.
ALTERATIONS Cost, \$5000

SACRAMENTO, Sacramento Co., Cal. No. 1220 K Street.

Remodel interior of store for market.

Owner—Lynn & O'Neill, 14th and O Sts., Sacramento.

Private Plans.
Contractor—Siller Bros., 1614 Third St., Sacramento.

Fixtures—Edwards Display Case Co., Del Paso Blvd., Sacramento.

Low Bidder.
ALTERATIONS Cost, \$5000

ALAMEDA, Alameda Co., Cal. Park St. and Santa Clara Avenue.

Alterations to one-story frame store building.

Owner—E. M. Shaw.

Architect—H. A. Minton, 525 Market St., San Francisco.

Low Bidder—Leslie E. Alley, 1621 Encinal Ave., Alameda.

Contract Awarded.
ALTERATIONS Cost, \$1825

FRESNO, Fresno Co., Cal. 1048 Fulton Street.

Alterations to store.

Owner—Moss Stores, Inc., 902 Fulton St., Fresno.

Architect—Not Given.
Contractor—H. P. Nelson, 822 S 5th St., Fresno.

Planned.
BEER GARDEN Cost, \$—

LIVERMORE, Alameda Co., Cal. First and Maple Streets.

Beer garden.

Owner—Geo. Coughlan, Livermore.
Architect—Not Given.

Contract Awarded — Sub-Bids Being Taken.

STORE Cost, \$50,000

SAN FRANCISCO. No. 1041 Market Street.

Seven-story Class C steel and concrete store.

Owner—Weinstein Co. (Isidor Weinstein, President), 1041 Market St., San Francisco.

Architect—Hyman & Appleton, 68 Post St., San Francisco.

Engineer—H. Rosenthal, 821 Market St., San Francisco.

Contractor—Jacks & Irvine, Call Bldg., San Francisco.

Contract Awarded.
STORE Cont. Price, \$4231

SAN FRANCISCO. Chestnut Street N Malloreca Way.

One-story reinforced concrete store (25x70 feet) tar and gravel roof, concrete floors, etc.

Owner—Martin Stelling, 155 Montgomery St., San Francisco.

Architect—Bertz, Winter & Maury, 681 Market St., San Francisco.

Contractor—Young & Horstmeyer, 461 Market St., San Francisco.

July 15, 1933

Bid Opening Postponed Until July 20, 8 P. M.
OFFICE Cost, \$2000
SANTA CLARA, Santa Clara Co., Cal. One-story frame and stucco office bldg. (shingle roof, plaster exterior, Oregon pine floors, etc.)
 Owner—Santa Clara Pear Assn.
 Architect—W. E. Higgins, 19 N. Sec-one St., San Jose.

Contract Awarded.
MARKET Cost, \$7500
SAN FRANCISCO. Ocean Ave. near Miramar Street.
 One-story Class C concrete market (tar and gravel roofing, concrete and tile flooring, galvanized iron marquise, tile bulkhead, terra cotta front, steel sash, etc.)
 Owner—C. F. Morbil.
 Architect—Wm. H. Toepke and Otto G. Hinterman, associate architect, 74 New Montgomery Street.
 Contractor—H. H. Larsen Co., 64 So. Park Street.

Plumbing and Heating Contracts Awarded.
ALTERATIONS Cost, \$20,000
OAKLAND, Alameda Co., Cal. 12th and Washington Streets.
 Alterations to store building.
 Owner—Lerner Stores, Inc., New York City.
 Architect—Miller & Warnecke, Financial Center Bldg., Oakland.
Plumbing and Heating—Carl T. Doell 467 21st St., Oakland.
 As previously reported, structural steel concrete awarded to Herrick Iron Works, 18th and Campbell Sts., Oakland.

Bids Opened.
STORES & OFFICES Cost, \$25,000
SUSANVILLE, Lassen Co., Calif. Two-story reinforced concrete store and office building (140x25 ft.) tar, gravel and tile roof, steam heating system, oak floors, etc.
 Owner—Mr. Dedeck.
 Plans by Paul J. Moscarella, Saratoga.
 Low Bidder—E. A. Hathaway, 1046 S 7th St., San Jose.
 Following bids received:
 E. A. Hathaway, San Jose.....\$21,672
 C. L. Wold, San Francisco..... 21,845
 Theo. Johanns, San Francisco..... 22,000
 L. Case, Los Gatos..... 23,740
 J. J. Woodward, Susanville..... 26,700
 General contract does not include plumbing, heating, sheet metal or electrical work for which bids will be asked in one week.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$3000
OAKLAND, Alameda Co., Cal. No. 471 Fourteenth Street.
 Alterations to store.
 Owner—Lillian Delger Powers.
 Architect—Not Given.
 Contractor—Kulchar Co., 731 E-10th St., Oakland.
Electric—Scott-Buttner Electric Co., Grand Ave., Oakland.
Painting—Jos Turgeon, 512 E-12th St., Oakland.
Glass—W. J. Fuller & Co., 589 10th St., Oakland.
Iron Work—Anderson Sheet Metal Works, 3103 San Pablo Ave., Oakland.

Supervising Architect Selected.
STORE Cost, \$80,000
REDWOOD CITY, San Mateo Co., Cal. Broadway and Hamilton Aves.
 One-story, mezzanine floor and basement steel and brick or reinforced concrete store (60x150 ft.)
 Owner—David J. Davis, 500 Chelmsford Road, Hillsborough.
 Plans by Engineering Department of Lessee.

Supervising Architect—G. Albert Lansburgh, 140 Montgomery St., San Francisco.
 Lessee—Montgomery Ward Co., Chicago, Illinois.
 Agent—Martin Realty Co., 1461 Burlingame Ave., Burlingame (Mr. Jerome Draper in charge).

SAN FRANCISCO—Until July 26, 1:45 P. M., informal bids will be received by S. J. Heister, Chief Deputy Director, Board of Public Works, City Hall, for refinishing floors in the Superintendent's office at the San Francisco Hospital. On previous bid opening only one bid was submitted by the Continental Carnava Corp., 7 Front St., at \$180.

17—THEATRES

Sub-E.d.s Wanted.
ALTERATIONS Cost, \$30,000
OAKLAND, Alameda Co., Cal. No. 1430 Broadway.
 Alterations to Century Theatre.
 Owner—Golden State Theatre Corp., 25 Taylor St., San Francisco.
 Architect—Meyer & Jorgensen, 525 Market St., San Francisco.
 Contractor—A. J. Hopper, 1769 Pleasant Valley Road, Piedmont.
 Sub-ords are being taken on ornamental iron, plastering, encaustic tile work and plumbing.

Contract Awarded.
COOLING PLANT Cost, \$10,000
BAKERSFIELD, Kern Co., Cal. 2001 H Street.
 Ice cooling plant for theatre.
 Owner—Fox West Coast Theatres.
 Plans by Owner.
 Contractor—Gundlach Plumbing Company, 2324 Chester Ave., Bakersfield.

18—WHARVES & DOCKS

Plans To Be Prepared.
HARBOR AND POOL Cost, \$—
MARTINEZ, Contra Costa Co., Cal. Yacht harbor and swimming pool.
 Owner—City of Martinez.
 Architect—E. Geoffrey Bangs, 411 30th St., Oakland.

ELWOOD, Santa Barbara Co., Cal.—Application has been made by the Pacific Western Oil Co., 417 S Hill St., Los Angeles, for War Department permission to construct a lateral pier on submerged lands in the Pacific Ocean, at Elwood, to extend 465 feet in length and 16 feet in width from a point approximately 1500 feet from mean high tide line at right angles from pier constructed under State Lease No. 92.

OAKLAND, Alameda Co., Cal.—Architects Kent & Hass, 525 Market St., San Francisco, are receiving electrical bids from a selected list of contractors in connection with the construction of the new boat and train concourses for the Key Terminal Railway Company, Ltd., at the Key Pier, Oakland. Bids on painting, plumbing and interior metal partitions will be taken within one week. Electrical bids will be opened July 21.

KERN COUNTY, Cal.—Until July 31 2 P. M. (postponed from July 24) bids will be received by E. E. Wallace, District Engineer, State Highway Commission, State Highway Building, Fresno, to construct reinforced concrete piers about 5 miles north of Bakersfield at Oil Junction. Specifications obtainable from above office. Certified check 10% required with bid.

19—MISC. CONSTRUCTION

SAN FRANCISCO.—Until August 9, 2 P. M., bids will be received by the Treasury Department, Washington, D. C., for retaining walls, roadways, etc. at the U. S. Marine Hospital, San Francisco. Plans and specifications obtainable from above office and from the Custodian at the Building, San Francisco.

LOS ANGELES, Calif.—Until 11 A. M., July 23, bids will be received by A. J. Holm, Los Angeles City Purchasing Agent, 107 City Hall, to furnish and deliver to Water & Power Dept., f.o.b. locations shown below, portable steel frame and galvanized iron buildings under Spec. No. 3171, as follows:

- (1) One only warehouse bldg., 30x60 feet in area with 10-ft. side wall, double pitch roof, roof monitor and sectional steel partitions enclosing office room, 12x14 ft., optional deliveries as follows:
 - (a) f.o.b. cars or Dept.'s trucks at bidders' plant or shipping point;
 - (b) f.o.b. cars, Yermo, Calif.;
 - (c) f.o.b. contractor's trucks, Yermo.
 - (2) One only garage bldg., 30x60 ft. in area, with side walls of such height as to give 15-ft. clear height for large sliding doors; roof to have double pitch without monitor, optional deliveries as follows:
 - (a) same as Item (1a);
 - (b) same as Item (1b);
 - (c) same as Item (1c).
- Both buildings are to be equipped with steel sash and wire glass. The Department will furnish floors.

Metal Contract Awarded.
MAUSOLEUM Cost, \$15,000
LAWNDALE, San Mateo Co., Calif. Interior work in mausoleum (work involves cast stone, marble, ornamental iron, ceiling lights, etc.)
 Owner—Olivet Memorial Park Assn.
 Architect—Resing & McGuinness, 488 Pine St., San Francisco.
Metal work for Ornamental Ceiling—National Orn. Iron & Bronze Co., 434 9th St., San Francisco.
 As previously reported, marble contract awarded to American Marble Co. South San Francisco; cast stone to Western Artificial Stone Co. 666 Brannan St., San Francisco.

SAN FRANCISCO.—A. W. Pike, 715 Mission St., at \$6.30 each, submitted low bid to Purchasing Department for door closers for the School Department. Following bids received:
 A. W. Pike, \$6.30; 15 days.
 Dunham, Carrigan & Hayden, \$6.32; 15 days; alternate, \$6.24; 21 days.
 National Locksmith, \$6.47; 20 days.
 Sloss & Brittain, \$6.55; 10 days.
 Marshall & Newell, \$6.56; 20 days.
 Baker-Hamilton & Pacific, \$6.60; 40 days.
 Palace Hardware Co., \$7.07; 30 days.
 E. D. Jones, \$7.97; 25 days.
 Bids held under advisement.

WASHINGTON, D. C.—The following have procured plans for the purpose of submitting bids to the Treasury Department on August 9 for retaining walls, roadways, etc. at the U. S. Marine Hospital, San Francisco: Upchurch Const. Co., Bell Building, Montgomery, Ala.
 E. E. Rabalais & Son, Bunkie, Ala.
 Wm. Wilby, 1112 Dallas Ave., Selma, Ala.
 John Riess, 807 New Orleans Bank Bldg., New Orleans, La.
 C. E. King, 1009 Wertland Street, Charlottesville, Va.
 H. H. King, 701 West St., Charlottesville, Va.

Universal Const. Co., 228 Medical Bldg., Ft. Wayne, Ind.
 Highbridge - International Co., 1526 Sedgwick Ave., New York City.
 Tioga Contracting Co., 921 W Tioga St., Philadelphia, Pa.
 Smythe & Co., 1416 F St., N. W., Washington, D. C.
 Theriault Contracting Co., 534 East Johnston St., Philadelphia.
 Noyes Roach & Co., Beatrice, Nebr.

SAN FRANCISCO.—Pacific States Const. Co., Call Bldg., at \$15,813 was awarded contract June 24 by Constructing Quartermaster, Fort Mason, to grade, construct roads, relay water line, construct concrete wall, etc., at San Francisco National Cemetery, Presidio of San Francisco.

It was reported in our issue of July 19 that these bids were rejected, which was in error. Complete bids published

WESTERN STATES—Federal allotments of federal public works funds for reclamation projects in the west, announced July 18, by the Washington office of the Secretary of the Interior are:

Boulder canyon—\$28,000,000; machinery, \$10,000,000.
 Owyhee—\$10,000,000.
 Vale—\$1,000,000.
 Ellensburg—\$60,000.
 Ronald—\$400,000.

CALIFORNIA State.—The following projects approved by Federal authorities and funds allocated:

Fresno, Los Angeles and Oakland—Combining radio facilities to provide standby equipment at 57 places in the U. S.; cost, \$285,000.

Angel Island—Repair wharf, \$3500; alter and renew laundry equipment, \$6300; plumbing work and renew pipe lines, \$2500; engine repairs to boats, \$3000; oil burner for hospital, \$900.

International Boundary—Reset and repair boundary monuments, San Diego and El Paso, \$1500.

Point Arguello—Rebuild light station tower, \$2000; improve fog signal, \$4500.

San Francisco—Additional lighted buoys, \$10,464; S. F. Bay—additional San Joaquin river lights, \$14,699; convert lightship 83 to oil burner, \$16,000; replace steam fog signal east Brother light station, \$12,000; replace boilers in lightship 83, \$26,000; general repairs to lighthouse tenders Sequoia and Lupin, \$12,400; extend Yerba Buena wharf, \$8500.

Santa Barbara—Aids for Navy in Southern California, \$25,000.

Table Bluff and Point Cabrillo—Electricity for two light stations, \$11,100.

Yerba Buena Island and San Luis Obispo—Improve fog signals, recondition wharf and convert minor lights \$18,650.

Punta Gorda—Improve light station road, \$25,500.

Baird—Concrete lining for irrigation ditches and gates, \$1500; drainage construction, \$1200; plant shelters and irrigation equipment, repairing, enlarging excavating, grading, \$2600.

PETALUMA, Sonoma Co., Calif.—Vogensen Const. Co., Petaluma, at \$1-995 submitted bid for work complete to City of Petaluma Park Commission for the construction of a tennis court in Wickersham Park in Petaluma. Only other bids received was submitted by the Cline Electric Works, Petaluma, at \$425 for electrical work only. Bids were rejected and whether new bids will be asked or work done on a day's labor basis is not determined at this time.

Bids Opened.
RECREATION CENTER Cost, \$5000
RICHMOND, Contra Costa Co., Calif.
 Nichol Park.

Two one-story frame and stucco recreation bldgs. (men's unit, 27x35; women's unit, 21x27.6) locker and shower rooms, toilets, etc.; tile roof, concrete floors (Spanish style).

Owner—City of Richmond.
 Plans by Engr. Dept. of Owner.
 Following bids received:

General Work
 Tandy & Theis, Richmond.....\$4,550
 F. C. Hosking..... 5,091
 R. F. Johnson..... 5,095
 E. J. Freethy..... 5,543

Plumbing, Etc.
 (1) plumbing;
 (2) gas supply line, per foot;
 (3) hot water system.

Richmond Pblg. Co., Richmond(1) \$1,687.50
 Sperisch Bros.(1) 1,695.00
(2) .27
(3) 1,171.00
 R. W. Timmons.....(1) 1,709.00
(2) .30
(3) 1,150.00
 R. A. Washburn.....(1) 1,717.00
(2) .275
(3) 1,125.00
 Stand. Pblg. & Heat. Co.(1) 1,735.00
(2) .28
(3) 1,096.00
 Grierson Heating Co.(3) 951.00

All bidders of Richmond. Bids held under advisement.

Plans Being Figured—Bids Close July 20.

ADDITION Cost, \$7500
SAN FRANCISCO. No. 1965 Market Street.

One-story frame and stucco top addition to funeral parlors (automatic elevator, tar, gravel and tile roofing, re-decorate entire building etc.)

Owner—Gantner, Felder, Kenny, 1965 Market St., San Francisco.
 Architect—Walter Falch, Hearst Bldg., San Francisco.

Following will submit bids:
 A. D. Cellman, 666 Mission St.
 Ed Zinkand, 667 36th Ave.
 Henry Papenhausen, 595 Victoria St.
 Mager Bros., 1359 4th Ave.
 Ed. Marshall.

Bids are being received for carpentry work and elevator work. Bids on painting and heating system will be taken later.

20—MISC. SUPPLIES AND MATERIALS

LOS ANGELES, Cal.—Bids for furnishing 600,000 lbs. hollow drill steel, Spec. No. 45, for use in the construction of the Metropolitan Water District Aqueduct were opened by the District July 17.

Bids were taken as follows:

- (1) Delivery of steel as ordered between Aug. 1, 1933, and January 1, 1934, 100,000 lbs. 1 1/4-in. round hollow steel.
- (2) Delivery of steel as ordered between Aug. 1, 1933, and Oct. 1, 1933, 7,000 lbs. 1-in. hexagon hollow drill steel.
- (3) Delivery of steel as ordered during calendar year 1934, 200,000 lbs. of 1 1/4-in. round hollow drill steel.
- (4) Delivery of steel as ordered during calendar year, 1935, 200,000 lbs. of 1 1/4-in. round hollow drill steel.
- (5) Delivery of steel as ordered during calendar year 1936, 100,000 lbs. of 1 1/4-in. round hollow drill steel.

The bids were:
 Crucible Steel Co., 405 Lexington Ave., New York City: (1) 9c (2) 9c (3) 9c (4) 9c (5) 9c; 1/2 of 1%, 10 days; total, \$54,630; net \$54,356.85.
 Earle M. Jorgensen Co., 10,510 S.

Alameda St., Los Angeles: (1) 8.85c (2) 8.85c (3) 9.85c (4) 10.35c (5) 10.35c; 1/2 of 1%, 10 days; total \$60,210.50; net total, \$59,918.40.
 Bids taken under advisement.

OAKLAND, Cal.—Following bids received July 14 by East Bay Municipal Utility District, Oakland, to furnish lumber as follows:

- (1) 102,600 ft. b. m. redwood;
- (2) 73,900 ft. b. m. Douglas fir, erect.
- (3) lump sum.

Bidders follow:
 (A) Zenith Mills, Oakland.
 (B) Eureka Mill Co., Oakland.
 (C) Bay City Lumber Co., Oakland.
 (D) Smith Lumber Co., Oakland.
 (E) E. K. Wood Lumber Co., Oakland
 (F) Pan Pacific Piling Constr. Co.
 (G) Loop Lumber & Mill Co., Alameda
 (H) San Pablo Lumber Co., Richmond
 (I) Sunsat Lumber Co., Oakland.
 (J) Union Lumber Co., San Francisco
 (K) T. P. Hogan Co., Oakland.
 (L) Boorman Lumber Co., Oakland.
 (M) Jas. L. Hall, Oakland.
 (N) Chas. R. McCormick, San Francisco.
 (O) McCormick Supply Co., San Francisco.
 (P) Tilden Lumber Co., Berkeley.
 (Q) Oakland Lumber Co., Oakland.

Unit bids follow:

	(1)	(2)	(3)
(A)	\$3676.04	\$—	\$—
(B)	3676.04	3311.08	6987.12
(C)	3676.03	3183.74	6760.00
(D)	3658.89	3166.54	6825.43
(E)	3676.04	3479.78	7155.82
(F)	—	3658.49	—
(G)	3614.92	3265.39	—
(H)	2949.32	3092.76	6042.08
Alt.	3446.46	3092.76	6539.22
(I)	3548.49	3092.76	6641.25
(J)	3548.50	—	—
(K)	3548.50	3092.77	—
(L)	3390.40	—	—
(M)	—	2947.23	—
(N)	—	3092.76	—
(O)	—	3236.76	—
(P)	3458.50	3092.77	—
(Q)	3548.50	3104.33	6652.83

RIVERSIDE, Riverside Co., Calif.—Bids for furnishing lumber and piling for a pile trestle bridge to be erected over the Temecula River on the Temecula-Aguana Road, at the China Garden Bridge site approx. 7 miles east of Temecula, opened by W. L. Carlson, County Purchasing Agent, July 17. The bids, which were taken under advisement one week, were:

Klamath California Redwood Co.—\$8610 f.o.b. Temecula, 2% discount.

Thirteen other bids: identical at \$8-756.77, f.o.b. job, 2% discount. The 13 bidders were: Temecula Valley Lbr. Co., Hammond Lbr. Co., Dill Lbr. Co. of Elsinore, Chas. E. Chambers Lbr. Co. of San Jacinto, Elsinore Lbr. Co., Coachella Valley Lbr. Co., E. K. Wood Lbr. Co., Corona Lbr. Co., Hanson Lbr. Co., Hayward Lbr. Co., H. A. Spaulding of Hemet, Owens - Parks Lbr. Co. and H. A. Browning Lbr. Co.

BOULDER CANYON, Nev.—Colorado Fuel & Iron Products Co. awarded contract by A. McD. Brooks, Purchasing Agent of the U. S. Bureau of Reclamation, Custom House, Denver, Colo., June 26, at \$1.03 cwt. for furnishing deformed reinforcing steel bars under Bid No. A-3241-A, Boulder Canyon, f.o.b. Minnequa.

Contract Awarded.
ALTERATIONS Cost, \$2500
SAN FRANCISCO. 120 Spring Street. Alterations to restaurant.
 Owner—J. Coppa, 1668 North Point St.
 Architect—N. W. Sexton, de Young Building.
 Contractor—C. R. Janssen, Hearst Building.

ENGINEERING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

- | | |
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| 21.—Bridges | 30.—Reservoirs and Dams |
| 22.—Dredging, Harbor Works, Excave. | 31.—Pipe Lines and Wells |
| 23.—Irrigation Proj. | 32.—Sewers & Sewage Disposal Plants |
| 24.—St. Light. Systems | 33.—Water Works |
| 25.—Machinery and Equipment | 34.—Parks & Playgrounds |
| 26.—Railroads | 35.—Tunnels |
| 27.—Fire Alarm Sys. | |
| 28.—Fire Equipment | |
| 29.—Streets & Highways | |

22—DREDGING, HARBOR WORKS, EXCAVATION

EUREKA, Humboldt Co., Cal.—Evans Constr. Co., 1317 Albee Street, Eureka, at \$4602.50 submitted low bid to State Highway Commission, Eureka, to construct a sidewalk on the bridge across Redwood Creek, about one-quarter mile north of Orick.

HANFORD, Kings Co., Cal.—County Surveyor Roy May plans \$14,025 new Tule River bridge; included in county maintenance department budget.

EUREKA, Humboldt Co., Cal.—As previously reported, H. A. Anderson, Rio Dell, at \$993 awarded contract by county supervisors to paint suspension bridge across the Eel River at Alderpoint in Road District No. 2. Complete bids follow:
 H. A. Anderson, Rio Del. \$ 993
 Nelson Bros., Eureka 1695
 Smith Bros. Co., Eureka 1050

WOODLAND, Yolo Co., Cal.—Yolo county supervisors plan to seek \$28,000 federal funds through the National Industrial Recovery Act to construct the new bridge over Elk Slough in the Broderick district, which will eliminate two ferries.

21—BRIDGES

PORTLAND Ore.—Bids will be called shortly by U. S. Engineer Office, 321 Courthouse, Portland, for harbor improvements as follows:

Extend north jetty at entrance to Yagamma Bay, Ore., involving 200,000 tons stone.

Construct stone fill dike between west end of Sand Island and Cape Disappointment with stone revetment at Sand Island.

Dredge 950,000 cu. yds. in Columbia River from Interstate Highway Bridge at Vancouver to point 8500 ft. downstream.

SAN FRANCISCO, Calif.—Bids will be called by U. S. Engineer Office, 401 Customhouse, San Francisco, to dredge 1,661,191 cu. yds from Richmond Harbor, Calif.

PORTLAND, Oregon—Port of Astoria, Astoria, Ore., at \$16,000 awarded contract by U. S. Engineer Office, to dredge approximately 256,000 cu. yds. of material from Skipanon channel, on the south side of the Columbia River, 3 mi. west from Astoria, Oregon, and about 10 mi. from the mouth of the river.

SEATTLE Wash.—Bids will be called shortly by U. S. Engineer Office, Burke Bldg., Seattle, Wash., for harbor improvements as follows:

Repair south jetty at entrance to Grays Harbor, involving 670,000 tons stone.

Repair north jetty at entrance to Grays Harbor, involving 230,000 tons stone.

Dredge 195,000 cu. yds. from city waterway, Tacoma, Wash.

SACRAMENTO, Cal.—Hydraulic Dredging Co., Ltd., 1217 Central Bank Bldg., Oakland, at \$,079 cu. yd. awarded contract by U. S. Engineer Office, Sacramento, to dredge 489,000 cu. yds. material from Suisun Bay near the mouth of New York slough and from New York slough between its mouth on Suisun Bay and the mouth of Middle Slough.

SEATTLE, Wash.—Until August 16, 3 P. M., bids will be received by U. S. Engineer Office, 412 Federal Office Bldg., Seattle, to dredge 281,000 cubic yards material from the Duwamish Waterway. Further information obtainable from above office.

24—ST. LIGHT. SYSTEMS

MODESTO, Stanislaus Co., Calif.—Modesto Irrigation District, C. S. Abmott, Secretary, plans to ask \$300,000 federal funds through the National Industrial Recovery Act for improvements in connection with electric and irrigation systems as follows:

Generating plant at Stone Drop near Waterford; plans submitted by Electrical Engineer E. W. Creim, estimated cost \$135,000, which includes a third wire to north side transmission line from Don Pedro Dam to Modesto.

Canal lining, \$125,000; plans prepared by Irrigation Engineer, Neil M. Cecil.

Canal structures, \$20,000.

25—MACHINERY AND EQUIPMENT

SAN FRANCISCO—All bids rejected by National Park Service, Underwood Bldg., to furnish 6 motor graders and tractors (bids opened July 8) and 6 20-hp. tractors (bids opened July 14). All road equipment will be purchased under Government contract of Forest Service or other department.

LOS ANGELES, Cal.—H. L. Smith, representing the American Liquid Gas Co., 322 Transamerica Bldg., Los Angeles, at \$1170 submitted low bid to the Metropolitan Water District July 14 for constructing liquid gas plant

and for furnishing liquefied petroleum gas for Division No. 3, headquarters, in accordance with Spec. No. 48. The work consists of constructing a liquid gas plant at Division No. 3 headquarters, about seven miles NW of Desert Center, and furnishing the gas required for the operation of the plant for a period of not to exceed five years. The items bid on were:

(1a) Furnishing one liquid gas storage and gasifying plant, lump sum.

(1b) Furnishing for a period not to exceed five years liquid petroleum gas at storage tanks, Division No. 3 headquarters at price per gallon.

The bids were:

Harold L. Smith, representing American Liquid Gas Co.: (1a) \$1170; time 15 days, 2% 10 days; (1b) 6.75c gal., 2%. Prices exclusive of any unforeseen federal tax.

Parkhill-Wade Co., Inc., Los Angeles, (1a) \$1523, 18 days, no discount; (1b) 10c, no discount.

MADERA, Madera Co., Cal.—Until August 8, 10 A. M., bids will be received by L. W. Cooper, county clerk, to exchange one used Hudson sedan (sheriff's office) on the purchase price of one new Chevrolet or Ford coach, fully equipped.

NAPA, Napa Co., Cal.—Sperry Sauer Co., Napa, at \$450 net awarded contract by city council to furnish Ford 4-cylinder light delivery truck. Lone bid submitted.

SAN FRANCISCO—Gardner-Denver Co., 250 7th St., awarded contract by U. S. Forest Service to furnish 18 air compressors. Bids opened July 18.

SANTA CRUZ, Cal.—Ryan & Oakley, Santa Cruz, at \$10,660, awarded contract by High School District to furnish three school buses, 2 48-passenger and one 60-passenger capacity, one for the San Lorenzo Valley, one for service along the Coast to Swanton, and the 60-passenger but through the Live Oak District.

ALHAMBRA, Los Angeles Co., Cal.—Until 8 P. M., August 7, bids will be received by Board of Education, Third and Main Sts., Alhambra, to furnish three bus bodies in accordance with specifications on file in the office of George L. Yelland, Secretary.

28—FIRE EQUIPMENT

RED BLUFF, Tehama Co., Calif.—All bids rejected and new bids will be received until August 3, 2 P. M., by Geo. A. Hoag, clerk, Joint Highway District No. 18 for additional highway construction on the district road between Proberta and Los Molinos. The proposed work calls for surfacing with armor type oil that part of the highway between orth line of Gerber and the north line of Las Flores; surfacing with crushed rock base and penetration surface approximately 1000 ft. south of Gerber; and re-building the curves at various points between Gerber and Tehama.

Hemstreet & Bell, 501 11th Street, Marysville, submitted lone bid at \$7,170.

Quantities may be revised. Martin Polk, engineer of the district. Previous quantities were:

- (1) 900 tons screenings;
- (2) 47 tons asphaltic oil;
- (3) 84 barrels fuel oil;
- (4) 520 cu. yds. gravel.

CAPITAL CITY TITLE COMPANY

J. C. PALEN,
Manager

914 Seventh Street

Sacramento :: California

HUMBOLDT COUNTY, Cal.—Hemstreet & Bell, 501 11th St., Marysville at \$47,525 recommended for award of contract by U. S. Bureau of Public Roads, San Francisco, for 13,748 miles of crushed gravel base course on California Federal Lands Project No. 1, Hoopa Valley Indian Reservation.

M. J. Murphy, Inc., Carmel, submitted low bid July 11 at \$38,600; bid was withdrawn.

WASHOE COUNTY, Nevada.—C. G. Willis & Sons, Inc., 2119 E 25th St., Los Angeles, at \$31,819.10 awarded contract by U. S. Bureau of Public Roads to grade 5,199 miles of Section A, Route 2, Mt. Rose National Forest Highway, Tahoe National Forest.

PLUMAS COUNTY, Calif.—C. F. Frederickson & Sons, Lower Lake, at \$6384 awarded contract by U. S. Bureau of Public Roads for 16,394 miles of road oil dust palliative on Sections E and F, Route 23, the Quincy-Beckwith National Forest Highway, Plumas National Forest.

30—RESERVOIRS & DAMS

LOS ANGELES, Cal.—E. C. Eaton, 202 N Broadway, county flood control engineer, announces the low bid on each of the three proposals for constructing the Eaton Wash Debris Dam, were taken under further advisement by the county board of supervisors, all other bids being rejected July 13. Mitty Bros. Const. Co., 5531 Downey Road, was the low bidder at \$224,382 (Proposal No. 1, using concrete poured facing). Mitty Bros. were also low on gunite facing at \$229,737. Hall-Johnson Co. and M. S. Ross, 4011 Goodwin Ave., were low on proposal No. 2—earthwork only at \$143,872.50 and Case Const. Co., 1927 Thayer Ave., was low on proposal No. 3—concrete and miscellaneous work—gunite \$128,141, concrete \$125,951.

32—SEWERS & SEWAGE DISPOSAL PLANTS

CAPITOLA, Santa Cruz Co., Cal.—Capitola Sanitary District bonds for \$10,500 sold by county supervisors to local banks; the balance of the \$21,500 issue to finance proposed outfall sewer. Bids were opened May 23 and project held up until July 24, 2:30 P. M.

LOS ANGELES, Cal.—Until 10 A. M., August 2, bids will be received by Board of Public Works to construct by-pass sewer in Alhambra Ave. from Brawley St. to Eastern Ave., under cash contract, involving:

- (1) 891.38 lin. ft. 15-in. extra strength vit. clay pipe sewer, including curve, structures and all required appurtenances;
- (2) 54.54 lin. ft. 15-in. extra strength vit. clay pipe sewer including curve, structures and all required appurtenances;
- (3) combined bid on items (1) and (2)

SAN BRUNO, San Mateo Co., Cal.—City council holds up award to Fairbanks, Morse & Co. to furnish sewage pumps for San Bruno-Lomita Park outfall sewer. It is probable that the two pumps for the Lomita Park sewage plant will be awarded to Fairbanks, Morse, and the two for the Belle Air unit to United Iron Works, who submitted the low bid under the second schedule. Next council meeting will be held July 26.

REDWOOD CITY, San Mateo Co., Cal.—County supervisors plan to survey the bay frontage from Redwood City south in connection with sewage disposal project which may be financ-

ed under National Industrial Recovery Act.

33—WATER WORKS

LOS ANGELES, Cal.—Contracts for constructing sewage pumping plant to be built in the vicinity of Terminal Way and Dock St., Terminal Island, awarded by board of public works July 14, as follows:

Gene B. Foster, Inc., 1772 N Sycamore Ave., Los Angeles, item 1 at \$21,199 to construct a reinforced concrete pumping structure and a reinforced concrete gate chamber structure, including furnishing and installing all equipment and appurtenances, grading, paving all walks, curbs; furnish and apply sulphur-silica compound, metalizing and paint.

Merritt-Champan & Scott, 720 Wilmington-San Pedro Road, San Pedro, item 2 at \$9550 for furnishing and installing two duplicate sewage pumping units with all piping, also a sump pump and its connections and floor covering.

The building will be of reinforced concrete construction, waterproofing, steel doors, galvanized iron hand railings, steel and wood ladders, steel gratings and plates, redwood gate, skylights, wire glass, copper flashings and gutters, fan ventilator, 60-ft. flagpole to serve as a ventilation pipe, portable work, Mastipave floor covering, cast iron gates, centrifugal cast iron pipe, galvanized cast container and plumbing.

The two pumps will be vertical, centrifugal, single stage, 3150 G. P. M., 50-ft. head, and by change of impellers have required capacity to pump 4275 G. P. M., 60-ft. head. Also includes shaft guard, valves, floats, flow meter, instrument board, surge tank,

SAN FRANCISCO.—Central Foundry Co., 100 Potrero Ave., at prices shown below, awarded contract by T. A. Brooks, City Purchasing Agent, under Bid No. 1032, to furnish:

- (1) 50,000 ft. 6-in. h&s c. i. pipe, \$436;
- (2) 50,000 ft. 8-in. do, .659.

Complete bids published June 24.

PITTSBURG, Contra Costa Co., Cal.—City Manager Geo. T. Oliver preparing plans for filtration and aeration system in connection with municipal water works. Project will involve three filters, an aeration basin and two booster pumps; estimated cost \$13,000. Specifications will be submitted to city council at their next meeting August 7.

33

LANCASTER, Los Angeles Co., Cal.—Until Friday, July 28, bids will be received by the Lancaster Grammar School District for a 6000-gal. underground fuel oil storage tank, installed. Information may be obtained from A. C. Whidden, clerk of the district.

SANTA MONICA, Los Angeles Co., Cal.—Until 10 A. M., July 31, bids will be received by city council to furnish 10,000 ft. 6-in. Class B sand cast iron water pipe, delivered at the city yards, 9th and Colorado Sts. Certified check, 5%. John A. Morton, Commissioner of Public Works. Howard B. Carter, city engineer.

SIGNAL HILL, Los Angeles Co., Cal.—Until 3 P. M., August 7, bids will be received by city council to construct a reinforced concrete water tank on the top of Signal Hill in accordance with plans and specifications obtainable from W. V. Vernon, Water Superintendent, City Hall, 2120 Cherry Ave., on deposit of \$2.50. The proposed tank will be 20 ft. in diameter, 40 ft. high, and will have a capacity of 94,000 gals. The quantities are:

190 cu. yds. concrete;
89 cu. yds. earth remove;
5245 lbs. reinf. steel;
339 sq. yds. plaster;
60 manhole steps;
One sidewalk cover;
15 ft. 1½-in. pipe hand rail;
55 ft. ½-in. conduit.
Bids will be taken on a lump sum basis.

BOULDER CANYON, Nevada.—Until August 25, 2 P. M., under Specifications No. 544, bids will be received by U. S. Bureau of Reclamation, Denver, Colo., to furnish:

- | | | |
|---|--|--------|
| (1) 1 120-in. diameter butterfly valve, Schedule 1; | | |
| (2) 4 168-in. do | | Sch. 1 |
| (3) 1 120-in. do | | Sch. 2 |
| (4) 4 168-in. do | | Sch. 2 |
| (5) 1 120-in. do | | Sch. 3 |
| (6) 4 168-in. do | | Sch. 3 |
| (7) 1 120-in. do | | Sch. 4 |
| (8) 4 168-in. do | | Sch. 4 |
| (9) 1 120-in. do | | Sch. 5 |
| (10) 4 168-in. do | | Sch. 5 |
| (11) 1 120-in. do | | Sch. 6 |
| (12) 4 168-in. do | | Sch. 6 |
| (13) 1 120-in. do | | Sch. 7 |
| (14) 4 168-in. do | | Sch. 7 |
| (15) 1 120-in. do | | Sch. 8 |
| (16) 4 168-in. do | | Sch. 8 |
| (17) 1 120-in. do | | Sch. 9 |
| (18) 4 168-in. do | | Sch. 9 |

MADERA, Madera Co., Cal.—Lone bid of San Joaquin Light & Power Corp. at \$17,460 to furnish a pump with a 140 brake-hp. Diesel engine for city water pumping plant held over by city council until August 7.

ALHAMBRA, Los Angeles Co., Cal.—Bids for furnishing 3500 ft. 18-in. cement-lined cast iron pipe to be laid (by force account) in Pine Ave. and Bushnell Ave., opened by city commission July 18. The bids, which were referred to T. B. Downer, Water Superintendent, for one week, were:

- U. S. Pipe & Foundry Co.—12 and 18 ft. lengths, \$312 per c. ft.
American Cast Iron Pipe Co.—16 ft. lengths, \$320.
Utilities Supply Co., \$325.
National Cast Iron Pipe Co., 12 ft. lengths, \$327.00.

ALDERWOOD MANOR, Wash.—Joe Coluccio, 42nd N. and E. Lee, Seattle, at \$161,095 submitted low bid to Alderwood Water District to construct water distribution system. Queen City Const. Co., Seattle, second low at \$174,226; Howard S. Wright third low at \$188,986.

35—TUNNELS

LOS ANGELES, Calif.—Commercial Shearing & Stamping Co., Youngstown, Ohio (W. H. Collins, 1138 Glenville Drive, Los Angeles) at \$108,028.02 for Schedule 1 and \$26,057.06 for Schedule 2 awarded contract by Metropolitan Water District to furnish tunnel liner plates and other fabricated steel for tunnel support under Spec. No. 47.

McClintic-Marshall Co. at \$32,492.50 awarded contract under Schedule 3.

29—STREETS AND HIGHWAYS

SAN FRANCISCO.—Until July 26, 2:30 P. M., bids will be received by Department of Public Works, S. J. Hester, Chief Deputy Director, to improve south half of Alemany Blvd. from Bayshore to 2850 ft. west, including crossing Alemany and San Bruno, involving:

- (1) 2700 cu. yds. broken rock mac.
 - (2) 55,000 sq. ft. oiled wearing surf.
- Estimated cost, \$3125. Specifications obtainable from office of John J. Casey, City Engineer, 3rd floor, City Hall.

VENTURA COUNTY, Calif.—Angus McDonnell, 7150 Melrose Ave., Los Angeles, at \$16,951.86 awarded contract to U. S. Bureau of Public Roads to line three tunnels on Section A, Route 76, Maricopa-Ventura Highway, Santa Barbara National Forest.

SAN FRANCISCO.—Until July 26, 2:30 P. M., bids will be received by Department of Public Works, S. J. Hester, Chief Deputy Director, to alter and repair Sixth St. bridge at Channel, involving:

- (1) strengthen bridge (jump sum);
- (2) 2380 lin. ft. piles (per ft.).

Estimated cost \$13,500. Specifications obtainable from office of John J. Casey City Engineer, 3rd floor, City Hall.

VALLEJO, Solano Co., Cal.—Specifications are being prepared by T. D. Kilkenny, City Engineer, and bids will be called shortly to pave Butte Street from Tennessee to Alabama. A meeting of the property owners will be held at 2:30 P. M., July 15 to secure their consent to do the work and eliminate public proceedings.

LOS ANGELES, Calif.—Until 2 P. M., July 24, bids will be received by the Metropolitan Water District, 306 W Third St., Los Angeles, for constructing approximately 7.5 miles of road for the Colorado River aqueduct in accordance with the District's Spec. No. 44. The road is located in Riverside County and extends from a point on the Mecca-Blythe State Highway approx. 2.9 miles west of Desert Center to a point approx. 7.5 miles north thereof. The work to be contracted for consists of all necessary excavation and grading, and the placing of surfacing materials, culvert pipes, riprap and protection work as shown on the drawings. Specifications may be purchased for \$3. Julian Hinds, acting engineer. The items are:

- (1) 53,400 cu. yds. rdwy., borrow, and channel change excav.;
- (2) 60,000 sta. yds. excav. overhaul;
- (3) 960 cu. yds. structure excav.;
- (4) 245 cu. yds. concrete;
- (5) 5400 lbs. reinf. steel;
- (6) 96 lin. ft. furnish and place 30-in. corru. pipe culvert;
- (7) 264 lin. ft. do 42-in. do;
- (8) 132 lin. ft. do 48-in. do;
- (9) 150 cu. yds. hand-placed riprap;
- (10) 500 cu. yds. dumped riprap;
- (11) 3.7 miles drainage ditches;
- (12) 175 M. gals. watering embank.;
- (13) 525 M. gals. watering subgrade;
- (14) 800 cu. yds. furnish crushed rock;
- (15) 8300 cu. yds. furnish sel. material
- (16) 15,600 cu. yds. miles haul selected material and crushed rock;
- (17) 185,600 gals. road oil, furnishing, hauling and spreading;
- (18) 88,000 sq. yds. prepare surface, mix, spread and finish oil-treated surface;
- (19) 22,000 gals. seal coat oil, furnish and haul;
- (20) 88,000 sq. yds. seal coat—applying
- (21) 400 cu. yds. stockpile oil-treated material.

LOS ANGELES, Calif.—Until 10 A. M., July 26, bids will be received by board of public works for improving Los Angeles St. from Winston St. to 5th St., under cash contract, involving:

- (1) lump sum for grading;
- (2) 35 sq. ft. 8-in. conc. pave.;
- (3) 323 lin. ft. curb bar;
- (4) 58 lin. ft. curb armor;
- (5) 384 lin. ft. cem. curb, heavy, unplastered;
- (6) 94 sq. ft. 6-in. sidewalk (drive);
- (7) 592 sq. ft. cem. sidewalk, 1 course;
- (8) 438 sq. ft. 8-in. conc. gutter;
- (9) storm drain and appurt.;
- (10) reinf. conc. retaining wall;
- (11) two orn. lighting posts, reset.

Quantities on storm drain, concrete wall and removals follow:

STORM DRAIN

- 166 ft. 12-in. pipe;
- 2 catchbasins, No. 29;
- 3 catchbasins, No. 37;
- 1 manhole "E2";
- 1 manhole frame and cover set;
- 1 junction chamber, No. 3;
- 128 ft. conc. reinf. for 12-in. pipe;
- remove one existing F. & G.;
- 3 catchbasins, F. & G. (one grating)
- 3 catchbasins, F. & G. sets;
- remove 2 existing catchbasins.

REINF. CONC. RETAINING WALL,

BEAM AND COLUMNS

- conc. fire hydrant pedestal;
- 1270 cu. ft. conc. (47 cu. yds.);
- 1300 sq. ft. forms;
- 5100 lbs. reinf. steel;
- 16 lin. ft. curb armor;
- 158 lin. ft. curb armor;
- 2 expansion joints;
- 14 sq. ft. conc. gutter, 8-in.;
- 3 lin. ft. mono. curb and gutter;
- 55 sq. ft. 8-in. concrete pave.;
- 1 catchbasin, No. 37;
- 210 sq. ft. sidewalk;
- shorten 25 10-in. I beams.

REMOVALS

- 504 ft. curb;
- 1810 sq. ft. walk;
- 680 sq. ft. gutter;
- 276 cu. ft. top of wall;
- 18 cu. ft. toe of wall;
- 15 cu. ft. ship out;
- 188 cu. ft. wall removal;
- 526 cu. ft. reinf. concrete walk;
- 90 sq. ft. floor;
- 252 cu. ft. cut under floor.

LOS ANGELES, Cal.—The city council will instruct the city engineer to prepare plans for improvement of Venice Blvd. (south roadway) from La Brea Ave. to Cochran Ave. The estimated cost is \$64,000.

FAIRFAX, Marin Co., Cal.—City council will start new proceedings August 12 or Manor Hill Section St. improvement. Project includes paving, curbs and gutters, and involves:

- (1) 15,104 cu. yds. grading;
- (2) 10,330 lin. ft. concrete curb and gutter;
- (3) 63,437 sq. ft. asph. pavement;
- (4) 206 ft. 10-in. metal pipe culvert;
- (5) 356 ft. 12-in. do;
- (6) 192 ft. 18-in. do;
- (7) 46-ft. 48-in. do;
- (8) 22 conc. catchbasins, c. i. grating;
- (9) 33 cu. yds. reinf. conc. retaining wall;
- (10) 250 lin. ft. 6-in. sanitary sewer;
- (11) 1 manhole.

Estimated cost, \$30,000. J. C. Oglesby, city engineer.

YUBA CITY, Sutter Co., Cal.—County supervisors seek \$219,500 Federal funds under the National Industrial Recovery Act, projects as follows:

Relocate Garden Highway from south end of Second St., Yuba City, to Shanghai Bend Road, 2.65 mi., \$53,000;

Knights Landing Road north to present paving, 1.07 mi., \$40,000;

Knights Landing to 2.3 mi. south of Robbins, 1.59 mi., \$12,000;

Paving on constructed standard grade from line of Knights Landing-Robbins Road to Robbins, 2.3 mi., \$10,000;

Tisdale weir bridge, \$16,000;

Rutte Slough bridge on the Sutter-Colusa line, \$16,000;

Bridge across east borrow pit, Sutter By-Pass, \$2500;

Bridge across Yankee Slough at Swanson Road, \$6000.

OREGON STATE.—Oregon State allocated \$10,844,000 public works funds, as follows:
Owyhee project\$5,000,000

Forest Highways	2,186,000
Vale Project	1,000,000
Crater Lake Rim Road	532,950
Indian Reservation Roads.....	155,000

HUMBOLDT COUNTY, Cal.—Hemstreet & Bell, 501 11th St., Marysville, at \$115,189.11 awarded contract by U. S. Bureau of Public Roads for 4.587 miles of grading Section A, Route 51, Hoopa National Forest Highway, Trinity National Forest.

ARIZONA STATE.—Complete total bids for the grading and oiling of 8.7 miles of the St. Johns-Springerville highway, Apache County, opened July 11, are:

Heafey-Moore Co., Phoenix, at \$108-162.94 (low as previously noted).

Phoenix-Tempe Stone Co., Phoenix, \$110,053.88.

Pleasant-Hasler Const. Co., Phoenix \$114,567.48.

Pearson & Dickerson, Riverside, Cal. \$115,770.93.

MADERA COUNTY, Calif.—Until 2 P. M., bids will be received by E. E. Wallace, District Engineer, State Highway Commission, State Office Bldg., Fresno, to apply bituminous surface treatment to existing pavement and shoulders in three sections, as follows: Location A, between 2.9 miles and 2 miles south of Madera, 0.9 mile; Location B, between 2 miles south of Madera and Madera; Location C, bet. Madera and northern boundary, 18.2 miles. Project involves:

- (1) 10 tons emulsified asph. road oil, Location A;
- (2) 192 tons screenings, do;
- (3) 124 tons emulsified asph. road oil, Location B;
- (4) 1850 tons screenings, do;
- (5) 116 tons cut-back asph., Loc. C;
- (6) 710 tons sand, do.

Specifications obtainable from above office. Certified check 10% required with bid.

SANTA BARBARA COUNTY, Cal.—Until July 31, 2 P. M., bids will be received by L. H. Gibson, District Engineer, State Highway Commission, San Luis Obispo, to oil treat existing shoulders over 5-mi. between Summerland and Carpinteria. Certified check 10% required with bid. Specifications obtainable from above office.

NAPA, Cal.—Basalt Rock Co., 900 5th St., Napa, at approximately \$25,-500 submitted lone bid to county supervisors for road surfacing. Bid was rejected and work will be done by day labor, the material to be purchased in the open market.

FRESNO COUNTY, Cal.—Until July 26, 2 P. M., bids will be received by E. E. Wallace, District Engineer, State Highway Commission, to apply bituminous surface treatment, non-skid, over 3.7 mi. between Kingsburg and Selma. Specifications obtainable from above office. Certified check 10% required with bid.

CULVER CITY, Los Angeles Co., Cal.—The city council and civic organizations are formulating plans for the improvement of the intersection of Culver Blvd. and Washington Blvd. The plan calls for the acquisition of 20,000 sq. ft. from the Pacific Electric Railway Co., construction of safety aisles and street car loading zones, and the constructing of a traffic control system. An effort will be made to procure county aid to the extent of \$20,000.

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

OAKLAND, Cal.—A. Soda & Sons, 1077 65th St., Oakland, at \$5331.50 awarded contract by county supervisors to construct a reinforced concrete box culvert on the Valle Vista Road, Eden Twp., involving:

- (1) 260 cu. yds. struc. excav;
- (2) 275 cu. yds. conc. in structure;
- (3) 44,000 lbs. reinf. steel;
- (4) remove existing bridge, lump sum.

Complete bids follow:

(A) A. Soda & Sons, Oakland.....	\$5331.50
(B) G. Petersen, San Leandro 5408.00	
(C) Albany Cem. & Const. Co.....	5644.00
(D) T. H. Johanns, S. F.	5790.50
(E) F. A. Stead, Berkeley.....	5833.20
(F) J. R. Armstrong.....	5946.25
(G) E. T. Lesure, Oakland.....	6123.41
(H) C. A. Bruce & Sons, Pleasanton	6387.00
(I) W. E. Lyons, Oakland	6645.00

Unit bids follow:

(1)	(2)	(3)	(4)
(A) .....\$1.10	\$ 8.82	\$.035	\$1080.00
(B) ..... .60	12.00	.033	500.00
(C) 1.00	12.00	.03	764.00
(D) 1.00	12.86	.033	550.00
(E) 1.37	11.00	.033	1000.00
(F) ..... .55	11.23	.033	1263.00
(G) ..... .80	13.45	.033 1/2	750.00
(H) ..... .75	14.00	.033	890.00
(I) 1.25	14.00	.033	1018.00

GLOBE, Ariz.—Crane Co., Phoenix, awarded contract by city council July 10 for furnishing two deep well turbine and two booster pumps for the city water department. The bids follow:

(A) Crane Company.			
(B) Byron-Jackson Company.			
(C) C. C. Moore & Company.			
(D) Pratt Gilbert Company.			
(E) Dayton-Dowd Company.			
(F) Wintroath Pumps Company.			
(G) Layne-Bowler Company.			
(H) Kimball-Krogh Company.			
(I) Peerless Pipe Company.			
(J) Brundrick Company.			
(K) Allis-Chalmers Company.			

	Alt.	Alt.	Deep-
	well	Booster	Booster
	well	well	well
(A) \$1,263.64	\$2,441.80	\$2,031.70	\$
(B) 1,656.00	3,542.00	2,048.00	.....
(C) 5,480.00	lump sum		.....
(D) 1,638.00	2,330.00		.....
(E)	1,952.00		.....
(F) 1,600.00			1,553.00
(G) 1,553.00			.....
(H) 1,468.00	1,636.00		1,221.00
(I) .....			.....
(J) 1,264.00	2,441.80	2,031.70	.....
(K)	1,938.00		.....

SAN GABRIEL, Los Angeles Co., Cal.—W. E. Hall Co., 905 Westminister St., Alhambra, awarded contract by city council July 11 at \$4593.20 for the paving of Santa Anita Dr. between Las Tunas Drive and Mission Drive, under cash contract. Grading is being done by R. F. C. forces. C. N. Wright, city engineer, Pacific Electric Railway Bldg., Los Angeles, prepared the plans. The work will involve:

- (1) 37,500 sq. ft. 8-in. asph. concrete paving;
- (2) 20,330 sq. ft. 2-in. oil macadam.

The bids were:

	(1)	(2)	Total
W. E. Hall Co.	\$.10	\$.04	\$4593.20
Oswald Bros. ....	.11	.05	5174.50

MENDOCINO COUNTY, Cal.—Helwig Const. Co., 115 South Main St., Sebastopol, at \$5775 submitted low bid July 20 to District Engineer, State Highway Commission, San Francisco, for 7.7 miles of bituminous surface treatment to be applied bet. Ukiah and Forsythe Creek, involving:

- (1) 125 tons emulsified asphalt;
- (2) 1250 tons crushed gravel or stone screenings.

Complete bids follow:

(A) Helwig Const. Co., Sebastopol	\$5775.00
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- (B) E. A. Forde, San Anselmo..... 6137.50
- (C) Palo Alto Road M'tl. Co..... 6237.50
- (D) Pacific Truck Service, San Jose
- (E) Tiffany Const. Co., San Jose

Unit bids follow:

	(1)	(2)
(A)	\$22.00	\$2.42
(B)	20.50	2.86
(C)	19.90	3.00
(D)	22.23	3.17
(E)	25.00	3.56

IMP. LINCOLN BLVD. — LOS ANGELES

LOS ANGELES, Cal.—Southern California Roads Co., 2145 E 25th St., submitted low bid to board of public works July 12 at \$30,070.19, for improving Lincoln Blvd. from Venice Blvd. to Washington Blvd., under cash contract, involving:

- (1) grading, including removals;
- (2) 117,933 sq. ft. 5-in. asph. concrete base;
- (3) 116,338 sq. ft. 2-in. (gran-type Warrenite-Bith.) wearing surf.;
- (4) 4004 sq. ft. various thicknesses (average 2-in.) Warrenite - Bit. wearing surface;
- (5) 4535 sq. ft. 4-in. asph. conc. do;
- (6) 4336 sq. ft. 7-in. conc. pave.;
- (7) 3959 ft. unplas. heavy curb;
- (8) 79 ft. curb armor;
- (9) 730 sq. ft. 6-in. conc. sidewalk;
- (10) 22,693 sq. ft. 1-course sidewalk;
- (11) 4909 sq. ft. 7-in. concrete gutter;
- (12) sanitary sewer complete;
- (13) 75 ft. 6-in. V. C. pipe sewers;
- (14) orn. lighting conduit;

- (15) reset 7 manholes;
- (16) 1595 sq. ft. white concrete traffic lines.

The sewer and conduit involve detail quantities as follows:

- SANITARY SEWER**
- 75 ft. 6-in. vit. clay sewers;
 - 3 10x6-in. saddles;
 - 2 manholes "B";
 - 2 manhole frame and cover sets;
 - reset 7 manholes.

- CONDUIT**
- 140 ft. 2-in.;
 - 3642 ft. 1 1/2-in.

The total bids were:

- (A) Southern California Roads Co., \$30,070.19.
- (B) Griffith Co., \$30,820.76.
- (C) Geo. H. Oswald, \$31,441.48.
- (D) Mundo Engr. Co., \$32,032.50.
- (E) P. J. Akmadzich, \$33,462.98.
- (F) Sander Pearson, \$36,412.55.
- (G) Engineer's estimate, \$30,424.48.

The unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
(1).....	\$1065.00	\$1200.00	\$2555.00	\$1900.00	\$3000.00	\$3500.00	\$2180.00
(2).....	.10	.10	.0825	.106	.106	.10	.088
(3).....	.067	.08	.0875	.07	.075	.10	.079
(4).....	.067	.08	.0875	.10	.10	.095	.07
(5).....	.08	.10	.07	.08	.082	.08	.07
(6).....	.16	.17	.175	.16	.19	.17	.15
(7).....	.40	.40	.42	.40	.40	.45	.38
(8).....	1.00	.85	.90	1.00	1.20	.40	1.00
(9).....	.17	.16	.175	.18	.16	.18	.16
(10).....	.10	.09	.095	.12	.105	.11	.102
(11).....	.24	.19	.22	.18	.20	.18	.183
(12).....	200.00	100.00	155.00	100.00	120.00	200.00	110.00
(13).....	1.00	1.00	.90	1.00	1.25	1.00	1.00
(14).....	1000.00	800.00	900.00	960.00	900.00	865.00	1000.00
(15).....	25.00	25.00	30.00	40.00	40.00	42.00	30.00
(16).....	.35	.23	.22	.16	.18	.25	.15

EATON WASH DEBRIS DAM—L. A. COUNTY

LOS ANGELES, Cal.—Mittry Bros. Const. Co., 5531 Downey Road, Los Angeles, submitted low bid to the County Supervisors July 10 at \$224,382 (Proposal No. 1, using concrete poured facing) for constructing Eaton Wash Debris Dam. Mittry Bros. were also low on gunite facing at \$229,727.

The plans, as prepared by E. C. Eaton, County Flood Control Engineer, 202 N Broadway, call for a rolled earth fill dam, 1545 ft. in length, 37 ft. in height, 40.5 ft. from foundations to spillway crest. The upstream side will be faced with concrete.

Bids were taken on three proposals, viz.: (1) all work complete, (2) earth work, and (3) concrete and miscellaneous work.

The total bids, according to the various proposals, follow:

Proposal No. 1—All Work Complete

(A) Mittry Bros. Const. Co., Los Angeles: Total for gunite facing, \$229,737; total for concrete facing, \$224,382.	
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- (B) Basich Bros., Torrance: Gunite \$241,263.25; concrete, \$234,173.25.

- (C) Geo. Pollock Co., Sacramento: Gunite, \$263,255; concrete, \$256,195.

- (D) A. Teichert & Son, 409 LeRoy St., Los Angeles: Gunite, \$292,377.50; concrete, \$288,698.50.

- (E) Von der Hellen & Pierson, Castaic: Gunite, \$332,314.50; concrete, \$232,209.50.

- (F) J. E. Haddock, Ltd., Pasadena: Gunite, \$342,791.25; concrete, \$333,855.25.

- (G) Guy F. Atkinson Co., Los Angeles: Gunite, \$344,480; concrete, \$336,233.

- (H) Engineer's estimate: Gunite, \$259,560; concrete, \$260,685.

Proposal No. 2—Earthwork Only

(A) Hall-Johnson Co. & M. S. Ross, 4011 Goodwin Ave., Los Angeles, \$143,872.50.	
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- (B) Geo. Pollock Co., Sacramento, \$149,435.

- (C) C. G. Payne Const. Co., 1835 E 58th St., Los Angeles, \$179,852.55.

(4D) Engineer's estimate: \$152,357.50.
Proposal No. 3—Conc. and Misc. Work
 (A) Case Const. Co., 1927 Thayer
 Ave., Los Angeles; Gunite, \$128,141;
 concrete, \$125,951.

(B) Geo. Hess, 434 S Westmoreland
 Ave., Los Angeles; Gunite, \$143,392;
 concrete, \$130,857.

(C) Engineer's estimate: Gunite,
 \$107,202.50; concrete, \$108,327.50.

Quantities and unit prices follow:

PROPOSAL NO. 1

All Work Complete

- (1) 10.5 acres clear and grub dam-
site;
- (2) 40,000 cu. yds. strip damsite;
- (3) 9.0 acres prepare foundation for
dam;
- (4) 164,000 cu. yds. excav. (struc.);
- (5) 3100 cu. yds. excavation (cut-off
trenches);
- (6) 167,000 cu. yds. excav. borrow
pit No. 1;
- (7) 196,000 cu. yds. excav. borrow
pit No. 2;
- (8) 147,000 cu. yds. embankment,
impressions (Class A);
- (9) 265,000 cu. yds. embankment,
impressions (Class B);
- (10) 1450 cu. yds. backfill, tamped
(Class A);
- (11) 8850 cu. yds. backfill, untamped
(Class B);
- (12) 930 cu. yds. conc. cut-off walls
(Class A);
- (13) 3540 cu. yds. concrete floor slabs
(Class B);
- (14) 250,000 sq. ft. gunite facing slab
Alt. to 14 (14-A) 3980 cu. yds. conc.
facing slab;
- (15) 2640 cu. yds. concrete retaining
wall (Class D);
- (16) 2125 cu. yds. conc. outlet con-
duit (Class E);
- (17) 1450 cu. yds. conc. spillway ogee
(Class E);
- (18) 1,250,000 lbs. place reinf. steel;
- (19) 200,000 lbs. place gates, hoists,
stems, etc.;
- (20) 44,000 lbs. place trash racks;
- (21) 8,000 lbs. place misc. metal;
- (22) 1,000 lbs. place metal handrail;

- (23) 200 lin. ft. place tile drains;
- (24) 100 lin. ft. drill dowel holes.

PROPOSAL NO. 2

Earthwork Only.

- (1) 10.5 acres clear and grub dam-
site;
- (2) 40,000 cu. yds. strip damsite;
- (3) 9.0 acres prepare foundation for
dam;
- (4) 156,000 cu. yds. excav. for struc.
(Class A);
- (5) 3100 cu. yds. excavation (cut-off
trenches) Class B;
- (6) 167,000 cu. yds. excav. borrow
pit No. 1 (Class C);
- (7) 196,000 cu. yds. excav. borrow
pit No. 2 (Class D);
- (8) 147,000 cu. yds. embankment,
impervious (Class A);
- (9) 265,000 cu. yds. embankment,
impervious (Class B);
- (10) 1450 cu. yds. backfill, tamped
(Class A);
- (11) 8850 cu. yds. backfill, untamped
(Class B);

PROPOSAL NO. 3

Concrete and Miscellaneous Work

- (4) 8000 cu. yds. excav. for struc.
(Class A);
- (4a) 5000 cu. yds. excav. final trim
upstream (Class E);
- (12) 930 cu. yds. conc. cut-off walls
(Class A);
- (13) 3540 cu. yds. concrete floor slabs
(Class B);
- (14) 250,000 sq. ft. gunite facing slab
Alt. to 14 (14-A) 3980 cu. yds. conc.
facing slab (Class C);
- (15) 2640 cu. yds. concrete retaining
wall (Class D);
- (16) 2125 cu. yds. conc. outlet con-
duit (Class E);
- (17) 1450 cu. yds. conc. spillway ogee
(Class F);
- (18) 1,250,000 lbs. place reinf. steel;
- (19) 200,000 lbs. place gates, hoists,
stems, etc.;
- (20) 44,000 lbs. place trash racks;
- (21) 8,000 lbs. place misc. metal;
- (22) 1,000 lbs. placing handrail;
- (23) 200 lin. ft. place tile drains;
- (24) 100 lin. ft. drill dowel holes.

BIDS OPENED

CALAVERAS COUNTY, Cal.—R. E.
 McCarty, 603 Eastworth St., Stockton,
 at \$13,240 submitted low bid July 19
 to State Highway Commission, Sacra-
 mento, to surface with untreated
 gravel or stone 6.5 miles between the
 western boundary and Burson, involv-
 ing:

- (1) 12,600 tons untreated crush. grav-
el or stone surfacing;
- (2) 1,200 M. gals. water applied to
base and surfacing.

Complete bids follow:

- (A) R. E. McCarty, Stockton.....\$13,240
- (B) Harold Smith, St. Helena..... 14,284
- (C) Pacific Truck Service Co.,
San Jose 16,387
- (D) A. J. Ralsch, San Jose..... 16,640
- (E) M. J. Murphy, Carmel..... 17,684
- (F) A. Teichert & Son, Sacto..... 19,960
- (G) Hemstreet & Bell, Marys-
ville 20,080
- (H) C. W. Wood, Stockton..... 20,160
- (I) Willard Biasotti & Lovatti,
Stockton 24,000
- (J) Harms Bros., Sacramento. 25,800
- (K) J. R. Reeves and Lord &
Bishop, Sacramento 28,240

Unit bids follow:

	(1)	(2)
(A)	\$.85	\$1.40
(B) .....	.94	1.25
(C)987	2.47
(D)	1.10	1.40
(E)	1.19	1.25
(F)	1.30	1.90
(G)	1.30	2.00
(H)	1.35	1.50
(I)	1.50	3.00
(J)	1.75	1.75
(K)	1.90	2.00

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PROPOSAL NO. 1

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
(1)	\$20.00	\$100.00	\$100.00	\$100.00	\$50.00	\$150.00	\$150.00	\$100.00
(2)195	.19	.25	.2875	.25	.35	.25	.20
(3)	10.00	25.00	50.00	46.00	20.00	80.00	150.00	50.00
(4) .....	.175	.18	.20	.27	.35	.34	.25	.20
(5) .....	.28	.60	.60	.43	2.50	1.35	2.00	.70
(6) .....	.21	.19	.20	.24	.25	.30	.25	.24
(7) .....	.185	.11	.15	.18	.23	.22	.18	.19
(8) .....	.05	.12	.09	.0975	.085	.12	.10	.08
(9) .....	.04	.10	.08	.075	.07	.09	.08	.07
(10) .....	.60	.30	.60	.50	1.50	.55	.75	.75
(11) .....	.25	.25	.30	.20	.50	.32	.20	.20
(12)	5.80	4.80	9.00	6.75	5.00	5.75	8.00	5.75
(13)	4.50	3.70	5.00	4.60	5.00	5.20	7.00	4.75
(14) .....	.105	.10	.12	.0975	.12	.144	.15	.095
(14a)	5.25	4.50	4.50	5.20	5.25	6.80	7.35	6.25
(15)	6.50	9.75	9.00	9.75	9.80	8.75	15.00	6.25
(16)	6.10	6.45	9.00	9.56	11.00	6.75	14.00	7.00
(17)	5.10	4.35	6.00	6.45	5.15	4.85	7.75	5.00
(18) .....	.0075	.0075	.0075	.0125	.012	.014	.01	.0125
(19) .....	.02	.02	.015	.0125	.03	.02	.02	0.15
(20) .....	.0175	.01	.015	.015	.025	.02	.015	.02
(21) .....	.04	.05	.05	.05	.05	.15	.10	.04
(22) .....	.04	.05	.03	.05	.10	.10	.10	.04
(23) .....	.15	.50	1.00	.30	.60	1.00	.50	.50
(24) .....	.80	.50	.50	1.00	2.00	1.00	1.00	1.00

PROPOSAL NO. 2

	(A)	(B)	(C)
(1)	\$100.00	\$100.00	\$ 91.00
(2) .....	.22	.25	.40
(3)	10.00	.50	25.00
(4) .....	.22	.20	.20
(5) .....	.85	.60	.50
(6) .....	.25	.20	.30
(7) .....	.185	.15	.20
(8) .....	.035	.10	.10
(9) .....	.035	.09	.085
(10)	1.00	.60	1.00
(11) .....	.35	.30	.22

PROPOSAL NO. 3

	(A)	(B)
(4)	\$.30	\$.50
(4a) .....	.25	.65
(12)	7.00	5.69
(13)	5.50	5.42
(14) .....	.08	.142
(14a)	4.50	5.77
(15)	11.05	10.11
(16)	11.00	10.11
(17)	6.52	6.52
(18) .....	.01	.009
(19) .....	.01	.025
(20) .....	.0125	.205
(21) .....	.02	.13
(22) .....	.05	.64
(23) .....	.50	1.27

The unit bids were:

	(A)	(B)	(C)	(D)
(1)	\$.34	\$.35	\$.29	\$.30
(2)	30.00	20.00	10.00	5.00
(3) .....	.04	.04	.03	.02
(4) .....	.48	.55	.45	.35
(5)	1.00	1.00	1.25	1.00
(6)	100.00	100.00	200.00	50.00
(7) .....	.74	.78	.91	.65
(8)	28.00	30.00	30.00	25.00
(9) .....	.08	.06	.08	.06
(10)	1.50	1.75	3.00	1.50
(11)	2.25	2.50	3.75	2.50
(12)	4.00	4.00	5.00	3.50
(13)	4.00	5.00	5.00	3.00
(14)	200.00	100.00	250.00	100.00

LYON COUNTY, Nevada. — Nevada
 Rock & Sand Co., Reno, awarded the
 contract by S. C. Durkee, State High-
 way Engineer, Heroes Memorial Bldg.,
 Carson City July 6 at \$54,728.40, for
 constructing a portion of the state
 highway system between nine miles
 northeast of Dayton and 12 miles west
 of Lahontan, 9.91 miles, Route 8A,
 Section C1, involving:

- (1) 41,600 cu. yds. rdwy. excav.;
- (2) 60 acres clearing.
- (3) 35,815 yd. sta. overhaul;
- (4) 10,485 cu. yds. select borrow;
- (5) 800 cu. yds. struc. excavation;
- (6) 9.91 miles subgrade;
- (7) 31,300 cu. yds. crushed gravel or
stone surf.;

- (8) 59 cu. yds. Class B concrete;
- (9) 1400 lbs. reinforcing steel;
- (10) 1464 lin. ft. 18-in. corru. metal
pipe;

- (11) 320 lin. ft. 24-in. do;
- (12) 138 lin. ft. 36-in. do;
- (13) 38 monuments;
- (14) 9.91 miles finish roadway.

The total bids were:

- (A) Nevada Rock & Sand Co., Reno,
\$54,728.40.
- (B) Dodge Const. Co., Inc., Fallon,
\$56,113.35.
- (C) M. J. Bevanda, Stockton, Calif.,
\$64,913.20.
- (D) Engineer's estimate, \$44,949.55.

Sec. 436 1/2, P. L. & R.
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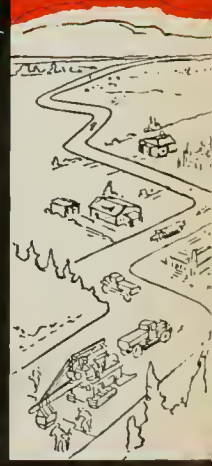
NATIONAL GAIN IN RESIDENTIAL BUILDING
REVERSES SEASON TREND

S. F. COMMITTEE APPROVES \$23,515,000
FEDERAL AID PROJECTS

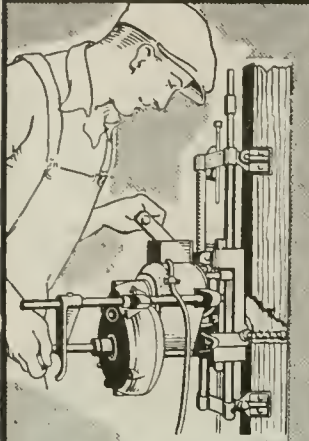
TEXT OF CONTRACTORS' CODE PROPOSED
BY A. G. C.

BUILDING PERMITS — ADVANCE REPORTS
OF BUILDING AND ENGINEERING
PROJECTS

UNIT PRICE REVIEW



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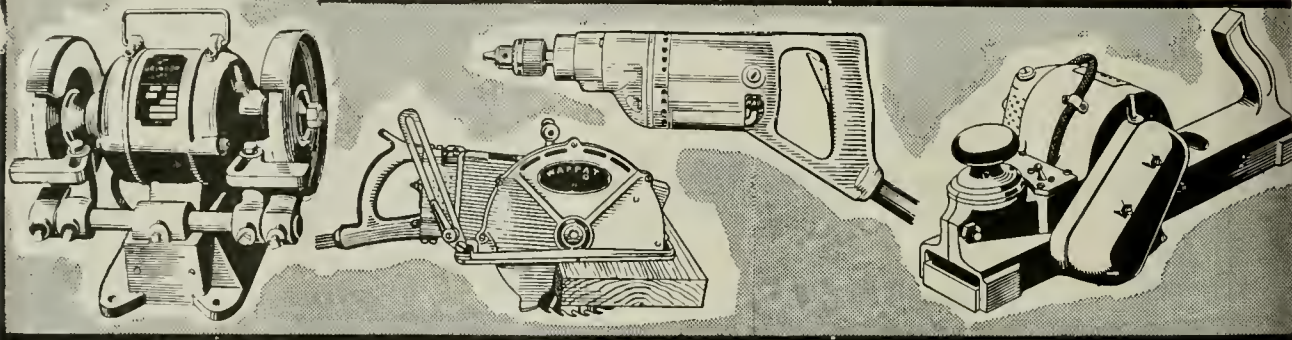
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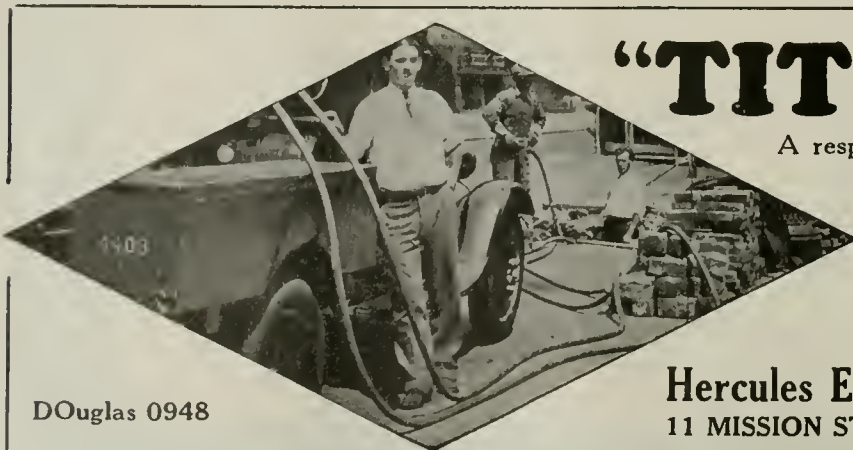
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SAN FRANCISCO, CALIF., JULY 29, 1933

No. 28

ABANDON CITY SCHOOL AFTER INSPECTION

**Strength of 16 Buildings is
Advised by Structural
Engineers**

Immediate abandonment of the Lincoln School at Fourth and Harrison streets was ordered by the Board of Education following a report by John B. Leonard, chief of the bureau of building inspection, which characterized the building as unsafe in the event of an earthquake.

Leonard's report was the result of an investigation ordered by the board shortly after the Long Beach earthquake.

The report also covered the Sunnyside School at Hearst avenue and Foerster street and the Adams School at Eddy and Polk streets.

Leonard's engineers recommended that the Adams School be strengthened by the installation of new connections and knee braces. The building was taken as typical of sixteen Class C school buildings erected on the same plan.

The old Sunnyside building was found to be free from earthquake hazard. The new building was not covered by the report.

The Board of Education is expected to rule on the recommendation for strengthening the seventeen buildings at its meetings next Tuesday. Board officials are studying the report and estimating the cost of necessary repair work.

Work of strengthening the schools is expected to proceed immediately, according to D. P. Hardy deputy superintendent of schools.

On the whole, the report was favorable, Hardy said, indicating that the schools would withstand any ordinary quake shock.

Abandonment of the Lincoln School was recommended because engineers found it was built on a filled-in creek, without pile foundations. The creek has shifted and undermined the building, Leonard said.

The board's action in making the schools safe from earthquake hazard comes simultaneously with its campaign for federal aid funds to replace "firetrap" frame structures.

THE WEEK'S NEWS Highlights

CITY PROJECTS. Municipal construction projects proposed by the Public Utilities Commission and other city departments totaling \$23,515,000 are approved by the San Francisco citizens committee to be included in the list presented for Federal aid. Most of the items are classified self-liquidating, providing extension of the city's water mains, additional fire-protection, raising of the O'Shaughnessy dam and construction of Red Mountain Bar power house.

BETTER SCHOOLS. One school was ordered abandoned and it is probable that at least sixteen other Class C structures will be strengthened as a result of the investigation by John B. Leonard, chief of the San Francisco bureau of building inspection. The board of education has Leonard's report before it for consideration. The survey of city school buildings was ordered following the Southern California earthquake.

CODE AID. Assistance of the State Registrar of Contractors has been offered units of the construction industry in formulating competitive codes, later to be made into a state-wide regulatory program. The registrar's office has offered to act as a clearing house for information of groups seeking advice in preparing voluntary agreements.

BRIDGE CAISSON. First caisson for the San Francisco-Oakland bridge was launched at the Moore Dry Dock, Oakland, last Wednesday. The structure is 74 feet 6 inches wide and 127 feet long. Its walls are 17 feet deep now but will be built up to 75 feet before it is towed to a point west of Yerba Buena island to be sunk.

SALES TAX. Contractors already at work on public works jobs are exempt from the state sales tax on materials entering into the contract in progress, under a special amendment to the act. The new state levy would have added as much as half a million dollars to a single contract on the bay bridge, it was estimated.

\$754,276,188 IN FIRST ALLOTMENT ON FEDERAL CASH

**Highway and Ship Building
Funds Compose Bulk of
Allocation**

Over three-quarters of a billion dollars have been allotted from the \$3,300,000,000 Federal fund for job-creating useful public works, the Federal Emergency Administration of Public Works has announced.

Secretary of the Interior Harold L. Ickes, as Federal Public Works Administrator, was informed that since the Public Works Law was enacted a little more than a month ago allotments have been made amounting to \$754,276,188. The money will be spent in every state.

The Secretary-Administrator was told that projects already approved will provide more than 13,070,788 man-weeks of direct labor. Indirectly, jobs will be opened for a much larger number of men. It has been estimated that for every man employed directly on the site of a public works project more than two are beneficially affected elsewhere.

The character of projects already approved by the Public Works Administration are those designed to get men back on the job as quickly as possible. The policy has been to create a large number of jobs before the summer passes to move men from relief rolls to pay rolls.

With this thought in mind the Public Works Administration has made allotments of \$400,000,000 for roads, \$238,000,000 for the Navy and more than \$65,000,000 to be expended by various governmental agencies on purely Federal projects.

Road assignments have been approved for most of the states. This quick distribution of road funds will insure employment for at least 100,000 men directly on the highways within a few weeks. Peak operations are expected to be reached by September.

BOARD APPOINTMENT

Louis J. Gill, San Diego, has been reappointed member of the State Board of Architectural Examiners, Southern District, by Gov. Rolph.

McKEE PLEDGES PROTECTION OF SUB-CONTRACTOR

Los Angeles Firm Urges Policy
Of Guaranteeing Award
On Original Bid

A pledge to protect sub-contractors on all bids has been distributed to the trade by Robert E. McKee, general contractor of Los Angeles, accompanied by a statement of policy endorsing the principles of the National Industrial Recovery Act.

The McKee letter said:

"Believing that the construction industry, due to its lack of organization and coordinated efforts, has suffered greatly in the past two or three years from many mal-practices in the profession, wish to state that we have decided to inaugurate an entirely new policy in connection with any construction which we might have or expect to get in the future.

"We believe it to the best interests of contractors, sub-contractors and material men involved, that each material man and sub-contractor submit his best, his lowest and only figure to the general contractor before the letting and after that date there should be no changes for any reason whatsoever in said prices. The general contractor should depend upon his figured profit for his profit. If we can secure the proper cooperation from the sub-contractors and material men in the district where we are contracting, we expect to follow a policy of awarding all sub-contracts and orders for materials to the lowest original bidder where possible, bearing in mind the responsibility of the sub-contractor and the material man to fulfill his agreement.

"Regardless of any practices that the contractors have been compelled to resort to in the past, the time has now come when same should be discarded. Each man in the profession is, and should be entitled to a fair profit. Such a policy can only be held to by myself, provided that our competitors, as well as people we are dealing with, are in accord. We are going to try out this policy and trust it will be successful, because I am sure it will be to the mutual interest of all concerned.

"I also believe it advantageous for all general contractors, should it be necessary, to secure even a less volume of work than they have been doing in the past, in order that all other responsible

WARDELL NAMED REGIONAL CHIEF

Appointment of Justus Wardell of San Francisco as regional administrator of the Federal public works program for the Sixth District, with headquarters here was reported in news dispatches from Washington yesterday. Mr. Wardell will administer expenditures in the states of California, Arizona, Nevada and Utah. The regional administrators are responsible directly to Secretary of the Interior Harold Ickes, Federal works administrator.

EARLY CHAIRMAN OF CREDIT BUREAU

The appointment of J. H. Early, Northern California credit manager of Truscon Steel Co., as chairman of the Construction Industries Credit Bureau, a department of the Credit Managers' Association of Northern and Central California, has been announced by Frank H. Eichler president.

Early has been active in credit affairs for the past twenty years. He has been identified with the Construction Industries Credit Bureau since its inception. He was chairman of the Building Material Chapter during 1930 and 1931, and was recently re-elected to the board of directors of the Credit Managers' Association of Northern and Central California.

Early will be assisted in carrying out his policies by A. J. McGarry, who has been manager of the Construction Industries Credit Bureau since its inception, together with a representative group of committeemen of the many crafts of the industry, including finance, bonding, manufacturers and material suppliers.

REDWOOD CITY SETS CONTRACTORS' FEE

Redwood City council has approved an ordinance requiring a \$25 annual license fee for plumbers with established businesses in the municipality. Non-resident contractors will be required to pay \$50 annually.

contractors may have work, but such work should be on a basis of a reasonably sure profit.

"Also, we are in sympathy with the prevailing wage act, provided that the prevailing wages are set before the contract is let. This applies of course to all sub-contractors as well as to the general contractor."

NATIONAL GAIN IN RESIDENTIAL BUILDING 8.7%

Increase From May to June
Contrary to Usual Seasonal
Trend

Building permit reports received by the Bureau of Labor Statistics of the United States Department of Labor from 762 identical cities having a population of 10,000 or over show a decrease of 36.5 per cent in indicated expenditures for total building operations comparing June with May. The total number of building operations decreased 6.3 per cent. The decrease in indicated expenditures is caused by the inclusion in the May figures of the permit for the San Francisco-Oakland bridge. If the bridge figures were excluded from the May total a substantial increase would have been shown by the June figures.

New residential buildings increased 15.3 per cent in number and 8.7 per cent in indicated expenditures. The trend, comparing June expenditures with May expenditures, in the past has usually been downward for this class of structure.

Comparing June 1933, with May 1933, there was a decrease of 11.2 per cent in the number and a decrease of 66.1 per cent in indicated expenditures for new non-residential buildings.

Additions, alterations, and repairs decreased 7.1 per cent in number but increased 11.9 per cent in estimated cost.

During June 1933, 4,017 family-dwelling units were provided in new buildings. This is an increase of 3.6 per cent as compared with May.

The various agencies of the United States Government awarded contracts during June for buildings to cost \$1,039,304. This is the smallest award for Federal buildings for any month during 1932 or 1933.

Comparing permits issued in 345 identical cities having a population of 25,000 or over in June 1933, and June 1932, there was an increase of 21.8 per cent in the number of new residential buildings an increase of 17.6 per cent in the indicated expenditures of this class of building.

New nonresidential buildings decreased 15.2 per cent in number and 57.1 per cent in estimated value.

There was an increase of 15.7 per cent in the number and an increase of 28.7 per cent in indicated expenditures for additions, alterations, and repairs.

Total building operations increased 8.9 per cent in number but indicated expenditures decreased 25.1 per cent.

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LOAN TO BUILD L. A. SCHOOLS IS RULED LEGAL

Attorney General Holds Emergency May be Met by Borrowing

In reply to a query from Alfred E. Lents, Acting Secretary of the Board of Public Building Reconstruction of the State Department of Education, Attorney General U. S. Webb yesterday ruled that the state may legally accept a loan from the Reconstruction Finance Corporation for rebuilding of school structures destroyed in the Southern California earthquake last March.

Webb favored the plan of the state retaining title to the new school buildings and renting them to the school districts until they are fully paid for, in approximately twenty years.

Commenting on the apparent conflict of recent emergency legislation at Sacramento establishing a Unified Rehabilitation Corporation to seek money from the government to rebuild the schools at a cost of nearly \$22,000,000 with provision of the state constitution that the state may not incur a total indebtedness of more than \$300,000,000 without submitting a bond issue to voters, Webb pointed out that the purpose of the state law was to prevent extravagance and save the state from financial distress, while in the case of the schools there is no question of extravagance—the federal government is anxious of loan money to states for such projects.

Webb held that the plan of the state retaining the title to the schools would eliminate difficulties arising from school district provisions limiting the amount of indebtedness the districts may incur.

He pointed out that minor legal and technical obstacles may be overlooked, in view of the broad discretion allowed the Reconstruction Finance Corporation by Congress, and since "it is inconceivable" that the state or school districts should seek to free themselves from obligations to the government by any legal technicalities.

CLYDE WOOD LOW ON L. A. ROADS

SPECIAL TO DAILY PACIFIC BUILDER
LOS ANGELES, July 24—Clyde W. Wood, Stockton, submitted the low bid of \$45,034 for construction of approximately 7.5 miles of road in Riverside county for the Los Angeles Metropolitan Water District. Other bids were as follows: Basich Bros., Torrance, \$49,614; Yglesais Bros., San Diego, \$51,830; A. Teichert & Sons, Sacramento, \$57,701.

The bids were taken under advisement.

The contract includes excavation and grading, surfacing and placing culverts.

\$4 MINIMUM WAGE APPROVED IN L. A.

While 700 Southern California building contractors crowded Los Angeles Metropolitan High School auditorium a mass meeting called by the Associated General Contractors adopted minimum wage scales of \$4.00 per day for unskilled labor and \$6.00 per day for skilled mechanics. A working week of forty hours was also adopted.

According to F. J. Connolly, manager of the Associated General Contractors, this action automatically increases and stabilizes the wages and working conditions in the building industry, and eliminates the deplorable conditions caused by unscrupulous operators contracting their labor for a "lump sum" or on a "piece work" basis, which frequently results in wages as low as \$2.00 per day. He further stated that these regulations will prevent some men from working 10 or 12 hours a day six or seven days a week, while others are wholly unemployed.

The building contractors also approved the basic code of fair competition for general contractors which was submitted to General Hugh S. Johnson, Federal Administrator, by the national officers of the Associated General Contractors.

COMMITTEE OKEH ON \$23,515,000 CITY PROJECTS

School Rebuilding and Water System Improvements Are Listed

Construction projects totaling \$11,505,000 were approved yesterday by Mayor Rossi's citizens' committee for recommendation to the Board of Supervisors for possible share in the \$3,300,000,000 National Industrial Recovery Act funds.

The principal items passed by the committee were power projects submitted by E. G. Cahill, director of public utilities.

Urged for federal approval as "self-liquidating" were the raising of the O'Shaughnessy Dam at the head of the Hetch Hetchy Water System, at a cost of \$3,500,000, and the construction of the Red Mountain Bar power house at \$1,000,000.

Also approved were: extension of the fire department's high pressure system, \$1,865,000; Cisterns for the fire department water system, \$140,000; Rebuilding of "fire-trap" schools, \$2,500,000; Sewer replacements, \$2,500,000.

The committee last week recommended to the supervisors \$12,010,000 worth of city water projects, with today's action bringing the total to \$23,515,000.

Action on Cahill's proposal to construct a municipal power line from Newark to San Francisco was deferred on Mayor Rossi's motion. The project was held not immediately necessary and hence unlikely to receive a share of federal funds.

If the projects are approved by federal administrators, the Board of Supervisors will submit a bond issue to voters to pay for San Francisco 70 per cent share in the cost.

PLAN BUILDING CODE FOR N. SACRAMENTO

City Clerk W. O. Irwin of North Sacramento has been instructed to obtain copies of municipal building codes of cities of similar class to be studied by the city council in preparation of a new ordinance for that city.

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Text of Construction Code Submitted By Associated General Contractors

Following is the text of the proposed competitive code for general contractors submitted to the National Recovery Administration by the Associated General Contractors of America:

The Associated General Contractors of America, a national trade association representative of general contractors throughout the United States for more than fourteen years last past, pursuant to the purpose of the general contractors of the construction industry to cooperate with the President of the United States in effectuating the policy declared in Title I of the National Industrial Recovery Act, does hereby recommend and submit for approval pursuant to Section 3 of said title the following Code of Fair Competition and plan for its administration for all construction work insofar as it pertains to general contractors.

ARTICLE I (a). This national trade association of general contractors affirms that it imposes no inequitable restrictions on admission to membership therein, and is truly representative as a national trade association of the general contracting industry.

(b). This Code will not promote monopolies or eliminate or oppress small enterprises and will not operate to discriminate against them and will tend to effectuate the policy of said Title I. It is expressly recognized that the President of the United States may, as a condition of his approval of this Code, impose such conditions (including requirements for the making of reports and the keeping of accounts) as may be expedient in the furtherance of the public interest for the protection of consumers, competitors, employees and others, and may provide such exceptions to and exemptions from the provisions of this Code as the President of the United States in his discretion deems necessary to effectuate the policy herein declared.

ARTICLE II. Declaration of Policy—In order to induce and maintain the united action of labor and management under adequate governmental or private sanctions and supervision, to eliminate unfair competitive practices and to advance the public interest, to reduce and relieve unemployment, to improve standards of labor and living and otherwise to rehabilitate the general contracting industry and effectuate the policies set forth in the National Industrial Recovery Act, this Code of Fair Competition governing the furnishing of construction services by the general contracting industry is adopted.

ARTICLE III. Definition and Functions of a "General Contractor"—When used in this Code the term "general contractor" is any person, partnership, company, association, corporation or agency which contracts to supervise, coordinate and/or execute the work of constructing an improvement substantially in its entirety, as is embraced in plans and/or specifica-

tions. Any person, firm, partnership, agency, company, association or corporation undertaking to direct, supervise, coordinate and/or execute construction work whether by formal contract or otherwise in excess of one thousand dollars (\$1,000) in the aggregate shall be subject to compliance with these Articles and Code as fully and completely as shall any person, firm, partnership, agency, company, association or corporation known or designated as a "general contractor" in the construction industry.

ARTICLE IV. Regulations Governing Relations With Labor:

Section 1. Labor Conditions—In accordance with the requirements of the National Industrial Recovery Act,

(a). Employees shall have the right to organize and bargain collectively through representatives of their own choosing, and shall be free from the interference, restraint, or coercion of employers of labor, or their agents, in the designation of such representatives or in self-organization or in other concerted activities for the purpose of collective bargaining or other mutual aid or protection.

(b). No employee and no one seeking employment shall be required as a condition of employment to join any company union or to refrain from joining, organizing, or assisting a labor organization of his own choosing.

(c). Employers shall comply with the maximum hours of labor, minimum rate of pay and other conditions of employment, approved or prescribed by the President.

Section 2. Minimum Wages—(a) A general contractor shall pay wages not less than the minimum rates which are established regionally or locally by mutual agreements between truly representative groups of employers and employees, and approved by the President, as provided by Section 7 (b) of the National Industrial Recovery Act. Where such rates are not so established the minimum rate of wages determined in each of the several states under authority of Section 204 (c) of Title II of the National Industrial Recovery Act shall be used as the minimum rates for all kinds of construction work.

(b). A general contractor shall require sub-contractors and other agencies requiring the services of laborers or mechanics on the site of the work to pay not less than the established minimum rates of wage.

(c). A general contractor shall not resort to the use of what is known to the trade as "piece work" or similar contractual relationship in his employment of labor, when tending to defeat the spirit and purpose of Section 7a-3 of Title I

of the National Industrial Recovery Act.

Section 3. Maximum Hours—(a) A general contractor shall not permit nor require any individual directly employed on any construction project to work more than 150 hours in any one month, so far as practicable and feasible, EXCEPT, those in executive, administrative and supervisory positions, and EXCEPT, as a lesser number of hours is required by Title II of the National Industrial Recovery Act relating to Public Works and Construction Projects thereunder.

(b). A general contractor shall require all subcontractors and other agencies requiring the services of laborers or mechanics on the site of the work to observe strictly the maximum hours provisions established herein. Nothing herein shall be construed as preventing voluntary agreements establishing a lesser maximum number of hours as provided in the National Industrial Recovery Act.

Section 4. Labor Welfare—A general contractor shall at all times have the welfare and safety of his workmen at heart. He shall comply except as superseded by the State laws, with the provisions of the Safety Manual adopted by the Associated General Contractors of America, or the Safety Platform of the Construction League of the United States, or the rules set forth by the National Safety Council and local ordinances referring to safety measures, insofar as the same may apply to his class of work.

Section 5. Payment of Wages—A general contractor shall make payment of all wages as due in lawful currency of the United States, or its equivalent in the form of a bankable check. The contractor or his agents shall accept no rebates directly or indirectly on such wages, nor give anything of value or extend favors to any person for the purpose of influencing rates of wages or the working conditions of his employees.

ARTICLE V. Regulations Governing Relations with Subcontractors, Material Vendors and Others.

Section 1. Payments—A general contractor shall pay all subcontractors, material vendors and others not less than their proportionate amount of partial payments made by the owner to the general contractor during the progress of the work and they shall receive final payment of the unpaid balance not later than ten days after the general contractor has received final payment from the owner, except where earlier payments and/or in greater amounts are mutually agreed upon.

Section 2. Prohibited Rebates, Etc.—A general contractor shall not give or accept rebates, refunds, allowances, unearned discounts or special services to or from subcontractors, material vendors or others which are not extended under like terms and conditions to other purchasers of materials or services of equal credit rating.

Section 3. Financing—A general contractor shall not permit subcon-

tractors or material vendors on a specific contract to finance or guarantee his accounts.

Section 4. Bids Confidential—A general contractor shall not convey to any subcontractor or material vendor any substantial information prior to the award of the particular sub-contract relating to the bid of any other subcontractor or material vendor who has made a bid to him or to any other general contractor, nor shall he mislead or deceive any subcontractor or material vendor as to the amounts and conditions of other bids for the purpose of obtaining a lower bid.

Section 5. General Requirements—A general contractor, in his relations with subcontractors, material vendors and others shall require such parties to adhere to the principles enunciated by this Code of Fair Competition.

Section 6. Waiver of Legal Rights—A general contractor, in his contractual relations with other parties, shall not waive any rights affecting another party of interests without first fully informing such other party as to such action and receiving his consent in writing.

Section 7. Plans and Specifications—A general contractor shall not be held responsible or penalized for deficiencies in or omissions from the plans and/or specifications prepared by others and upon which the contract is based.

ARTICLE VI. Regulations Governing General Contractors.

Section 1. Qualification—A general contractor shall be properly qualified by capital, organization, experience and equipment to bid upon and properly execute the construction contract which he undertakes.

Section 2. Performance Records—A general contractor submitting a proposal for public works construction shall, as an essential precedent condition of qualification for public works construction, file his performance record with the Bureau of Contract Information, Washington, D. C., or any other agency authorized and designated by the Public Works Administrator provided by Title II of the Act. Such records shall be available only to those entitled to information by reason of their responsibility for the award of contracts, the writing of contract bonds or the extension of credit. A general contractor shall keep such records current by submitting supplemental data at such periods as the agency shall prescribe.

Section 3. Credit Information—A general contractor shall make available upon request to those responsible for the award of construction contracts, pertinent information as to his current financial position, using the Standard Questionnaire Forms developed and approved by and available through the Joint Conference on Construction Practices, Washington, D. C.

Section 4. Reports and Accounts—(a). A general contractor shall maintain a system of making reports and shall keep adequate accounts as provided in Title I, Section 3A, paragraph 2 of the National Industrial Recovery Act. All

moneys received and expenditures made shall clearly show the allocation, to each improvement of real property or a public improvement, of the funds received and disbursed on account thereof.

(b). Funds received by a general contractor for construction work shall be accepted and applied first for the purpose of paying proper costs of making such improvement, including amounts due to employees, materialmen, subcontractors and others. This shall not be construed to require a general contractor to keep in separate bank accounts or deposits the funds received under separate contracts, provided that books of account shall clearly show the allocation to each and every contract of the funds deposited in his general or special bank account or accounts.

Section 5. Contractual Agreements—The following bases of contractual agreements are recognized as fair trade practices: guaranteed price; cost of the work plus a fee; unit price; lump sum; and other contractual methods not inimical to the public interest; providing that the regulations proposed by this Code of Fair Competition are met.

Section 6. Submitting Bids—A general contractor, in submitting bids for the construction or improvement of either public or private works, shall be governed by the following regulations necessary to insure fair competition, since it is essential that whenever contracts are to be let by competitive bidding, the terms of the competition shall be such as to insure parity of standing to all bidders.

(a). All bids shall be in writing signed by the bidder.

(b). A general contractor shall not take advantage in his bid of any special privileges, favors or understandings had with him by persons in control of the award. This, however, shall not prevent any competitor, even though not the lowest bidder, from taking such contract, providing the award is made at his original competitive bid price, nor shall it prevent any contractor from accepting the award of such contract at any price where no competitive bids are taken.

(c). A general contractor shall not revise his bids after bids have been opened in order to improve his position with the owner, except he be the low bidder. Bona fide errors discovered after the opening of bids may be grounds for withdrawal of bid.

He shall not encourage or induce the owner or his agent to reject bids and re-advertise in order that he may revise his original offer, nor shall any general contractor bid upon a construction project upon which bids have previously been invited, received and opened at any time within 90 days from the date of the previous opening of bids next thereafter, except there be substantial changes of the plans and specifications.

(d). A general contractor shall not knowingly submit a bid nor accept a contract which does not include all direct and indirect costs and include a reasonable amount

for profit and he shall maintain and keep on file his original estimates supporting his bid or contract.

(e). A general contractor shall not be required to accept the award of a contract after fifteen (15) days after the date of opening of bids.

(f). To establish parity in bidding as to wages, prior to the establishment of wage rates according to Sec. 7 (b) of the Act there should be established by competent authority rates on which all bidders shall base their bids, (but not less than those set under Sec. 201 (c) of Title II of the Act and set forth in Article IV Sec. 2 herein) and which shall be effective under the contract until other rates have been established as provided by Sec. 7 (b) of the Act, when they shall become effective after which a proper adjustment of the contract price as to wages shall be made between the owner and contractor.

Section 7. Payment—A general contractor shall demand and insist upon receiving the contract payments as they become due in lawful money of the United States or its equivalent, as provided by the contract, and he shall not waive his right to receive any part of such contract payments, nor shall he return to the owner or his agent any part of such contract payments, nor shall he return to the owner or his agent any money or render him any service or give him anything of value not required by the contract.

Section 8. Unfair Practices—A general contractor shall not engage in the unfair practice known to the industry as "bid peddling," or any similar unfair practice. He shall not knowingly aid, or engage in an unfair trade practice, whether or not specifically described in this Code, and shall refuse to deal with any person or persons who have not complied with the Code of Fair Competition herein defined.

Section 9. Surety—A prequalified general contractor, who has met the necessary qualifications entitling him to the work, but who is unable, due to conditions beyond his control, to obtain the proper surety required by the contract, may agree with the owner and the National Industrial Control Committee for General Contractors upon a suretyship of some other nature.

Section 10. Disputes—A general contractor shall be ready and willing to settle disputed matters promptly. Where arbitration as a method of settling disputed matters is agreed upon, the rules of procedure as established by the American Arbitration Association shall govern, except as otherwise required by law. Payment shall not be withheld from the parties affected exceeding that sufficient to cover the amounts in dispute.

ARTICLE VII. Regulations Correlating All Construction Works Interests:

To effectuate the purpose and the policy of the National Industrial Recovery Act and this Code of Fair Competition for General Contractors, it is essential and requisite that, in a construction work contract, all interested parties and participants, or their agents, be obli-

gated to adhere and conform to the basic principles regulating it. Therefore, all such persons shall have correlative responsibility to adhere and conform to the basic principles of the National Industrial Recovery Act and this Code of Fair Competition for General Contractors.

ARTICLE VIII. Administration

Section 1. Amendments—(a) It is recognized, in accordance with Section 9, paragraph B of Title I of the National Industrial Recovery Act, that the President of the United States may, from time to time, cancel or modify any rule or regulation in this Code of Fair Competition prescribed for the general contracting industry.

(b). Amendments or revisions may be proposed by general contractors, acting through their national trade association designated as the Associated General Contractors of America.

(c). The provisions of this Code may be further supplemented by groups of general contractors operating in the same class of construction work or in the same geographical region or locality, which supplements shall be proposed to the Administrator of the National Industrial Recovery Act by the national trade association, when consistent with this basic Code and other rules or regulations promulgated by the President, and the spirit and purpose of the National Industrial Recovery Act.

Section 2. Administration Committee

(a) To effectuate the purposes of the Code and provide for administrative control within the industry, there is established a "National Industrial Control Committee for General Contractors," which shall be the members and alternates of the Executive Committee which is appointed by and from the Board of Governors duly elected by the general contractors composing the national trade association, herein designated. That committee shall appoint five additional members representative of and responsible to non-members of the national trade association.

(b). The National Industrial Control Committee for General Contractors shall have full authority to make all needful rules and regulations for the administration and enforcement of the provisions of this Code, and, upon the complaint of a local or regional committee or interested parties or upon its own initiative shall make such inquiry and investigation and take such other action as may be necessary under the operation of this Code. This Committee shall have full authority to establish subordinate State, local and regional committees and prescribe such duties, rules and regulations as are deemed necessary to carry out the purposes of this Code and the National Industrial Recovery Act.

Section 3. Administration Expenses—All general contractors as defined in this Code shall bear their proportionate share of the expense incident to securing the approval of and administration of this Code of Fair Competition under such rules and regulations as may be ap-

REGISTRAR WILL AID IN DRAFT OF LOCAL CODES

State Dept. to Work With Construction Industry Groups

SACRAMENTO, July 22. — Decision to formulate a series of codes of ethics and fair competition to regulate the construction and allied industries in every California city under the National Industrial Recovery Act, was reached today following a conference of state officials and construction industry leaders.

The codes are aimed to improve economic conditions in the various units of the construction industry, eliminate bid-peddling and other unfair practices, as well as regulate wage levels and hours of labor, and provide for the ethical conduct of the industry. The industry must take the lead and draw up a code of self regulation.

Although national codes for various units of the construction industry are now pending before President Roosevelt's recovery board, it is announced that statewide, as well as regional, codes should be drafted by each branch of the industry. These subordinate codes will be patterned after the national code finally approved by the government, and will vary only insofar as local conditions require.

These regional codes will be drafted by the industrial groups in their respective localities, and it was urged at the conference that organization meetings be held in crafts and groups immediately. The crafts and group meetings will be held Monday at Tahoe City and Tuesday at Grass Valley.

Colonel Carlos W. Huntington, state registrar of contractors, who sponsored the meeting, today pledged the cooperation of his department in aiding the industry to formulate a code. He said a skeleton code form would be drafted for the "sole purpose of aiding the various groups in the industry in this important undertaking."

The registrar's office also offered to act as a clearing house for all groups or individuals under its jurisdiction seeking assistance or information concerning a code. Staff inspectors of the registrar will aid local groups, pending the appointment of a regional national recovery administrator for California. Codes may be filed with the regis-

proved by the President under Section 10 (a) of Title I of the National Industrial Recovery Act.

Section 4. Effective Date—This Code shall be effective when approved by the President of the United States and shall be applicable only to all construction work undertaken pursuant to contracts entered into or otherwise commenced after such approval date.

EASTBAY PLAN STIMULANT TO HOME BUILDING

Business Leaders Join Campaign to Promote Residential Development

Requests for complete details of the Eastbay Recovery Committee's "Plan for Home Financing" have averaged 31 a day since the preliminary public announcement last Tuesday, according to a statement issued by the committee yesterday from their headquarters at 1212 Broadway, Oakland.

These requests have come from individuals who are interested in building their own homes under the new plan, from business leaders who appreciate how much any revival of the building industry will mean to general business improvement and from industrial and civic organizations who wish to cooperate with the entire program, according to Thos. G. McGuire, chairman of the executive committee.

The chief features of the committee's program, first announced at a luncheon meeting held this week and attended by business and civic leaders, is the new type of financing it makes available for home construction. Individuals financing a home under this plan will be able to secure construction loans of as high as 70 and 80 per cent of the total value of the home and lot. Interest rates will be as low as 6 per cent. The customary brokerage and carrying charges and the need for re-financing after a short time have all been eliminated. Loans will be amortized at the rate of 1 per cent per month.

The details of the plan were worked out by a group of business men who recognized the importance of normal residential building volume to general business recovery, McGuire said. He added:

"Since 45 per cent of the nation's payroll is represented by wages paid in the building industry, the value of any plan that will stimulate building is apparent. The percentage of building trades' wages in Pacific Coast payrolls is close to 75 per cent, because the Pacific Coast is not, comparatively speaking, an industrial section.

"Every phase of the actual building of homes will be subject to competitive bidding. The executive committee will supervise preliminary contacts between the prospective home-owner and those whom he chooses to carry on the work of building. Close supervision of the various details will be furnished through the means of a Technical Advisory Committee, acting without remuneration, consisting of Wm. E. Schirmer, president of the Eastbay Architects' Association, S. G. Johnson, president of the Association of General Contractors, and H. K. Schultze, Alameda County representative, State Department of Vocational and Professional Standards."

PERMITS AND CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
524	Calden	Robinson	3000
525	Chase	Owner	2500
526	Herzig	Owner	36000
527	Renn	Masarie	4000
528	Doelger	Owner	4000
529	Doelger	Owner	4000
530	Doelger	Owner	4000
531	Doelger	Owner	4000
532	Doelger	Owner	4000
533	Doelger	Owner	4000
534	Johnson	Owner	4000
535	Stelling	Young	3000
536	Whitney	Owner	19750
537	Heuter	Barrett	3000
538	Associated	Masten	7000
539	Depaoli	Lindsay	3948
540	Hadnett	Michael	5000
541	Pownell	Johnson	3000
542	Schmidt	Owner	2750
543	Delucchi	Soracco	5000
544	Swigert	Owner	3750
545	North	Owner	5000
546	Arnott	Owner	12000
547	West	Young	2000
548	Steinman	Little	5000
549	Ryan	Owner	5000
550	Huff	Elkington	5000
551	Kastner	Owner	1000
552	Alfonso	Icardi	1200
553	Hallenbarter	Owner	1500
554	Purser	Isaac	6000
555	Grahn	Owner	2750
556	Benett	Hjul	1800
557	Grahn	Owner	2750
558	Pacific	Owner	2850

STORES
 (524) NW IRVING AND FORTIETH Ave. One-story frame stores.
 Owner—J. A. Cadden, 648 Cole St., San Francisco.
 Plans by Contractor.
 Contractor—Robinson & Johnston, 871 31st Ave., San Francisco. \$3000

DWELLING
 (525) E FORTY-SEVENTH AVE. 225 N Fulton St. One-story and basement frame dwelling.
 Owner—S. F. Chase, Box 21, Presidio, San Francisco.
 Architect—Not Given. \$2500

DWELLINGS
 (526) W TWENTIETH AVE 67 N Ocean Ave. Nine one-story and basement frame dwellings.
 Owner—A. J. Herzig, 635 Victoria St., San Francisco.
 Architect—Not Given. \$4000 each

ALTERATIONS
 (527) NO. 3032 PIERCE ST. Alter dwelling
 Owner—Mrs M. Renn, 1595 Treat Ave. San Francisco.
 Architect—Not Given.
 Contractor—Masarie & Cuneo, 2550 19th St., San Francisco. \$4000

DWELLING
 (528) W TWENTY-NINTH AVE 266 N Judah St. One-story and basement frame dwelling.
 Owner—H. Doelger, 320 Judah St., San Francisco.
 Architect—Not Given. \$4000

DWELLING
 (529) W TWENTY-NINTH AVE 211 N Judah St. One-story and basement frame dwelling.
 Owner—H. Doelger, 320 Judah St., San Francisco.
 Architect—Not Given. \$4000

DWELLING
 (530) W TWENTY-NINTH AVE 155 N Judah St. One-story and basement frame dwelling.

Owner—H. Doelger, 320 Judah St., San Francisco.
 Architect—Not Given. \$4000

DWELLING
 (531) W TWENTY-NINTH AVE 238 N Judah St. One-story and basement frame dwelling.
 Owner—H. Doelger, 320 Judah St., San Francisco.
 Architect—Not Given. \$4000

DWELLING
 (532) W TWENTY-NINTH AVE 183 N Judah St. One-story and basement frame dwelling.
 Owner—H. Doelger, 320 Judah St., San Francisco.
 Architect—Not Given. \$4000

DWELLING
 (533) W TWENTY-NINTH AVE 127 N Judah St. One-story and basement frame dwelling.
 Owner—H. Doelger, 320 Judah St., San Francisco.
 Architect—Not Given. \$4000

DWELLING
 (534) W SEVENTEENTH AVE 244 S Wawona St. One-story and basement frame dwelling.
 Owner—S. F. Johnson, 2601 17th Ave., San Francisco.
 Architect—Not Given. \$4000

STORES
 (535) N CHESTNUT 66 W Mallorca. One-story and mezzanine Class C stores.
 Owner—M. Stelling Jr., 155 Montgomery St., San Francisco.
 Architect—Bertz, Winter & Maury, 681 Market St., San Francisco.
 Engineer—L. H. Nishkian, 525 Market St., San Francisco.
 Contractor—Young & Horstmeyer, 461 Market St., San Francisco. \$3000

DWELLINGS
 (536) W THIRTY-FOURTH AVE 27 N Lawton St. Five one-story and basement frame dwellings.
 Owner—Whitney Investment Co., 36th Ave. and Kirkham St., S. F.
 Architect—Not Given. \$3950 each

ALTERATIONS
 (537) NO. 1361 BUSH. Alter public garage.
 Owner—Mrs. A. M. Hueter, 1361 Bush St., San Francisco.
 Engineer—N. B. Green, 55 New Montgomery St., San Francisco.
 Contractor—Barrett & Hilp, 918 Harrison St., San Francisco. \$3000

STATION
 (538) SE JUNIPERO SERRA AND Ocean Ave. Concrete and steel service station.
 Owner—Associated Oil Co., 79 New Montgomery St., S. F.
 Architect—Masten & Hurd, 233 Post St., San Francisco. \$7000

DWELLING
 (539) W ALEMANY BLVD. 250 N Santa Rosa. One-story and basement frame dwelling.
 Owner—L. Depaoli, 3289 Mission St., San Francisco.
 Architect—Not Given.
 Contractor—C. T. Lindsay, 4363 26th St., San Francisco. \$3948

DWELLING
 (540) NW 35th AVE. and Fulton St.; two-story and basement frame dwelling.
 Owner—Lillian Hodnett, 795 Sutter.

Architect—Not Given.
 Contractor—Michael & Bommer, 762 De Haro St. \$5000

DWELLING
 (541) W VILLA TERRACE 50 East Gaystone Terrace; two-story and basement frame dwelling.
 Owner—S. R. Pownell, 1445 Clayton.
 Architect—Not Given.
 Contractor—J. Johnson and Son, 1614 Church Street. \$3000

DWELLING
 (542) S SWEENEY 175 E Merrill; 1-story and basement frame dwelling.
 Owner—Schmidt Brothers, 1395 Hampshire.
 Architect—Not Given. \$2750

DWELLING
 (543) S NORTH POINT 180 W Buchanan St. One-story and basement frame dwelling.
 Owner—F. Delucchi, 3340 Octavia St., San Francisco.
 Architect—Not Given.
 Contractor—F. A. Soracco, 127 30th St., San Francisco. \$5000

DWELLING
 (544) E ALEMANY BLVD. 198 N Silver Ave. One-story and basement frame dwelling.
 Owner—C. Swigert, 811 Athens St., San Francisco.
 Architect—Not Given. \$3750

ALTERATIONS
 (545) NE SANSOME AND FILBERT Sts. Alter warehouse.
 Owner—North Star Brewery Co., Sansome and Filbert Sts., S. F.
 Engineer—A. J. Mazurette, 576 5th St., Oakland. \$5000

DWELLINGS
 (546) E TWENTY-SIXTH AVE. 42 N Ocean Ave. Three one-story and basement frame dwellings.
 Owner—J. Arnott, 633 Taraval St., San Francisco.
 Architect—Not Given. \$4000 each

ALTERATIONS
 (547) SW TURK AND POLK STS. Alter salesroom.
 Owner—A. West, % Contractor.
 Architect—Not Given.
 Contractor—Young & Horstmeyer, 461 Market St., San Francisco. \$2000

DWELLING
 (548) W FORTY-SIXTH AVE. 155 Elaboa St. One-story and basement frame dwelling.
 Owner—Mrs. R. Steinman, 710 33rd Ave., San Francisco.
 Architect—Not Given.
 Contractor—M. Little, 1643 20th Ave., San Francisco. \$5000

DWELLING
 (549) N NORTH POINT ST. 155 E Webster St. Two-story and basement frame dwelling.
 Owner—T. C. Ryan, 1915 Green St., San Francisco.
 Architect—F. Frederic Amandes, 1879 18th Ave., San Francisco. \$5000

DWELLING
 (550) E FOURTEENTH AVE. 70 N Vicente St. Two-story and basement frame dwelling.
 Owner—N. A. Huff.
 Architect—S. A. Colton, 544 Market St., San Francisco.
 Contractor—G. J. Elkington & Sons, 230 Vicente St., S. F. \$4000

ADDITION
 (551) NO. 4397 SEVENTEENTH ST.
 Addition to dwelling.
 Owner—M. C. Kastner, Premises.
 Architect—Not Given. \$1000

DWELLING
 (552) S HARKNESS 95 W Brussels
 St. One-story and basement frame
 dwelling.
 Owner—J. Alfonsi.
 Architect—Not Given.
 Contractor—E. Icardi, 227-A Colling-
 wood St., San Francisco \$1200

DWELLING
 (553) W CRANT ST. 80 N Ney St.
 One-story and basement frame
 dwelling.
 Owner—R. Hallenbarter, 85 Ney St.,
 San Francisco.
 Architect—Not Given. \$1500

DWELLING
 (554) SE MERCED & HERNANDEZ.
 One-story and basement frame
 dwelling.
 Owner—F. E. Purser, % Contractor.
 Architect—S. A. Colton, 544 Market
 St., San Francisco.
 Contractor—H. H. Isaac, 1738 Page
 St., San Francisco. \$6000

DWELLING
 (555) E TOCALOMA 310 N Blanken
 St. One-story and basement frame
 dwelling.
 Owner—W. H. Grahn, 2965 Mission
 St., San Francisco.
 Architect—Not Given. \$2750

ELEVATOR
 (556) NO. 2000 SIXTEENTH ST. In-
 stall elevator.
 Owner—G. E. Benett.
 Engineer—L. H. Nishkian, Under-
 wood Bldg., San Francisco.
 Contractor—J. H. Hjul, 128 Russ St.,
 San Francisco. \$1800

DWELLING
 (557) E TOCALOMA 460 N Blanken.
 One-story and basement frame
 dwelling.
 Owner—W. H. Grahn, 2965 Mission
 St., San Francisco.
 Architect—Not Given. \$2750

ALTERATIONS
 (558) NO. 62 TOWNSEND ST. Alter
 oil mill.
 Owner—Pacific Oil Mills, Ltd., Prem.
 Engineer—J. E. Davies, Salaca Beach
 \$2850

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
299	night	oats	2800
300	Hammerburg	Owner	9500
301	Peterson	Owner	1350
302	Shaw	Alley	7000
303	Warren	Owner	4000
304	Brown	Furlong	7960
325	Howard	Johnson	12815
306	Bain	Cedarborg	1580
307	Fava	Tarmen	2000
308	Guertner	Owner	5500
309	Kennedy	Rose	1000

DWELLING
 (301) 4724 REINHARDT DR., OAK-
 LAND; one-story 3-room dwell-
 ing.
 Owner and Builder—N. Peterson and
 C. Johnson, 4724 Reinhardt Drive,
 Oakland.
 Architect—Not Given. \$1350

RESIDENCE
 (300) NO. 253 SANDINGHAM AVE.,
 PIEDMONT. Two-story 7-room
 residence and garage.
 Owner—Albert Hammerburg, 2340 Le
 Conte Ave., Berkeley.
 Architect—Not Given. \$9500

DWELLING
 (299) NO 1337 LA LOMA STREET,
 BERKELEY. One-story five-room

frame dwelling and garage.
 Owner—M. M. Knight, Lo Loma and
 Rose Sts., Berkeley.
 Plans by P. L. Coats.
 Contractor—P. L. Coats, 971 Hillcroft
 Circle, Oakland. \$2800

ALTERATIONS
 (302) 1436 PARK ST., ALAMEDA;
 alterations.
 Owner—E. M. Shaw, Underwood Bldg.
 San Francisco.
 Architect—Not Given.
 Contractor—Leslie Alley, 1621 Encinal
 Ave., Alameda. \$7000

DWELLING
 (303) 3606 BRIGHTON AVE., OAK-
 LAND; one-story 6-room dwelling.
 Owner and Builder—W. H. Warren,
 3502 Foothill Blvd., Oakland.
 Architect—Not Given. \$4000

DWELLING
 (304) NO. 1901 OAKVIEW DRIVE,
 OAKLAND. Two-story frame
 dwelling
 Owner—Chas. E. Brown, Taft Ave.,
 Oakland.
 Architect—Not Given.
 Contractor—Thos. F. Furlong, 460
 Jerome Ave., Oakland. \$7960

PLATFORM
 (325) FIRST AND MARKET STS.,
 OAKLAND. Covered platform.
 Owner—Howard Terminals.
 Architect—W. G. Corlett, Bank of
 America Bldg., Oakland.
 Contractor—A. G. Johnson, 4625 Do-
 lores Ave., Oakland. \$12,815

ALTERATIONS
 (306) 228 SEAVIEW, PIEDMONT;
 alterations.
 Owner—Charles Bain, 228 Seaview,
 Piedmont.
 Architect—Farr & Ward, 68 Post St.,
 San Francisco.
 Contractor—A. Cedarborg, 1455 Ex-
 celsior, Piedmont. \$1589

STATION
 (307) NO. 6100 TELEGRAPH AVE.,
 OAKLAND. Service station.
 Owner—G. D. Fava, % J. H. Tarman,
 110 Ray Bldg., Oakland.
 Architect—Not Given.
 Contractor—J. H. Tarman, 108 Ray
 Bldg., Oakland. \$2000

DWELLING
 (308) NO. 3233 SIXTY-SECOND AVE,
 OAKLAND. Two-story 7-room
 dwelling.
 Owner—Rev. Geo. W. Guertner, 2500
 62nd Ave., Oakland.
 Architect—Not Given. \$5500

REPAIRS
 (309) NO. 2026 FIFTY-SEVENTH
 Ave., OAKLAND. Fire repairs.
 Owner—Thos. Kennedy, 2026 57th
 Ave., Oakland.
 Architect—Not Given.
 Contractor—A. H. Rose, 478 25th St.,
 Oakland. \$1000

**BUILDING CONTRACTS
 SAN FRANCISCO COUNTY**

No.	Owner	Contractor	Amt.
106	Crowley	Francis	602
107	Schloss	Clinton	3734
108	West	Young	2197
109	Cowell	Jensen	8328

REPAIRS
 (106) NO. 77 CLAY ST. All work
 for repairs, etc.
 Owner—Esther J. Cain and Mary E.
 White Crowley, Premises,
 Architect—Not Given.
 Contractor—C. W. Francis, 707 Anza
 St., San Francisco.
 Filed July 20, '33. Dated July 15, '33.
 Usual 35 days.....Full payment
TOTAL COST, \$602.05

Bond, none. Limit, 20 days. Forfeit,
 plans and specifications, none.

BUILDING
 (107) S STILLMAN ST. 215 E Fourth
 St. All work except connecting
 the building sewer to street sewer
 for one- and part two-story Class
 C structure.
 Owner—Schloss Manufacturing Co.,
 Ltd., 525 Mission St., S. F.
 Architect—Chas. E. J. Rogers, Phelan
 Bldg., San Francisco.
 Contractor—Clinton-Stephenson Con-
 struction Co. Ltd., Clay & Mont-
 gomery St., San Francisco.
 Filed July 21, '33. Dated July 20, '33.
 Concrete walls and footings are
 completed\$1867.00
 When completed 933.50
 34 days after completion.... 933.50
TOTAL COST, \$3734.00
 Bond, \$3734. Surety, Glens Falls In-
 demnity Co. Limit, 40 days. Forfeit,
 none. Plans and specifications filed.

ALTERATIONS
 (108) NO. 601 TRNK ST. and 549, 551
 and 553 Polk St.; SW Turk and
 Polk Sts. All work for altera-
 tions and repairs to two-story
 concrete building.
 Owner—Aphra West.
 Architect—Not Given.—
 Contractor—Paul B. Young and A. L.
 Horstmeyer (as Young & Horst-
 meyer), 461 Market St., S. F.
 Filed July 24, '33. Dated July 20, '33.
 Work completed 75%
 Usual 35 days..... 25%
TOTAL COST, \$2197
 Bond, \$1200. Surety, American Bond-
 ing Co. of Baltimore. Limit, forfeit,
 none. Plans and specifications filed.

DWELLING
 (109) LOT 35 BLK 19, Map of Forest
 Hill. All work for dwelling.
 Owner—Olive Cowell, 1335 Union St.,
 San Francisco.
 Architect—Morrow & Morrow, de
 Young Bldg., San Francisco.
 Contractor—G. P. W. Jensen, 320
 Market St., San Francisco.
 Filed July 24, '33. Dated July 14, '33.
 On completion of frame.....\$1860
 Rough plaster completed..... 1860
 Building completed amount suffi-
 cient to bring payments to
 75% of total const.....
 Usual 35 days.....Final
TOTAL COST, \$3328
 Bond, \$4150. Sureties James J. Ring-
 rose and N. P. Anderson. Limit, 90
 days. Forfeit, none. Plans and specifi-
 cations filed.

RESIDENCE
 (110) S MARINA BLVD. 104.686 W
 Alhambra W 45 S 96.254 to line
 drawn S 76° 08' W from pt which
 is perpen dist S 90 from S Marina
 Blvd. (said dist of 90 being meas.
 from pt on said Marina Blvd dist
 74.686 W from W Alhambra St.
 N 76° 08' E 45.156 to line drawn
 at right angles S to S Marina Blvd
 from pt of beg N 92.502 to beg
 ptn Marina Gardens. All work for
 two-story and basement frame
 residence.
 Owner—H. D. Brusco, 1748 Grove St.,
 San Francisco.
 Architect—Charles F. Strothoff, 2274
 15th St., San Francisco.
 Contractor—Joseph Bettancourt, 422
 San Anselmo St., San Francisco.
 Filed July 26, '33. Dated July 20, '33.
 Frame completed\$2144
 Brown coat plaster Installed.... 2144
 When completed 2144
 Usual 35 days..... 2144
TOTAL COST, \$8576
 Bond, \$4300. Sureties, Charles Mon-
 son and F. M. McNulty. Limit, 90
 days. Forfeit, none. Plans and speci-
 fications filed.

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
33	Shaw	Alley	7098
39	Levensaler	Wooley	6354
40	Howard	Fitzmaurice	3615
41	Howard	Johnson	7600
42	Hall	Lapham	11500

ALTERATIONS

(33) SE PARK ST. AND SANTA Clara Ave., Alameda. All work for alterations to building.
 Owner—Edward M. Shaw, Underwood Bldg., San Francisco.
 Architect—H. A. Minton, 525 Market St., San Francisco.
 Contractor—Lesley A. Alley, 1621 Encinal Ave., Alameda.
 Filed July 20, '33. Dated July 19, '33.
 As work progresses.....

TOTAL COST, \$7098

Bond, \$7098. Surety, Hartford Accident and Indemnity Co. Limit, Sept. 1, 1933. Forfeit, \$20 per day penalty after Sept. 1. Plans and specifications filed.

RESIDENCE

(39) NO. 3 WILDWOOD GARDENS, Lot 13, Piedmont. All work for two-story and basement frame residence and garage.
 Owner—Miss Frances Levensaler.
 Architect—W. R. Yelland, Financial Center Bldg., Oakland.
 Contractor—B. F. Wooley, 5621 Thorn Road, Oakland.
 Filed July 21, '33. Dated July 10, '33.
 Frame erected\$1588.66
 1st coat plaster on..... 1588.66
 Completed 1588.66
 Usual 35 days 1588.67

TOTAL COST, \$6354.65

Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.

PLATFORM

(40) FIRST AND MARKET STS., Oakland. All work for platform No. 11 for Howard Terminal.
 Owner—Howard Terminal, Premises.
 Architect—W. G. Corlett, Bank of America Bldg., Oakland.
 Contractor—J. H. Fitzmaurice, 2857 Hannan St., Oakland.
 Filed July 24, '33. Dated July 8, '33.
 On 19th of each month..... 75%
 Usual 25 days.....Final

TOTAL COST, \$3615

Bond, none. Limit, 10 days. Forfeit, none. Specifications only filed.

COVER FOR PLATFORM

(41) FIRST AND MARKET STS., Oakland. All work for steel and wood cover for concrete platform
 Owner—Howard Terminal, Premises.
 Architect—W. G. Corlett, Bank of America Bldg., Oakland.
 Contractor—S. G. Johnson, 4652 Dolores St., Oakland.
 Filed July 24, '33. Dated July 8, '33.
 Progressive payments on 1-st of each month.....Final

TOTAL COST, \$7600

Bond, limit forfeit, none. Specifications only filed.

RESIDENCE

(42) ESTATES DRIVE AND WAYNEFLETE Drive being Lot 165. Re-subdivision of Upper Piedmont Estates, Piedmont. All work for two-story and basement frame and stucco residence and separate garage.
 Owner—Dr. Charles C. Hall.
 Architect—Miller & Warnecke, Financial Center Bldg., Oakland.
 Contractor—A. R. and T. H. Lapham, 546 Kenmore Ave., Oakland.
 Filed July 26, '33. Dated July 15, '33.
 Frame completed and roof on.....\$—
 Plastering completed 2500
 Completed and accepted 2500

Usual 35 days..... 2500
 TOTAL COST, \$11,500

Bond, none. Limit, 100 days. Forfeit, none. Plans and specifications filed.

SAN FRANCISCO UNDER \$1000

Ave.; owner, M. Tosi and I Mallegni, 30 Jansen St.; contractor, F. Francesconi, 923 Montgomery. ALTER dwelling, \$200; 555 22nd Ave.; owner, A. F. Kamman, Premises; contractor, Hanson Bros., 5840 Mission St.

ALTER dwelling, \$300; 2605 19th St., owner, M. E. Regan, 2605 19th St. ALTER rooming house, \$128; 2898 Jackson St.; owner, M. L. Rose, 127 Ellis St.; contractor, F. Kern & Sons, 517 6th St.

STUCCO front, \$200; 864 Lombard St. owner, V. Basso, Premises. ALTER offices, \$880; 315 Montgomery St.; owner, Commercial Union Assurance Co., Premises.

ALTER private garage, \$350; 643 Oak St.; owner, Mr. Bouysson, Prem.; contractor, San Bruno Ave. Feed & Fuel Co., 2561 San Bruno Ave. ALTER dwelling, \$565; 2547 Bryant St. owner, E. Stefanini, Premises; contractor, V. Oliva, 2160 Bryant

ALTER barber shop, \$10; 2541 Balboa St.; owner, Demosino, 694 Shotwell St. ALTER store front, \$165; 165 Powell St.; owner, C. M. Kuster, Prem.

BARBER pole, \$50; 625 Market St.; owner, Fox & Ferrill, 625 Market St.; contractor, C. A. Langlais, 472 Tehama St. SIGN, electric, \$350; 337 Kearny St.; owner, M. Brash, 337 Kearny St.; contractor, Pioneer Elec. Co., 2128 Market St.

ADD to dwelling, \$150; 835 34th Ave.; owner, A. Baldocchi, 835 34th Ave. contractor, P. Bonetti, 426 Faxon Ave. SIGN, electric, \$250; 10 Sanchez St.; owner, Sanchez Inn, Prem.; contractor, Pioneer Elec. Co.; 2128 Market St.

ALTER dwelling, \$350; 1204 Newcomb St.; owner, Mrs. Cox, Premises. ALTER dwelling, \$150; 30 Piedmont; owner, Dr. J. McGuire, 30 Piedmont; contractor, O. Carson, 397 Haight St.

SIGN, electric, \$175; 2400 Bryant St.; owner, J. Firpo and E. Gravano, Premises; contractor, QRS Neon Corp., 690 Potrero Ave. SIGN, electric, \$400; 2162 Polk St.; owner, J. Miller, Premises; contractor, Brumfield, 965 Folsom St.

SIGN, electric, \$300; 4528 Mission St.; owner, L. & L. Beer Garden, 4528 Mission St.; contractor, Brumfield 965 Folsom St. SIGN, electric, \$200; 723 Pine Street; owner, Metropolitan Market and Grocery, 723 Pine St.; contractor, Elec. Products Corp., 255 Golden Gate Ave.

ALTER store, \$500; 62 Sixth St.; owner, L. Napoli; contractor, San Francisco Show Case Co., 680 McAllister St. REPAIR dwelling, \$400; 1254 Tenth Ave.; owner, Emily W. P. Ewald, 350 Judah St.

ALTER store, \$500; 201 Third St.; owner, Dr. Morton, 1055 Bush St.; contractor, L. Murer, 1815 Mason. GARAGE, private, \$200; 1544 Cole St. owner, I. H. Perry, 1544 Cole St. STUCCO dwelling, \$390; 1117 1/2 Alabama St.; owner, D. Gambelin, Premises; contractor, V. Oliva.

GARAGE, \$400; N Taraval 50 W 25th Ave.; owner, D. J. Ryan, 1512 Taraval St. ALTER dwelling, \$125; 204 Hoffman Ave.; owner, J. H. Tuck, 204 Hoffman Ave.; contractor, H. Erickson, 972 Chenery St.

ALTER dwelling, \$100; NE Page and Lyon Sts.; owner, L. Berrycroft, Page and Lyon Sts. Usual 35 days..... 2500

ALAMEDA COUNTY UNDER \$1000

ALTERATIONS, \$265; 2919 Forest St., Berkeley; owner, N. L. Larson, 2919 Forest St.; contractor, Crown Roof Co., 2609 E-14th St., Oakland ALTERATIONS, \$100; 2687 Shasta Road, Berkeley; owner, G. O. Hiller, 2687 Shasta Road.

ALTER store front, \$325; 423 19th St., Oakland; owner, B. R. Kerchum, 15th and Webster Sts.; contractor, C. Craig MacLean, 78 Rio Vista Ave.

SIGN, electric, \$20; 5501 College Ave., Oakland; owner, Gallenkamp's, Premises; contractor, Ace Electric Sign Co., 1243 E-12th St.

SIGN, electric, \$175; 1526 San Pablo Ave., Oakland; owner, Warren Photo Co., 1526 San Pablo Ave.; contractor, Ace Elec. Co., 1243 E-12th St.

SIGN, electric, \$18; 1960 San Pablo Ave., Oakland; owner, McKillip, Prem.; contractor, Ace Elec. Sign Co., 1243 E-12th St.

ADDITION, \$350; 1206 60th Avenue, Oakland; owner, I. W. Cline, 1206 60th Ave.

ALTER store front, \$150; 1431 Franklin St., Oakland; owner, R. Dolarian, 2602 Grove St.; contractor, Domimfon & Paulsen, 734 Milvia St., Berkeley.

ADDITION, \$350; 780 16th St., Oakland; owner, Helen Munroe, Perm.

REPAIRS, \$85; 946 Myrtle St., Oakland; owner, Oakland Plumbing & Supply Co., Premises.

ALTERATIONS, \$85; 4640 Dolores St., Oakland; owner, Chas. R. Spahr, Prem.; contractor, S. G. Johnson, 4652 Dolores St.

REPAIR dwelling, \$75; 1086 61st St., Oakland; owner, N. Campana, 1086 61st St.

GARAGE, private, \$250; 1793 San Lorenzo St., Berkeley; owner, Nucleus Bldg. & Loan Assn, 6 N-First St., San Jose.

ALTERATIONS, \$55; 2539 California St., Berkeley; owner, Miss Tingmann, Prem.; contractor, Henry Loeschke, 2533 California St.

ALTERATION and addition, \$325; 4138 Terrace St., Oakland; owner, Miss J. Rubiola, 922 36th St., Oakland; contractor, P. Barales & Son.

ALTERATIONS, \$100; 1208 Franklin St., Oakland; owner, Hotel St. Marks, Premises.

ADDITION, \$450; 7536 Valentin St., Oakland; owner, James Willison Jr., Premises.

GARAGE, 2 car, \$150; 828 52nd St., Oakland; owner, D. Cereutti, 828 52nd St.

ALTERATIONS, \$150; 2324 Lakeshore Ave.; owner, Dr. H. Koford, 2324 Lakeshore Ave.; contractor, R. C. Woodburn, 579 Radnor Road.

ADDITION, \$350; 2001 73rd Ave., Oakland; owner, L. H. Grant, Prem.; contractor, J. L. Rich, 556 36th St.

ADD to dwelling, \$125; 5916 Chabot Crest, Oakland; owner, C. C. Newson, Prem.; contractor, H. C. Morten, 3209 Linden St.

FIRE repairs, \$129; 3027 Telegraph Ave., Oakland; owner, W. F. Way, Premises; contractor, L. H. Metz, 2429 13th Ave.

SHED, \$125; 6225 Mountain Blvd., Oakland; owner, L. V. Draper, Premises; contractor, N. D. Gra-

ALTERATIONS, \$175; 2908 Benvenue Ave., Berkeley; owner, J. Baker, 3223 Lakeshore Ave., Oakland; contractor, S. P. Sorensen, 542 27th St., Oakland.

ALTERATIONS, \$60; 1419 Grove St., Berkeley; owner, Mrs. Hookstia, 1419 Grove St.; contractor, Geo. F. King, 1541 Virginia St.

ALTERATIONS, \$80; 2119 Grant St., Berkeley; owner, H. H. Lyon, 2119 Grant St.

BUILDING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

1.—Apartments	Offices
2.—Bonds	11.—Ice and Cold Storage Plants
3.—Churches	12.—Power Plants
4.—Factories and Warehouses	13.—Public Buildings, Fire Houses and Jails
5.—Flats	14.—Residences
6.—Garages and Service Stations	15.—Schools
7.—Federal Buildings	16.—Banks, Stores and Theatres
8.—Club Buildings	17.—Theatres
9.—Hospitals	18.—Wharves & Docks
10.—Hotels	19.—Misc. Const.
	20.—Misc. Supplies & Materials

1—APARTMENTS

Preparing Plans.
APARTMENTS Cost, \$50,000
SAN FRANCISCO. Marina District. Three-story and basement frame and stucco apartments (6 2-room and 9 3-room apts.) composition 10-year roof, 18-car garage, gas steam heating plant, elevator, individual electric refrigeration, canvas walls hard-wood floors, tiled baths and showers, electric ranges, etc.
 Owner—Withheld.
 Architect—Irvine & Ebbets (R. R. Irvine, architect), 2048 Market St. San Francisco.
 Bids will be asked in about ten days

Owner Taking Segregated Bids.
APARTMENTS Cost, \$20,000
SAN FRANCISCO. N Broadway East Hyde Street.

Three-story and basement frame and stucco apartments (six three-room apts.) composition roof, gas hot air heating system, hardwood floors, tiled baths, electric refrigeration, etc.

Owner—Jos. Vigil, 3110 Laguna St., San Francisco.
 Architect—R. R. Irvine, 2048 Market St., San Francisco.

To Ask Plastering and Painting Bids.
REMODEL Cost, \$30,000
SAN FRANCISCO. No. 1164 Market Street.

Remodel four-story concrete loft building for apartments (add one story, 39 2-room apts., 4 stores).
 Owner—A. W. Wilson.

Architect—C. A. Meussdorffer, Humboldt Bank Bldg., San Francisco.
 Plastering and painting bids will be asked within a few days.

As previously reported, electric work awarded to Crown Electric Co., 153 Eddy St. heating and plumbing to Plans Being Figured—Bids Close July W. E. Trousdale, 422 Turk St., at \$2194; glaze to W. P. Fuller & Co., 301 Mission St.; carpentry work, etc. to Monson Bros., 475 Sixth St., at \$2100.

Plans Being Completed.
APARTMENTS Cost, \$50,000
SAN FRANCISCO. Hayes Valley District.

Three-story and basement frame and stucco apartments (15 2- and 3-room apts.) composition ten-year roof, 18-car garage, gas steam heating plant, elevator, individual electric refrigeration, canvas walls hardwood floors, tiled baths and showers, electric ranges, etc.
 Owner—Withheld.

Architect—Irvine and Ebbets (R. R. Irvine, architect), 2048 Market St. Sub-bids will be taken by the architect within one week.

Contract Awarded.
ADDITION Cost, \$7500
SAN FRANCISCO. 1965 Market St. One-story frame and stucco top addition to funeral parlors (automatic elevator, tar, gravel and tile roofing, re-decorate entire building, etc.)
 Owner—Gantner, Felder, Kenny, 1965 Market Street.

Architect—Walter Falch, Hearst Bldg. Contractor—Ed Zinkand, 667 36th Ave. Elevator bids are now being received and will be opened within a few days. Bids on painting and heating will be taken at a later date.

3—CHURCHES

Plans Being Figured—Bids Close Aug. 7th.

CHURCH Cost, \$25,000
LOS ANGELES, Los Angeles Co., Cal. No. 1014 Cochran Avenue.

One-story frame and stucco church (153x117 ft.) wood shakes roof, wood roof trusses, wood sash, cast stone trim, metal toilet partitions, heating and ventilating systems, metal pipe organ ducts, brick loggia floor, etc.

Owner—Twenty-fifth Church of Christ Scientist.

Architect—H. Roy Kelley, Architects Bldg., Los Angeles.

4—FACTORIES & WAREHOUSES

Preparing Working Drawings.
PACKING PLANT Cost, \$—
LINDSAY. Tulare Co., Cal.

Concrete packing plant (250x130 feet) concrete walls, steam heating system, ventilating equipment, etc.

Owner—Lindsay Farm Bureau Packing Company.

Architect—W. W. Ache, 1616 Fourth Ave., Los Angeles.

OAKLAND, Alameda Co., Cal. — Fire destroyed the Oakland Home Laundry, 2835 Hannah Street, July 20. Damage estimated at \$20,000.

July 21, 1933
Structural Steel Contract Awarded.
BREWERY Cost, \$100,000
SEATTLE, Wash. No. 3100 Airport Way.

Remodel three-and four-story steel frame building for brewery (16,000 sq. ft. of floor space) steel frame interior, concrete and steel plate floors covered with mastic covering, etc.

Owner—Century Brewing Association of Canada.

Plans by Jos. Wohleh, Chambers Bldg. Olympia, Wash.

Contractor—A. W. Quist Company, Exchange Bldg., Seattle.

Structural Steel—Isaacson Iron Wks., Seattle, Wash., approximately 200 tons involved.

Concrete and Cork Insulation—Pioneer Sand & Gravel Co., Seattle.

Contract Awarded.
FOUNDRY Cost, \$35,000
LOS ANGELES, Los Angeles Co., Cal. No. 2801 E-12th Street.

One-story Class C brick foundry building (150x190 ft.) composition roof, wood roof trusses, structural steel, steel sash, ornamental iron, overhead doors, cement floors, steel lockers, etc.

Owner—McLellan Company.
 Engineer—R. E. Ward, 777 E. Washington St., Los Angeles.
 Contractor—Austin Company of Calif., 777 E. Washington St., Los Angeles.

Contract Awarded.
PLANT Cost, \$—
GUSTINE, Merced Co., Cal. Fourth Street.

Steel and iron by-products plant.
 Owner—Western Condensing Company, Eureka (Ellis Hart, Vice President).

Architect—Not Given.
 Contractor—Roy Kruger, Gustine.

FRESNO, Cal.—The Wellman-Peck Company's ware house in Fresno was destroyed by fire July 21, with damage estimated at \$100,000. Details of the rebuilding of the building will be announced shortly.

Plans Being Prepared.
ALTERATIONS Cost, \$75,000
SEATTLE, Wash. Rainier Ave. near Dakot Street.

Alterations for brewery (210x124) 200-000 barrel capacity per year.

Owner—National Brewing Co. Inc. (M. D. Kenney, vice-pres., and general manager).

Architect—Fred E. Stephen, Smith Tower, Seattle.

Equipment bids have been received and installations will be made immediately.

Planned.
BREWERY Cost, \$65,000
SEATTLE, Wash. Site to be selected. New brewery.

Owner—Cold Spring Brewing Co., Inc. (T. Denner Murray, atty.)

Architect—Not Selected.

The three heads of the new concern, according to articles of incorporation filed at Olympia, are Josie Razore, Bellingham garbage contractor, Louie Torre, Seattle, and Murray.

Plans Completed.
BREWHOUSE Cost, \$—
SEATTLE, Wash. 970 Mercer Street.

Five-story fireproof brewhouse (concrete and steel construction, tile wall partitions, insulation work.)

Owner—Horluck Brewing Co. 970 Mercer St., Seattle.

Engineer—Rich. Ullrich, Smith Tower Annex, Seattle.

Contracts will be awarded shortly.

Contract Awarded.
DAIRY Cost, \$50,000
PORTLAND, Oregon. East Main St., bet. 11th and 12th Sts.

Modern galry building.
 Owner—Name withheld.

Architect—Claussen & Claussen, Portland, Oregon.

Contractor—Drake, Wyman & Voss, U. S. National Bank Bldg., Portland.

Plans Being Completed.
FOUNDRY Cost, \$50,000
SOUTH SAN FRANCISCO. San Mateo Co., Cal. Tanforan Avenue.

One-story mill type foundry (steel and corrugated iron roof, concrete foundations, etc.)

Owner—American Brake Shoe & Foundry Co., 74 New Montgomery St., San Francisco.

Engineer—K. Theill, 580 Market St., San Francisco.

Bids will be asked in about three weeks.

Contract Awarded.
BOTTLING HOUSE Cost, \$—
 ST. HELENA, Napa Co., Cal.
 One-story concrete and frame bottling house (42x37 ft.) galvanized iron roof, etc.
 Owner—Beringer Bros., St. Helena.
 Plans by Harry Thorsen.
 Contractor—Harry Thorsen, 1519 Kearny St., St. Helena.

Commissioned To Prepare Plans.
WAREHOUSE Cost, \$35,000
 FRESNO, Fresno Co., Cal. Ventura Ave. and P Street.
 One- and two-story fireproof warehouse (135x200 ft.) automatic sprinkler system, etc.
 Owner—Welman Peck & Co., 301 Embarcadero St., San Francisco.
 Architect—J. E. Krafft, Phelan Bldg., San Francisco.
 Further details will be announced shortly.

Reinforcing Steel Contracts Awarded.
FACTORY Cost, \$750,000
 OAKLAND, Alameda Co., Cal. Foot of Adeline St. on the estuary.
 Steel frame and concrete coconut products factory (650x100 feet); steel frame and reinforced concrete warehouse (40x146 ft.); pile foundations, flat slab floor, corrugated iron roof and siding.
 Owner—El Dorado Oil Works, Third and University Ave., Berkeley.
 Engineers—Ellison & Russell, Pacific Bldg., San Francisco.
 Rein. Steel—Soule Steel Co., 1750 Army St., San Francisco.
 Bids are now being received by L. M. King, on the job site for the erection of the structural steel.

Contract Awarded.
WAREHOUSE Cost, \$2000
 ALTAMONT, Alameda Co., Cal. Near Southern Pacific Tracks.
 One-story galvanized iron warehouse (72x100 ft.)
 Owner—Independent Warehouse Co.
 Plans by S. Bothwell.
 Contractor—S. Bothwell, J Street, Livermore.

OAKLAND, Cal.—J. H. Fitzmaurice 2857 Hannah St., Oakland, at \$12,496 submitted low bid to City of Oakland Port Commission for repairs to floors in unit three in Terminal Building B, Outer Harbor, Oakland. Following bids received:
 J. H. Fitzmaurice, Oakland.....\$12,496
 W. E. Lyons, Oakland..... 13,535
 Lee J. Immel, Berkeley..... 13,550
 Nat Lena, Oakland..... 15,322
 Central Calif. Roads, Oakland.. 15,670
 L. C. Seidel, Oakland..... 16,397
 DeLuca & Son, Inc., S. F..... 16,586
 Schuler & McDonald, Oakland.. 18,293
 Bids held under advisement.

To Be Done By Day's Work.
ALTERATIONS Cost, \$5000
 SAN FRANCISCO. NE Sansome and Filbert Streets.
 Alterations to warehouse.
 Owner—North Star Brewery Co., Sansome and Filbert Sts., S. F.
 Engineer—A. J. Mazurette, 576 Fifth St., Oakland.

Contract Awarded.
PLANT Cost, \$1200
 VALLEJO, Solano Co., Cal. Chestnut and Fourth Sts.
 Storage plant and bottling works.
 Owner—Vallejo Brewing Co., Vallejo.
 Architect—Not Given.
 Contractor—Al Pans, 121 Lemon St., Vallejo.

Plans Being Figured.
WAREHOUSE Cost, \$—
 LOS ANGELES, Los Angeles Co., Cal. No. 1920 N. Main Street.
 One-story brick and wood frame

warehouse (171x75x129 ft.) composition roof, metal skylights, concrete and mastic floors, steel rolling doors, structural steel, reinforced concrete work, etc.
 Owner—Los Angeles Brewing Co., 1920 N. Main St., Los Angeles.
 Architect—L. A. Parker, Architects Bldg., Los Angeles.

ARLINGTON, Riverside Co., Cal.—
 W. J. Hole, 9535 Magnolia Ave., Riverside, will erect a large frame storage warehouse on the site of the old cannery building on Magnolia Ave., about 1½-miles southwest of Arlington, for himself.

To Be Done By Day's Work.
ALTERATIONS Cost, \$3000
 SAN FRANCISCO. No. 62 Townsend Street.
 Alterations to oil mill.
 Owner—Pacific Oil Mills Ltd., Prem.
 Engineer—J. E. Davies, Salada Beach

Contract Awarded.
ADDITION Cost, \$—
 SAN FRANCISCO. No. 2900 Sixteenth Street.
 Installation of elevator in building.
 Owner—G. E. Bennett.
 Engineer—L. H. Nishkian, 525 Market St., San Francisco.
 Contractor—J. H. Hjul, 128 Russ St., San Francisco.
Elevator—Otis Elevator Co 1 Beach St., San Francisco.

5—FLATS

Contract Awarded.
ADDITION Cost, \$4000
 SAN FRANCISCO. No. 781 Francisco Street.
 One-story top addition to flat building (1 5-room flat); tar and gravel roofing, tiled bath and kitchen, hardwood floors, etc.
 Owner—D. Belloni.
 Architect—F. W. Dakin, 625 Market St., San Francisco.
 Contractor—L. Murer, 1815 Mason St., San Francisco.

6—GARAGES & SERVICE STATIONS

Plans Completed.
SERVICE STATION Cost, \$7000
 SAN FRANCISCO. SE Junipero Serra Blvd. and Ocean Ave.
 Concrete and steel service station.
 Owner—Associated Oil Co., 79 New Montgomery Street.
 Architect—Masten & Hurd, 233 Post.

Contract Awarded.
ALTERATIONS Cost, \$4000
 SAN FRANCISCO. 1361 Bush Street.
 Alterations to public garage.
 Owner—Mrs. A. M. Hueter, 1361 Bush.
 Engineer—N. B. Green, 55 New Montgomery Street.
 Contractor—Barrett & Hilp, 918 Harrison Street.

Plans Being Figured.
SERVICE STATION Cost, \$7000
 SAN FRANCISCO. SE Junipero Serra Blvd. and Ocean Ave.
 Concrete and steel service station.
 Owner—Associated Oil Co., 79 New Montgomery St., San Francisco.
 Architect—Masten & Hurd, 233 Post St., San Francisco.

Sub-Contracts Awarded.
SERVICE STATION Cost, \$6500
 OAKLAND, Alameda Co., Cal. NW Harrison and Grand Avenue.
 New steel service station.
 Owner—Signal Oil & Gas Co., 2301 Blanding Ave., Alameda, and Los Angeles.
 Plans by Engr. Dept. of Owner (H. J. Schaufle, Engineer).
 Contractor—C. Norman Peterson, 1211 E-34th St., Oakland.

Concrete—J. H. Fitzmaurice, 354 Hobar St., Oakland.
Plumbing—Carl T. Doell Co., 467 21st St., Oakland.
Electric—Scott-Buttner Electric Co., 19 Grand Ave., Oakland.
 As previously reported, steel buildings awarded to the Pacific Steel Building Co., 2065 E. 51st St., Los Angeles.

7—FEDERAL BUILDING

Plans Being Prepared.
POST OFFICE Cost, \$517,000
 SAN PEDRO, Los Angeles Co., Cal. Class A post office.
 Owner—United States Government.
 Architect—Gordon B. Kaufmann, Union Bank Bldg., Los Angeles.

Plans Being Prepared.
POST OFFICE Cost, \$165,000
 ALHAMBRA, Los Angeles Co., Cal. Class A post office.
 Owner—United States Government.
 Architect—John W. Smart, 39 E Main St., Alhambra.

LOS ANGELES, Cal.—Until 10 A. M., August 9, bids will be received by the Metropolitan Water District of Southern California, 306 W. Third St., Los Angeles, for construction of two frame buildings at Division 6 headquarters building and one five-side County. Project consists of one headquarters building and one five-car garage, together with appurtenant sewers, water supply system and grading. No proposal will be considered for less than the whole of the work. Certified or cashier's check for \$500 must accompany each bid. Bidding data may be obtained from the district, either in Los Angeles or in Banning, upon payment of \$3, not to be refunded. J. L. Burkholder, assistant general manager.

WASHINGTON, D. C.—Until Aug. 21, 2 P. M., bids will be received by the Treasury Department for furnishing and installing interior lighting fixtures at the U. S. Post Office at Yuma, Arizona. Plans and specifications available from above office.

WASHINGTON, D. C.—As previously reported, W. J. Dean & Sons Co., Salt Lake City, Utah, at \$36,843 submitted low bid to Treasury Department for the construction of the U. S. Post Office building at Logan, Utah.

The extension will be one-story, 72x40 ft., with brick walls, face brick exterior, stone trim, composition roof, pipe steam heating system, etc.

Following is a complete list of bids:
 W. J. Dean & Sons Co., Salt Lake City, Utah, \$36,843.
 Berntsen & Kuhr, Salt Lake City, Utah, \$38,341.
 Wm. MacDonald Constr. Co., St. Louis, Mo., \$38,723.
 G. A. Whitmeyer & Sons Co., Ogden, Utah, \$41,494.
 Wiskes Engineering & Constr. Co., Des Moines, Iowa, \$42,000.
 Newstrom & Davis, Denver, Colo., \$42,777.
 C. J. Humphries and Frank Campion, Ogden, Utah, \$44,732.
 Schuler & McDonald, Oakland, Calif., \$45,000.
 James J. Burke & Co., Salt Lake City Utah, \$45,723.

WASHINGTON, D. C.—Burlington Venetian Blind Co., Burlington, Vt., at \$2039 awarded contract by Treasury Dept., for furnishing and installing venetian blinds in the U. S. Post Office at Portland, Oregon. Following bids received.
 Burlington Venetian Blind Co., Burlington, Vt., \$2039.
 J. G. Wescor Corp., Norfolk, Virginia,

\$2450.
 Vardley Screen & Weather Strip Co., Columbus, Ohio, \$2456.
 Hostwick Goodell Co., Norwalk, Ohio, \$2552.
 Western Venetian Blind Co., Washington, D. C., \$2599.
 Aircraft Linoleum & Shade Co., \$2693.
 W. F. McCrea Co., Oakland, Calif., \$2735.
 Kane Mfg. Co., Kane, Pa., \$2750.
 G. W. Paulson Co., \$2940.
 Peake, The Shade Man, \$2980.
 Schatz Venetian Blind Co., Los Angeles, \$3041.
 Curtain Store, \$3540.
 Acme Screen Co., Fort Worth, Texas, \$3763.
 Mein & Frank Co., \$3810.
 Hough Shade Crop., Washington, D. C., \$4200.

WASHINGTON, D. C.—Until Aug. 16, 2 P. M., bids will be received by Treasury Department for furnishing and installing interior lighting fixtures at the U. S. Post Office, Beverly Hills, Calif. Plans and specifications available from above office.

WASHINGTON, D. C.—Bids are being received by the Bureau of Supplies and Accounts, Navy Department, Washington, D. C., to furnish and deliver supplies and equipment for various Pacific Coast navy yards and stations, further information concerning the schedules listed being obtainable from the Navy Purchasing Office, 100 Harrison St., San Francisco.

Bids Close Aug. 1

Puget Sound, aluminum foil; sch. 426.

Mare Island, 570 ft. lap-welded iron pipe, 7699 ft. welded steel pipe; sch. 414.

Puget Sound, magnesia pipe covering and asbestos magnesia plaster; sch. 412.

East and West yards, electric cable, cord and wire; sch. 410.

Puget Sound, approximately 13,000 lbs. corrosion-resisting steel tubing; sch. 446.

East and West yards, insulated cable, cord and wire; sch. 406.

Mare Island and Puget Sound, wire rope and trolley suspension hoists, electric motor driven and spares; sch. 444.

Mare Island, 657 sq. ft. corrosion-resisting steel gratings; and Puget Sound, 657 sq. ft. do; sch. 450.

East and West yards, fresh water drain pumps and spares; sch. 445.

Bids Close Aug. 8

San Diego, 52,000 lbs. galvanized flat sheet steel; sch. 427.

East and West yards, forced draft blowers and spares; sch. 408.

Mare Island, 6 refrigerating equipments and spares; sch. 432.

Puget Sound, 1700 lbs. corrosion resisting steel welding electrodes; sch. 424.

Puget Sound, 8 sets centrifugal ventilating sets; sch. 431.

Mare Island, 16,000 lbs. naval brass sch. 434.

Mare Island, 4350 lbs. corrosion resisting bar steel; sch. 435.

Mare Island, 100 vacuum tubes and 250 do; sch. 448.

Mare Island, 12,000 ft. steel wire rope and 30,000 ft. do; sch. 447.

East and West yards, air reducing valves and spares; sch. 436.

Bids Close Aug. 15

San Diego, 6100 lbs. iron and steel welding electrodes; sch. 441.

East and West yards, fire brick, clay and cement, etc.; sch. 407.

OGDEN, Utah—Following equipment bids approved by the Treasury Department in connection with the lighting fixtures in the U. S. Forest Service Building at Ogden, Utah. H. A. Framburg, contractor:

Switches, Pass & Seymour; glass-ware, Phoenix Glass Co.; lighting fixtures, H. A. Framburg & Co.

LOW BIDDER

LOGAN, Utah.—W. J. Dean & Son, Salt Lake City, submitted low bid to Treasury Department at \$36,840 for extension and remodeling of the U. S. postoffice at Logan. The extension will be one-story, 72x40 ft., with brick walls, face brick exterior, stone trim, composition roof, alterations to one-pipe steam heating system, etc. (1919) 1st report June 24, 1933. 7

SABINE PASS, Texas.—O. W. Collins, Port Arthur, Texas, submitted low bids to Treasury Department for construction of U. S. quarantine station at Sabine Pass. Mr. Collins' bids were: Masonry and steel, \$300,000; wood frame, \$270,000.

July 26, 1933

PALO ALTO, Santa Clara Co., Cal.—Until Friday, August 4, bids will be received by the Treasury Department, Division of Supply, Washington, D. C., for eighteen Venetian blinds for the Palo Alto postoffice; Proposal 192.

OROVILLE, Butte Co., Cal.—Following equipment bids approved by Treasury Department in connection with the lighting fixtures in the U. S. Post Office at Oroville. H. A. Framburg, contractor:

Switches, Pass & Seymour; glass-ware, Phoenix Glass Co.; lighting fixtures, H. A. Framburg & Co.

RENO, Nevada—Following equipment bids approved by the Treasury Department in connection with the lighting fixtures in the U. S. Post Office at Reno, Nevada. H. A. Framburg, contractor:

Switches, Pass & Seymour; glass-ware, Phoenix Glass Co.; lighting fixtures, H. A. Framburg & Co.

SACRAMENTO, Cal.—Until Friday, August 4, bids will be received by the Treasury Dept., Division of Supply, Washington, D. C., for 275 Venetian blinds for the Sacramento postoffice; Proposal 214.

July 26, 1933

PROPOSED ARMY BUILDING PROGRAM.

WESTERN STATES—Following are proposed projects under the new army building program:

ALASKA

Chilcoot—Barracks, reconditioning roads, \$1,344.

Sitka National Cemetery, reconditioning, general improvements of grounds, consisting of cleaning, repair of roads and landscaping, \$5,100.

ARIZONA

Huachuca—Reconditioning roads, fencing and sewage system, \$74,500.

CALIFORNIA

Alcatraz Island—Reconditioning, seawall, wharf, electric system and roads \$33,462.

Ft. Baker—New construction, telephone construction, \$1,000; reconditioning, roads, water, sewer and electrical system, \$29,000.

Letterman General Hospital—New construction, N. C. O. quarters (20), \$140,000; officers' quarters (15-C) \$225,000; two wards, \$55,217; building 13 (ward P-1) and building 54 (ward A-1) \$122,000; telephone construction, \$7,800; reconditioning, water, sewer and drainage systems, \$24,000.

Ft. MacArthur—New construction, telephone construction, \$1,000; N. C. O. quarters (6) \$45,000; (9) N. C. O. quarters, \$67,500; roads, \$2,615.

March Field—New construction, barracks for medical detachment, \$22,487; (3) N. C. O. quarters, \$22,500; con-

tagious ward, \$10,788; aircraft bomb storage system, \$5,000; gymnasium, \$38,000; magazine, \$4,500; officers' mess \$43,379; radio bldg., \$10,000; telephone construction, \$2,500; drainage, \$60,000; roads, \$10,000.

Ft. Mason—New construction, officers' quarters, \$24,083; reconditioning, fencing, railroads, electrical and heating system, \$42,000.

Ft. McDowell—Roads, \$14,364.
 Presidio of Monterey—Roads, \$82,700.

Presidio of San Francisco—New construction, N. C. O. quarters, \$1,637; (4) N. C. O. quarters, \$30,000; officers quarters (2-F, S-C), \$76,962; officers quarters, (2-C) \$30,000; addition to headquarters, \$8,985; Q. M. maintenance bldg., \$30,000; radio transmitter bldg., \$20,000; telephone construction, \$3,000; do, \$3500; reconditioning electric system and roads, \$52,000.

Rockwell Field—New construction, N. C. O. quarters, \$13,931; officers' quarters, \$39,283; reconditioning roads, wharf, electric system and railroad, \$30,800.

Ft. Roscerans—Roads, \$32,100.
 Ft. Winfield Scott—N. C. O. quarters, \$8,208; roads, \$16,900.

San Francisco National Cemetery—New construction, extension of Fort Baker, extension of cemetery to provide for burial space; including necessary new construction, \$50,000.

Benton Field—New construction, air-corp depot shops, \$243,000; preparation of landing field, seawall, grading building area, railroad track, road and drainage, \$247,051; telephone construction \$6,000.

Crissy Field—New construction, N. C. O. quarters, (10), \$76,000; paint, oil and dope warehouse, \$5,000; telephone construction, \$1,000.

Hamilton Field—New construction, barracks, \$8963; barracks (396) \$396,000; increase barracks, \$50,000; N. C. O. quarters (8) \$68,000; N. C. O. quarters, \$20,529; N. C. O. quarters (32) \$262,000; N. C. O. quarters (20-B, 7-M) \$116,000; officers quarters (3-F) \$52,200 officers quarters (5-C) \$75,000; officers quarters, \$40,363; officers quarters (11-F, 1-C, 15-B) \$322,000; officers quarters (19-C) \$285,000; hospital, including medical detachment barracks and hospital stewards quarters (20 beds, 15 men) \$117,000; officers mess, \$75,000; boat house, wharf and channel dredging \$50,000; camera obscurer, \$5,000; fire and guard house, \$55,000; garage, \$30,000; gymnasium, \$75,000; gasoline, storage, completion of headquarters and operations building, completion of hangars (3 double and 1 single, including sprinkler system and installation), \$1,007,155; hangars, field warehouse, field shops and headquarters and operations building, \$15,231; improvement to landing field, \$75,400; magazine, \$24,000; ordnance and chemical storage building, \$48,000; oil storage, \$12,292; paved aprons, \$43,975; preparation of landing field, building area, railroad tracks, roads and drainage, \$12,718; photo building, \$46,000; paved aprons, \$70,000; paint, oil and dope storage, \$15,000; Q. M. warehouse, \$65,000; Q. M. maintenance building, \$24,405; Q. M. gasoline storage, \$5,000; reservation fence, \$26,662; salvage warehouse, \$23,736; sentry house, \$1000; telephone construction, \$10,000; do, \$7,500.

COLORADO

Fitsimons General Hospital—Reconditioning water, sewer, electrical and heating system, roads, \$64,200.

Ft. Logan—Reconditioning roads, \$76,350; new construction, N. C. O. quarters, \$3,999.

MONTANA

Custer Battlefield National Cemetery—Road repairs, \$8,304; entrance gate, \$1,500; rostrum, \$1,675; replacement of old building, \$3,500; fence for cemetery, \$5,430.

NEW MEXICO

Santa Fe National Cemetery—New construction, rostrum, \$2,500; road in new addition, \$2,300; water and system for new addition, \$3,000.

OREGON

Ft. Stevens—Reconditioning roads, \$7,800.

UTAH

Fort Douglas—New construction, stable (100 animals) \$36,000; telephone construction, \$2,500; recondition roads \$22,151.

WASHINGTON

Ft. Casey—Reconditioning roads and wharves, \$10,000.

Ft. Lawton—New construction, N. C. O. quarters, \$1,728; reconditioning roads, \$12,154.

WYOMING

Ft. Francis E. Warren—New construction, N. C. O. quarters, \$6,436; officers quarters, \$2,581; reconditioning roads, reservation fence, \$111,500.

HAWAIIAN DEPARTMENT

Allaman Project—New construction, ammunition storage, \$74,000.

Schofield Barracks—New construction, officers quarters, \$1,325; reconditioning roads, water system and electrical system, \$105,700.

Ft. Armstrong—Recondition roads and electrical system, \$11,050.

Ft. De Russy—Reconditioning roads and electrical system, \$8,850.

Ft. Kamehameha—Recondition roads drainage and electrical system, \$74,820.

Luke Field—Reconditioning road and wharf, \$40,750.

Ft. Ringer—Recondition roads, water, sewer, and light systems, \$56,425.

Ft. Shafter—Reconditioning fencing, electrical and sewer systems and roads \$19,000.

Wheeler Field—New construction, grading landing field and technical building area, \$6,427; hangars, \$240; paved aprons, \$1,139.

PANAMA

Albrock Field—New construction, dispensary, \$27,318; officers mess, \$36,299; guardhouse, \$22,799; garage, \$21,774; Q. M. warehouse, \$7,836; fire station, \$6,426; paved aprons, \$10,100; Q. M. maintenance, \$17,203; completion of field shops, hangars, field warehouse and photo building, \$19,000; grading landing field and technical building area, \$1,109; A. C. warehouse and shops \$26; headquarters and operations building, \$34,653; radio, parachute and armament building, \$23,817; gasoline and oil storage, \$70,354; paint oil and dope warehouse, \$4,932.

Ft. Clayton—New construction, barracks, \$48,331; N. C. O. quarters, \$12,676; officers quarters, \$70,129; eng. map reproduction building, Corozal, \$9,939.

8—CLUB BUILDINGS

Plans Being Refigured.

LODGE BLDG. Cost, \$—
SAN FRANCISCO. Fourteenth and Landers Streets (125x85 feet).

Two-story and mezzanine floor and basement Class B reinforced concrete lodge building (auditorium 55x100 ft.) handball and basketball courts, showers, banquet rooms, seven lodge rooms, two card rooms and two committee rooms.

Owner—United Irish Societies.
Architect—John J. Foley, 770 5th Ave. San Francisco.

Plans are being re-figured by the four lowest bidders on the previous bid opening as follows:

Reilly & Grace, 703 Market St.
Robert McCarthy, 1363 14th Ave.
Frank J. Reilly, 6350 Fulton St.
T. Broderick, 236 Park Road, Burlingame.

Metal Window Contract Awarded.
ALTERATIONS Cost, \$40,000

SAN FRANCISCO. Sutter and Powell Streets.

Alterations to third and fourth floors of the Sir Francis Drake Hotel.

Owner—Sir Francis Drake Hotel.
Architect—W. P. Day, Financial Center Bldg., San Francisco.

Lessee—Bohemian Club.
Contractor—Lindgren and Swinerton, Inc., 225 Bush Street.

Metal Windows—Michel & Pfeffer Iron Works, Tenth and Harrison Sts.
Other awards previously reported.

Sub-Contracts Awarded.
LODGE BLDG. Cont. Price, \$37,421

FRESNO, Fresno Co., Calif. Tuolumne St. and Van Ness Ave.

Two-story stucco and tile lodge building (auditorium to seat 800, two secondary lodge rooms, banquet hall to seat 800, clubrooms, ballrooms, lighting and ventilating system, etc.) replace lodge building destroyed by fire.

Owner—Woodmen of the World (Jas. Nielsen, clerk) Fresno.

Architect—E. J. Kump, Rowell Bldg., Fresno.

Contractor—W. J. C. Chs., American Trust Co. Bldg., San Jose.

Lumber—Valley Lumber Co., Fresno.

Heating, Plumbing and Sheet Metal—Barrett-Hicks Co., Fresno.

Electric—Inland Light Co., Fresno.

Mill Work—Fresno Planing Mill, Fresno.

Structural Steel, Reinforcing Steel, Miscellaneous Iron and Ornamental Iron—Kyle Co., Fresno.

Lathing and Plastering—M. E. Summers, Fresno.

9—HOSPITALS

SAN FRANCISCO.—Lindgren and Swinerton, Inc. awarded a contract for window cleaning to the American Bldg. Maintenance Co., 467 O'Farrell St., in connection with the 7-story and basement medical building at Second and Parnassus Avenues for the Regents of the University of California.

10—HOTELS

Preparing Plans.
REPAIR HOTEL Cost, \$40,000

LONG BEACH, Los Angeles Co., Cal. 313 East Ocean Boulevard.

Repair earthquake damage to Grand Pacific Hotel (install conc. bond beams, etc.)

Owner—Boulevard Investment Co.
Architect—Clifford A. Balch, 1914 S Vermont Ave., Los Angeles.

Contract Awarded.
ALTER HOTEL Cost, \$50,000

PORTLAND, Oregon. 269 Pine St.

Alterations and improvements to hotel (redecorating of dining room, ballroom, fixtures, beer tavern.)

Owner—Multnomah Hotel, 269 Pine St.
Architect—R. F. McClellen, % owner.
Contractor—A. D. Bellanger, Multnomah Hotel, Portland.

Plans Completed
HOTEL-APT. Cost, \$1,500,000

EAGLE ROCK, Los Angeles Co., Cal. 825 Colorado Blvd.

Eight-story Class A reinforced concrete hotel apts. (200x400) composition and tile roof, skylights, metal roof vents, structural steel, cast concrete, rolling casement windows, ornamental iron, fire escapes, electric and steam heating system, hollow tile partitions, metal lockers, ornamental plaster ceilings, 11 electric elevators, service and freight elevators, hollow metal elevator doors, incinerator, automatic sprinkler system, laundry, etc.)

Owner—Alonzo C. Mather, 500 S Lorraine Blvd., Los Angeles.

Architect—Marcus P. Miller, Board of Trade Bldg., Los Angeles.

Segregated Bids Being Taken.
REMODEL HOTEL Cost, \$10,000

MARYSVILLE, Yuba Co., Calif. 424 Fifth Street.

Remodel five-story hotel (reinforced concrete and frame construction, brick curtain walls) work involves new roof, exterior, painting, new windows, stormproofing upper part of building, interior changes, etc.)

Owner—Marysville Hotel.
Architect—Chas. Dean, California State Life Bldg., Sacramento.

Engineer—C. A. Worden, Marysville Hotel, Marysville.

Segregated bids are being taken by Mr. Worden.

Heating Contract Awarded.
HEATING SYSTEM Cost, \$—

SAN FRANCISCO. 620 Jones St.

Heating system in hotel.
Owner—Gaylord Hotel.

Architect—Not Given.
Heating—Jas. H. Pinkerton, 927 Howard Street.

Refrigeration work has just been completed by Cochran & St. John.

11—ICE AND COLD STORAGE PLANTS

ONTARIO, San Bernardino Co., Cal.—Ontario Ice & Cold Storage Company's plant in Ontario was damaged to the extent of \$60,000 by fire July 18.

12—POWER PLANTS

PASO ROBLES, San Luis Obispo Co., Cal.—Superior Engine Co., 147 N. Los Angeles St., Los Angeles, at \$12,600 awarded contract by city council to furnish and install power equipment consisting of Diesel engine, water pumps and electric motor.

Complete bids published April 6.

LOS ANGELES, Cal.—Tower Builders, Inc. (Consolidated Steel Corp., Ltd., Western Pipe & Steel Co. of Calif. and Blaw-Knox Co.), tentatively awarded contract by Water & Power Commission, July 25 at \$1,957,737 to furnish single circuit towers for the eastern and western divisions.

McClintic-Marshall Corp., 11,100 S. Central Ave., Los Angeles, awarded contract for double circuit towers (item 2) at \$322,088.

LOS ANGELES, Cal.—Until 10 A. M., Aug. 17, bids will be received by the Metropolitan Water District, 306 West Third St., Los Angeles, for constructing electric power transmission line in accordance with Specifications No. 40, which may be purchased at Room 1007, 306 West 3rd St., for \$2 per set. Certified check or cashier's check for \$3000 must accompany each proposal. J. L. Burkholder, Assistant General Manager. The work to be contracted for consists of the construction of approximately 35 miles of 60,000-volt transmission line, located between the So. Cal. Edison Co.'s substation at Colton and the District's substation at Cabazon, all in San Bernardino and Riverside Counties.

13—PUBLIC BUILDINGS FIRE HOUSES & JAILS

Plans Being Completed.
ADDITION Cost, \$15,000

WATSONVILLE, Santa Cruz Co., Cal. Reinforced concrete and structural steel addition to Public Library, 40x60 feet); composition and shingle roofing and remodel present building.

Owner—City of Watsonville.
 Architect—A. W. Story, Pajaro Valley Bank Bldg., Watsonville.
 Bids will be asked in about two weeks.

SAN FRANCISCO.—Otis Elevator Co., 1 Beach St., at \$12,820 awarded contract by San Francisco War Memorial Trustees for furnishing and installing stage equipment hoists. Complete bids published July 14.

FULLERTON, Orange Co., Cal.—Fullerton City Council has approved preliminary plans prepared by Architect G. Stanley Wilson, Mission Inn, Riverside, for the proposed city hall to be built in Commonwealth Park, Fullerton. The city will attempt to finance the building under provisions of the Industrial Recovery Act. It will be a steel frame structure with concrete walls. Estimated cost \$150,000. Mr. Wilson has also submitted plans to the Fullerton library board for additions and alterations to the Fullerton public library.

LOS ANGELES, Cal.—Los Angeles Library Commission this week recommended to Mayor Frank L. Shaw that funds be provided for library improvements as follows: Appropriation of \$200,000 for the enlargement of fifteen branch libraries; \$125,000 to replace three old buildings; \$375,000 to construct city-owned buildings to take the place of eight branches in rented quarters; \$250,000 for new branch buildings in seven unserved sections of the city, and \$50,000 for improvements at the Central Public Library.

Planned.
CIVIC CENTER Cost, \$—
FRESNO, Fresno Co., Cal. Van Ness Avenue.
 Civic center (city hall, auditorium, library and jail).
 Owner—County of Fresno.
 Architect—Fred. Schwartz, Brix Bldg., Fresno.

SAN FRANCISCO.—Judson Pacific Co., 609 Mission St., at \$64,375 submitted low bid to Department of Public Works for jail equipment for the jail building at Sneath Ranch, for the city and County of San Francisco. Following bids received:
 Judson Pacific Co. \$ 64,375
 Pacific Electric Mfg. Corp. 68,974
 MacDonald & Kahn, Ltd. 72,692
 Dinuba Steel Products Co. 103,250
 Bids held under advisement.

REDLANDS, San Bernardino Co., Calif.—Redlands city council deferred the matter of selecting an architect to design the new Redlands city hall until August 2. The selection was to have been made on July 24.

Sub-Contracts Awarded.
FIRE HOUSE Cont. Price, \$13,684
SACRAMENTO, Sacramento Co., Cal.
 L Street near Alhambra Blvd.
 One-story brick fire-house (57x92 feet) tile and composition roof, concrete floors, etc.
 Owner—City of Sacramento.
 Architect—Chas. Dean, California State Life Bldg., Sacramento.
 Contractor—Azevedo & Sarmiento, 920 O St., Sacramento.
Concrete Work—C. R. Fiedler, 2631 30th St., Sacramento.
Brick Work—W. J. Clifford, 2815 S St., Sacramento.
Miscellaneous Iron—Alling Iron Works 2415 5th St., Sacramento.
Steel Sash—Soule Steel Co., 1750 Army St., San Francisco.
Mill Work—Sierra Mill & Lumber Co., 201 V St., Sacramento.
Glass and Glazing—T. E. Cain, 2416 J St., Sacramento.

Plastering—T. F. Scollan Co., 2919 T St., Sacramento.
Sheet Metal—W. H. Gibson, 2903 E St., Sacramento.
Roofing—Bush Roofing Co., 1912 K St., Sacramento.
Painting—Willecox and Wilson, 1724 34th St., Sacramento.
Tile and Marble—Fischer Tile Co., 1219 J St., Sacramento.
Plumbing—Carpenter and Mendenhall, 907 Front St., Sacramento.
Heating—F. Z. Ahl, 1615 21st Street, Sacramento.
Electrical—M. P. Canon, 2708 Tenth Ave., Sacramento.

PORTLAND, Ore.—A \$700,000 building construction program for 4 state institutions has been approved by Gov. Clarence D. Martin, work to be undertaken during the next eight months. Included in the program are:
 New buildings at the Western State Hospital at Steilacoom, \$350,000.
 Administration building at Medical Lake, \$200,000.
 New ward building at Sedro-Wooley Institution, \$100,000.
 New power house at State Penitentiary, \$50,000.

Planned.
CIVIC CENTER Cost, \$—
FRESNO, Fresno Co., Cal.
 Civic center (building to include auditorium to seat 3500; hall of records, city hall and public library).
 Owner—County of Fresno.
 Architect—H. Rafael Lake, Pacific Southwest Bldg., Fresno.
 A sketch has been made by the architect showing the possibility of grouping public buildings in Court-house Park.

Chowchilla, Madera Co., Cal.—Chowchilla city council is investigating costs for building a new city hall and a swimming pool in Chowchilla. The projects would be financed under provisions of the Industrial Recovery Act.

Plans Being Completed.
ADDITION Cost, \$15,000
WATSONVILLE, Santa Cruz Co., Cal.
 Reinforced concrete and structural steel addition to Public Library, (40 by 60 feet); composition and shingle roofing and remodel present building.
 Owner—City of Watsonville.
 Architect—A. W. Story, Pajaro Valley Bank Bldg., Watsonville.
 Bids will be asked in about ten days.

SOUTHERN CALIF.—Los Angeles city construction department, Chas. O. Britain, supt., has prepared preliminary plans for new fire stations as follows: Van Nuys, two-story, concrete building, 84x110 ft., to cost \$48,800; Station No. 21, 1187 E 52nd St., one-story brick and concrete building, 64x120 ft., and an equipment shed, 40x80 ft., to cost \$30,376; Station No. 65, Watts, two-story, brick and concrete building, 40x104 ft., to cost \$28,000. Preliminary plans have also been prepared for repairing earthquake damage to Station No. 22 at 4352 S Main St., to cost \$4200. Appropriations for work not yet made.

SAN FRANCISCO—Judson Pacific Co., 609 Mission St., at \$64,375 awarded contract by Department of Public Works for jail equipment for the jail building at Sneath Ranch for the City and County of San Francisco.

14—RESIDENCES

To Ask Bids.
RESIDENCE Cost, \$6000
VALLEJO, Solano Co., Cal. Sacramento and Carolina Sts.

Two-story and basement frame and stucco residence (7 rooms and 2 baths); tile roof, gas hot air heating system, tiled baths and kitchen, hardwood floors, etc.
 Owner—Withheld.
 Architect—Chas. E. Perry, 514 Marin Ave., Vallejo.

Plans Prepared.
RESIDENCE Cost, \$12,000
SANTA BARBARA, Calif. Montecito District.
 Two-story frame and stucco residence (12 rooms) English type.
 Owner—Moncure Deardorf, 1623 Chapala St., Santa Barbara.
 Architect—E. B. Harmer, Santa Barbara.

Contract Awarded.
RESIDENCE Cost, \$—
SAN FRANCISCO, Marina District.
 Two-story and basement frame and stucco residence (8 rooms and 3 baths) tile roof, gas heating system, tiled baths, hardwood floors.
 Owner—Dr. Brusco.
 Architect—Crales Strothoff, 2274 15th St., San Francisco.
 Contractor—J. Bettancourt, 456 Beach St., San Bruno.

Contract Awarded.
RESIDENCE Cost, \$6000
SAN FRANCISCO, W Thirty-sixth Ave. 155 N Balboa St.
 One-story and basement frame and stucco residence.
 Owner—Mrs. R. Steinman, 710 33rd Ave., San Francisco.
 Architect—Not Given.
 Contractor—M. Little, 1643 20th Ave., San Francisco.

To Be Done By Day's Work.
RESIDENCES Cost, \$5000 each
SAN FRANCISCO, E Twenty-sixth Ave. 42 N Ocean Ave.
 Three one-story and basement frame and stucco residences.
 Owner and Builder—J. Arnott, 633 Taraval Street, San Francisco.
 Architect—Not Given.

Sub-Contracts Awarded.
RESIDENCE Cost, \$—
SAN FRANCISCO, Forest Hill.
 One and three-story frame and stucco residence (6 rooms).
 Owner—Mr. Cowell.
 Architect—Morrow & Morrow, de Young Bldg., San Francisco.
 Contractor—G. P. W. Jensen, 320 Market St., San Francisco.
Reinforcing Steel—C. W. Hauck, 280 San Bruno Ave., San Francisco.
Concrete—Louis Sartorio, 2627 Lombard St., San Francisco.
Steed Sash—Michel & Pfeffer Iron Works, Harrison and Tenth Sts., San Francisco.

ALTER RESIDENCE Cost, \$1500
SAN LEANDRO, Alameda Co., Cal.
 Alterations and additions to residence (add one room and bath, etc.)
 Owner—Withheld.
 Plans by Irwin M. Johnson, 2215 7th Ave., Oakland.

RESIDENCE Cost, \$5000
SAN FRANCISCO, E Fourteenth Ave. 70 N Vicente St.
 Two-story and basement frame and stucco residence.
 Owner—N. A. Huff.
 Architect—S. A. Colton, 544 Market St., San Francisco.
 Contractor—G. J. Elkington & Sons, 330 Vicente St., San Francisco.

To Be Done By Day's Work.
RESIDENCE Cost, \$6000
SAN FRANCISCO, N North Point St. 155 E Webster St.
 Two-story and basement frame and stucco residence.

Owner—T. C. Ryan, 1915 Green St., San Francisco.
 Architect—F. F. Amandes, 1879 18th Ave., San Francisco.

Additional Sub-Contracts Awarded.
RESIDENCE Cost, \$8500
PIEDMONT, Alameda Co., Cal. No. 50 Wildwood Gardens.

Two-story frame and stucco residence
 Owner—H. B. Gerlach, 132 Palm Dr., Piedmont.

Architect—Not Given.
 Contractor—J. F. Frey, 4718 Congress Ave., Oakland.

Sash, Doors and Screens—A-I Sash & Cabinet Co., 335 E-Eighth St., Oakland.

Steeleye Beams—Herrick Iron Works, 18th and Campbell Sts., Oakland.
 Other awards previously reported.

Contract Awarded.
RESIDENCE Cost, \$4000
EMERALD LAKE, San Mateo Co.

Two-story wood frame residence (five rooms, 2 sleeping porches) shake exterior walls, crushed granite roof, brick chimney, etc.

Owner—Miss Mary Co., % Architect.
 Architect—Charles Strothoff, 2274 15th St., San Francisco.

Contractor—Gus Waller, 221 Hudson St., Redwood City.

Additional Sub-Contracts Awarded.
RESIDENCE Cost, \$4800
NORTH BERKELEY, Alameda Co., Cal. Hilldale near Marin Ave.

Two-story frame residence (6 rooms & 2 baths) wood exterior, shingle roof, gas heating system, hardwood floors, etc.

Owner—R. M. Sanford.
 Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.

Contractor—J. M. Walker, 1709 Grove St., Berkeley.

Plastering—Scott & Spear, 1431 Northside Ave., Berkeley.

Painting—Blomgren Bros., 1927 Russell St., Berkeley.

Brick—P. C. Clausen, 170 Ardmore Road, Berkeley.

Millwork—Tilden Lumber Co., Foot of University Ave., Berkeley.

Contract Awarded.
RESIDENCE Cost, \$4500
BERKELEY, Alameda Co., Cal.

One and one-half-story brick veneer and redwood residence (6 rooms) shingle roof, gas heating system, hardwood floors and trim, tiled baths, steel sash, etc.

Owner—Withheld.
 Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.

Contractor—F. W. Confer, 5730 Keith Ave., Berkeley.

Sub-Contracts Awarded.
RESIDENCE Cost, \$30,000
PEBBLE BEACH, Monterey Co., Cal.

Two-story and basement frame and stucco residence (12 rooms and 4 baths); terra cotta tile roof, electric heating system, wood and bronze sash, ornamental iron, colored tile baths, hardwood floors etc.

Owner—J. D. Chapman.
 Architect—Clarence Tantau, 210 Post St., San Francisco.

Contractor—Dowsett - Ruhl, Russ Bldg., San Francisco, and Pebble Beach.

Mill Work—Pacific Manufacturing Co., Santa Clara.

Plastering—Leonard Bosch, 70 Chesley St., San Francisco.

Other awards will be reported shortly.

To Be Done By Day's Work.
RESIDENCE Cost, \$7000
BURLINGAME, San Mateo Co., Cal. Bloomfield Road.

One-story and basement frame and stucco residence.

Owner and Builder—Joe Condo, 525 S Grant St., San Mateo.

Contract Awarded.
RESIDENCE Cost, \$5000
WOODLAND, Yolo Co., Calif.

Two-story frame residence.
 Owner—Mr. and Mrs. A. Moroni.
 Architect—Not Given.

Contractor—J. G. Motroni, Woodland.

Contract Awarded.
ADDITION Cost, \$—
FAIRFIELD, Solano Co., Calif.

Frame addition to residence (24x24 ft.) kitchen, dining room and breakfast room, screened-in porch, etc.

Owner—J. W. Baumann, Fairfield.
 Architect—Not Given.
 Contractor—Klingsell Bros., Fairfield.

To Be Done By Day's Work.
RESIDENCE Cost, \$4000
SACRAMENTO, Sacramento Co., Cal. 1725 49th Street.

One-story and basement frame and stucco residence (6 rooms).

Owner and Builder—Frank Viglia, 1733 49th St., Sacramento.
 Architect—Not Given.

Preparing Working Drawings.
RESIDENCE Cost, \$4500
BERKELEY, Alameda Co., Calif.

1½-story brick veneer and redwood residence (6 rooms) shingle roof, gas heating system, hardwood floors and trim, tiled baths, steel sash, etc.

Owner—Withheld.
 Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.

Contract Awarded.
RESIDENCE Cost, \$5600
SAN FRANCISCO, Thirty-fifth Ave. near Taraval Street.

One-story and basement frame and stucco residence (5 rooms) shingle tile roof, gas heating system, hardwood floors and trim, colored fixtures, tiled baths, canvas walls.

Owner—J. Healey.
 Architect—Charles Strothoff, 2274 15th Street.

Contractor—Chas. Anderson, 150 Granville Street.

Sub-Contracts Awarded.
ADDITION Cost, \$2500
PEBBLE BEACH, Monterey Co., Cal.

Addition to residence (add studio and garages) frame construction, plaster exterior, tile roof.

Owner—F. A. Ingalls.
 Architect—Williams and Wastell, 374 17th St., Oakland.

Contractor—F. C. Stolte, 3449 Laguna St., Oakland.

Lumber and Millwork—Sunset Lumber Co., 400 High St., Oakland.

Brick Chimney—Henry Koenig, 4418 Ygnacio Ave., Oakland.

To Be Done By Day's Work.
RESIDENCE Cost, \$5000
OAKLAND, Alameda Co., Calif. 3606 Brighton Avenue.

One-story frame and stucco residence (6 rooms).

Owner—W. H. Warren, 3502 Foothill Blvd., Oakland.
 Architect—Not Given.

Contract Awarded.
RESIDENCE Cost, \$4000
SAN FRANCISCO, W Villa Terrace 50 E Graystone Terrace.

Two-story and basement frame and stucco residence.

Owner—S. R. Pownell, 1445 Clayton St.
 Architect—Not Given.
 Contractor—J. Johnson & Son, 1614 Church Street.

Contract Awarded.
RESIDENCE Cost, \$6000
SAN FRANCISCO, NW 35th Avenue and Fulton Street.

Two-story and basement frame and stucco residence.

Owner—Lillian Hodnett, 795 Sutter.
 Architect—Not Given.

Contractor—Michael Bomerer, 762 De Haro Street.

Plans Being Figured—Bids Close Aug. 7, 4:30 P. M.
RESIDENCE Cost, \$—
ROSS, Marin Co., Cal.

One-story and basement frame and brick veneer residence (6 rooms) redwood shake roof, oil hot air heating system, hardwood floors, bath, etc.

Owner—Victor E. Kleven.
 Architect—W. W. Wurster, 260 California St., San Francisco.

Bids are being taken from a selected list of contractors.

Sub-Contracts Awarded.
RESIDENCE Cost, \$5000
SAN FRANCISCO, S Quintara St. 403 E 19th Avenue.

Two one-story and basement frame and stucco residences (5 rooms) composition roof, gas heating system, hardwood floors, etc. (English type).

Owner and Builder—K. Evers, 2100 19th Ave., San Francisco.

Architect—F. E. Amandes, 1879 18th Ave., San Francisco.

Concrete—Vannucci Constr. Co., 1875 San Bruno Ave., San Francisco.

Lumber—Loop Lumber Co., Central Basin.

Sheet Metal and Heating—Atlas Heating & Ventilating Co., 557 4th St., San Francisco.

Plumbing—George Tusch, 2455 24th Ave., San Francisco.

Roofing—Acme Roofing Co., 21 Lippard St., San Francisco.

Tile Roofing—Atlas Tile Roofing Co., 708 Oak St., San Francisco.

Plastering—D. Vannucci, 271 Naples St., San Francisco.

Hardwood Floors—Leo Foge, 655 McAllister St., San Francisco.

Fixtures—United Showcase & Fixture Co.

Sub-Contracts Awarded.
RESIDENCE Cost, \$5835
BAYWOOD, San Mateo Co., Cal. Lot 18 Block 9.

Two-story frame and stucco residence (7 rooms)

Owner—A. Sandretti et al. 430 Hobart Ave., San Mateo.

Plans by Clarence A. Jackson.
 Contractor—Henry Voelker, 805 Winchester Drive, San Mateo.

Lumber—Loop Lumber Co., Central Basin, San Francisco.

Plumbing—Cottler Co., San Mateo.

Plastering—C. B. Henderson, San Mateo.

Mill Work—National Mill & Lumber Co., 400 High St., Oakland.

Tile Roofing—C. L. Frost Co., Palo Alto.

Inside Tile—Benetti Tile Co., Burlingame.

Concrete—G. Bragato, San Mateo.

Steel Sash—Michel & Pfeiffer Iron Works, Harrison and Tenth Sts., San Francisco.

Roller Screens—Bates Carpenter Co., 557 Market St., San Francisco.

Fireplaces and Chimney—Martin Gackstetter, Burlingame.

Sheet Metal and Heating—Cottler Co., San Mateo.

Ornamental Iron—San Mateo Forge Co., San Mateo.

Contract Awarded.
RESIDENCE Cost, \$—
SAN JOSE, Santa Clara Co., Cal. Huil Ave. near Dalmas Ave.

One-story and basement frame and stucco residence (5 rooms).
 Owner—Pete De Bella, Spencer Ave., San Jose
 Architect—Not Given.
 Contractor—J. B. Byerley, 985 Byerley Ave., San Jose.

Sub-Contracts Awarded.

RESIDENCE Cost, \$6000
 BERKELEY, Alameda Co., Cal. No. 1741 Sonoma Street.
 Two-story frame and stucco residence (six rooms).
 Owner—Sylvia E. Soderberg, 2218 Browning St., Berkeley.
 Plans by Theo. G. Ruegg, 1515 Taylor St., Berkeley.
 Contractor—Emil Person, 829 San Luis Road, Berkeley.
 Lumber—California Mill & Lumber Co., 1829 Webster St., Alameda.
 Excavation—J. Catucci, 1212 18th Ave. Oakland.
 Concrete—J. H. Fitzmaurice, 2857 Hannah St., Oakland.
 Sheet Metal—Owens Sheet Metal Wks. 1612 Carleton St., Berkeley.
 Plumbing—J. A. Fazio, 402 Castro St. Oakland.
 Sub-bids are wanted on plastering, mill work, steel sash, glass, hardwood flooring, roofing, painting and brick work.

Sub-Contracts Awarded.

RESIDENCE Cost, \$8500
 OAKLAND, Alameda Co., Cal. No. 1901 Oak View Drive.
 Two-story frame and stucco residence (tile roof, gas furnace, hardwood floors, tiled baths, etc.)
 Owner—Chas. E. Braun, 5545 Taft Ave., Oakland.
 Architect—Miller & Warnecke, Financial Center Bldg., Oakland.
 Contractor—Thos. F. L. Furlong, 460 Jerome Ave., Oakland.
 Concrete—J. H. Fitzmaurice, 354 Hobart St., Oakland.
 Reinforcing Steel—McGrath Steel Co., 354 Hobart St., Oakland.
 Brick—Wilhelm Holst, 2827 Park St., Berkeley.
 Steel Sash—Soule Steel Co., 1750 Army St., San Francisco.
 Sheet Metal—M. C. Henry, 1183 53rd St., Oakland.
 Tile—Rigney Tile Co., 3012 Harrison St., Oakland.
 Plastering—Spaan Bros., 2145 Ward St., Berkeley.
 Millwork—Pacific Mill & Mfg. Co., 1315 7th St., Oakland.
 Electric—Paramount Electric Co., 4216 Telegraph Ave., Oakland.
 Roofing—General Roofing Co., 2985 Beach St., Oakland.
 Lumber—E. K. Wood Lumber Co., Frederick and King Sts., Oakland.

Preparing Plans.

RESIDENCE Cost, \$10,000
 SAN FRANCISCO, E San Pablo Ave. N. Yerba Buena.
 Two-story and basement frame and stucco residence (8 rooms and 3 baths); slate roof, gas hot air heating system, tiled baths, hardwood floors, etc.
 Owner—John B. King.
 Architect—Martin Rist, Phelan Bldg., San Francisco.
 Bids will be asked in about two weeks.

Contract Awarded.

ALTERATIONS Cost, \$2000
 PIEDMONT, Alameda Co., Cal. No. 228 Sea View Avenue.
 Alterations to frame residence (enlarge living room, add bath, etc.)
 Owner—Chas. B. Bain.
 Architect—Farr & Ward, 68 Post St., San Francisco.
 Contractor—A. Cederborg, 1455 Excelsior Blvd., Oakland.

To Be Done By Day's Work.

RESIDENCE Cost, \$5000
 SAN FRANCISCO, S North Point St. 180 W Buchanan St.
 One-story and basement frame and stucco residence.
 Owner and Builder—F. A. Soracco, 127 30th St., San Francisco.
 Architect—Not Given.

To Be Done By Day's Work.

RESIDENCE Cost, \$4000
 SAN FRANCISCO, E Alemany Blvd. 198 N Silver Ave.
 One-story and basement frame and stucco residence.
 Owner—C. Swigert, 811 Athens St., San Francisco.
 Architect—Not Given.

Contract Re-Awarded.

RESIDENCE Cost, \$8500
 OAKLAND, Alameda Co., Cal. Oakmore Avenue.
 Two-story frame and stucco residence (tile roof, gas furnace, hardwood floors, tiled baths, etc.)
 Owner—Chas E. Braun.
 Architect—Miller & Warnecke, Financial Center Bldg., Oakland.
 Contractor—Thos. F. L. Furlong, 460 Jerome Ave., Oakland.

Sub-Contracts Awarded.

RESIDENCE Cost, \$10,000
 OAKLAND, Alameda Co., Cal. Estates Drive near Hampton Road.
 Two-story and basement frame and stucco residence (9 rooms) shingle roof, gas heating system, hardwood floors, reinforcing steel, tile work, etc.
 Owner—Dr. Charles Hall, 411 30th St., Oakland
 Architect—Miller & Warnecke, Financial Center Bldg., Oakland.
 Contractor—Theodore H. Lapham, 546 Kenmore Ave., Oakland.
 Lumber, Sash, Doors, Millwork—Hogan Lumber Co., 2nd and Alice Sts., Oakland.
 Electric—Kerr & Clifford, 3525 E-14th St., Oakland.
 Plumbing—J. R. Pierce Plumbing Co. 7109 E-14th St., Oakland.
 Plastering—Herman Thorndyke, 2450 E-21st St., Oakland.
 Painting—W. H. Pollard, 522 Grand Ave., Oakland.
 Hardware—Maxwell Hardware Co., 1320 Washington St., Oakland.

Contract Awarded.

RESIDENCE Cost, \$—
 BERKELEY, Alameda Co., Cal. Yosemite St. and The Alameda.
 One-story and basement brick veneer residence (5 rooms) shingle roof, gas heating system, hardwood floors, tiled bath; steel sash, etc.
 Owner—Withheld.
 Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.
 Contractor—J. M. Walker, 1709 Grove St., Berkeley.

Additional Sub-Contracts Awarded.

RESIDENCE Cost, \$5000
 BERKELEY, Alameda Co., Cal. No. 494 Cragmont Avenue.
 Two-story frame and stucco residence.
 Owner—W. C. Cole, 611 Euclid Ave., Berkeley.
 Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.
 Contractor—J. M. Walker, 1709 Grove St., Berkeley.
 Plastering—Scott & Spear, 1431 Northside Ave., Berkeley.
 Brick Work—P. C. Clausen, 170 Ardmore Road, Berkeley.
 Other awards reported July 12.

Brick and Heating Contracts Awarded

RESIDENCE Cost, \$—
 OAKLAND, Alameda Co., Cal. Wildwood Gardens.
 Two-story frame and stucco residence (6 rooms) English type, hot air heating system, tiled baths, hard-

wood floors, etc.
 Owner—Frances Levensala.
 Architect—W. R. Yelland, Financial Center Bldg., Oakland.
 Contractor—B. F. Woolley, 6521 Thorn Road, Oakland.
 Brick Work—Wilhelm Holst, 2827 Park St., Berkeley.
 Heating—Aladdin Heating Corp., 5107 Broadway, Oakland.
 Other awards reported July 20.

Sub-Contracts Awarded.

RESIDENCE Cost, \$—
 BERKELEY, Alameda Co., Cal. Elbridge Court near Coventry Road.
 One and one-half-story frame and stucco residence (6 rooms).
 Owner and Builder—John O. Weston, 1729 Grove St., Berkeley.
 Plans by Owner.
 Finished Cement—Axel A. Johnson, 1280 Monterey Ave., Berkeley.
 Fixtures—S. A. Ran Co., Inc., 824 Webster St., Oakland.
 Brick—Morgan Bros., 2205 84th Ave., Oakland.
 Plumbing—M. B. Lubis Plumbing Co., 1451 7th St., Oakland.
 Painting—Albin Weston, 3118 Ellis St., Berkeley.
 Millwork—Paul Larson, 9327 Scott St., Oakland.
 Electric—Charles Camp, Richmond.
 Plastering—Geo. Garcia, 1656 Ocean View Ave., Berkeley.

Sub-Contracts Awarded.

RESIDENCE Cost, \$5000
 BERKELEY, Alameda Co., Cal. No. 635 Spruce Street.
 One and one-half-story frame and stucco residence (6 rooms) Spanish style, tile and composition roof, gas heating system, hardwood floors, etc.
 Owner and Builder—Milton S. Bonds, 914 The Alameda, Oakland.
 Architect—Not Given.
 Brick—W. H. Wisneropp, 3749 Quigley St., Oakland.
 Plumbing—Suendermann Plumbing Co., 921 University Ave., Berkeley
 Concrete—East Bay Constr. Co., 3817 San Pablo Ave., Oakland.
 Heating—L. F. Witham, 686 28th St., Oakland.
 Electric—E. L. Reed, 2541 Seminary Ave., Oakland.
 Roofing—Guy L. Tyler, 1502 Cedar St., Berkeley.
 Lumber and Frames—Hogan Lumber Co., 2nd and Alice Sts., Oakland.

Contract Awarded.

RESIDENCE Cost, \$—
 ALAMEDA, Alameda Co., Cal. No. 1426 Chestnut St.
 One-story frame residence (shingle roof, floor furnace, etc.)
 Owner—William E. Newton.
 Architect—Not Given.
 Contractor—J. H. Pickrell, 332 Santa Clara Ave., Alameda.

Construction To Start Shortly.

RESIDENCE Cost, \$5000
 ALAMEDA, Alameda Co., Cal. No. 325 Southwood Drive.
 Two-story and basement frame and stucco residence (7 rooms) English type, shingle roofing, wood sash, gas heating system, ornamental iron, etc.
 Owner—B. L. Folger.
 Architect—Not Given.
 Contractor—J. H. Pickrell, 332 Santa Clara Ave., Alameda.

Sub-Contracts Awarded.

RESIDENCE Cost, \$3500
 PIEDMONT, Alameda Co., Cal. Sandringham Road.
 Two-story and basement frame and stucco residence (six rooms) tile roof, gas hot air heating system, tiled baths, hardwood floors, etc.
 Owner and Builder—A. Hammarberg, 2340 Le Conte Ave., Berkeley.

Plans by Owner.

Lumber—Tilden Lumber Co., Foot of University Ave., Oakland.
Concrete—M. Medlis, 2427 Scenic Ave., Oakland.
Plumbing—J. R. Pierce Plumbing Co., 7199 E-14th St., Oakland.
Electric—F. W. Parkhurst, 4632 Pinehaven Road, Oakland.

Sub-Contracts Awarded.

RESIDENCES Cost, \$5000 each
WOODMONT, Contra Costa Co., Cal. Two one-story and basement frame residences (5 and 6 rooms each); rustic redwood exterior, shake roof, gas hot air heating system, oak floors, tiled baths, etc.
 Owner—John F. Ross, 1136 Arch St., Berkeley.

Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.
 Contractor—J. M. Walker, 1709 Grove St., Berkeley.

Surveying—J. H. Piatt, 2024 University Ave., Berkeley.

Concrete—Axel A. Johnson, 1280 Monterey Ave., Berkeley.

Aggregates—Golden Gate Stucco & Building Material Co., Brighton and Masonic Aves., Berkeley.

Lumber and Millwork—Tilden Lumber Co., Foot of University Avenue, Berkeley.

Electric—James W. Anderson, 2421 23rd Ave., Oakland.

Heating—M. C. Henry, 1183 53rd St., Oakland.

Hardwood Floors—Inlaid Floor Co., 4067 Watts St., Emeryville.

Plumbing—Suendermann Plumbing Co., 921 University Ave., Berkeley.

Hardware—Berkeley Hardware Co., 2154 University Ave., Berkeley.

Excavating and Grading—J. Henry Harris, 2208 Roosevelt Ave., Berkeley.

Plans Being Completed.

RESIDENCE Cost, \$—
UKIAH, Mendocino Co., Cal. One-story frame and stucco residence (5 rooms); shingle roofing, hot air furnace, hardwood floors, etc.
 Owner—Percy W. Handy, 310 W. Perkins St., Ukiah.

Plans by Walter L. Brodrick, 640 The Arlington, Berkeley.

Plans will be forwarded to Ukiah within a few days at which time bids will be asked by the owner.

To Be Done By Day's Work.

RESIDENCES Cost, \$3000 each
SAN FRANCISCO. E Tocaloma N Blanken Street.

Two one-story and basement frame and stucco residences.

Owner and Builder—W. H. Grahn, 2965 Mission St., San Francisco.

Architect—Not Given.

Contract Awarded.

RESIDENCE Cost, \$4000
SAN FRANCISCO. W Alemany Blvd., 250 N Santa Rosa.

One-story and basement frame and stucco residence.

Owner—L. Depaoli, 3289 Mission St.

Architect—Not Given.

Contractor—C. T. Lindsay, 4363 26th Avenue.

Additional Sub-Contracts Awarded.

ADDITIONS Cost, \$20,000
PALO ALTO, Santa Clara Co., Calif. Stanford Campus.

Alterations and additions to 3-story frame and stucco fraternity house (add new third story, alterations and additions to first and second floors, etc.)

Owner—Phi Delta Theta, 538 Lasuen St., Stanford University.

Architect—W. E. Huson, 1913 Green St., San Francisco.

Contractor—Lindgren and Swinerton, Inc., 225 Bush St., San Francisco.

Oak Floors—A. Backlund, Palo Alto.

Tile Work—Bloomquist Tile Co., Redwood City.

Other awards previously reported.

To Be Done By Day's Work.

RESIDENCES Cost \$4,000 each
SAN FRANCISCO. W 34th Avenue 27 N Lawton Street.

Five one-story and basement frame and stucco residences.

Owner and Builder—Whitney Investment Co., 36th Ave. and Kirkham.

Plans by Owner.

To Be Done By Day's Work.

RESIDENCE Cost, \$5000
SAN FRANCISCO. W 17th Ave. 244 S Wawona Street.

One-story and basement frame and stucco residence.

Owner and Builder—S. F. Johnson, 2601 17th Ave.

Plans by Owner.

Prospective Bidders.

RESIDENCE Cost, \$10,000
BERKELEY, Alameda Co., Cal. Virginia and Euclid Avenue.

Two-story frame and stucco residence (11 rooms and 3 baths, doctor's offices) tile roof, gas heating system, hardwood floors, tiled baths.

Owner—Dr. Horace Stare, 2510 Bancroft Way, Berkeley.

Architect—Not Given.

Following have procured plans:

A. Cederborg, 1455 Excelsior Blvd., Oakland.

A. Wieben, 870 Longridge Rd., Oakland.

F. G. Johnson.

George Windsor, 928 Kingston Ave., Oakland.

Fred. J. Westlund, 625 40th St., Oakland.

Theo. H. Lapham, 546 Kenmore St., Oakland.

H. C. Pfrang, 5659 Ocean View Dr., Oakland.

C. M. Norgrove, 2220 Roosevelt St., Berkeley.

J. M. Walker, 1709 Grove St., Berkeley.

Contract Awarded.

RESIDENCE Cost, \$8000
SAN FRANCISCO. SE Hernandez St. and Merced Ave.

Two-story and basement frame and stucco residence (7 rooms and 2 baths) Spanish type, tile and composition roof, gas hot air heating system, canvas walls and ceilings.

Owner—Withheld.

Architect—S. A. Colton, 544 Market St., San Francisco.

Contractor—H. H. Isaac, 1660 Page St., San Francisco.

Working drawings are completed and construction will start in about one week.

Additional Sub-Contracts Awarded.

RESIDENCE Cont. Price, \$11,050
PIEDMONT, Alameda Co., Cal. St. James Wood.

Two-story and basement frame and stucco residence (9 rooms and 3 baths); hot air heating system, slate roof, steel sash, hardwood floors, tiled baths, etc.

Owner—A. M. Meijnek.

Architect—W. E. Schirmer, Financial Center Bldg., Oakland.

Contractor—Jensen & Pederson, 3443 Adeline St., Oakland.

Brick Work—Hans Johnson, 5012 Congress Ave., Oakland.

Tile—Superior Tile & Products Co., 3743 Broadway, Oakland.

Painting—W. H. Pollard, 522 Grand Ave., Oakland.

Sheet Metal—Charles Moll, 174 Cambridge Ave., San Leandro.

Furnace—Golden Gate Sheet Metal Works, 1422 14th Ave., Oakland.

Additional Sub-Contracts Awarded.

RESIDENCE Cost, \$—
BERKELEY, Alameda Co., Cal. Euclid Ave. near Acaela St.

Two-story frame and stucco residence (6 rooms); Spanish style, tile and composition roof, gas heating system, hardwood floors, etc.

Owner—E. A. Edgar.

Architect—Not Given.

Contractor—Geo. Windsor, 928 Kingston Ave., Piedmont.

Tile—Superior Tile & Products Co., 3743 Broadway, Oakland.

Heating and Sheet Metal—M. C. Henry, 1183 53rd St., Oakland.

Roofing—M & S Tile Co., Decoto.

Canvas Decks—Kronke-Brampton, Co., 2212 San Pablo Ave., Oakland.

Low Bidder.
RESIDENCE Cost, \$10,000

PALO ALTO, Santa Clara Co., Cal. Southwood Drive.

Two-story and basement frame and stucco residence (tile roof, gas hot air heating system, hardwood floors, tiled baths, etc.)

Owner—L. S. Gurley.

Architect—Birge M. Clark, 310 University Ave., Palo Alto.

Low Bidder—Orton & Tunberg, 218 Cowper St., Palo Alto.

Contract Awarded.

ALTERATIONS Cost, \$4000
SAN FRANCISCO. No. 3032 Pierce Street.

Alterations to frame residence.

Owner—Miss M. Renn, 1595 Treat Ave., San Francisco.

Architect—Not Given.

Contractor—Masarie & Cuneo, 2550 19th St., San Francisco.

To Be Done By Day's Work.

RESIDENCES Cost, \$5000 each
SAN FRANCISCO. W Twenty-ninth Ave. N Judah St.

Six one-story and basement frame and stucco residences.

Owner and Builder—H. Doelger, 320 Judah St., San Francisco.

Plans by Owner.

Sub-Contracts Awarded.

RESIDENCE Cost, \$6500
BAYWOOD PARK, San Mateo Co.

Two-story frame and stucco residence (8 rooms and 2 baths), shingle roof, gas hot air heating system, tiled baths, hardwood floors, etc.

Owner—Roy Clifford, 14 Ninth Ave., San Mateo.

Architect—E. L. Norberg, 407 Occidental Ave., Burlingame.

Contractor—Lengfeld & Olund, 220 Third Ave., San Mateo.

Lumber—Wisnom Lumber Co., San Mateo.

Mill Work—Pacific Mfg. Co., Santa Clara.

Sheet Metal—G. & M. Sheet Metal Works, San Mateo.

To Be Done By Day's Work.

RESIDENCES Cost, \$5000 each
SAN FRANCISCO. W Twentieth Ave 67 N Ocean Ave.

Nine one-story and basement frame and stucco residence (5 rooms each).

Owner and Builder—A. J. Herzig, 635 Victoria St., San Francisco.

Plans by Owner.

Sub-Contracts Awarded.

RESIDENCE Cost, \$—
SAN FRANCISCO. Forest Hill.

Two-story and basement frame and stucco residence (8 rooms and 3 baths) tile roof, warm air heating system, tiled baths and kitchen, interior stucco and canvas hardwood floors, etc.

Owner—L. R. Jackson, St., San Francisco.

Architect—Harold Stoner, 810 Ulloa St., San Francisco.

Contractor — Ed. Zinkand, 667 36th Ave., San Francisco.
 Lumber—Loop Lumber Co., Central Basin.
 Mill Work — Herring & Nutting, 750 Florida St., San Francisco.
 Brick Work—William Heidenreich, 129 Shotwell St., San Francisco.
 Glass—W. P. Fuller & Co., 301 Mission St., San Francisco.
 Stairs — J. Di Cristina & Son, 3150 15th St., San Francisco.
 Electric—M. Schimetschek, 526 Hayes St., San Francisco.
 Electric Fixtures—Feldman Co., 1234 Folsom St., San Francisco.
 Shades—D. N. & E. Walter Co., 562 Mission St., San Francisco.
 Plastering—E. Janz.
 Painting — White & Anderson, 1155 York St., San Francisco.
 Hardwood Floors—Western Hardwood Floor Co., 21 Capistrano St., San Francisco.
 Sheet Metal, Flues and Furnace—Atlas Heating Co., 557 4th St., San Francisco.
 Ornamental Iron — Industrial Ornamental Iron Works, 552 Noe St., San Francisco.

Sub-Contracts Awarded.

RESIDENCE Cost, \$9000
 SAN ANSELMO, Marin Co., Calif.
 Two-story and basement frame and stucco residence (7 rooms).
 Owner—Fred Motzer, San Francisco.
 Architect—Alfred H. Jaehne, 2528 25th Ave., San Francisco.
 Contractor—Siemer and Kendall, 109 Tunsted Ave., San Anselmo.
 Excavation—Johnson & Nelson, San Anselmo.
 Mill Work—Hogan Mill & Lumber Co., Oakland.
 Lumber—Henry Hess, San Rafael.
 Electric—Gus Hyams, San Rafael.
 Plumbing—Art Justis, Fairfax.
 Sheet Metal & Heating—Knoles Sheet Metal Works, San Anselmo.
 Roofing — Marin County Roofing Co., Larkspur.
 Tile—Marin Tile Co., Larkspur.
 Swimming Tanks—John Carcano, San Rafael.
 Concrete—Bottisi Bros., San Rafael.
 Painting—Geo. Gregory, San Anselmo.
 Floors—Acme Floor Co., 1051 Mission St., San Francisco.

Sub-Contracts Awarded.

RESIDENCE Cost, \$9933
 LOS ALTOS, Santa Clara Co., Cal.
 Manuella Road near Arastradero.
 Two-story frame and stucco residence (7 rooms).
 Owner—J. S. A. Bien, 209 Post Street, San Francisco.
 Private Plans.
 Contractor—Wells P. Goodenough, 310 University Ave., Palo Alto.
 Masonry—Walker Bros., Palo Alto.
 Mill Work—Progress Lumber Co., Palo Alto.
 Wiring—Coast Electric Co.
 Glass—Acme Glass Co., Palo Alto.
 Ornamental Iron — H. Bleihler, Palo Alto.
 Painting—A. Malgren, Palo Alto.
 Plumbing—H. P. Hansen, Palo Alto.
 Plastering—Ira Bridges, Palo Alto.
 Ornamental Tile—Art Tile & Mantel Co., 221 Oak St., San Francisco.
 Hardwood Floors—A. Backlund, 311 Emerson St., Palo Alto.
 Steel Sash—Soule Steel Co., 1750 Army St., San Francisco.
 Screens—Arthur Metal Products Co., 511 Harrison St., San Francisco.
 Sheet Metal—Christensen & Andersen Palo Alto.
 Roofing and Hot Coating, Etc.—C. L. Frost, Palo Alto.
 Heating—Stanford Sheet Metal Wks., Palo Alto.
 Lumber—Merner Lumber Co., Palo Alto.

Contract Awarded.
 RESIDENCE Cost, \$5278
 SAN MATEO PARK, San Mateo Co.
 One-story and basement frame and stucco residence.
 Owner — Miss K. H. Crowley, San Mateo.
 Architect—Will H. Toepke, 74 New Montgomery St., San Francisco.
 Contractor—Clarence E. Fowler, 829 Edgenhl Drive, Burlingame.

Contract Awarded.
 LOS BANOS, Merced Co., Cal. Hughes Addition.
 One-story frame and stucco residence
 Owner—Tony Toscano.
 Architect—Not Given.
 Contractor—D. Falasco, Los Banos.

Contract Awarded.
 RESIDENCE Cost, \$2600
 SAN RAFAEL, Marin Co., Cal.
 One-story frame residence.
 Owner—Elios Castellani, San Rafael.
 Architect—Not Given.
 Contractor—Jens Strangland, San Rafael.

Sub-Contracts Awarded.

RESIDENCE Cost, \$—
 OAKLAND, Alameda Co., Cal. 130 Brookdale Drive.
 Two-story frame and stucco residence (6 rooms); sheet metal. tile work, etc.
 Owner—Not Given.
 Architect—Dale F. Thompson, 186 Lincoln Ave., Palo Alto.
 Contractor—S. Hufschmidt & Whalen, 461 Lee St., Oakland.
 Lumber & Millwork—Sunset Lumber Co., 400 High St., Oakland.
 Plumbing — A. Rouse, 978 Apgar St., Oakland.
 Plastering—Albert T. Farrer, 520 W. Merle Court, San Leandro.
 Electric — James W. Anderson, 2421 23rd Ave., Oakland.
 Electric Fixtures — Voorhees & Maschio, 4121 Broadway, Oakland.
 Concrete—Alchrose Building Materials Co., 4501 Tidewater Ave., Oakland
 Sheet Metal — M. C. Henry, 1183 53rd St., Oakland.
 Tile — Brockhurst Tile Co., 2819 Shattuck Ave., Berkeley.
 Hardware — Maxwell Hardware Co., 1320 Washington St., Oakland.

Plans Being Figured—Bids Close Aug. 1.

RESIDENCE Cost, \$8500
 PIEDMONT, Alameda Co., Cal. Wildwood Gardens.
 Two-story and basement frame and stucco residence (8 rooms) Spanish type, tile roof, gas hot air heating system, hardwood floors, wood sash, etc.
 Owner—B. F. Lindgren.
 Architect—Miller & Warnecke, Financial Center Bldg., Oakland.

Low Bidder.
 RESIDENCE Cost, \$7500
 PIEDMONT, Alameda Co., Cal. Piedmont Pines.
 Two-story and basement frame and stucco residence (Model Home); wood shake roof, (hot air heating system, etc.
 Owner—Brenner Furniture Co., 21st & Broadway, Oakland.
 Architect—Miller & Warnecke, Financial Center Bldg., Oakland.
 Low Bidder — C. W. Leekins, 1652 Hopkins St., Oakland.

Prospective Bidders.
 RESIDENCE Cost, \$8500
 PIEDMONT, Alameda Co., Cal. Wildwood Gardens.
 Two-story and basement frame and stucco residence (8 rooms) Spanish type, tile roof, gas hot air heating system, hardwood floors, wood sash, etc.
 Owner—B. F. Lindgren.

Architect—Miller & Warnecke, Financial Center Bldg., Oakland.
 Following will submit bids. Bids open August 1:
 S. J. Bertelsen, 30 Estrella Ave., Piedmont.
 Walter H. Anderson, 1014 Doris Court, Alameda.
 J. R. Armstrong, 1131 Fleet Road, Oakland.
 Benjamin F. Woolley, 5621 Thorn Road, Oakland.
 Theodore H. Lapham, 546 Kenmore Ave., Oakland.
 Alfred Olson, 631 Viona Ave., Oakland.
 John J. Moore Co., 354 Hobart St., Oakland.
 Fred J. Westlund, 625 40th St., Oakland.

15—SCHOOLS

HANFORD, Kings Co., Cal.—Until August 14, 8 P. M., bids will be received by M. W. Bartholomew, Clerk of the Hanford Joint Union High School District, for a new roof and flashing on the gymnasium building on the grounds of the high school. Roofing material to be Johns-Manville hexagonal shingles with asphalt strip. Certified check for 10% of amount bid required with bid.

SANTA ROSA, Sonoma Co., Cal.—Until August 4, 8 P. M., bids will be received by George N. Bech, Secretary, Santa Rosa District Junior College, for material for fencing the Athletic Field of the Santa Rosa Junior College. Plans and specifications available from above office upon deposit of \$16.

To Seek Federal Aid.
 LIBRARY Cost, \$350,000
 EUGENE, Oregon. State University
 New library building.
 Owner—State of Oregon.
 Architect—Lawrence, Holford & Allyn, Failing Bldg., Portland.
 (2213)

July 21, 1933

To Seek Federal Aid.
 INFIRMARY Cost, \$100,000
 EUGENE, Oregon. State University.
 New infirmary building.
 Owner—State of Oregon.
 Architect—Lawrence & Holford & Allyn, Failing Bldg., Portland.

SAN LUIS OBISPO, Cal.—Until August 8, 7:30 P. M., bids will be received by C. L. Smith, clerk, San Luis Obispo High School District, to construct cement concrete curb, gutter and sidewalk on Ida St. Specifications obtainable from above office and from Burch & Beck, San Luis Obispo. Certified check 5% required with bid.

Plans Being Prepared.
 GYMNASIUM
 SANTA ROSA, Sonoma Co., Calif.
 Frame and brick veneer gymnasium (250x150) seating capacity of 2200 (separate gymnasium for men and women, swimming tank, etc.)
 Owner—Santa Rosa Junior College District (Floyd Bailey, dean) Santa Rosa.
 Architect—Wm. Herbert, Rosenberg Bldg., Santa Rosa.

PORTERVILLE, Tulare Co., Cal.—R. Hodgson & Son, Porterville, at \$1221 awarded contract for carpentry work and Fred W. Stone, Porterville, at \$86.35 awarded contract for plumbing work by Porterville Union School District for the construction of a new toilet and shower room, etc., at the Porterville High School. Plans prepared by Architect W. D. Coates Jr., 626 Rowell Bldg., Fresno.

Plans Being Figured—Blds Close July 31, 3 P. M.

ADDITION Cost, \$—
ALVISO, Santa Clara Co., Cal.
 Addition to school.
 Owner—Alviso School District (Mrs. Elsie Madruga, Principal).
 Architect—Not Given.

Bids Wanted—To Close August 4, 8 P. M.

HEATING PLANT Cost, \$7000
KING CITY, Monterey Co., Cal.
 Steam heating plant for grammar school.
 Owner—King City Union Grammar School District (J. A. Carlson, Chairman).
 Engineer—George E. Atkins, Hobart Bldg., San Francisco.

Bids are being received by J. D. Carlson, King City. Plans and specifications available from George E. Atkins, Hobart Bldg., San Francisco, upon deposit of \$5.

COMPTON, Los Angeles Co., Cal.—
 Contracting Engineers, Inc., 2310 W. Vernon Ave., Los Angeles, will be awarded contract for boys' gymnasium buildings, and Wm. J. Shirley, 1724 S. Vermont Ave., Los Angeles, will be awarded contract for rebuilding shop at the Compton Junior College site in Compton for the Compton Union High School District. The major part of the work will consist of the complete reconstruction of the outer walls of the four structures, using wood frame and stucco. Plans by Architects John C. Austin and Frederic H. Ashley, 608 Chamber of Commerce Bldg., Los Angeles.

Prospective Bidders.
REPAIR SCHOOL Cost, \$10,500
ALBANY, Alameda Co., Calif. Marin Avenue.

Repairs to grammar school (add auditorium, alter classrooms, frame construction, reinforced concrete walls with steel columns, concrete and steel trusses, addition to steam heating system, maple flooring, composition roof, etc.)
 Owner—Albany City School District.
 Architect—P. L. Dragon and C. R. Schmidts, 3016 Telegraph Avenue, Berkeley.

Following have procured plans. Bids open Aug. 8, 8 P. M.:
 Dinwiddie Const. Co., Crocker Bldg., San Francisco.

Joe Zilla, Albany.
 Ed. Guay Co., Albany.
 W. E. Lyons, 354 Hobart St., Oakland.

N. H. Sjoberg & Son, 250 11th St., San Francisco.
 Alfred Olsen, 631 Viona St., Oakland.

Geo. Petersen, 1841 Bancroft Ave., San Leandro.
 C. M. Norgrove, 2220 Roosevelt St., Berkeley.

Walter Sorensen, 2940 Piedmont Ave., Berkeley.
 Geo. Swanstrom, 1723 Webster St., Oakland.

LOS ANGELES, Cal.—The Los Angeles board of education plans to rebuild and recondition the following school plants as soon as a survey of needed repairs can be made by state and school board engineers: Manual Arts high school 4131 S Vermont Ave.; George Washington high school, 10,-860 S Denker St.; Thomas A. Edison junior high, 6500 Hooper Ave., and Huntington Park high school, 6020 Miles Ave., Huntington Park. The architectural division of the board has been commissioned to prepare plans for the erection of a new administration building on the Huntington Park high school site.

PORTERVILLE, Tulare Co., Cal.—
 Until Aug. 8, 4 P. M., bids will be re-

ceived by E. M. Hammond, Clerk of the Elementary School District, Porterville, for painting the Morton Street school house and for painting the Roche Avenue Street school house, and for the installation of a furnace at the Morton Street school house. Plans and specifications available at 420 Main St., Porterville, and at the office of Architect W. D. Coates Jr., 626 Rowell Bldg., Fresno.

EUREKA, Humboldt Co., Cal.—
 Eureka Boiler Works, Eureka, at \$2856 awarded contract for the installation and erection of three steel heating boilers in the Franklin, Jefferson and Marshall Schools in Eureka.

HEATING
HEATING PLANT Cost, \$—
HUGHSON, Stanislaus Co., Cal.
 New heating plant for elementary school (oil or gas furnace).
 Owner—Hughson Elementary School District.
 Architect—Not Given.

SAN FRANCISCO—Dunn Roofing Co.; 3597 Mission St., at \$700 submitted low bid to department of Public Works for covering roof at the Bret Harte School with Pabco shingles. Following bids received:
 Dunn Roofing Co. \$700
 Jack Johnson 709
 Alta Roofing Co. 719
 United Roofing Co. 763
 J. W. Bender Co. 807
 Bids held under advisement.

SAN FRANCISCO—Anderson & Ringrose, 320 Market St., at \$8192 awarded contract by Department of Public Works for repairing fire damage to the Fremont School.

Bids Opened.
MECHANICAL WORK Cost, \$—
ALBANY, Alameda Co., Cal. Ramona and Garfield Streets.

Furnishing and installing mechanical work for Herbert Hoover Junior High School.
 Owner—Albany High School District.
 Architect—P. L. Dragon and C. R. Schmidts, 3006 Telegraph Avenue, Berkeley.

Low Bidder—Hunter & Herb, 1645 Hopkins St., Berkeley.

Following bids received:
 (1) used equipment in boiler room:
 Hunter & Herb, Berkeley \$1641

(1) —
 Scott Co., Oakland \$1671
 (1) 1180

Pacific Heating & Ventilating Co., Oakland \$1725
 (1) 1540

George C. Bell, Oakland \$1739
 (1) 1520
 Fearey & oll, Oakland \$1947
 (1) 1778

W. H. Picard, Oakland \$1965
 (1) 1675

Bids held under advisement for a few days.

16—BANKS, STORES AND OFFICES

Contract Awarded.
ALTERATIONS Cost, \$5000
ALAMEDA, Alameda Co., Cal. Park St. and Santa Clara Avenue.
 Alterations to one-story frame store building
 Owner—E. M. Shaw.
 Architect—H. A. Minton, 525 Market St., San Francisco.
 Contractor—Leslie E. Alley, 1621 Encinal Ave., Alameda.

Contract Awarded.
STORE Cost, \$4000
SAN FRANCISCO, NW Irving St. and Fortieth Avenue.
 One-story frame store building.
 Owner—J. A. Cadden, 648 Cole St., San Francisco.

Plans by Robinson & Johnston.
 Contractor—Robinson & Johnston, 871 31st Ave., San Francisco.

Reinforcing Steel Contract Awarded.
STOIBE Cost, Price, \$4231
SAN FRANCISCO, Chestnut Street N Malloreu Way.

One-story reinforced concrete store (25x70 feet); tar and gravel roof, concrete floors, etc.

Owner—Martin Stelling, 155 Montgomery St., San Francisco.
 Architect—Bertz, Winter & Maury, 681 Market St., San Francisco.

Contractor—Young & Horstmeier, 481 Market St., San Francisco.
Reinforcing Steel—Soule Steel Co., 1750 Army St., San Francisco.

July 22, 1933
 Glass Contract Awarded.

ALTERATIONS Cost, \$5000
OAKLAND, Alameda Co., Cal. North 7th St. bet. Market and Myrtle.
 Alterations to building.

Owner—Firemen Fund Insurance Co., San Francisco.
 Architect—W. E. Huson, 1723 Webster St., Oakland.

Contractor—Lindgren and Swinerton, Inc., 1723 Webster St., Oakland.
Glass—W. P. Fuller & Co., 259 Tenth St., Oakland.

Other awards reported July 11.

Contract Awarded.
ALTERATIONS Cost, \$50,000
SACRAMENTO, Sacramento Co., Cal. NW Eleventh and K Streets.

Alterations to four-story Class B and C building for dept. store (80x60 ft.) redecorating, etc.

Owner—Bon Marche, 7th and K Sts., Sacramento (Mitchel W. and E. C. Nathan).
 Architect—George C. Sellon, California State Life Bldg., Sacramento.

Contractor—Campbell Const. Co., 800 R St., Sacramento.

Sub-Contracts Awarded.
STORE Cost, \$5450
SAN FRANCISCO, SE Oakdale and Mendel Streets.

One-story Class C concrete store.
 Owner—Albert Traverso.
 Architect—Irvine and Ebbets (R. R. Irvine, architect) 2048 Market St.

Contractor—San Francisco Const. Co., 3159 Fillmore Street.
Concrete—Paramount Concrete Co., 375 Wheeler Street.

Lumber—Roth-Maier, 2800 Third St.
Plumbing—M. Desiano, 3117 Fillmore.
Roofing—Knight Roofing Co., 91 Bluxome Street.

Electric—Atlas Electric Co. 343 4th St.
Glass—W. P. Fuller & Co., 301 Mission Street.

Structural Steel—Schrader Iron W'ks, 1247 Harrison Street.

Plans Being Figured.
BANK Cost, \$—
COMPTON, Los Angeles Co., Cal. No. 224 E. Compton Blvd.

Reinforced concrete bank building (30 by 95 ft.) composition roof, granite exterior trim, plate glass, steel sash, ornamental iron, marble, acoustical plaster, etc.

Owner—Compton National Bank.
 Architect—H. L. Gogerty, Oil Exposition Bldg., Compton.

Contract Awarded.
REMODEL RESTAURANT \$—
SAN FRANCISCO, Market, Powell and Eddy Streets.

Remodel and redecorate restaurant (ventilating system, etc.)
 Owner—Stotes-Hof Brau (Mr. Hirsch in charge).

Plans by Herman Struck.
Carpentry—L. M. Coggins, 1120 Oak St., San Francisco.

Decorating—Herman Struck, 191 Ralston St., and Premises.

Turlock, Stanislaus Co., Cal.—Fire destroyed the mercantile store owned by Osborn & Son located at East Main and Center streets, July 22. Damage estimated at \$100,000.

Sub-Contracts Awarded.
REMODEL BLDG. Cost, \$15,000
OAKLAND, Alameda Co., Cal. No. 475 Fourteenth Street.
 Remodel exterior of building.
 Owner—Mrs. Lillian D. Powers.
 Architect—Reed & Corlett, Bank of America Bldg., Oakland.
 Contractor—Geo. Swanstrom, 1615 78th Ave., Oakland.
Structural Steel—Moore Drydock Co., Foot of Adeline St., Oakland.
Brick—W. H. Wisneropp, 3749 Quigley St., Oakland.
Steel Sash and Glass—East Bay Glass Co., 421 Sixth St., Oakland.
Ornamental Iron Works—C. Fraumender, 235 8th St., Oakland.
Tile—Rigney Tile Co., 3012 Harrison St., Oakland.
Plumbing—Scott Co., 113 Tenth St., Oakland.
Plastering—Chas. Burnett, 865 32nd St., Oakland.

Contract Awarded.
OFFICE Cost, \$2000
SANTA CLARA, Santa Clara Co., Cal. One-story frame and stucco office building (shingle roof, plaster exterior, Oregon pine floors, etc.)
 Owner—Santa Clara Pear Association.
 Architect—W. E. Higgins, 19 N-Secund St., San Jose.
 Contractor—John F. C. Kay, Sunnyvale.

Segregated Bids Being Taken.
ALTERATIONS Cost, \$15,000
SAN FRANCISCO, Montgomery and Bush Streets.
 Remodel ground floor of Mills Building for brokerage office (30 foot frontage); partitions, floor covering, wiring, painting, stock boards etc.
 Owner—McKinley Bissinger and Jesse Lillenthal.
 Architect—S. Helman, 605 Market St., San Francisco.

Additional Sub-Contracts Awarded.
RESTAURANT Cost, \$—
BERKELEY, Alameda Co., Cal. Telegraph Avenue near Sather Gate 45x73 feet).
 Two-story and basement Class C brick restaurant and store.
 Owner—The Black Sheep.
 Architect—W. R. Yelland, Financial Center Bldg., Oakland.
 Contractor—H. K. Henderson, 20 Avis Road, Oakland.
Glass—W. P. Fuller & Co., 589 10th St., Oakland.
Hardware—Associated Hardware Co., Inc., 3860 San Pablo Ave., Oakland
Iron Work—The Berkeley Craftsman, 2905 Shattuck Ave., Berkeley.
Plastering—Giachetto & Marietti, 1209 Derby St., Berkeley.
Roofing—General Roofing Co., 3985 Beach St., Oakland.
 Other awards reported July 11, 1933

Additional Sub-Contracts Awarded.
STORE Cost, \$—
OAKLAND, Alameda Co., Cal. NE Foothill Blvd. and Coolidge Ave. (100x124 feet).
 One-story brick and tile store (Mission style of architecture).
 Owner—Edwin A. Roller.
 Architect—Not Given.
 Lessee—Hagstrom's Food Stores, 10,626 E-14th St., Oakland.
 Contractor—C. E. Atkinson, 3125 61st Ave., Oakland.
Painting—Charles Darlington, 2047 E-23rd St., Oakland.
Roofing—City Cornice Co., 3119 San Pablo Ave., Oakland.
 Other awards reported July 11.

Commissioned to Prepare Plans.
LIBRARY AND AUDITORIUM Cost, \$65,000
LOS ANGELES, Los Angeles Co., Cal. NW Westlake Ave. and Wilshire Blvd.
 Two and one-half-story reinforced concrete library and auditorium building.
 Owner—Los Angeles County Medical Assn. (Dr. Harry Wilson, Secretary).
 Architect—Gordon B. Kaufmann, Union Bank Bldg., Los Angeles.

SAN FRANCISCO—Square Deal Floor Co., 2223 Broderick St., at \$69 submitted low bid to Department of Public Works for refinishing floors in the Superintendent's office at the San Francisco Hospital. Following bids received:
 Square Deal Floor Co. \$ 69.00
 Regal Floor Co. 87.50
 Oak Floor Co. 125.00
 National Lacquer Co. 138.00
 M. E. Vukicevich 139.00
 Inland Floor Co. 144.00
 Continental Cav-na-var 180.00
 Bids held under advisement.
 Contract Awarded.
ALTERATIONS Cost, \$2197
SAN FRANCISCO, SW Turk and Polk Streets.
 Alterations to salesroom (two-story concrete structure).
 Owner—A. West, % Contractor.
 Architect—Not Given.
 Contractor—Young & Horstmeyer, 461 Market St., San Francisco.

Plans Being Prepared.
MARKET Cost, \$—
BERKELEY, Alameda Co., Calif. Solano and Colusa Avenues.
 One-story reinforced concrete market.
 Owner—Romie & Gage.
 Engineer—H. C. Britt, 366 17th Street, Oakland.
 Lessee—Henslee Corp., 366 17th Street, Oakland.

Plans To Be Prepared.
ADDITION Cost, \$25,000
SAN JOSE, Santa Clara Co., Calif. Naglee Avenue.
 Addition to building.
 Owner—Rosierucian Order, 1342 Naglee Ave., San Jose.
 Architect—Not Selected.
 Further details will be announced at a later date.

Sub-Contracts Awarded.
STORE Cost, \$50,000
SAN FRANCISCO, No. 1041 Market Street.
 Seven-story Class C steel and concrete store.
 Owner—Weinstein Co. (Isidor Weinstein, President), 1041 Market St., San Francisco.
 Architect—Hyman & Appleton, 68 Post St., San Francisco.
 Engineer—H. Rosenthal, 821 Market St., San Francisco.
 Contractor—Jacks & Irvine, Call Bldg., San Francisco.
Mill Work—National Mill & Lumber Co., 230 California St., S. F.
Roofing—Alta Roofing Co., 976 Indiana St., San Francisco.
 As previously reported, plastering awarded to Peter Bradley, 639 Brannan St., S. F.; marble to Jos. Musto Sons-Keenan Co., 535 North Point St.

17—THEATRES

Sub-Contracts Awarded.
THEATRE Cost, \$—
LINDSAY, Tulare Co., Cal.
 Rebuild theatre (raise brick wall 12 ft. and concrete, wood trusses, composition roof, etc., new stage, balcony and projection room, seating capacity of 800).
 Owner—Drunswick Amusement Co.
 Architect—J. Lloyd Conrlich, 214 9th Ave., San Francisco.

Contractor—Salih Bros., 25 Taylor St., San Francisco.
Lumber and Cement—Spaulding Lumber Co., Lindsay.
Reinforcing Steel—Soule Steel, 1750 Army St., San Francisco.
 Electrical bids are now being taken
 Planned.
ALTER THEATRE Cost, \$—
MONTEREY, Monterey Co., Cal.
 Remodel theatre.
 Owner—Golden State Theatre Corp.
 Architect—Not Selected.
 Proposed work is in a very preliminary stage.

18—WHARVES & DOCKS

PETALUMA, Sonoma Co., Calif.—City Engineer S. Gonzalez preparing plans for repair of municipal wharf, estimated cost \$2000. Funds will be appropriated from Municipal Waterfront Improvement Fund.
SANDY HOOK PARK, Kitsap Co., Wash.—Manson Const. & Engr. Co., Seattle, awarded contract by Universal Securities Corp. to construct dock for landing of Seattle-Poulsbo boats.

19—MISC. CONSTRUCTION

LOS ANGELES, Cal.—Los Angeles County announces list of engineering projects for federal funds under the National Industrial Recovery Act, estimated total \$26,837,700, divided as follows:
 Road projects \$4,897,000
 Flood control 11,830,000
 Sewer and storm drain 10,084,700
 Survey control system 25,000

SAN FRANCISCO—Until Aug. 1, 3 P. M., under Circular Proposal No. 34-1, bids will be received by U. S. Engineer Office, 401 Custom House, to repair U. S. Motor Boat "H. L. Demeritt." Specifications are obtainable from above office.

SAN FRANCISCO—Until Aug. 2, 3 P. M., under Circular Proposal No. 34-2, bids will be received by U. S. Engineer Office, 401 Custom House, to overhaul two Hall-Scott 4-cylinder, 4-cycle, 50-70-hp. Marine engines for U. S. Motor Boat "H. L. Demeritt." Specifications obtainable from above office.

July 24, 1933

Contract Awarded.
FOUNDATIONS & TANK Cost, \$1200
STOCKTON, San Joaquin Co., Calif. 701 W Weber Avenue.
 Foundation and tank.
 Owner—Taylor Miller Co., Tuleburgh Levee and Edison, Stockton.
 Architect—Not Given.
 Contractor—J. F. Shepherd, 108 East Miner St., Stockton.

RIVERSIDE, Riverside Co., Calif.—Pacific System Homes, 5800 S Boyle Ave., Vernon, submitted only bid to the Metropolitan Water District at \$16,592.47, for constructing cottages and garages at the power substations of the District, located near Desert Center and Granite Mountain, Riverside County, and Earp, San Bernardino County. Work will consist of erecting complete two 3-room frame cottages, one 2-room frame cottage, and two 2-car garages at two of the three sites mentioned; and one three-room frame cottage, one 2-room frame cottage and one 2-car garage at the third site, together with appurtenant water supplies, sewers and grading. Unit bids follow: (1) five 3-room cottages, \$9870.80; (2) three 2-room cottages, \$2589.85; (3) five garages, \$1,002.55; (4) three sewer and water supply systems, \$3129.27.

HOQUIAM, Wash.—Until Friday, August 4, bids will be received by the Superintendent, Taholah Indian Agency, Hoquiam, Wash., for one 80-foot, galvanized steel lookout tower.

SAN FRANCISCO—Standard Asbestos Co., 741 Folsom St., at \$46 submitted low bid to Department of Public Works for insulating hot water tank in Room 68, City Hall. Following bids received:

Standard Asbestos Co.....\$46.00
Western Asbestos Magnesia Co. 50.50
Asbestos Co. of California..... 51.75
Bids held under advisement.

20—MISC. SUPPLIES AND MATERIALS

BERKELEY, Alameda Co., Calif.—Richfield Oil Co. at \$.83 per barrel awarded contract by Berkeley Board of Education for furnishing fuel oil for the Berkeley High School District.

OAKLAND, Cal.—San Pablo Lumber Co., Tenth and Ohio, Richmond, at \$2949.32 awarded contract by East Bay Municipal Utility District, Oakland, to furnish 102,000 ft. b.m. redwood.

James L. Hall, Oakland, at \$2947.23 awarded contract to furnish 73,000 ft. b.m. Douglas fir, creosoted.
Complete bids published July 15.

OAKLAND, Cal.—Until Aug. 4, 5:30 P. M., under Bid No. 486, bids will be received by John H. Kimball, Secretary, East Bay Municipal Utility District, 512 16th St., Oakland, to furnish 30 tons copper sulphate. Specifications obtainable from above.

ALBUQUERQUE, N. M.—Colorado Fuel & Iron Co., P. O. Box 1920, Denver, Colo., awarded contract by the Middle Rio Grande Conservancy District, at approx. \$40,000 for 1,700,000 lbs. steel for use in the construction of the El Vado Dam. Chas. P. Seeger is the chief engineer of the district in charge of construction.

BREMERTON, Wash.—Until Aug. 4, 10 A. M., D. S. T., under Req. No. 59 NSA, bids will be received by Supply Officer, Puget Sound Navy Yard, to furnish 4800 ft. wire rope, phosphor-bronze, 6x19, regular lay, 600 ft. coils, 7/16-in. dia. Delivery Aug. 24 f.o.b. above or f.o.b. carrier at or near contractor's works.

LOS ANGELES, Cal.—Crucible Steel Co., 405 Lexington Ave., New York, awarded contract by the Metropolitan Water District July 21 at \$59,918.40 for furnishing hollow drill steel under Spec. No. 45.

McNEIL ISLAND, Wash.—Until August 8, 2 P. M., bids will be received by the warden at the U. S. penitentiary for materials for roof covering for the storehouse, auditorium and isolation buildings at McNeil Island. Bid prices are required on rigid asbestos shingles, slates, eastern burned clay tile and Pacific coast clay tile. Specifications may be obtained from Finch R. Archer, warden.

ALBUQUERQUE, N. M.—Six identical bids for supplying 35,000 barrels of portland cement for delivery at points between Socorro and Domingo were submitted to the Middle Rio Grande Conservancy District. The bids ranged from \$3.18 to \$3.23 depending on delivery point, using paper sacks, and from \$3.45 to \$3.48, using cloth sacks. The bidders were: Universal-Atlas Cement Co., Kansas City, Mo.; Colorado Portland Cement Co., Denver; Lehigh Portland Cement Co., Kansas City; Monarch Cement Co., Humboldt, Kan.; Monolith Port-

land Cement Co., Denver, and Southwestern Portland Cement Co., El Paso.

Three bids were also submitted to the district for supplying 12,000 bbls. cement for use in the construction of the El Vado dam. They were:

Colorado Portland Cement Co., Denver, bid \$3.52 per bbl. with paper sacks and \$3.77 with cloth sacks, delivered at Chama; \$2.25 with paper sacks and \$2.50 with cloth sacks, delivered at Portland, Colo.

Lehigh Portland Cement Co., Kansas City, Mo., bid \$3.66 with paper sacks and \$3.91 with cloth sacks, delivered at Chama.

Monolith Portland-Midwest Co. Denver, bid \$3.42 with paper sacks and \$3.67 with cloth sacks, delivered at Chama.

The bids have been taken under advisement.

SAN FRANCISCO—Until August 4, 3 P. M., under Bid No. 1054, bids will be received by T. A. Brooks, City Purchasing Agent, to furnish 17,000 tons Grout Sand for Hetch Hetchy Project. Specifications obtainable from above office.

SAN FRANCISCO—Until August 4, 3 P. M., under Bid No. 1055, bids will be received by T. A. Brooks, City Purchasing Agent, to furnish rubber and cotton fire hose for various City Departments. Specifications obtainable from above office.

LOS ANGELES, Calif.—Until 11 A. M., August 2, bids will be received by A. J. Holm, Los Angeles City Purchasing Agent, 107 City Hall, to furnish and deliver to Water and Power Department f.o.b. locations shown below, structural grade reinforcing steel and brick annealed tie wire under Spec. No. 3173. The items are as follows:

I (a) furnish and deliver 36,591 bars (approx. 741 tons) 5/8-in. square deformed reinf. steel, struc. grade, 30 ft. long, as follows:

6,280 bars f.o.b. cars, Victorville;
8,760 bars f.o.b. cars, Yermo;
11,361 bars f.o.b. cars, Silver Lake;
10,190 bars f.o.b. cars, Roach, Nev.
(b) furnish and deliver 17,920 bars (approx. 45.6 tons) 1/2-in. round do;
3,072 bars f.o.b. cars, Victorville;
4,288 bars f.o.b. cars, Yermo;
5,568 bars f.o.b. cars, Silver Lake;
4,992 bars f.o.b. cars, Roach, Nev.

I Alt. furnish and deliver entire quantity of reinf. steel under Item I, as follows:

(a) 36,591 bars (approx. 741 tons) 5/8-in. square deformed reinf. steel, struc. grade, 30 ft. long f.o.b. cars at bidder's shipping point;
(b) 17,920 bars (approx. 45.6 tons), 1/2-in. round do;

II furnish and deliver approx. 5500 lbs. No. 16 black annealed tie wire in 16-in. coils of approx. 100 lbs. net weight each f.o.b. Dept.'s warehouse 1630 N Main St., Los Angeles;

III furnish and deliver deformed reinforced steel as follows:

(a) 2304 bars (approx. 65 tons) 3/4-in. square deformed reinf. steel, struct. grade, 30 ft. long f.o.b. stored at bidder's shipping point;
(b) 11,980 bars (approx. 242 tons) 5/8-in. do;
III (c) 5865 bars (approx. 15 tons) 1/2-in do;

IV furnish storage facilities for reinforcing steel under Item III and load same on cars at bidder's shipping point, to make available for shipment as and when notified by the Department, as follows:

(a) furnish storage facilities at bidder's shipping point, for a price of, per ton per month;
(b) load reinf. steel on cars at bidder's shipping point, for a loading charge of, per ton.

The above materials constitute part connection with its construction of the Boulder Canyon Power Transmission Line, and will be used in construction of reinforced concrete footings for the transmission towers.

SACRAMENTO, Cal.—Until Aug. 4, 3 P. M., under Order No. 5654/Sac. 153, bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, to furnish:

(1) 4000 lin. ft. (100) Douglas fir piles, 40-ft. long;
(2) 4500 lin. ft. (100) do, 45 ft. long;
(3) 2500 lin. ft. (50) do, 50 ft. long;
(4) 2800 lin. ft. (40) do, 70 ft. long.

Specifications obtainable from above Delivery f.o.b. Sacramento or at plant of bidder.

OAKLAND, Alameda Co., Cal.—Until July 31, 12 Noon, bids will be received by Architects Kent & Haas, 525 Market St., San Francisco, for sheet metal office partitions and ceilings, including steel sash, glass, steel counters, wainscoting, hand rail, etc., in connection with the construction of the new boat and train concourses for the Key Terminal Railway Company, Ltd., at the Key Pier, Oakland. (1451(1st report May 11; 9th July

SAN FRANCISCO—Swayne & Hoyt, 215 Market St., San Francisco, taking bids to close August 31, for the construction of a 7450-ton passenger and freight steamer for the Gulf Pacific Mail Line, Ltd. Steamer will be 421 ft. long over all; 59 ft. beam; 24 ft. 2 1/2 in. draft; 13 knots speed; powered by geared steam turbine, 4000 hp. at 85 R.P.M.

MARCH FIELD, Riverside, Calif.—Ingle Mfg. Co., San Diego, awarded contract at \$184 each for furnishing 22 steel portable ranges for March Field.

LOS ANGELES, Cal.—Until 11 A. M., August 9, bids will be received by A. J. Holm, City Purchasing Agent, 107 City Hall, to furnish and deliver to Water & Power Department f.o.b. bidder's shipping point overhead ground wire under Specifications No. 3175. The items are:

(1) 2,435,000 ft. 1/2-in. extra galv. high strength steel wire strand;
(2) 2,435,000 ft. 1/2-in. do;
(3) 430,000 ft. copper covered steel wire strand.

The above ground wires are intended to be used on department's power transmission lines extending from Boulder Canyon Dam power house to Los Angeles, a distance of 270 miles. Deliveries of the items are to be made as follows:

Item No. (1) from March 1 to June 1, 1934.
Item No. (2) June 1 to Sept. 1, 1934
Item No. (3) Sept. 1 to Dec. 1, 1934.

LOS ANGELES, Calif.—Until 11 A. M., August 7, bids will be received by A. J. Holm, city purchasing agent, 107 City Hall, to furnish and deliver to Water and Power Department f.o.b. bidder's shipping point hot rolled black copper rod under Spec. No. 3124, as follows:

(1) 560,000 lbs. rod, deliveries to commence March 1, to June 1, 1934;
(2) 560,000 lbs. rod, June 1 to Sept. 1, 1934;
(3) 100,000 lbs. rod, Sept. 1 to Dec. 1, 1934.

Above materials are to be used as buried ground wires for department's transmission line extending from Boulder Canyon Dam power plant to Los Angeles, a distance of 270 miles.

ENGINEERING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

21.—Bridges	30.—Reservoirs and Dams
22.—Dredging, Harbor Works, Excava. Irrigation Proj.	31.—Pipe Lines and Wells
23.—St. Light. Systems	32.—Sewers & Sewage Disposal Plants
24.—Machinery and Equipment	33.—Water Works
25.—Railroads	34.—Parks & Playgrounds
26.—Fire Alarm Sys.	35.—Tunnels
27.—Fire Equipment	
28.—Streets & Highways	

21—BRIDGES

SAN FRANCISCO—Following sub-contracts awarded by Clinton Constr. Co., 923 Folsom St., in connection with their contract for tunnel, Yerba Buena Island, San Francisco-Oakland Bay Bridge:

Excavation—Piombo Bros., 1571 Turk St., San Francisco.
Reinforcing Steel—Pacific Coast Steel Co., 20th and Illinois Sts., S. F.
Lumber—Coos Bay Lumber Co., Bal-four Bldg., San Francisco, and Foot of Ninth St., Oakland.
Electrical Work—Victor Lemoge, 281 Natoma St., San Francisco.
Material Disposal—Daniel Contracting Co., 503 Market St., S. F.
Tunnel Construction Work—T. E. Connolly, 461 Market St., S. F.

SAN FRANCISCO—Pacific Coast Steel Co., 20th and Illinois, awarded sub-contract by Bridge Builders, Inc., 155 Sansome St., and Parr Terminal Wharf, Oakland, to furnish reinforcing steel in connection with substructure, East Bay Crossing, San Francisco-Oakland Bay Bridge.

SAN FRANCISCO—Pacific Coast Steel Co., 20th and Illinois, awarded sub-contract by Transbay Const. Co., Pier 24, to furnish reinforcing steel in connection with substructure, West Bay Crossing, San Francisco-Oakland Bay Bridge.

SAN FRANCISCO—Columbia Steel Co., Russ Bldg., awarded sub-contract by Healy-Tibblitts Const. Co., 64 Pine St., to furnish I-bars and anchorage steel in connection with contract for San Francisco Anchorage, San Francisco-Oakland Bay Bridge.

SAN FRANCISCO—Columbia Steel Co., Russ Bldg., awarded sub-contract by Clinton Const. Co., 923 Folsom St., in connection with their contract for tunnel, Yerba Buena Island, for the San Francisco-Oakland Bay Bridge, to furnish I-bars and anchorage steel.

SAN FRANCISCO—Diamond Drilling Co., 1035 Harrison St., awarded sub-contract for diamond drilling by Healy-Tibblitts Construction Co., 64 Pine St., in connection with San Francisco anchorage, San Francisco-Oakland Bay Bridge.

SAN JOSE, Santa Clara Co., Cal.—Until Aug. 7, 11 A. M., bids will be received by Henry A. Pfister, County Clerk, to widen reinforced concrete culvert on Montague Road at San Jose-Alviso Road, Supervisor's District No. 3. Specifications obtainable from county surveyor, Robert Chandler, on payments of \$1.

SAN JOSE, Santa Clara Co., Cal.—Until Aug. 7, 11 A. M., bids will be received by Henry A. Pfister, County Clerk, to construct three reinforced concrete culverts on Columbet Ave., between Church and Masten Aves., Supervisor's District No. 1. Lump sum bids will be received. Specifications obtainable from county surveyor Robert Chandler, on payment of \$1.

SAN FRANCISCO—Concrete Products Sales Co., 1522 Latham Square Bldg., Oakland, have received purchase order from Clinton Construction Co., 293 Folsom St., to furnish manufactured concrete in connection with their contract for Yerba Buena Tunnel and construction, San Francisco-Oakland Bay Bridge.

LOS ANGELES, Calif.—Until 2 P. M., August 14, bids will be received by county board of supervisors for constructing a reinforced concrete bridge on Alameda St. over Compton Creek. The proposed bridge will consist of two spans, 30 ft. each, with a 50 ft. roadway and with creosoted piling foundation. The work will probably be done by contract. The engineer's estimate of quantities follows: 435 cu. yds. Class B concrete; 199 cu. yds. Class A concrete; 3,100 lin. ft. wood pile; 3,514 lbs. rocker and bearing plates; 39,446 lbs. reinforcing steel; 40 pieces tile; 131 lin. ft. hand rail, 2,213 cu. yds. excavation; 8 4x8x18-in., 16 gauge galv. drain; 14,996 sq. ft. form area; 392 sq. ft. expansion material.

W. D. Armstrong, county bridge engineer. Mame B. Beatty, 501 Hall of Records, clerk of the board.

SANTA CRUZ, Santa Cruz Co., Cal.—County supervisors list following projects for federal aid under the National Industrial Recovery Act: Bridge across mouth of Soquel creek at Capitola; Bridge at Felton; Valencia Bridge; Bear Creek Bridge; Thompson Gulch Bridge; Felton Depot Bridge; Laurel Glen Canyon Bridge; Ocean View Bridge.

Estimated cost for the first two projects is \$90,000; no cost given on other projects.

MONROVIA, Los Angeles Co., Cal.—Garth H. Duell, city engineer, has prepared preliminary plans to construct a pedestrian subway at Foothill Blvd. and Myrtle Ave. It will be of reinforced concrete construction 75 feet long, 6 feet wide, pump and

galvanized iron hand rail. Estimated cost, \$10,000.

MONROVIA, Los Angeles Co., Cal.—Garth H. Duell, city engineer, has prepared preliminary plans to construct a pedestrian subway at Huntington Blvd. and Myrtle Ave. Will be of reinforced concrete construction 80 feet long and 6 feet wide, pump and galvanized iron hand rail. Estimated cost, \$12,000.

22—DREDGING, HARBOR WORKS, EXCAVATION

SACRAMENTO, Calif.—U. S. Engineer Office, California Fruit Bldg., Sacramento, will call bids shortly to dredge 2780,000 cu. yds. from Sacramento River at Horseshoe Cut.

LOS ANGELES, Cal.—Los Angeles Harbor Commission this week recommended to Mayor Frank I. Shaw that funds be provided for a general port development program involving an expenditure of approximately \$18,900,000. According to the recommendations the projects would be financed by requesting a loan under provisions of the Industrial Recovery Act, by proceeds from a bond issue, or by a combination of a Federal loan and city bond issue. In addition to the city improvement program, the harbor commission recommended Federal port works to cost \$8,000,000 and suggested additional Federal work to cost \$7,000,000. The projects in detail follow:

Tentative Port Works Development Program

New marine passenger and cargo terminal, \$1,500,000.

Dredging of slips for deep draft vessels, \$196,000.

Extension of municipal terminal trackage facilities, \$250,000.

Extension of general cargo marine terminal at Berth 180, \$550,000.

Construction of general and naval landing facilities at Fifth St., \$125,000.

Acquisition of waterfront main channel properties on San Pedro side of channel, \$1,500,000.

Extension of rail facilities to proposed naval base, \$145,000.

Construction of Fish Harbor rock jetty entrance protection works, \$170,000.

Construction of fishermen's wharves, Fish Harbor extension project, \$127,000.

Miscellaneous facilities for betterment of commerce, \$437,000.

In addition to the foregoing port works, the report states, it is imperative that the Southern Pacific bridge and trestle across the entrance to West Basin be removed and that, in place thereof, provision be made for handling rail traffic as proposed hereunder; Item A (preferably) or Item B.

(A) Construction of single tube under entrance to West Basin for rail traffic, \$7,900,000.

(B) Acquisition of a right-of-way and construction of double track loop around West Basin, crossing southwest arm, \$1,650,000.

(Alternate A) Construction of twin tube under entrance to West Basin for both vehicular and rail traffic, \$10,700,000.

Other public works of importance to the port include:

(C) Construction of a vehicular tube between San Pedro and Terminal Island, \$6,000,000.

Recommended Federal Port Works

CAPITAL CITY TITLE COMPANY

J. C. PALEN,
Manager

914 Seventh Street
Sacramento :: California

(1) Completion of Los Angeles Harbor breakwater extension, \$6,000,000.

(2) Dredging of miscellaneous fairways and general anchorage sites, \$2,000,000.

Additional Federal Work to which Board may wish to give consideration

Development of naval base in Los Angeles, \$7,000,000.

PORT ALLEN, T. H.—Bids will be called shortly by U. S. Engineer Office, Honolulu, to dredge 743,500 cu. yds. from Port Allen, T. H.

SAN FRANCISCO—Until Aug. 23, 3 P. M., under Circular Proposal No. 34-3, bids will be received by U. S. Engineer Office, 401 Custom House, San Francisco, to dredge 6750 cu. yds. material in the channel at the mouth of Noyo River, near Fort Bragg, Calif. Specifications obtainable from above office.

SACRAMENTO, Cal.—Until Aug. 3, 3 P. M., under Circular Proposal No. 34-4, Specifications No. 5651, bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, to furnish 1000 tons rip-rap stone for wing dams. Specifications obtainable from above office.

REDWOOD CITY, San Mateo Co., Calif.—Tentative sketches are being prepared by James S. James, county surveyor, in connection with the Redwood Harbor District. An estimate of cost has not yet been made.

SAN MARINO, Los Angeles Co., Cal.—James R. Mathews, 920 S Broadway, Pasadena, awarded subcontract for grading and excavating the site of a residence to be built at 1420 Park Place, San Marino, for Mr. Maxwell. Eric Barclay is the general contractor.

24—ST. LIGHT. SYSTEMS

SAN FRANCISCO—Severin Electric Co., 172 Clara St., at \$13,959 submitted low bid to Department of Public Works July 26 to erect lighting system in Alemany Blvd., Section B and C, Mission to San Jose, involving 96 ornamental iron standards and appurtenances to be erected, assembled and hauled (furnished by the city). Complete bids follow:

Severin Electric Co.....	\$13,989
H. S. Tittle.....	14,186
Victor Lemoge.....	14,311
H. C. Reid.....	14,337
Dowd-Seid Electric Co.....	14,412
Lynn & Heffernan.....	14,492
Radelfinger Bros.....	14,692
Alta Elec. & Mech. Co.....	14,700
R. Flatland.....	14,843
City Imp. Co., Berkeley.....	14,958
Eureka Electric Radio Co.....	15,800
Weidental-Gosliner Co.....	16,075

Bids held under advisement.

25—MACHINERY AND EQUIPMENT

OAKLAND, Calif.—Howard Automobile Co., 2735 Broadway, Oakland, at \$1200 awarded contract by city council to furnish one 2-passenger coupe for the Fire Department.

SAN FRANCISCO—Farnsworth El. Co., 549 Mission St., at \$53.40 awarded contract by the Department of Public Works for repairs to motor at Islais Creek. Following bids received:

Farnsworth Electric Co.....	\$53.40
Weidental-Gosliner Co.....	53.40
Enterprise Electric Works.....	55.40
Alta Electric Company.....	90.00

LOS ANGELES, Cal.—Until 11 A. M., August 2, bids will be received by A. J. Horn, City Purchasing Agent, 107 City Hall, for furnishing and delivering to Water & Power Dept., f.o. b. warehouse, 1630 N. Main St., meters and current transformers under Specifications No 3174. The estimated requirements are as follows:

- (1) 34 current transformers, ratio 5 amps., primary to 0.1 amps., secondary;
- (2) 3 A. C. ammeters, scale 0 to 5 amps;
- (3) 39 A. C. ammeters, scale 0 to 200 amps;
- (4) 3 A. C. ammeters, scale 0 to 500 amps;
- (5) 3 A. C. ammeters, scale 0 to 300 amps;
- (6) 30 A. C. voltmeters, scale 0 to 150 volts;
- (7) 4 A. C. voltmeters, scale 0 to 45,000 volts;
- (8) 6 A. C. ground detector voltmeters, 0-150 volts with blank scales;
- (9) 1 A. C. polyphase wattmeter, scale 0 to 40 K.W.;
- (10) 12 A. C. polyphase wattmeters, scale 0 to 1600 K. W.;
- (11) 1 A. C. polyphase wattmeter, scale 0 to 4000 K. W.;
- (12) 1 A. C. polyphase wattmeter, scale 0 to 2400 K. W.;
- (13) 1 A. C. polyphase reactive volt-ampere meter, scale 0 to 4000 kva.;
- (14) 1 A. C. polyphase reactive volt-ampere meter, scale 0 to 2400 kva.;
- (15) 1 D. C. ammeter with shunt, scale 0 to 15 amps.;
- (16) 1 D. C., ammeter with shunt scale 15-0-200 amps.;
- (17) 2 D. C. voltmeters, with scale 0 to 150 volts.

ALTERNATE REQUIREMENTS

Same as above items except for items 6, 24 of the voltmeters under this item will have a suppressed scale of 90 to 140 volts and the remaining 6 voltmeters will have a scale of 5 to 150 volts.

The bids will be taken as follows:

- (1) Furnishing items 1 to 17 inclusive, above, lump sum. (Alt. 1) for furnishing items 1 to 17 inclusive, above, with alternative equipment furnished under item 6 as noted, lump sum.

MADERA, Cal.—Until 8 P. M., Aug. 7, bids will be received by the Madera Union High School District for a new three-ton chassis and a 48-passenger school bus body. Separate bids shall be submitted on the chassis and on the body. C. M. Petty, Clerk.

OAKLAND, Alameda Co., Cal.—Following bids received by City Council for furnishing one 2-passenger coupe for the Fire Department and three coupes for the Electrical Department.

Fire Department

Pacific Nash Motor Co., 3063 E-14th St., Oakland, \$1200.
Howard Automobile Co., 2735 Broadway, Oakland, \$1200.

Electrical Department

Chevrolet Motor Co., Foothill Blvd., and 69th St., Oakland, \$498.95.
Ford Motor Co., \$537.21.
J. E. French Co., \$574.

Bids held under advisement.

EUREKA, Humboldt Co., Cal.—F. H. Lundblade, Eureka, received order for \$12,000 worth of trucking equipment from Humboldt Malt & Brewing Co., including two 6-cylinder tractor-type G. M. trucks and six semi-trailers, dual pneumatic tire equipped.

LOS ANGELES, Cal.—H. L. Smith, representing the American Liquid Gas Co., 322 Transamerica Bldg., Los Angeles, awarded contract by Metropoli-

tan Water District, July 21 at (1a) \$1170; time 15 days and (1b) 6.75c gal., for constructing liquid gas plant and for furnishing liquefied petroleum gas for Division No. 3, headquarters, in accordance with Spec. No. 48

DALY CITY, San Mateo Co., Cal.—Scott Machinery Co., 960 Folsom St., San Francisco, at \$591 (less allowance for old machinery) awarded contract by Jefferson Union High School, Daly City, to furnish one pump and motor. Complete bids follow:

Scott Machinery Co., S. F.....	\$591
Simonds Machinery Co., S. F.....	445
Kimball-Krogh Pump Co., S. F.....	585
Baldwin & Butler, Berkeley.....	597
Woodin & Little, S. F.....	648
DeLaval Steam Eng. Co., S. F.....	763

26—RAILROADS

ALASKA—The Secretary of the Interior has approved an allocation of \$210,008 for reconditioning the Alaska railroad system.

28—FIRE EQUIPMENT

SANTA BARBARA, Calif.—County forestry department has been authorized by the county supervisors to purchase a new fire truck, equipped with water tanks, pumps, hose lines, etc., at cost of \$1100.

30—RESERVOIRS & DAMS

LOS ANGELES, Cal.—E. C. Eaton, County Flood Control Engineer, advised by the county counsel that the right of way for the Eaton Canyon Dam cannot be obtained with amount of money available for this project at the present time. The price of the easement was reported to be \$291,000, according to the offer submitted prior to the opening of the bids. Adding the cost of valves, superintendence, and contingencies to the cost as shown by the bids there would be left less than \$100,000 with which to effect the purchase. The project will probably be abandoned. Mitty Bros. Construction Co. was the lowest bidder July 10 at \$224,382.

PASADENA, Cal.—Ted Ducey, 687 S Broadway, Pasadena, awarded contract by the Alta San Rafael Co. for the excavation and pouring of concrete in connection with the construction of a straight gravity dam across the Arroyo between Holly St. and the Colorado St. bridges. The dam will be 11 ft. high and 165 ft. in length along the crest. The work involves about 2200 cu. yds. excavation and 1,200 cu. yds. concrete. Work has started. Allin Bros., Kendall Bldg., Pasadena, engineers. Other contracts awarded are: Form lumber to Hayward Lbr. & Inv. Co.; sand, rock and cement to Blue Diamond Corp. Ltd.; and pumping equipment to Fairbanks, Morse & Co. 30

SEATTLE, Wash.—U. S. Government Engineers (War Dept.) select Bonneville, Cre., as site for first of a series of power dams on the lower Columbia river. Dam will have 430,000-kw. capacity, 550,000-hp.; estimated cost, including navigation locks \$43,900,000.

31—PIPE LINES & WELLS

PASADENA, Los Angeles Co., Cal.—Until 11 A. M., August 15, bids will be received by city directors to construct 18.5 mi. conduit, consisting of 36-in. I. D. gravity pipe line of 24.7 cu. ft. per second or 16,000,000 gals. per diem, from the Pine Canyon Dam, in San Gabriel Canyon to the Sunset

Reservoir in Pasadena. Plans and specifications obtainable from Water Department, City Hall, for \$5 per copy. Samuel B. Morris, Chief Engineer.

MOUNTAIN VIEW, Cal.—Leitch Pump & Supply Co., 575 W. San Carlos St., San Jose, at \$988 awarded contract by city council to drill 10-in. well, 400 ft. deep and furnish and install a casing. Complete bids follow:

Leitch Pump & Supply Co.....\$ 988.00
Cleve Grainger, San Jose..... 997.50
San Jose Well & Pump Co..... 1200.00
E. J. Matlocks, San Jose..... 1254.00
Robt. P. Garcia, Palo Alto..... 1700.00

HANFORD, Kings Co., Calif.—The Gas Fuel Service Co. has been granted a certificate by the railroad commission to install a natural gas service for agricultural districts in Fresno and Kings counties. The company plans to expend \$680,861 in building transmission and distribution lines from wells of the Kettleman Lake-view Gas and Oil Co. in the Dudley Ridge Area of Kings county throughout the territory to be served. Gas engines on time payments are to be provided by the National Supply Co.

SEATTLE Wash.—Angelo Scarsella, 947 26th Ave., at \$90,822 (centrifugal pipe) and \$92,460 (Hi-tensile pipe) submitted low bid to Board of Public Works to construct Denny Way Pipe line. Complete bids follow:

(A) sand cast;
(B) centrifugal cast;
(C) Hi-tensile.
Angelo Scarsella (h) \$90,822; (c) \$92,460.
Queen City Constr. Co. (a) \$99,582; (h) \$95,872; (c) \$94,560.
L. Coluccio & Co. (b) \$103,753.
Maeri & Steffenson (b) \$106,223; (c) \$104,642.

Mocerri Bros. (a) \$109,585; (b) \$106,829; (c) \$102,586.

Bids held under advisement.

32—SEWERS & SEWAGE DISPOSAL PLANTS

CAPITOLA, Santa Cruz Co., Cal.—Geo. C. DeGolyer, Federal Telegraph Bldg., Oakland, at \$19,628.25 awarded contract by county supervisors to construct outfall sewer system.

Complete bids published June 1.

PALO ALTO, Santa Clara Co., Cal.—Bids held under further advisement until August 7, 4 P. M., by Board of Public Works, to furnish sedimentation tank and sludge pump in connection with the new sewage disposal system.

LOS ANGELES, Calif.—J. E. Rockbold, County Surveyor, has completed plans for sanitary sewers to be constructed in Lennox Units Nos. 2 and 3. Application has been made for federal funds with which to construct these sewers. The quantities follow:

LENNOX UNIT NO. 2

22,900 ft. 8-in. cement pipe main sewer line;
1,950 ft. 10-in. do;
1,050 ft. 12-in. do;
870 ft. 12-in. cement pipe main sewer line with stand. conc. cradle;
13,150 ft. 6-in. cement pipe house connections;
18 flushing manholes equipped with gesner tank valves;
3 double flushing manholes do;
47 manholes;
19 junction chambers;
750 galv. iron pipe extension to water main.

LENNOX UNIT NO. 3

57,560 ft. 8-in. vit. clay pipe main line sewer;
335 ft. 8-in. do with stand. concrete cradle;
10 ft. 8-in. vit. clay pipe main line sewer encased;
37 ft. 8-in. vit. clay pipe lateral sewer
23,130 ft. 6-in. vit. clay pipe house connections;
27 flushing manholes equipped with gesner tank valves;
11 double do;
127 manholes;
4 drop manholes;
8 junction chambers;
226 ft. ¾-in. red brass pipe extensions to water mains;
8 break into existing struc. and form new channels in base.

HALFMOON BAY, Cal.—Half Moon Bay vote's approved formation of sanitary district, to be approved by county supervisors July 24. Plans being prepared to install a \$20,000 sewer system, financed by a bond issue and with aid from the National Industrial Recovery Act. Geo. Knesse, Redwood City, Engineer on the project.

BURBANK, Los Angeles Co., Cal.—H. I. Stites, city engineer, is preparing plans for the Valley Interceptor Sewer System for which the city has asked \$110,000 from the Federal government under the Federal Public Works program. The projects still in a preliminary state, much field work being yet to be done. The approximate quantities of pipe are:

15,500 ft. 10-in. vitrified clay;	
17,500 ft. 12-in. do;	
3,700 ft. 14-in. do;	
9,800 ft. 15-in. do;	
6,000 ft. 18-in. do;	
4,900 ft. 20-in. do;	
3,000 ft. 24-in. do.	

The city engineering department is also working on preliminary plans for a sewer to be built in San Fernando Blvd., to be connected with the Los Angeles city outfall, under an agreement to be signed with the City of Los Angeles. This line will involve: 8500 ft. 12-in. pipe.

Plans are also under way for the Providencia Ave. storm drain, involving: 3000 ft. 60-in. concrete pipe.

PALO ALTO, Santa Clara Co., Cal.—Bids to have been opened July 24 at 4 P. M., by the Board of Public Works, have been held over until July 26 or 27, 4 P. M., and will be opened at that time. Bids are to furnish vitrified salt-glazed sewer pipe as follows in connection with new sewage disposal system:

- (1) 2300 ft. 27-in.;
- (2) 850 ft. 20-in.;
- (3) 3880 ft. 15-in.;
- (4) 780 ft. 14-in.;
- (5) 1500 ft. 12-in.;
- (6) 490 ft. 10-in.;
- (7) "Y" branches for above.
- (8) 4600 ft. 22-in. wood stave pipe.

Specifications obtainable from J. F. Bixbee Jr., City Engineer.

July 26, 1933

PORTLAND, Ore.—City Council receives consulting engineer's report on proposed sewage disposal plant, estimated cost \$7,800,000.

GLENDALE, Los Angeles Co., Cal.—J. C. Albers, city engineer, preparing plans to construct a storm drain in Glendale Ave. from Doran to Sycamore Canyon, involving:

16,110 cu. yds. excavation;	
10,604 ft. reinf. concrete pipe (standard and heavy wall);	
catchbasins, paving, walk.	

Estimated cost \$75,048.44.

GLENDALE, Los Angeles Co., Cal.—J. C. Albers, city engineer, preparing plans to construct a storm drain in Flower St. from Allen Avenue to Paula Ave., involving:

1770 sq. ft. 39-in. reinf. conc. pipe;	
1545 sq. ft. 54-in. do;	
1159 sq. ft. 60-in. do;	

Estimated cost, \$50,000.

LOS ANGELES, Cal.—Shamahan Bros., inc., 6181 Eastern Ave., submitted low bid to Board of Public Works, July 19 at \$53,965 for the construction of a reinforced concrete clarifier and a reinforced concrete digester at the Terminal Island Sewage Treatment Plant, in accordance with plans of the Dorr Co., Inc. Col. H. G. Smith, Chief Engineer of Sanitary Sewer Design, 705 City Hall. The proposed work will involve the construction of a reinforced concrete clarifier 85 ft. in diameter, and a reinforced concrete digester 75 ft. in diameter, and the installation of clarifier and sludge pump, with iron railing, etc. The work includes the construction of the structures and the furnishing and installing all machinery as furnished by The Dorr Co. The cost of the machinery and equipment to contractor will be \$21,197.

GLENDALE, Los Angeles Co., Cal.—J. C. Albers, city engineer, preparing plans for extension of South St. storm drain from Pacific to Campbell, involving:

6,400 cu. yds. excavation;	
256 lin. ft. reinf. conc. boxed section 2x4-ft. 3½-in.;	
4,654 ft. reinf. concrete pipe;	
49 catchbasins;	
8 manholes;	
1 junction chamber;	
14,200 sq. ft. 6-in. resurfacing;	
1,723 ft. 8-in. vit. clay sewer pipe;	
8 manholes, house connections;	
26 house connections;	
800 cu. yds. excavation;	
2,600 sq. ft. resurfacing.	

Estimated cost, \$50,000.

VENTURA, Ventura Co., Calif.—D. C. McMillan, city engineer, preparing preliminary plans for a vitrified pipe lateral sewer system to be built in the Ventura Beach Tract, estimated to cost \$100,000. Application for federal funds will be made but the project will have to be financed to 30% by a cash city appropriation.

33—WATER WORKS

SIGNAL HILL, Los Angeles Co., Cal.—Until 3 P. M., Aug. 14 (tentative date) bids will be received by the city council to furnish 10,000 ft. of 6-in. 8-in. and 16-in. cast iron pipe for the city water department. The pipe shall be Class 150, bell and spigot, delivered f.o.b. city yards. Specifications are being completed by W. V. Thompson, water superintendent, City Hall, 2120 Cherry Ave., Signal Hill.

SIGNAL HILL, Los Angeles Co., Cal.—Until 3 P. M., Aug. 14 (tentative date) bids will be received by the city council to clean and paint two 10,000 gallon steel water tanks.

NOGALES, Ariz.—A tentative proposal has been submitted to the city water committee by the Public Utilities Consolidated Corp. in which the power company proposes to energize the city's water pumping plant and deliver water to the city at a stipulated cost per thousand gallons. The power company proposed to build a power line to the water pumping plant at its own expense and to install a new \$5000 electrically driven pump. The city according to the power company's proposal, is to advance \$2,000 to apply on the new electric pump.

which is returnable to the city during the three-year period. The company is to retain title to all equipment which is installed. The power company proposes to operate the city water pumping plant in its entirety, delivering the water to a master meter.

SIGNAL HILL, Los Angeles Co., Cal.—W. V. Thompson, Water Superintendent, has announced that the call for bids for constructing a reinforced concrete tank on Signal Hill (previously set for Aug. 14) has been withdrawn. The right of way has not been fully acquired. The new call for bids may be issued in about 2 weeks.

HAYWARD, Alameda Co., Calif.—American Cast Iron Pipe Co., Balboa Bldg., San Francisco, at \$2240 awarded contract by city council to furnish 4000 lin. ft. 6-in. b&s centrifugal cast iron pipe, Class 150, 16- to 18-foot lengths. Complete bids follow:
 American C. I. Pipe Co. \$56
 Pacific States C. I. Pipe Co. .57
 U. S. Pipe & Foundry Co. .5725
 Utilities Supply Co. .626

SOUTH GATE, Los Angeles Co., Cal.—Purchase of the Magnolia Park Water Co. by the city of South Gate is being urged by a group of Magnolia Park residents. Petitions will be circulated after Aug. 23. Guy Nevill, city engineer, recently estimated the cost of acquisition of this system and laying of new water mains at \$97,000.

NEVADA CITY, Nevada Co., Cal.—C. S. Arbogast, Nevada City, awarded contract by city council to dig 2900 ft. trench for new steel pipe, Canada Hill Reservoir Line.

MANHATTAN BEACH, Los Angeles Co., Cal.—Southwest Welding and Mfg. Co., 3201 W Mission St., Alhambra, submitted lowest regular bid to city council July 20 at \$248 for sand blasting, welding seams, and painting of city water tank located on Sepulveda Blvd. The bid of Jess and Woodward at \$2320 was not signed. The bids were taken under advisement until August 3.

COLTON, San Bernardino Co., Cal.—The city council and the chamber of commerce are formulating plans for improvements to the city water distribution system to be financed under the National Industrial Recovery Act. The cost is estimated at \$100,000. The proposed work involves:

- Drilling of two new wells.
 - Constructing a 3,000,000-gal. reservoir.
 - Laying of new transmission mains.
- C. A. Hutchinson, city engineer. C. H. Maxwell, water superintendent.

HUNTINGTON BEACH, Los Angeles Co., Cal.—Bids for furnishing and installing a deep well pressure system for the Huntington Beach Union High School District were opened by the board of trustees July 24. The bids were taken under advisement until July 27. The items bid on were:

- (1) removal of equipment;
 - (2) 20-hp. pump;
 - (3) capacity test;
 - (4) 25-hp. pump.
- The bids were:
 Kimball-Krogh Pump Co., (1) \$380
 (2) \$1348 (3) \$195 (4) \$1382.
 Submersible Pump Co., (1) \$361 (2) \$1368 (3) \$195 (4) no bid.
 Fairbanks-Morse & Co., (1) \$380 (2) \$1348 (3) \$195 (4) no bid.
 Byron-Jackson Co., (1) \$380 (2) \$1,348 (3) \$195 (4) \$1381.
 Pacific Pump Co., (1) \$380 (2) \$1,-

- 381 (3) \$195 (4) no bid.
- Wintroath Pumps, Ltd., (1) \$380 (2) \$1349 (3) \$195 (4) add \$33.
- Peerless Pump Co., (1) \$380 (2) \$1,381 (3) \$195 (4) no bid.
- Layne & Bowler Corp., (1) 380 (2) \$1348 (3) \$195 (4) no bid.
- Pomona Pump Co., (1) \$380 (2) \$1,348 (3) \$195 (4) no bid.
- Johnson Pump Co., (1) \$380 (2) \$1,348 (3) \$195 (4) no bid.

The Submersible Pump Co. submitted a bid on the tanks as follows: furnishing and installing: 5000-gal., \$1,897, 7500-gal., \$2087, 10,000-gal. \$2260.

State Steel Products Co. submitted a bid for furnishing tanks without installation.

SIGNAL HILL, Los Angeles Co., Cal.—Until 3 P. M., August 14, bids will be received by city council to furnish Class 150 cast iron pipe and Class D fittings, as follows:
 10,875 ft. 6-in. C. I. pipe;
 4,700 ft. 12-in. C. I. pipe;
 825 ft. 16-in. C. I. pipe;
 gate valves;
 15 fire hydrants;
 plugs, tees, crosses, reducers, bends.
 W. V. Thompson, water superintendent. Geo. H. Cooper, city clerk.

SIGNAL HILL, Los Angeles Co., Cal.—Until 3 P. M., August 14, bids will be received by city council to construct reinforced concrete water tank on the top of Signal Hill in accordance with plans and specifications No. W-20, obtainable from W. V. Vernon, water superintendent, City Hall, 2120 Cherry Ave., on and after July 27, upon payment of \$2 per set. Copies may also be obtained from the office of the city clerk. The proposed tank will be 20 ft. in diameter, 40 ft. high and will have a capacity of 94,000 gals. The quantities are:
 190 cu. yds. concrete;
 89 cu. yds. earth to be removed;
 5245 lbs. reinf. steel;
 330 sq. yds. plaster;
 60 manhole steps;
 1 sidewalk cover;
 15 ft. 1 1/4-in. pipe hand rail;
 55 ft. 1/2-in. conduit.

Bids will be taken on a lump sum basis. Certified check or bank draft or corporate surety bond, 10%. Geo. H. Cooper, city clerk.

35—TUNNELS

LOS ANGELES, Cal.—Until 11 A. M., Aug. 28, bids will be received by the Metropolitan Water District, 206 W Third St., Los Angeles, for constructing the East Eagle Mountain Tunnel and appurtenant works of the Colorado River Aqueduct. This tunnel is located in the Eagle Mountains about 43 miles easterly from Indio, in Riverside County. The work consists of the excavating and lining of a 16-ft. diameter water supply tunnel, approximately 1.79 miles in length. Certified or cashier's check, \$50,000. Plans and specifications may be obtained from the district office, Room 1007, 306 W Third St., Los Angeles, upon payment of \$5 per set, not returnable. Julian Hinds, acting chief engineer. J. L. Burkholder, assistant general manager. The bidding schedule follows:

- Construction of East Eagle Mountain tunnel and appurtenant works, between Sta. 5879 plus 31 and Sta. 5973 plus 91. Tunnel length, 9460 feet.
- (1) tunnel access works (lump sum);
- (2) no item 2 in these specifications;
- (3) 103,900 cu. yds. excav. in tunnel;
- (4) 50 cu. yds. excav. for tunnel enlargement;
- (5) no item 5 in these specifications;
- (6) 27,000 cu. yds. conc. in tunnel;
- (7) 200 M. ft. b.m. furnish and place permanent timbers in tunnel;

- (8) 10 tons erect steel support in tunnel;
- (9) 100 cu. yds. granite coating of rock in tunnel;
- (10) 40 conn. for grouting;
- (11) 50 cu. yds. mix and place grout;
- (12) 50,000 lbs. place reinf. steel;
- (13) 10,000 cu. yd. ml. overhaul of concrete aggregates;
- (14) 160 ton miles hauling steel.
- (15) 305,000 ton miles hauling cement.

LOS ANGELES, Cal.—Until 2 P. M., August 7, bids will be received by County Board of Supervisors for constructing a water system involving 4-in., 6-in., 8-in. and 10-in. C. I. pipe in the Pomona Fair Grounds. The proposed line will hook up the city of Pomona main water line and to the present well supplying the fair grounds. Bids will be received as follows:

- (A) Main distributing system connected to well recently acquired and to the Pomona main line, not including sprinkler systems;
 - (B) sprinkling system at the south-east end of the fair grounds;
 - (C) sprinkling system at easterly end of fair grounds.
- Total estimate, \$24,045.

29—STREETS AND HIGHWAYS

JUNEAU, Alaska.—Alfred Dishaw, Juneau, at \$14,495 submitted low bid to and recommended for award of contract by U. S. Bureau of Public Roads, Juneau, to surface 3.788 miles of Glacier Highway, Lemon Creek-Duck Creek Section, Tongass National Forest, First Judicial Division, involving:

- (1) 6500 cu. yds. crushed rock top course.
- Complete bids follow:
 Alfred Dishaw, Juneau, \$2.23; \$14,495
 Siems Spokane Co., \$2.43; \$15,795.
 Wright and Stock, Inc., Aberdeen, \$2.44; \$15,860.
 R. J. Sommers Const. Co., Juneau, \$2.45; \$15,925.
 Ed Christensen & Co., Juneau, \$2.70 \$17,550.
 Engineer's estimate, \$2.25; \$14,625.

GLENDALE, Los Angeles Co., Cal.—J. C. Albers, city engineer, preparing plans for resurfacing a portion of Canada Blvd. The work will involve 501,522 sq. ft. of 2-in. pavement and is estimated to cost \$44,133.94.

GLENDALE, Los Angeles Co., Cal. J. C. Albers, city engineer, preparing plans to improve Verdugo Road from south city limits to Glendale Avenue with paving, curbs, etc., involving: 29,460 sq. ft. 2-in. resurfacing; 95,550 sq. ft. 6-in. pavement; curb, level courses.
 Estimated cost, \$53,795.98.

VENTURA, Cal.—D. C. McMillan, City Engineer, preparing preliminary plans to widen Meta St. improvement for a length of about 8340 ft. The improvement consists of widening the pavement 8 ft. on each side of Meta St. and Gardner St., and 16 ft. on each side on Main St. The work involves: 187,000 sq. ft. 6-in. cement concrete. Ornamental lighting system (2-light standards, 131 ft. apart, type not selected).

Application for federal funds to finance this job has been filed.

VENTURA, Cal.—D. C. McMillan, City Engineer, preparing plans for street improvements to be financed from California share of the \$400,000,000 federal highway fund. Applications have been filed. The projects are:
 East Main St., between Coronado St. and east city limits, 3500 lin. ft.,

widening 5 ft. on each side and paving widened portion with probably cement concrete, some curb and walk, and ornamental (2-light) lighting system. Cost estimated at \$33,350.

East Main St., between Hemlock and Santa Clara Sts., 1800 lin. ft. involving widening and lowering grade, widening varying from 0 to 10 ft. Involves Warrenite (not definitely selected), new curb and gutter and (2-light) ornamental lighting system. Cost estimated at \$23,850.

Thompson Blvd., between Coronado St. and easterly city limits, 5000 lin. ft., involving widening from 40 ft. to 60 ft. with 6-in. cement concrete, concrete gutter and walk, 2-light ornamental lighting system (type not selected). Cost estimated at \$30,810.

SAN FRANCISCO. — Department of Public Works, S. J. Hester, Chief Deputy Director, plans to improve Tucker Ave. (where not) between Alpha and Rutland, involving:

- (1) 125 ft. armored concrete curb;
- (2) 105 ft. 6-in. V.C.P. side sewer;
- (3) 752 sq. ft. Class E conc. pave.;
- (4) 2595 sq. ft. asph. conc. pave.

Estimated cost, \$1000. J. J. Casey, city engineer.

CALAVERAS CO., Cal.—R. E. McCarty, 603 Eastworth St., Stockton, at \$13,240 awarded contract by State Highway Commission, Sacramento, to surface with untreated gravel or stone 6.5 mi. between the western boundary and Burson.

Complete bids published July 20.

GLENDALE, Los Angeles Co., Cal.—J. C. Albers, city engineer, preparing plans to improve a portion of Victory Blvd. with paving, curbs, etc., involving:

114,000 sq. ft. 4-in. asph. conc. base;

181,800 sq. ft. 2-in. asph. conc. wearing surface;

5,500 sq. ft. wearing surface, variable thickness;

concrete gutter, curb.

Estimated cost, \$34,775.40.

GLENDALE, Los Angeles Co., Cal. J. C. Albers, city engineer, preparing plans to improve Verdugo Road from La Crescenta Ave. to north city limits with paving, curbs, etc., involving:

117,000 sq. ft. 6-in. pavement;

123,135 sq. ft. resurfacing, 2-in. average thickness;

curb, level courses.

MONROVIA, Los Angeles Co., Cal.—Garth H. Duell, city engineer, preparing plans to improve Mayflower Ave. from Huntington Drive to Duarte Road (3400 lin. ft.) with concrete and asphaltic concrete wearing surface, curbs, gutter and storm drain facilities. Estimated cost, \$30,000.

MONROVIA, Los Angeles Co., Cal.—Garth H. Duell, city engineer, preparing plans to improve Fifth Avenue from Huntington Drive to Foothill Blvd. (4000 lin. ft.) with concrete and asphaltic concrete wearing surface, curbs, gutter and storm drain facilities. Estimated cost, \$40,000.

MONROVIA, Los Angeles Co., Cal.—Garth H. Duell, city engineer, preparing plans to improve Foothill Blvd. from Canyon Blvd. to Mountain Ave. 0.6 mile, with concrete and asphaltic concrete wearing surface, curbs, gutter and storm drain facilities. Estimated cost, \$27,000.

COLTON, San Bernardino Co., Cal.—C. A. Hutchinson, City Engineer, is preparing preliminary plans for the widening and improving of I Street through Colton, about 6700 ft. The project will include widening from 80 to 100 ft. and paving 48 ft. between

curbs. The work will involve: 175,000 sq. ft. cem. conc. pavement; Curb, walk, etc.; move street lighting standards; construct small conc. bridge across wash.

LOS ANGELES, Cal.—L. O. Turner, District Engineer, Van Nuys, preparing preliminary plans to pave East roadway of San Fernando road bet. Newhall highway and Foothill Blvd. The proposed improvement will involve three miles. The project will include:

196,000 cu. yds. excavation;

158,400 sq. ft. pave. (type not selected);

drainage structures (\$2000);

structure over spur track (\$10,000).

This project has been included in the city's program presented to the state highway commission for consideration under the federal highway allotments.

CROVILLE, Butte Co., Cal.—Until Aug. 8, 2 P. M., bids will be received by C. F. Belding, county clerk, for maintenance of A and B roads. Specifications obtainable from County Engineer J. A. Baumgarner.

SPECIAL TO DAILY PACIFIC BUILDER
SAN LUIS OBISPO and Monterey Counties, Cal.—L. A. Briscoe, Arroyo Grande, at \$3,382.30 submitted low bid to State Highway Commission, District Engineer, San Luis Obispo, to treat with fuel oil as a dust palliative 14.7 miles existing roadbed between San Carpojo Creek and Willow Creek, involving 2270 barrels of heavy fuel oil.

Complete bids follow:

L. A. Briscoe, Arroyo Grande, \$1.49;

\$3382.30.

Granite Const. Co., Watsonville, \$1.54;

\$3495.80.

Gilmore Oil Co., \$1.79; \$4063.30.

Tiffany Const. Co., San Jose, \$2.14;

\$4857.80.

Western Motors Transfer, Inc., Santa Barbara, \$2.19; \$4971.30.

Bids held under advisement.

SAN MATEO, San Mateo Co., Cal.—Until August 7, 8 P. M., bids will be received by E. W. Foster, city clerk, to repave sewer trench on Poplar Ave. from Delaware St. to San Mateo Dr. Specifications obtainable from above office. Certified check 10% required with bid.

SONOMA COUNTY, Calif.—Asphalt Pavement Planning Co., 1737 Webster St., Oakland, at \$2052.20 (\$.0062 per sq. ft.) submitted low bid to District Engineer, State Highway Commission, San Francisco, for 4.2 miles existing asphalt concrete pavement to be planned between Willow Brook and Haystack, involving 331,000 sq. ft. planning. Only other bid submitted by Standard Road Planning Co., San Luis Obispo, at \$2118.40; \$.0064.

ARIZONA STATE.—Until 2 P. M., Aug. 1, new bids will be received by State Highway Commission, Phoenix, for highway construction on the St. Johns-Springerville Highway, E-60 & E-68-A. The work, which begins at a point about 1½ miles south of St. Johns and extends southeasterly approximately 8½ miles toward Springerville, consists of grading and draining about one-third of a mile of roadway, the placing of subgrade stabilizer and the oil processing of the entire length by the road mix method and is to be completed on or before December 31, 1933. The principal items are:

29,300 cu. yd. rdwy. excav.;

40 cu. yd. borrow excavation;

20,000 sta. yd. earthwork overhaul;

300 hours rolling;

15,000 cu. yd. stripping pits;

26,200 cu. yds. subgrade stabilizer;

74,300 cu. yds. ml. subgrade stabilizer,

haul;

290 M. gals. water;

9,900 cu. yds. mineral aggregate;

25,400 cu. yd. ml. mineral agg., haul;

178,500 gals. asph. road oil (C.I.P.);

8.7 miles mix, lay and finish;

104 tons outback asph. for seal coat

(C.I.P.);

740 cu. yds. screenings (C.I.P.);

770 cu. yds. shoulder material;

2,180 cu. yd. ml. shoulder materials,

haul, and other incidental items.

Cash or certified check 5%. T. S. O'Connell, State Highway Engineer.

The bid of Heafey-Moore Co., at \$108-

162.94 (received July 12) was rejected

as too high.

LOS ANGELES, Cal.—J. J. Jessup, City Engineer, has been authorized to prepare plans for grading Coldwater Canyon, Mulbolland Highway to Eden Court. The grading will involve:

62,000 cu. yds. excavation;

37,000 cu. yds. fill;

7 lines corrugated pipe 15-in. to

24-in. culverts;

770 truck days hire;

The cost is estimated at \$12,450.

RIVERSIDE COUNTY, Calif.—Until August 3, 10 A. M., bids will be received by the U. S. Bureau of Public Roads, 461 Market St., San Francisco to furnish and apply approximately 780,000 gallons liquid asphaltic road material on 33 miles of Sections A, B and C, Route 70, Idyllwild-Desert National Forest Highway, San Bernardino National Forest. Proposal guarantee 5%. Specifications obtainable from above office.

LOS ANGELES, Cal.—J. J. Jessup, City Engineer, has completed plans for improving Exposition Blvd. from Vermont Ave. to Western Ave. under Cash Contract, involving:

Grading;

5171.36 sq. ft. 2-in. wearing surface;

3987 sq. ft. 1½-in. do;

820 sq. ft. 1-in. do;

2395 sq. ft. rock and oil roadway;

Driveways; curb; sidewalk;

Gutter; storm drain, etc.;

Ornamental lighting system.

County supervisors allocated \$47-

401.10 toward the cost of this project.

COCONINO COUNTY, Ariz.—Until August 10, 10 A. M., bids will be received by U. S. Bureau of Public Roads, 802 Title & Trust Bldg., Phoenix, C. H. Sweetser, District Engineer to grade 9.688 miles Section G, Route 7, the Oak Creek National Forest Highway, Coconino National Forest, involving:

(1) 50 acres clearing;

(2) 88,000 cu. yds. unclass. excav.;

(3) 2027 cu. yds. unclass. excavation,

structure;

(4) 26,000 cu. yds. unclass. excav.,

borrow;

(5) 50,000 sta. yds. overhaul;

(6) 9,677 miles finish earth graded rd.

(7) 8,700 cu. yds. ml. haul borrow;

(8) 1,063 cu. yds. concrete;

(9) \$2,500 lbs. reinf. steel;

(10) 2,082 lin. ft. corr. metal pipe;

(11) 25 cu. yds. hand laid rip-rap;

(12) 72 right of way monuments;

(13) 18,200 lin. ft. fence;

(14) 4 cattle guards;

(15) 29,500 lin. ft. protection ditch;

(16) 6,424 lin. ft. wood guard rail.

Specifications obtainable from above office on deposit of \$10, checks certified and made payable to Regional Fiscal Agent, U. S. Forest Service.

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

15.15 MI. OIL ROAD—DOUGLAS & LYON COS., NEV.

DOUGLAS AND LYON COS., Nev.—Basalt Rock Co., 900 8th St., Napa, Calif., and J. C. Compton, McMinnville, Ore., bidding jointly at \$27,153.87 awarded contract by S. C. Durkee, state highway engineer, Heroes Memorial Bldg., Carson City, for oiling from 5 miles east of Holbrook to east county line, and from Yerington to 9½ miles east, a length of approx. 15.15 miles, Route 3, Sections A1 and A2, involving:

- (1) 123,634 gals. asph. road ma't., type SC-2, Douglas Co.;
- (2) 9,070 gals. asph. road ma't., type MC-2, Douglas Co.;
- (3) 209,684 gals. asph. road ma't., type SC-2, Lyon Co.;

- (4) 15,377 gals. asph. road ma't., type MC-2, Lyon Co.;
 - (5) 15.15 miles roadmix;
 - (6) 15.15 miles finish roadway;
- Complete bids follow:
- (A) Basalt Rock Co. and C. J. Compton, \$27,153.87.
 - (B) C. F. Frederickson & Son, Lower Lake, Calif., \$30,307.56.
 - (C) Tiffany, McReynolds, Tiffany, San Jose, \$34,731.04.
 - (D) Dodge Bros. Const. Co., Fallon, \$39,670.76.
 - (E) J. A. Casson, Oakland, Cal., \$40,616.44.
 - (F) M. J. Bevanda, Stockton, Calif., \$41,103.93.
 - (G) Engineer's estimate, \$30,831.88.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
(1).....	.054	.06	.07	.085	.085	.087	.065
(2).....	.08	.09	.10	.11	.115	.129	.08
(3).....	.054	.06	.065	.085	.085	.083	.06
(4).....	.08	.09	.10	.10	.115	.125	.075
(5).....	450.00	525.00	600.00	600.00	550.00	590.00	500.00
(6).....	25.00	10.00	60.00	50.00	75.00	60.00	50.00

PUMP, UNIT & ELEC. APPARATUS — MINIDOKA PROJ.

IDAHO STATE.—Following bids received July 14 by U. S. Bureau of Reclamation, Denver, Colo., to furnish pumping unit and electrical apparatus for New 5th Unit in South Side Pumping Station No. 2, under Spec. No. 596-D, Minidoka Project, Idaho, involving:

- (1) 1 vert. pump, 180 sec. ft. 33½ ft. head;
- (2) 1 900-hp. 2200-volt, 3-phase, 60-cycle 300-r.p.m. vert. syn. motor;
- (2a) 1 do, 327-r.p.m.;
- (2b) 1 do, 360-r.p.m.;
- (2c) 1 do, 400-r.p.m.;
- (2d) 1 do, 450-r.p.m.;
- (2e) 1 do, 514-r.p.m.;
- (3) 1 switchboard panel for above;
- (4) 1 vert. pump and motor complete (alt. to items 1 and 2);
- (5) services of erecting engineer.

Bidders follow:
 (A) United Iron Works, Oakland.
 (B) Byron-Jackson Co., Berkeley.

- (C) Allis-Chalmers Mfg. Co., Milwaukee.
- (D) Worthington Pump and Mach. Co., Harrison, N. J.
- (E) Morris Machine Works, Baldwinville, N. Y.
- (F) General Electric Co., Schenectady, N. Y.
- (G) Westinghouse Elec. & Mfg. Co., East Pittsburgh, Pa.
- (H) Ideal Elec. & Mfg. Co., Mansfield, Ohio.
- (I) Electric Mach. Mfg. Co., Minneapolis, Minn.
- (J) Lexington Elec. Prod. Co., New York.
- (K) Graybar Elec. Mfg. Co., Denver.
- (L) Standard Elec. Mfg. Co., Dallas, Texas.
- (M) Cutler-Hammer, Inc., Milwaukee, Wis.

Unit bids follow:

	(1)	(2)	(2a)	(2b)	(2c)	(2d)	(2e)	(3)	(4)	(5)
(A).....	\$4524	\$.....	\$.....	\$.....	\$6292	\$.....	\$.....	\$607	\$.....	\$16 p.d.
(B) (a).....	8450	7000	.....	.....	.....	.....	.....	613	15,450	12 p.d.
(B) (b).....	.....	7000	.....	.....	.....	.....	.....	613	.....	.....
(C) (a).....	9900	7777	7434	7049	6606	6222	5414	461	16,607	20 p.d.
(C) (b).....	.....	7452	7134	6774	6371	5987	5374	451	.....	22 p.d.
(D) (a).....	6300	.....	.....	.....	5780	.....	.....	545	.....	.....
(D) (b).....	.....	.....	.....	.....	6000	.....	.....	565	.....	.....
(D) (c).....	.....	.....	.....	.....	5475	.....	.....	565	.....	.....
(D) (d).....	.....	.....	.....	.....	5850	.....	.....	545	.....	.....
(D) (e).....	.....	.....	.....	.....	.....	.....	.....	375	.....	.....
(E).....	7250	.....	.....	.....	6313	5973	5895	615	.....	25 p.d.
(F).....	6965	6675	6365	6365	5995	5665	5535	614	.....	25 p.d.
(G).....	7537	7230	6685	6685	6282	5897	5285	607	.....	.....
(H).....	.....	.....	.....	.....	5711	5496	5022	637	.....	25 p.d.
(I).....	7286	6964	6592	6181	5314	5172	615	.....	.....	15 p.d.
(J).....	.....	.....	.....	.....	.....	.....	.....	370	.....	.....
(K).....	.....	.....	.....	.....	.....	.....	.....	621	.....	.....
(L).....	.....	.....	.....	.....	.....	.....	.....	506	.....	.....
(M).....	.....	.....	.....	.....	.....	.....	.....	721.32	.....	.....

(e) G. E. motor (b) Westinghouse (c) Ideal (d) Elec. Machinery (e) Roller-Smith. Combination bids: Items 1, 2 and 3: United Iron Works \$10,990. Byron-Jackson Co., \$16,063. Allis-Chalmers Mfg., \$17,012.

BIDS OPENED

KERN CO., Cal.—John Jurkovich, 3530 Balch Ave., Fresno, at \$6723 submitted low bid to District Engineer, State Highway Commission, Fresno, for bituminous surface treatment between Wasco and Famosa, 8.7 mi. earth shoulders to be oil treated; between Bakersfield and Kern Canyon,

and between Monolith and Cameron, 14.3 mi. existing surfacing to be bituminous surface treated, involving:

- (1) 1205 hbbs. asph. road oil;
 - (2) 73 tons emulsified asphalt road oil;
 - (3) 67 tons cut-back asphalt;
 - (4) 924 tons sand.
- Complete bids follow:
 (A) John Jurkovich, Fresno, \$6723.

- (B) Granite Constr. Co., Watsonville, \$7685.90.
- (C) Gogo & Kados, Bakersfield, \$8096.
- (D) F. W. Nighbert, Bakersfield, \$9125.20.

Unit bids follow:

	(A)	(B)	(C)	(D)
(1).....	\$ 2.00	\$ 2.62	\$ 2.20	\$ 2.64
(2).....	20.00	24.00	30.00	30.00
(3).....	15.00	18.00	21.00	25.00
(4).....	2.00	1.70	2.00	2.25

29

ELKO COUNTY, Nev.—Utah Const. Co., Ogden, at \$153,160.71 awarded contract by State Highway Engineer, Carson City, to construct state highway system between Little Salmon River and Idaho State line, 18.02 mi., Route 13, Sections C4, 5 and 6, involving:

- (1) 125,200 cu. yds. rdwy. excav.;
- (2) 65 acres clearing;
- (3) 167,250 yd. sta. overhaul;
- (4) 53,193 cu. yds. select borrow;
- (5) 1300 cu. yds. struc. excav.;
- (6) 17.98 miles subgrade;
- (7) 167 lin. ft. concrete railing;
- (8) 56,800 cu. yds. crushed gravel or stone surface;
- (9) 274 cu. yds. class A concrete;
- (10) 105 cu. yds. class B concrete;
- (11) 130 cu. yds. class D concrete;
- (12) 62,900 lbs. reinforcing steel;
- (13) 0.88 mile reconstruct telephone line;
- (14) 920 lin. ft. 18-in. C.M.P.;
- (15) 1250 lin. ft. 24-in. C.M.P.;
- (16) 386 lin. ft. 30-in. C.M.P.;
- (17) 354 lin. ft. 36-in. C.M.P.;
- (18) 60 lin. ft. 48-in. C.M.P.;
- (19) 9029 lin. ft. remove fence;
- (20) 16,517 lin. ft. construct fence;
- (21) 30 lin. ft. remove pipe culvert;
- (22) 80 cu. yds. riprap;
- (23) 91 monuments;
- (24) 30 M. ft. B.M. redwood;
- (25) 1080 lin. ft. treated piling;
- (26) 30 drive piles;
- (27) 18.02 miles finish roadway;
- (28) 2300 lbs. structural steel;
- (29) 381 sq. yds. asphalt mat surface.

Complete bids follow:

- (A) Utah Const. Co., \$153,160.71.
- (B) Olof Nelson, Logan, \$153,689.72.
- (C) Wm. Hoops, Twin Falls, Idaho, \$161,922.10.

- (D) Gibbons & Reed, Salt Lake City, \$172,602.00.

(E) Engineer's estimate, \$138,260.53.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)
(1).....	\$.42	\$.30	\$.53	\$.58	\$.35
(2).....	16.00	30.00	10.00	20.00	5.00
(3).....	.02	.05	.02	.025	.01
(4).....	.38	.50	.30	.325	.30
(5).....	2.00	3.00	1.00	2.75	1.75
(6).....	75.00	100.00	50.00	250.00	100.00
(7).....	3.00	5.00	2.50	4.00	4.00
(8).....	.65	.70	.70	.68	.70
(9).....	25.00	20.00	27.00	21.00	24.00
(10).....	27.50	20.00	25.00	22.50	22.00
(11).....	28.00	20.00	37.00	19.50	25.00
(12).....	.06	.05	.06	.05	.06
(13).....	100.00	100.00	100.00	120.00	150.00
(14).....	1.50	1.00	1.50	1.30	1.40
(15).....	2.25	1.50	2.00	1.92	2.00
(16).....	3.25	2.00	3.00	2.54	2.75
(17).....	4.00	5.00	4.00	3.51	3.50
(18).....	6.50	7.00	6.00	5.98	6.00
(19).....	.02	.03	.04	.02	.02
(20).....	.12	.05	.12	.11	.15
(21).....	1.00	1.00	1.00	.50	.50
(22).....	2.50	5.00	4.00	2.00	4.00
(23).....	3.00	.....	3.00	2.50	3.00
(24).....	120.00	100.00	95.00	90.00	100.00
(25).....	.60	.60	.60	.77	.75
(26).....	18.00	20.00	1.00	34.50	20.00
(27).....	100.00	100.00	100.00	105.00	50.00
(28).....	.25	.20	.10	.15	.15
(29).....	.75	2.00	1.50	1.50	1.50

LOS ANGELES, Calif. — Clyde W. Wood, P. O. Box 49, Stockton, (temporary P. O. address: Rice, Calif.), submitted the low bid to the Metropolitan Water District, Los Angeles, July 24, at \$45,034.50 for constructing approximately 7.5 miles of road for the Colorado River aqueduct in accordance with the District's specifications No. 44. The road is located in Riverside County and extends from a point on Mecca-Blythe State Highway approx. 2.9 miles west of Desert Center to a point approx. 7.5 miles north thereof. The work to be contracted for consists of all necessary excavation and grading, and the placing of surfacing materials, culvert pipes, riprap, and protection work as shown on the drawings. Julian Hinds, acting chief engineer. The items are:

- (1) 53,400 cu. yds. rdwy., borrow, and channel change excav.
- (2) 60,000 sta. yds. excav. overhaul;
- (3) 960 cu. yds. structure excav.;
- (4) 245 cu. yds. concrete;
- (5) 5400 lbs. reinf. steel;
- (6) 96 lin. ft. furnish and place 30-in. corr. pipe culvert;
- (7) 264 lin. ft. do 42-in. do;
- (8) 132 lin. ft. do 48-in. do;
- (9) 150 cu. yds. hand-placed rip-rap;
- (10) 500 cu. yds. dumped rip-rap;
- (11) 3.7 miles drainage ditches;
- (12) 175 M. gals. watering embank.
- (13) 525 M. gals. watering subgrade;
- (14) 800 cu. yds. furnish crushed rock
- (15) 8300 cu. yds. furnish sel. matl.;
- (16) 15,600 cu. yds. miles haul selected material and crushed rock;
- (17) 136,500 gals. road oil, furnishing, hauling and spreading;
- (18) 88,000 sq. yds. prepare surface, mix, spread and finish oil-treated surface;
- (19) 22,000 gals. seal coat oil, furnish and haul;
- (20) 88,000 sq. yds. seal coat, apply;
- (21) 400 cu. yds. stockpile oil treated material.

The bids were:

- (A) Clyde W. Wood, Stockton, \$45,034.50.
- (B) Basch Bros., Torrance, \$49,614.16.
- (C) Yglesias Bros., San Diego, \$51,830.50.
- (D) A. Teichert & Sons, Sacramento, \$57,701.05.

The unit bids were:

	(A)	(B)	(C)	(D)
(1).....	.20	.30	.33	.36
(2).....	.01	.02	.01	.01
(3).....	.40	.80	1.00	1.50
(4).....	17.50	11.00	15.00	16.00
(5).....	.05	.04	.07	.06
(6).....	2.50	3.50	3.00	3.00
(7).....	4.00	5.80	6.00	6.50
(8).....	6.00	6.70	8.00	9.90
(9).....	2.00	2.50	2.50	3.00
(10).....	1.50	1.50	1.50	3.00
(11).....	200.00	200.00	200.00	400.00
(12).....	2.50	3.00	2.50	2.50
(13).....	2.50	3.00	2.50	2.75
(14).....	1.50	1.20	1.00	1.00
(15).....	.60	.40	.60	.70
(16).....	.10	.10	.10	.11
(17).....	.05	.045	.045	.05
(18).....	.035	.052	.035	.045
(19).....	.08	.085	.08	.065
(20).....	.01	.01	.01	.005
(21).....	1.00	1.10	1.50	1.50

29

ARIZONA STATE — Heafey-Moore Co., 344 High St., Oakland, submitted low bid to State Highway Commission, Phoenix, July 12, at \$108,162.94, for construction on the St. Johns-Springerville Highway (E-60 and E-68-A). The work, which begins at a point about 1 1/2 miles south of St. Johns and extends southeasterly approximately 8 1/2 miles toward Springerville, consists of grading and draining about 1/2 of a mile of roadway, the placing of subgrade stabilizer, and the oil processing of the entire length of the road mix method, and is to be completed on or before November 30, 1933.

The items are:

PROJECT NO. E-60

- (1) 21 571 C. Y. Rdwy Excav. (unclass);
- (2) 40 C. Y. Struc. Excav. (unclass);
- (3) 521 C. Y. Drainage Excav. (unclass);
- (4) 41 C. Y. Borrow Excav. (unclass)
- (5) 20,071 Sta. Yd. Earthwork Overhaul;
- (6) 300 Hr Rolling (exc. Oil Cake, Sl. Ct. and Shoulders);
- (7) 7 C. Y. Cl. "B" conc. (incl cem.)
- (8) 10 lbs. Rein. Steel (Bars C.I.P.);
- (9) 44 Lin. Ft. 36-in. C.M.P. (C.I.P. incl. Bands but exc. Excav.);
- (10) 800 Lin. Ft. Cable Road Guard (C.I.P.);
- (11) 50 M. Gal. Water applied to Rdwy (C.I.P.);
- (12) 522 C. Y. Subgr. Etab.;
- (13) 3317 Cy. Mi. Subgr. Stab. Haul;
- (14) 199 C. Y. Mineral Agg.;
- (15) 54 Cy. Mi. Mineral Agg. Haul;
- (16) 3576 Gal. Asp. Road Oil (C.I.P. on Etab.);
- (17) 0.174 Mi. Mixing, Laying Down and Finishing;
- (18) 2 Ton Cutback Asp. Cement for Seal Ct. (C.I.P. on Rd.);
- (19) 15 C. Y. Screenings for Seal Coat (C.I.P.);
- (20) 16 C. Y. Shoulder Material;
- (21) 99 Cy. Mi. Shoulder Material Haul;

PROJECT NO. E-68-A

- (22) 7463 C. Y. Rdwy. Excav. (unclass);
- (23) 7 C. Y. Struc. Excav. (unclass);
- (24) 176 C. Y. Drainage Excav. (unclass);
- (25) 10 Hour Rolling (Exc. Oil Cake, Sl. Ct. and Shoulders);
- (26) 3 C. Y. Class "B" Conc. (Incl. Cement);
- (27) 10 Lbs. Rein. Steel Bars (C.I.P.);
- (28) 28 Lin. Ft. 24-inch C.M.P. (C.I. P. Incl. Bands but ex. Excav.);
- (29) 1222 Sq. Yds. Grading Dips;
- (30) 30,618 C. Y. Subgrade Stabilizer;
- (31) 70,933 Cy. Mi. Subgrade Stabilizer Haul;
- (32) 239 M Gal. Water applied to Roadway (C.I.P.);
- (33) 9717 C. Y. Mineral Aggregate;
- (34) 25,331 Cy. Mi. Mineral Aggregate Haul;
- (35) 174,906 Gal. Asp. Road Oil (C.I. P.) on Road);
- (36) 8,501 Mile Mixing, Laying Down and Finishing;
- (37) 102 Ton Cutback Asp. Cement for Seal Coat (C.I.P. on Road);
- (38) 727 C. Y. Screenings for Seal Coat (C.I.P.);
- (39) 749 C. Y. Shoulder Materials;
- (40) 2080 Cy. Mi. Shoulder Material Haul;

NON FEDERAL AID WORK

- (41) 170 C. Y. Special Mineral Aggregate for Stockpile (C.I.P.).
- The total bids were:
- (A) Heafey - Moore Co., Phoenix, \$108,162.94.
 - (B) Phoenix-Tempe Stone Co., Phoenix, \$110,059.88.
 - (C) Pleasant-Hasler Co., Phoenix, \$111,567.48.
 - (D) Pearson & Dickerson, Riverside, \$115,770.93.

The unit bids were:

	(A)	(B)	(C)	(D)
(1).....	\$.65	\$.65	\$.65	\$.82
(2).....	2.50	1.50	1.00	1.50
(3).....	.80	.75	.50	2.00
(4).....	.80	.75	.35	.30
(5).....	.02	.02	.02	.05
(6).....	5.00	4.00	4.00	4.00
(7).....	40.00	35.00	35.00	37.00
(8).....	.20	.15	.10	.06
(9).....	6.50	7.00	4.00	5.00
(10).....	.90	1.00	.75	.80
(11).....	4.00	3.00	3.50	3.00
(12).....	.80	.80	.90	.85
(13).....	.13	.12	.14	.13
(14).....	1.25	1.50	1.45	1.50
(15).....	.13	.12	.14	.13
(16).....	.125	.13	.135	.12
(17).....	600.00	650.00	700.00	600.00

(18).....	39.80	41.00	42.00	40.00
(19).....	5.00	5.00	4.00	3.50
(20).....	.80	.85	.90	1.50
(21).....	.13	.12	.14	.13
(22).....	.65	.65	.65	.82
(23).....	2.50	1.50	1.00	1.50
(24).....	.80	.75	.50	2.00
(25).....	5.00	4.00	4.00	4.00
(26).....	40.00	35.00	35.00	37.00
(27).....	.20	.15	.10	.06
(28).....	5.50	4.00	3.00	3.00
(29).....	.50	.20	.25	.25
(30).....	.80	.80	.90	.85
(31).....	.13	.12	.14	.13
(32).....	4.00	3.00	3.50	3.00
(33).....	1.25	1.50	1.45	1.50
(34).....	.13	.12	.14	.13
(35).....	.125	.13	.135	.12
(36).....	600.00	650.00	700.00	600.00
(37).....	39.80	41.00	42.00	40.00
(38).....	5.00	5.00	4.00	3.50
(39).....	.80	.85	.90	1.50
(40).....	.13	.12	.14	.13
(41).....	3.00	3.00	3.00	3.50

EUREKA, Cal.—As previously reported, Evans Constr. Co., 1317 Albee St., Eureka, at \$4602.50 submitted low bid July 17 to District Engineer, State Highway Commission, Eureka, to construct a sidewalk on the bridge across Redwood Creek, about one-quarter mile north of Orick, involving:

- (1) 85 cu. yds. struc. excav.;
- (2) 30 cu. yds. class B Port. cem. conc
- (3) 15.5 MFBM redwood timber dense sel. all-heart struc. grade, in place;
- (4) 30,000 lbs. struc. metal in place;
- (5) 2500 lbs. hardware, in place;
- (6) 7 ft. 10-in. corr. metal pipe, in place;

Complete bids follow:

- (A) Evans Constr. Co., Eureka, \$4532.50.
- (B) Smith Bros. Co., Eureka, \$5032.80
- (C) Mercer - Fraser Co., Eureka, \$5034.50.
- (D) Fred J. Maurer & Son, Eureka, \$5375.75.

Unit bids follows:

	(A)	(B)	(C)	(D)
(1).....	\$ 1.00	\$.75	\$.65	\$ 1.25
(2).....	12.50	19.00	17.80	18.00
(3).....	85.00	87.50	77.00	95.00
(4).....	.085	.093	.10	.10
(5).....	.096	.10	.10	.10
(6).....	5.00	.40	.25	1.00

BIDS OPENED

SAN FRANCISCO. — San Francisco Bureau of Street Repair, at \$2,402 submitted low bid July 26 to Department of Public Works to improve south half of Alemany Blvd. from Bayshore to 2850 ft. west, including crossing of Alemany and San Bruno, involving:

- (1) 2700 cu. yds. broken rock mac.;
- (2) 55,000 sq. ft. oiled wearing surf.

Complete bids follow:

- (A) Bureau of St. Repair.....\$2402.00
- (B) A. G. Raisch.....2619.50
- (C) Pacific Pavements, Ltd.....2682.00
- (D) Theo. Cohn.....2980.00
- (E) E. J. Treacy.....3125.00
- (F) Fay Improvement Co.....3162.80

Unit bids follow:

	(1)	(2)
(A).....	\$.36	\$.026
(B).....	.62	.0167
(C).....	.81	.009
(D).....	.90	.01
(E).....	.75	.02
(F).....	.874	.0146

SAN FRANCISCO.—Healy - Tibbitts Const. Co., 64 Pine St., at \$12,099 submitted low bid to Department of Public Works to alter and repair Sixth St. bridge at Channel, involving:

- (1) strengthen bridge (lump sum);
- (2) 2350 lin. ft. piles (per ft.)

Complete bids follow:

- (A) Healy-Tibbitts Const. Co., \$12,099.
- (B) A. W. Kitchen, \$12,938.37.
- (C) MacDonald & Kahn, \$13,839.00.

- (D) B. A. Howkins & Co., \$13,908.00.
 - (E) M. B. McGowan, \$13,997.00.
 - (F) Barrett & Hill, \$14,373.00.
 - (G) F. C. Amoroso & Sons, \$14,924.80.
- Unit bids follow:
- | | (1) | (2) |
|-----|----------|--------|
| (A) | \$10,671 | \$.60 |
| (B) | 11,602 | .5615 |
| (C) | 10,864 | 1.25 |
| (D) | 11,528 | 1.00 |
| (E) | 12,638 | .55 |
| (F) | 12,707 | .70 |
| (G) | 11,926 | 1.26 |

LAKE COUNTY, Cal.—E. A. Forde, 41 Sunnyside Ave., San Anselmo, at \$6362.50 submitted low bid to District Engineer, State Highway Commission San Francisco, for six miles of bituminous surface treatment to be applied between the southerly boundary and Middletown, involving:

- (1) 100 tons emulsified asphalt;
- (2) 1150 tons crushed gravel or stone screenings.

Complete bids follow:

- (A) E. A. Forde, San Anselmo, \$6362.50
- (B) Pacific Truck Service Co., San Jose \$934.50
- (C) Harold Smith, St. Helena, 7478.50
- (D) Tiffany Const. Co., San Jose \$688.00

Unit bids follow:

	(1)	(2)
(A)	\$20.50	\$3.75
(B)	20.70	4.23
(C)	22.00	4.59
(D)	25.47	5.34

BIDS OPENED

SPECIAL TO DAILY PACIFIC BUILDER
MARIN AND SONOMA COUNTIES, Cal.—E. A. Forde, 41 Sunnyside Ave., San Anselmo, at \$20,300 submitted the low bid July 26 to State Highway Commission, Sacramento, for 10 miles of bituminous surface treatment between Ignacio and Fairville, involving:

- (1) 2000 tons crushed gravel or stone, bit. treated surface;
- (2) 100 tons cut-back asph. bituminous treated surface;
- (3) 20,000 sq. yds. asph. paint binder;
- (4) 2000 tons rock screenings;
- (5) 80 tons emulsified asph. road oil;
- (6) 2400 cu. yds. imported borrow.

Complete bids follow:

- (A) E. A. Forde, San Anselmo, \$20,300.00.
- (B) A. J. Raisch, San Jose, \$20,497.
- (C) Pacific States Const. Co., San Francisco, \$21,760.
- (D) Pacific Pavements Co., Ltd., San Francisco, \$22,112.

Unit bids follow:

	(A)	(B)	(C)	(D)
(1)	\$ 4.25	\$ 4.51	\$ 4.40	\$ 4.51
(2)	17.00	17.25	17.60	17.00
(3)	.02	.01	.02	.015
(4)	3.25	3.35	3.50	3.57
(5)	22.00	21.25	25.00	23.00
(6)	.60	.48	.75	.88

29

BIDS OPENED

BOULDER CANYON, Nevada — Joshua Hendy Iron Works, 200 Pine St., San Francisco, at \$105,939 submitted low bid to U. S. Bureau of Reclamation, Denver, Colo., to furnish high-pressure gates for upstream plugs in Tunnels Nos. 2 and 3. Boulder Dam, Boulder Canyon Project, under Specifications No. 542 involving:

- (1) 6x7.5 ft. high-pressure gates with 27-in. hydraulic hoists and semi-automatic gate hanger, each gate to include:
 - (a) 6x7.5-ft. high pressure gate, complete;
 - (b) semi-automatic gate hanger;
- (2) 6x7.5-ft. conduit linings with bolts copper gaskets and felt washers;
- (a) 6x7.5-ft. conduit lining sections;
- (b) 6x7.5-ft. conduit lining traction joint (made in 2 sections);
- (c) 1-3/4-in.-x7 1/2-in. steel machine bolts
- (d) copper gaskets;
- (e) 2x3 1/2 x 1/4-in. felt washers.

- kirk, New York.
 Bidders follow (and shipping point):
- (A) Joshua Hendy Iron Works, Sunnyside.
 - (B) American Steel Foundries, Gary, Indiana.
 - (C) American Locomotive Co., Dun-
 - (D) Bethlehem Steel Co., Bethlehem, Pa.
 - (E) Continental Roll & Steel Foundry Wheeling, W. Va.
 - (F) Hardle-Tynes Mfg. Co., Birmingham, Alabama.
 - (G) S. Morgan Smith Co., York, Pa.
 - (H) United Engr. & Foundry Co., Youngstown.
 - (I) John W. Beam, Milwaukee, Wis.
 - (J) Lake Erie Engr. Corp., Buffalo, New York.
 - (K) Steacy-Schmidt Mfg. Co., York, Pa.
 - (L) Commercial Iron Works, Portland, Ore.
- Bids follow:
- | | (1) | (2) | Total |
|-----|----------|-------------|--------------|
| (A) | \$54,207 | \$51,782.00 | \$105,989.00 |
| (B) | 60,122 | 59,890.00 | 110,000.00 |
| (C) | 63,223 | 58,467.00 | 121,690.00 |
| (D) | 65,320 | 58,000.00 | 123,320.00 |
| (E) | 62,700 | 61,500.00 | 123,931.72 |
| (F) | 61,950 | 64,352.00 | 125,000.00 |
| (G) | 65,755 | 64,838.00 | 130,593.00 |
| (H) | 77,400 | 62,900.00 | 140,300.00 |
| (I) | 75,000 | 78,500.00 | 150,000.00 |
| (J) | 86,865 | 69,546.40 | 154,850.00 |
| (K) | 66,800 | 71,500.00 | — |
| (L) | 75,360 | — | — |

BIDS OPENED

MERCED AND MARIPOSA CO., Cal.—Granite Construction Co., Bin 9, Watsonville, at \$6676 submitted low bid to District Engineer, State Highway Commission, Fresno, for bituminous surface treatment between Merced and Orange Hill School, 14.9 mi. existing shoulders and 6.3 mi. existing roadbed, involving:

- (1) 48 tons cut-back asphalt in place, Loc. A;
- (2) 300 tons sand, Loc. A;
- (3) 67 tons emulsified asph. road oil, Loc. B;
- (4) 1215 tons screenings, Loc. B.

Complete bids follow:

- (A) Granite Constr. Co., Watsonville, \$6676.00.
- (B) Pacific Truck Service, Inc., San Jose, \$7311.35.
- (C) Tiffany Const. Co., San Jose, \$7827.
- (D) A. Teichert & Son, Sacramento, \$8042.60.

Unit bids follow:

	(A)	(B)	(C)	(D)
(1)	\$18.00	\$30.20	\$23.00	\$18.60
(2)	1.50	1.93	2.75	2.70
(3)	22.00	23.90	30.00	23.90
(4)	3.20	3.03	3.20	3.90

29

BIDS OPENED

SPECIAL TO DAILY PACIFIC BUILDER
MADERA COUNTY, Calif.—Stewart & Nuss, 410 Thorne Ave., Fresno, at \$12,811.86 submitted low bid to State Highway Commission, District Engineer, Fresno, July 26, to apply bituminous surface treatment to existing pavement and shoulders in three sections, as follows: Location A, between 2.9 miles and 2 miles south of Madera, 0.9 mile; Location B, between 2 miles south of Madera and Madera; Location C, bet. Madera and the northern boundary, 18.2 miles. Project involves

- (1) 10 tons emulsified asph. road oil, Location A;
- (2) 192 tons screenings, do;
- (3) 124 tons emulsified asph. road oil, Location B;
- (4) 1850 tons screenings, do;
- (5) 116 tons cut-back asph., Loc. C;
- (6) 710 tons sand, do.

Complete bids follow:

- (A) Stewart & Nuss, Fresno, \$12,811.86
- (B) Granite Const. Co., Watsonville, \$13,477.

- (C) L. A. Briscoe, Arroyo Grande, \$14,176.
 - (D) Tiffany Const. Co., San Jose, \$15,680.40.
- Unit bids follow:
- | | (A) | (B) | (C) | (D) |
|-----|---------|---------|---------|---------|
| (1) | \$23.00 | \$24.00 | \$25.00 | \$22.15 |
| (2) | 4.28 | 4.00 | 4.00 | 4.94 |
| (3) | 21.00 | 25.00 | 24.00 | 24.80 |
| (4) | 3.45 | 3.26 | 3.50 | 3.56 |
| (5) | 16.75 | 18.00 | 24.00 | 18.72 |
| (6) | 1.10 | 1.50 | 1.30 | 3.49 |

SPECIAL TO DAILY PACIFIC BUILDER
FRESNO CO., Cal.—Stewart & Nuss, 410 Thorne Ave., Fresno, at \$4450.80 submitted low bid July 26 to District Engineer, State Highway Commission, Fresno, to apply bituminous surface treatment, non-skid, over 3.7 mi. bet. Kingsburg and Selma, involving:

- (1) 42 tons emul. asph. road oil;
- (2) 840 tons screenings;

Complete bids follow:

- (A) Stewart & Nuss, Fresno, \$4405.80
- (B) Granite Constr. Co., Watsonville, \$4443.60.
- (C) L. A. Briscoe, Arroyo Grande, \$5292.

Unit bids follow:

	(A)	(B)	(C)
(1)	\$21.30	\$22.00	\$26.00
(2)	4.18	4.19	5.00

29

WHITE PINE COUNTY, Nevada.—Wheelwright Const. Co., Ogden, Utah at \$36,752 awarded contract by State Highway Engineer, Carson City, to construct state highway system bet. west foot of Antelope Summit and Ellipah, 12.62 miles, Route 2, Section B, involving:

- (1) 12.62 miles subgrade;
- (2) 39,800 cu. yds. crushed gravel or stone surface;
- (3) 12.62 miles finish roadway.

Complete bids follow:

- (A) Wheelwright Const. Co., Ogden, \$36,752.
- (B) Mahoney - Cline Co., Las Vegas, \$46,304.
- (C) Engineer's estimate, \$33,733.

Unit bids follow:

	(A)	(B)	(C)
(1)	\$100.00	\$100.00	\$100.00
(2)	.86	1.10	.80
(3)	100.00	100.00	50.00



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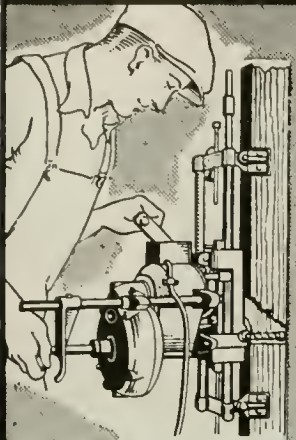
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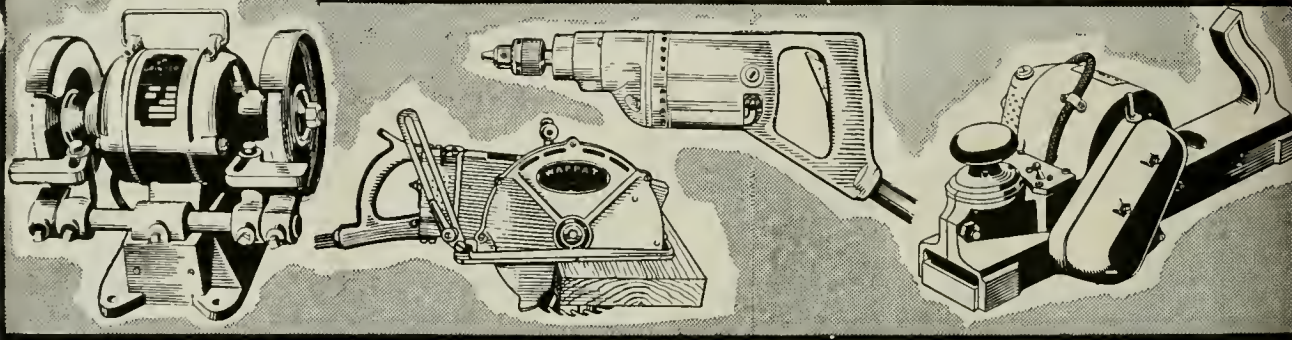
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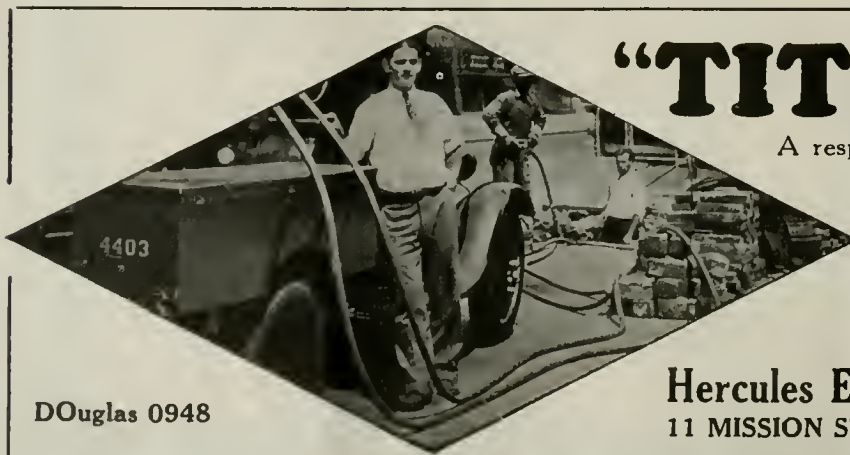
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SAN FRANCISCO, CALIF., AUGUST 5, 1933

No. 29

MATERIALMEN MUST COLLECT SALES TAXES

State Board Rules Levy To Be Made on Delivery To Contractor

SACRAMENTO, Aug. 1.—An informal ruling issued late this afternoon by the State Board of Equalization indicates that all sales taxes on building materials will be collected through material dealers and that all material delivered to contractors will be taxable.

The regulation is based on the advice of attorneys for the Board of Equalization who held that the change in character of building materials from personal property to real property would occur when they are delivered on the job. The sales tax on them as personal property, therefore, would be chargeable directly to the contractor, although he is erecting the building for another party.

This regulation will place on materialmen all of the responsibility for collecting the two and one-half percent state levy. It will also make all material leaving their yards subject to tax, excepting such as is consigned to public works on which contracts had been awarded prior to August 1.

Many disputed points involving transactions in material and equipment for buildings still remain to be settled by the board and it is expected that a special bulletin will be prepared shortly covering these subjects.

Of paramount interest to many contractors is the status of materials to be used in contracts signed prior to enactment of the sales tax, but not yet completed. Unofficial sources intimated that settlement for tax liability between owner and contractor on projects of this class might have to be tested in court. Or it might be necessary to resort to the courts to determine whether the sales tax is applicable to purchases involved in contracts executed prior to the effective date of the law.

THE WEEK'S NEWS Highlights

SALES TAX. California construction industry awaits formal rulings to establish the status of various branches in collection and payment of the state 2½ percent sales tax. Materialmen will be the principal sources of collection, according to first general interpretation from the State Board of Equalization. Levy will be collected on all materials delivered to contractors except those for public works contracted prior to enactment of tax law.

BUILDING PERMITS. Value of new building commenced in July according to preliminary totals from Pacific Coast cities will be nearly double that of July a year ago and contrary to usual trend the month will show only a minor recession from June, if any. San Francisco permits were \$770,290.

HIGHWAY DEPARTMENT. Division boundaries and other administrative arrangements of the California State Highway Department are due for changes prior to August 21 when the new highway construction program, state and federal aid will be started. State Director of Public Works Earl Lee Kelly contemplates addition of new division with headquarters in San Diego, moving headquarters of two divisions from Sacramento to Marysville and Stockton, respectively. Reorganization of state department is made necessary to supervise maintenance of 6600 miles of county roads voted into state system by the last legislature.

NRA CODES. Building crafts and material dealers are soon to complete new codes of fair practice, covering virtually the entire industry. Local codes later will be fitted together by state and national agencies to produce a master code for construction. Hardwood Floor Contractors' Association of San Francisco is among the first to complete its draft, approve and forward to the President.

WEBB RULING DISQUALIFIES TWO BIDDERS

Failure to Pay License Fee To Submitting Figure Held Illegal

Contractors bidding on public works must be licensed and in good standing not only at the time the contract is signed, but at the time the bid is submitted, Attorney General U. S. Webb ruled yesterday in response to a query from Earl Lee Kelly, state director of public works.

Kelly asked Webb's ruling in the case of bids opened July 12 for construction of a part of the State Highway in San Gabriel Canyon, Los Angeles County.

Low bid was submitted by Geo. Gardner and Sons of Redlands. Second low bidders were Alex D. Chalmers and Max Winter, and third low Matich Bros. of Elsinore.

Subsequent to the opening of bids, Kelly was informed by the Registrar of Contractors that the first and second bidders had applied for state licenses before the date of the bid opening, but had not enclosed the necessary fee with the application. Gardner's fee was not received by the registrar until July 14.

Pointing out that if the contract were awarded to Gardner, the state would make a substantial saving, Kelly asked whether Gardner could be considered a licensed contractor inasmuch as he had made his application, and whether it was necessary that the contractor be licensed at the time of submitting the bid, or only at time of award.

Kelly suggested that if a license were not necessary at the time of submitting bids, contractors would have an unfair advantage in that if a contractor, after the opening, found that he had submitted a losing bid, could forego obtaining a license.

Quoting Sections 3 and 12 of the contractors' license law and the general state law applying to contracts, Webb ruled that the contractor must be licensed and his fee paid at the time of submitting bids.

New York State Rulings Show How Sales Tax Here May Affect Industry

While waiting for the State Board of Equalization to issue regulations for collection of the new sales tax, California contractors may gain some pointers on the probable effect of the law from the interpretation of the New York sales tax, a similar measure, by the New York State Tax Commission.

A copy of the regulations applicable to purchases of building materials has been received by Floyd O. Booe, secretary-manager of the Associated General Contractors, Northern California Chapter, and is published below:

Materials and Supplies sold to Owners, Contractors and Subcontractors for the erection of buildings and the alteration, improvement and repair of real property. Receipts from sales of materials and supplies to owners to be used by them in erecting, altering, improving or repairing buildings or other improvements on land are taxable. Such sales are to final buyers and are not sales for resale.

Frequently materials and supplies are sold to contractors and subcontractors for use by them in fulfilling contracts for erecting buildings on or for otherwise improving, altering or repairing the real property of others. Such contracts are of two kinds: (a) those in which the contractor agrees for a lump sum to furnish the materials and supplies and necessary services, and (b) those in which the contractor agrees to furnish the materials and supplies at a given price or at the regular retail price and to render the services either for an additional agreed price or on the basis of time consumed. When the contractor or subcontractor uses materials and supplies in carrying out such a lump sum contract, he becomes the consumer thereof. The sale to him is to a final buyer and is taxable to his seller. Where the contract calls for the sale of materials and supplies to the owner at an agreed price or at the regular retail price the contractor becomes the retailer and the sale by him to the owner is the taxable sale. The final buyer is the person whose real property is improved, altered or repaired.

It may happen that a contractor or subcontractor engaged in the business of erecting buildings on or otherwise improving, altering and repairing the real property of others, may also be engaged in retail trade or will enter into both kinds of contracts hereinbefore described. In such a case, if the contractor or subcontractor, when purchasing materials and supplies can segregate those which will be con-

sumed by him in fulfilling lump sum contracts from those which he will resell, he may give to his seller a resale certificate for the latter. If, at the time of making purchase of materials and supplies, the contractor or subcontractor is unable to segregate those which he will resell and upon which he will be taxable from those which he will consume in fulfilling lump sum contracts and on which his seller will be taxable, he may purchase according to the general character of his business. That is to say, if his business is principally that of taking contracts on a lump sum basis, he should not give a resale certificate for any of the materials and supplies purchased. If, on the other hand, his business is principally that of selling to owners at a given price or at regular retail price, or of selling materials and supplies at retail, he may sign such a resale certificate. If the buyer gives a resale certificate and thereafter consumes some of the materials and supplies purchased in erecting buildings on or otherwise altering, improving or repairing the real property of another pursuant to a lump sum contract, he must include in his receipts upon which a tax is to be paid not only all receipts from retail sales but in addition, the fair selling price of the materials and supplies consumed in fulfilling lump sum contracts. If the contractor or subcontractor has not given a resale certificate but subsequently sells at retail some of the materials and supplies purchased he must include the receipt therefrom in his receipts from taxable sales.

Materials and supplies sold to contractors or owners and used in constructing, manufacturing or fabricating tangible personal property. A contractor may undertake to furnish necessary materials and supplies and construct, manufacture or fabricate an article of tangible personal property, as for instance, a picture, yacht, rug, awning, etc. The sale of the materials and supplies to such a contractor is not taxable as he does not consume the same. They become a component part of the finished article of tangible personal property which he sells to the person with whom the contract is made.

To illustrate: The ship-builder who contracts to construct a yacht for an agreed price purchases the materials and supplies needed to fulfill his contract. The sale to him is not to a final buyer. When his contract is fulfilled, he delivers to his client a complete yacht which

is tangible personal property. That is the final sale and the contract price is taxable.

This rule applies to all cases where the contract or agreement is for the construction, manufacture or fabrication of an article of tangible personal property, even though the contractor may bill the materials and supplies separately from the labor.

Necessarily, sales of materials and supplies to owners who personally or through their employees construct, manufacture or fabricate tangible personal property for themselves, are taxable to the seller.

Cost plus Contracts. The rules set forth in the two immediately preceding interpretations apply to sales of materials and supplies for use and consumption in the fulfillment of cost plus contracts. Except in the case of a contract to make an article of tangible personal property, if such materials and supplies are sold to the contractor or subcontractor, the sale is to a final buyer and the sale price is taxable to the seller. If, on the other hand, the materials and supplies are sold to the owner of the property to be constructed, altered, improved or repaired, the sale to him is to a final buyer and the sale price is taxable to the seller. In either case, the percentage plus paid to the contractor or subcontractor on the cost of the materials and supplies are receipts for services rendered and are not taxable.

Definition of delivery costs as taxable or nontaxable under the new sales tax law is contained in a regulation issued by President Graves of the State Tax Commission.

The regulation, dealing with all classes of deliveries, whether by freight, express, parcel post, truck or messenger, states that "The determining factor in the consideration of this question is whether the purchaser pays the delivery costs and charges as a separate item or whether they are absorbed by the seller as a service cost or an expense of doing business."

In the first case, the Tax Commission rules, the delivery charge is not subject to the 1% sales tax but in the second case it is. The regulation makes it clear that a store which customarily delivers customers' purchases without extra charge may not deduct any allowance for this service from its sales tax returns but that if a separate delivery charge is made a deduction therefor will be allowed.

The regulation also specifically mentions sales of automobiles from a dealer's stock, the ruling being that the total delivered price is taxable even though the price quoted the buyer is "f.o.b. Detroit" plus delivery charges.

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L. A. OFFICE OF PUBLIC WORKS BOARD OPENED

Economy Of Administration To Be Aided By Using State Facilities

Col. Jerome F. Sears, Technical Advisor to the California Advisory Board of the Federal Public Works Administration, has announced that offices have been opened at room 302-F, State Bldg., Los Angeles. H. H. Cotton, Chairman of the Board, will also maintain offices at this address. The personnel of the California Advisory Board, operating under the direction of Justus Wardell, Director of Region No. 6, is as follows:

H. H. Cotton, Chairman.
E. F. Scattergood, Chief Electrical Engineer of the Los Angeles Water and Power Department.
Frank R. Havenner, Chairman of the Board of Supervisors, City and County of San Francisco.
Col. Jerome F. Sears, Technical Advisor.

Jos. F. Freeman, Secretary.
Wardell's headquarters will be in San Francisco, probably in the Federal Reserve Bank Building.

The 145 members of the 48 state advisory boards will be paid \$10 a day, but only when they work. They will be allowed \$5 a day expenses when traveling on official business. The ten regional administrators will get \$6000 a year, the maximum fixed for the public works administration, according to Secretary-Director Harold Ickes.

"The administration feels that men of the caliber appointed will be willing to serve from a sense of public duty at these low rates," Ickes explained.

The interior department secretary wrote all governors asking them to supply quarters for the state advisory boards. He further explained:

"The states and all other public bodies will be asked without hesitation to make any of their facilities desired by the public works administration available without additional expense to the government. The smallest staffs possible will be set up in the states.

"Each state will be provided with

BOARD RESTRICTS STATE INSURANCE TO TREASURY LIST

Only bonding companies approved by the United States Treasury Department will be accepted in the future as surety for workmen's compensation in California, according to a resolution adopted by the State Industrial Accident Commission.

Following is the text of the commission order:

Whereas, several surety companies have met with financial reverses during recent months, and the coverage for self-insurers under the California Workmen's Compensation, Insurance and Safety Act has been imperiled by the experiences of such companies, and

Whereas, it is the primary function of the Industrial Accident Commission to take all steps possible to protect the interests of injured workers and the dependents of those killed, and it is difficult for the commission to ascertain the solvency of surety companies; therefore, be it

Resolved, that on and after July 10, 1933, the Industrial Accident Commission will accept only sureties on bonds for self-insurers from companies listed by the United States Treasury Department as acceptable sureties on Federal bonds, and with the underlying limitations specified by the said department applying to the total accumulation of liability on all surety bonds of any one company, as filed with the Industrial Accident Commission.

APPROVE CAMPS

Inspection of the contractors' labor camps on the Metropolitan Water District project shows them to be in excellent condition, the State Division of Immigration and Housing reports in its monthly bulletin.

an engineer appointed by the federal administrator and responsible to him. This engineer will be the executive officer of the state board and the technical expert. He will organize the board's office, direct its small personnel and receive, record and examine all applications made for projects and report to the board on each."

JULY BUILDING PERMITS IN S. F. TOTAL \$770,290

Residential Work Increase Features Month's Activity Here

July building permits issued in San Francisco totaled \$70,290, comparing with \$616,409 for July last year and \$1,069,118 for June this year.

The month's permits, although below the total of last month, show a substantial increase in residential building with 116 authorized at an aggregate cost of \$497,645, approximately double the June figures both in number and value. Last July only 48 permits valued at \$201,800 were issued for the same class of building.

There were 443 permits issued during the month, comparing with 554 last month and 418 in July of 1932.

The June total included a \$450,000 permit for the new Bohemian club building. Last month there were no large permits for non-residential work.

Following are the classified totals for July and the same month a year ago:

Class	July, 1933		July, 1932	
	No.	Est. Cost	No.	Est. Cost
C	7	\$ 26,500	5	\$ 12,000
Frames	116	497,645	48	201,800
Alterations	315	149,836	349	184,537
Public	4	96,193	10	134,063
State	—	—	2	8,029
U. S. Govt.	1	3,111	4	75,980
Eldg. Fees	—	4,365	—	—
Billboards	—	—	8	—
Boiler	—	—	114	—
Total	445	\$770,290	418	\$616,489

LOCAL CONTRACTORS GET UTAH LICENSE

Utah now requires a state license for contractors engaging in any work aggregating more than \$200 in cost. Included in the list of out-of-state contractors who have qualified to bid on work in the state since the law was enacted are C. C. Moore & Company, San Francisco; Frederickson & Watson Construction Co., Oakland; N. M. Ball, Berkeley.

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PERMITS AND CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
559	Brusco	Bettancourt	7000
560	City	Ruegg	2800
561	Kollerer	Ruegg	5000
562	Healy	Andersen	5380
563	Standard	Owner	6000
564	Dowd	Owner	6000
568	Hart	Johnson	1000
569	Birmingham	Owner	2000
570	Schroeder	Lindgren	2000
571	Feltman	Owner	3000
572	Horgan	Owner	35000
573	Rothschild	Owner	4000
574	Allan	Douglas	1950
575	Desiano	Owner	6500
576	Stanghellini	Bettancourt	3000
577	Bohemian	Sullivan	7000
578	Reilly	Galli	5000
(579)	Meyers	Jacks	11500

DWELLING

(559) S MARINA BLVD. 104 W Fillmore St. Two-story and basement frame dwelling.
Owner—H. D. Brusco, 1748 Grove St., San Francisco.
Architect—Charles F. Strothoff, 2574 15th St., San Francisco.
Contractor—J. Bettancourt, 422 San Anselmo Ave., San Bruno. \$7000

ALTERATIONS

(560) NO. 216 MONTGOMERY ST. Alter stores and offices.
Owner—City Title Insurance Co., 216 Montgomery St., San Francisco.
Architect—Not Given.
Contractor—The Ruegg Co., 369 Pine St., San Francisco. \$2800

FLATS

(561) E TREAT 150 S Twenty-third St. Two-story and basement frame (2) flats.
Owner—C. Kollerer, 1041 Treat Ave., San Francisco.
Architect—Not Given.
Contractor—The Ruegg Co., 369 Pine St., San Francisco. \$5000

DWELLING

(562) W THIRTY-FOURTH AVE. 375 N Taraval St. One-story and basement frame dwelling.
Owner—J. B. Healy, 2371 34th Ave., San Francisco.
Architect—Chas. F. Strothoff, 2274 15th St., San Francisco.
Contractor—C. Andersen, 150 Granville Way, S. F. \$5380

SERVICE STATION

(563) NE 17th and DOLORES; two steel service station buildings.
Owner—Standard Oil Co., 225 Bush St.
Architect—Not Given. \$6000

ALTERATIONS

(564) 1004 GRANT AVE.; alter store.
Owner—B. J. Dowd, 2323 20th Ave.
Architect—Not Given. \$6000

565	Standard	Owner	17500
566	Ferrario	Ragni	2150
567	Stranghellini	Bettancourt	3000

DWELLINGS

(565) E ARDENWOOD 211 N Sloat; five 1-story and basement frame dwellings.
Owner—Standard Bldg. Co., 218 Castenada.
Architect—Not Given. \$3500 each

ALTERATIONS

(566) E DOUGLASS 210 N 17th; alter dwelling.
Owner—Nat Ferrario, 45 Douglass.
Architect—Not Given.
Contractor—J. Ragni, 443 Bellevue, Daly City. \$2150

DWELLING

(567) SE CONNECTICUT 425 S 20th; 1-story and basement frame dwelling.

Owner—G. Stanghellini, 533 Connecticut Street.
Architect—Not Given.
Contractor—J. Bettancourt, San Bruno. \$3000

ALTERATIONS

(568) NO. 50 HAYES ST., Alter market.
Owner—G. E. Hart, 109 Davis St., San Francisco.
Architect—Not Given.
Contractor—L. Johnson, 666 Mission St., San Francisco. \$1000

REPAIRS

(569) NO. 2730 PIERCE ST. Repair fire damage to dwelling.
Owner—J. E. Birmingham, 2730 Pierce St., San Francisco.
Architect—Farr & Ward, 68 Post St., San Francisco. \$2000

REPAIRS

(570) NO. 3630 TWENTIETH ST. Repair fire damage to flats.
Owner—C. Schroeder, 3600 20th St., San Francisco.
Architect—Not Given.
Contractor—F. Lindgren, 77 Ramona Ave., San Francisco. \$2000

ALTERATIONS

(571) NO. 801 MARKET ST. Alter store.
Owner—Feltman & Curme, Premises.
Architect—Kanner & Brandner, North Hollywood. \$3000

APARTMENTS

(572) W PIERCE 110 N McAllister. Three-story and basement frame (17) apartments.
Owner—Patrick Horgan, 915 Pierce St., San Francisco.
Architect—Irvine & Ebbets, 2048 Market St., San Francisco. \$35,000

DWELLING

(573) S MARINA BLVD. 397 NE Beach. One-story and basement frame dwelling.
Owner—Rothschild Bros., 41 Sutter St., San Francisco.
Architect—Not Given. \$4000

ADDITION

(574) NO. 1624 LANE ST. Addition to dwelling.
Owner—J. Allan, 1624 Lane St., San Francisco.
Architect—Not Given.
Contractor—S. Douglas, 2491 29th Ave. San Francisco. \$1950

FLATS

(575) S JEFFERSON ST. 100 Webster. Two-story and basement frame (2) flats.
Owner—Mr. and Mrs. M. Desiano, 3117 Fillmore St., San Francisco.
Architect—H. C. Baumann, 251 Kearney St., San Francisco. \$6500

DWELLING

(576) E CONNECTICUT ST. 425 S Twentieth Street. One-story and basement frame dwelling.
Owner—G. Stanghellini, 533 Connecticut St., San Francisco.
Architect—Not Given.
Contractor—J. Bettancourt, 422 San Anselmo Ave., San Bruno. \$3000

ALTERATIONS

(577) NE POST AND TAYLOR Adj. Bohemian Club. Alter public garage.

Owner—Bohemian Club, Sir Francis Drake Hotel.
Architect—W. P. Day, Financial Center Bldg., San Francisco.
Contractor—D. and J. Sullivan. \$7000

DWELLING

(578) W ALEMANY 113 S Cotter St. One-story and basement frame dwelling.
Owner—V. Reilly, 450 Vicksburg St., San Francisco.
Plans by B. K. Dobkowitz, 425 Monterey Blvd., San Francisco.
Contractor—R. F. Galli, 1574 28th Ave. San Francisco. \$5000

STORES

(579) W NINTH 166 S Mission St. One-story Class C stores.
Owner—L. Meyers, 68 Post St., San Francisco.
Architect—Hyman & Appleton, 68 Post St., San Francisco.
Contractor—Jacks & Irvine, Call Bldg. San Francisco. \$11,500

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
310	Bischoff	Owner	3900
311	Druhe	Walker	7000
312	Associated	Michel	2500
313	Christensen	Anderson	3000
314	Mills	Owner	17000
318	Foulger	Pickrell	5000
315	Weeks	Westlund	29270
316	Capistrano	Lynn	1000
317	Henrickson	Owner	1000
319	Newton	Pickrell	2000
320	Prdeaux	Owner	1000
321	Ballachey	Owner	3000
322	Morris	Owner	1200
323	Uroh	Owner	3500
324	Glori	Deluchi	3000
325	Dean	Owner	2000
326	Dean	Owner	1500
327	Oakland	Muller	4500
328	Syndicate	Leekins	5890
329	Gouig	Legault	2000
330	Hellberg	Willisrga	4600
331	Borgeson	Armstrong	4800
332	Durkee	Owner	2800
333	Heard	Shaw	1000
334	Greene	Hughes	1500

DWELLING

(310) NE CHABOT CREST AND Manor Crest, OAKLAND. Two-story six-room dwelling.
Owner—John A. Bischoff, 2717 Russell St., Oakland.
Architect—Not Given. \$3900

DWELLING

(311) NO. 1530 CAMPUS DRIVE. BERKELEY. Two-story 7-room frame dwelling and garage.
Owner—E. W. Druhe, 1809 Vine St., Berkeley.
Architect—Howard E. Burnett, Oakland.
Contractor—J. M. Walker, 1709 Grove St., Berkeley. \$7000

BUILDING

(312) ASHBY AVE., 140 ft. east of Claremont Ave., BERKELEY; 1-story 4-room steel building.
Owner—Associated Oil Co., 79 New Montgomery St., San Francisco.
Plans by Owner.
Contractor—Michel and Pfeffer, San Francisco, and C. Norman Peterson, Oakland. \$2500

DWELLING
 (313) 429 ELWOOD, OAKLAND; one-story 6-room dwelling.
 Owner—A. C. Christensen.
 Architect—Not Given.
 Contractor—Chas. Anderson, 3917 Park Blvd., Oakland. \$3000

ADDITION
 (314) MILLS COLLEGE CAMPUS, OAKLAND; one-story 5-room addition to art gallery.
 Owner & Builder—Mills College, Oakland.
 Architect—Not Given. \$17,000

STORE
 (315) 2266-70-74 TELEGRAPH AVE., BERKELEY; 2-story three-room store building.
 Owner—Anna B. Weeks, Trail, Ore.
 Architect—Stafford L. Jory, 1370 Euclid Ave., Berkeley.
 Contractor—F. J. Westlund. \$29,270

REPAIRS
 (316) 1864 CAPISTRANO, BERKELEY; repair fire damage.
 Owner—A. F. Rice, 1864 Capistrano, Berkeley.
 Architect—Not Given.
 Contractor—W. F. Lynn, 1037 Ashmont Ave., Oakland. \$1000

DWELLING
 (317) 1624 73rd AVE., OAKLAND; 1-story 3-room dwelling.
 Owner and Builder—A. Henrickson, 1616 73rd Ave., Oakland.
 Architect—Not Given. \$1000

DWELLING
 (318) NO. 2953 SOUTHWOOD DRIVE ALAMEDA. One-story 7-room frame dwelling.
 Owner—B. L. Foulger, 328 Santa Clara Ave., Alameda.
 Architect—Not Given.
 Contractor—J. H. Pickrell, 332 Santa Clara Ave., Alameda. \$5000

DWELLING
 (319) NO. 1424 CHESTNUT STREET, ALAMEDA. One-story three-room dwelling.
 Owner—W. E. Newton, 1426 Chestnut St., Alameda.
 Architect—Not Given.
 Contractor—J. H. Pickrell, 332 Santa Clara Ave., Alameda. \$2000

GARAGE
 (320) NO. 728 EUCLID AVE., BERKELEY. Two-story frame garage and office building.
 Owner—W. Pridaux, Premises.
 Architect—Not Given. \$1000

ADDITION
 (321) NO. 4632 TELEGRAPH AVE., OAKLAND. Addition to frame building.
 Owner—L. P. Ballachey, Premises.
 Architect—Not Given. \$3000

SHED
 (322) NO. 3010 ELMWOOD STREET, OAKLAND. Concrete shed.
 Owner—Morris Draying Co., First and Webster Sts., Oakland.
 Architect—Not Given. \$1200

DWELLING
 (323) NO. 3251 MORCOM AVENUE, OAKLAND. One-story six-room dwelling.
 Owner—Ernest W. Urch, 1924 50th Ave., Oakland.
 Architect—Not Given. \$3500

ADDITION
 (324) NO. 1325-31 FOURTEENTH ST., OAKLAND. Addition.
 Owner—G. Giori, 1370 14th St., Oakland.
 Architect—Not Given.
 Contractor—P. Deluchi & Son, 5443 Claremont Ave., Oakland.

BUILDING
 (325) NO. 2606 TELEGRAPH AVE., BERKELEY. One-story one-room Class C building.
 Owner—J. P. Dean and R. Bradshaw, 2500 Benvenue Ave., Berkeley.
 Architect—Not Given. \$2000

BUILDING
 (326) NO. 2600 TELEGRAPH AVE., BERKELEY. One-story one-room Class C building.
 Owner—J. P. Dean and R. Bradshaw, 2500 Benvenue Ave., Berkeley.
 Architect—Not Given. \$1500

LIBRARY
 (327) NO. 724 FOURTEENTH ST., OAKLAND. Class C library.
 Owner—Oakland Jewish Federation, Premises.
 Architect—Not Given.
 Contractor—F. A. Muller, Syndicate Bldg., Oakland. \$4500

DWELLING
 (328) W CHELTON DRIVE 150 N Scarborough St., OAKLAND. Two story 7-room dwelling.
 Owner—Syndicate Idora Co., Oakland Bank Bldg., Oakland.
 Architect—Not Given.
 Contractor—C. W. Leekins. \$5590

ADDITION
 (329) NO. 1745 E-FOURTEENTH ST., OAKLAND. Addition.
 Owner—Auguste Gouig, 1745 E-14th St., Oakland.
 Architect—Not Given.
 Contractor—O. Legault. \$2000

DWELLING
 (330) 2808 LINCOLN AVE., ALAMEDA; two-story 6-room frame and stucco dwelling.
 Owner—E. H. Hellberg, 1538 Sherman St., Alameda.
 Plans by Owner.
 Contractor—Lawrence Willsga, 1538 Sherman St., Alameda. \$4600

DWELLING
 (331) NO. 6100 CONTRA COSTA RD., OAKLAND. One-story five-room dwelling.
 Owner—C. J. Borgeson, 1187 Keeler Ave., Oakland.
 Plans by Ray F. Keefer.
 Contractor—J. R. Armstrong, 1131 Fleet Road, Oakland. \$4800

TANK
 (332) NO. 2900 FIFTH ST., BERKELEY. Steel tank for cotton seed oil.
 Owner—Durkee Famous Foods.
 Architect—Not Given. \$2800

ALTERATIONS
 (333) NO. 19 BRIDGE ROAD, BERKELEY. Alterations and additions.
 Owner—B. B. Heard, Premises.
 Architect—Not Given.
 Contractor—A. W. Shaw, 5401 Broadway, Oakland. \$1000

REMODEL
 (334) NO. 35 STONWALL ROAD, OAKLAND. Remodel residence and garage.
 Owner—Dr. L. L. Greene, Premises.
 Architect—Not Given.
 Contractor—Rodney Hughes Co., 2221 Shattuck Ave., Berkeley. \$1500

**BUILDING CONTRACTS
 SAN FRANCISCO COUNTY**

No.	Owner	Contractor	Amt.
111	Healy	Andersen	5380
112	Weinstein	Rodoni	5382
113	Same	Jacks	33766
114	Same	Automatic	2695
115	Same	Atlas	4730
116	Same	Jacks	1100
117	Schroeder	Lindgren	2590
118	Reilly	Galli	5300

119	Bigheri	Deslano	2680
120	Levin	Petersen	16250

RESIDENCE
 (111) W THIRTY-FOURTH AVE 375 N Taraval N 25xW 120 OL 1136.
 All work for one-story and basement frame residence.
 Owner—Joseph B. and Lenore Healy, 584 Sanchez St., San Francisco.
 Architect—Charles F. Strothoff, 2274 15th St., San Francisco.
 Contractor—Charles Andersen, 146 Granville St., San Francisco.
 Filed July 28, '33. Dated July 28, '33.
 Frame completed\$1345
 Brown coat plaster on 1345
 Building completed 1345
 Usual 35 days 1345
TOTAL COST, \$5380
 Bond, \$2690. Surety, United States Fidelity & Guaranty Co. Limit, 90 days. Forfeit, none. Plans and specifications filed.

STORE BLDG.
 (112) S MARKET 300 W Sixth W 25 xS 90. Plumbing, heating and ventilating for seven-story department store.
 Owner—Isidor Weinstein Investment Co., 1037 Market St., S. F.
 Architect—Hyman & Appleton, 68 Post St., San Francisco.
 Contractor—Rodoni-Becker Co., 455 Tenth St., San Francisco.
 Filed July 28, '33. Dated July 26, '33.
 10th of each month 75%
 Completion, balance to 75% of contract price
 Usual 35 days 25%
TOTAL COST, \$5382
 Bond, \$5382. Surety, Maryland Casualty Co. Limit, forfeit, none. Plans and specifications, filed.

(113) GENERAL CONSTRUCTION on above and wrecking, excavating etc.
 Contractor—Jacks & Irvine, 74 New Montgomery St., San Francisco.
 Filed July 28, '33. Dated July 17, '33.
 Payments same as above.....
TOTAL COST, \$33,766
 Bond, none. Limit, 65 days (1st and 2nd floors in 45 days). Forfeit, none. Plans and specifications filed.

(114) SPRINKLER SYSTEM ON above.
 Contractor—Automatic Fire Protection Co., 519 California St., San Francisco.
 Filed July 28, '33. Dated July 19, '33.
 Payments same as above.....
TOTAL COST, \$2695
 Bond, none. Limit, 60 days. Forfeit, none. Plans and specifications filed.

(115) ELECTRIC WORK ON ABOVE
 Contractor—Atlas Electric & Engr. Corp., 343 Fourth St., San Francisco.
 Filed July 28, '33. Dated July 24, '33.
 Payments same as above.....
TOTAL COST, \$4730
 Bond, limit, forfeit, none. Plans and specifications filed.

(116) REMOVAL OF BRICK AND concrete walls between buildings B and C and repairing plaster walls on above.
 Contractor—Jacks & Irvine, 74 New Montgomery St., San Francisco.
 Filed July 28, '33. Dated July 20, '33.
 Payments same as above.....
TOTAL COST, \$1100
 Bond, none. Limit, 65 days. Forfeit, none. Plans and specifications filed.

ALTERATIONS
 (117) NO. 3630-3630-A TWENTIETH St. All work for alterations to 1-story and basement frame flat building.
 Owner—Claus & Dorethea Schroeder, 3600 20th St., San Francisco.
 Architect—Chas. F. Strothoff, 2274 15th St., San Francisco.

Contractor—J. Fred Lindgren, 77 Ramona St., San Francisco.
 Filed July 31, '33. Dated July 27, '33.
 On or about 10 of ea. month.... 75%
 On completion a sum sufficient to
 increase the total payments to 75%
 Usual 35 days.....\$647.50
TOTAL COST, \$2590.00
 Bond, \$1295. Sureties, Arvid W. Lindgren and Wm. Hahn. Limit, 60 days. Forfeit, none. Plans and specifications filed.

BUNGALOW

(118) W ALEMANY BLVD. 113 more or less S Cotter 28x104. All work for one patio plan 5-room bungalow.
 Owner—Mr. and Mrs. Vincent Reilly, 450 Vicksburg St., S. F.
 Architect—B. K. Dobkowitz, 425 Monterey St., San Francisco.
 Contractor—R. F. Galli, 1900 Hyde St., San Francisco.
 Filed July 31, '33. Dated July 29, '33.
 Work actually started.....\$ 250
 Tar and gravel roof on..... 1200
 First coat plaster on..... 1200
 Building completed 1200
 Usual 35 days..... 1450
TOTAL COST, \$5300
 Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.

APARTMENTS

(119) NO. 160 PARKER AVE. All heating work for three-story and basement frame (12) apartments.
 Owner — J. and Maria Biglerl, 166 Parker Ave., San Francisco.
 Architect—Italo Zanolini, 2048 Market St., San Francisco.
 Contractor—Michael Desiano, 183 Lee Ave., San Francisco.
 Filed July 31, '33. Dated July 28, '33.
 Rough piping, oil storage tank and oil suction line installed.....\$670
 Boiler installed 670
 When completed 670
 Usual 35 days..... 670
TOTAL COST, \$2680
 Bond, none. Limit, 120 days. Forfeit, plans and specifications, none.

MARKET BLDG.

(120) W POLK 137-6 N Broadway N 68-9xW 100. All work for entire completion of market building.
 Owner—Samuel H. Levin, 25 Taylor St., San Francisco.
 Engineer—H. S. Britt, 366 17th St., Oakland.
 Contractor—H. L. Petersen, Polk and Grove Sts., San Francisco.
 Filed Aug. 2, '33. Dated July 24, '33.
 Concrete work in place ready to receive roof trusses.....\$4062
 Brown coat plaster on..... 4062
 When completed 4062
 Usual 35 days..... 4064
TOTAL COST, \$16,250
 Bond, \$8125. Sureties, John Bender and D. J. Sullivan. Limit, 54 days. Forfeit, plans and specifications none.

ALAMEDA COUNTY

43 Struble	Meek	3218
44 Barr	Shain	8486
45 Cook	Armstrong	8195
46 Syndicate	Leekins	5890

RESIDENCE

(43) LOTS 34 AND 35, Pinedale Court Hayward. All work for residence.
 Owner—Adelaide D. Struhle, Pinedale Court, Hayward.
 Architect — George P. Simonds, 261 Main St., Hayward.
 Contractor—Jacob Meek, San Leandro
 Filed July 31, '33. Dated July 31, '33.
 5th day after roof completed.....\$800
 5th days after plastering completed 800
 5th day after substantial completion 800
 Usual 35 days..... 818
TOTAL COST, \$3218
 Bond, none. Limit, 75 days. Forfeit,

none. Plans and specifications filed.

RESIDENCE

(44) LOT 40 AND ½ LOT 41, Broadmoor Park, San Leandro. All work for two-story 10-room residence and garage.
 Owner—M. A. Barr, 831 Lee St., San Leandro.
 Architect—Chas. McCall, 1404 Franklin St., Oakland.
 Contractor—H. S. Shain, 54 Arlette Ave., Hayward.
 Filed July 31, '33. Dated July 21, '33.
 5th day of each month, 75% of value inc. up to 25th of preceding month
 At completion sum sufficient to increase total payments to 70% provided no liens are filed.....
 5% acceptance payments when completed to satisfaction of architect and owner
 Usual 35 days, balance.....
TOTAL COST, \$8486.50
 Bond, \$4243.25. Surety, American Employers Ins. Co. Limit, 120 days. Forfeit, \$2 per day. Plans and specifications filed.

RESIDENCE

(45) LOT 6 BLK B, Edgemont Tract, Piedmont. All work for two-story frame residence and garage.
 Owner—Lew Cook, Piedmont.
 Architect—Miller & Warnecke, Financial Center Bldg., Oakland.
 Contractor—J. R. Armstrong, Oakland
 Filed Aug. 1, '33. Dated Aug. 1, '33.
 Floor joists in place.....\$1639
 Ready for lath and plaster..... 1639
 Inside trim delivered for installation 1639
 When completed 1639
 Usual 35 days..... 1639
TOTAL COST, \$8195
 Bond, \$8195. Surety, Fidelity & Casualty Co. of New York. Limit, 100 days. Forfeit, none. Plans and specifications filed.

DWELLING

(46) LOT 2285, Piedmont Pines, Oakland. All work for two-story frame dwelling and garage.
 Owner—Syndicate Idora Co., Ltd.
 Architect—Miller & Warnecke, Financial Center Bldg., Oakland.
 Contractor—C. W. Leekins, 1757ausal Road, Oakland.
 Filed Aug. 1, '33. Dated July 26, '33.
 Frame completed\$1472.50
 Brown coated 1472.50
 Completed and accepted..... 1472.50
 Usual 35 days..... 1472.50
TOTAL COST, \$5890.00
 Bond, \$5890. Surety, Fidelity & Casualty of New York. Limit, 90 days. Forfeit, none. Plans and specifications filed.

SAN FRANCISCO UNDER \$1000

SIGN, electric, \$200; 962 Market St.; Owner, Rainbow Tavern, Prem.; contractor, Elec. Prod. Corp., 255 Golden Gate Ave.
 SIGN, electric, \$200; 225 Hyde St.; owner, Hotel La Salle, 225 Hyde St.; contractor, Elec. Prod. Corp., 225 Golden Gate Ave.
 ALTER flats, \$350; 254 Ivy St.; owner, Mrs. L. Scanauno, Premises.
 SIGN, cloth, \$20; 45 Powell St.; owner, J. Fremontan, 127 Ellis St.
 ALTER flats, \$80; 1149-1151 Hyde St.; owner, George Shrider, 1151 Hyde St.
 SIGN, electric, \$250; 198 4th St.; owner, Alex. Tasloff Tavern, Premises contractor, Elec. Prod. Corp., 255 Golden Gate Ave.
 ALTER flats, \$200; 1908-1908½ Green St.; owner, Mrs. M. R. Coghlan, 1908 Green St.; contractor, De Luca & Son, Inc., 1745 Filbert St.
 ALTER dwelling, \$300; 212 Raymond Ave.; owner, Mrs. A. Van Dyk, 212 Raymond Ave.

ALTER dwelling, \$200; 273 Green St.; owner, F. Briano, 273 Green St.
 SIGN, cloth, \$20; 127 Ellis St.; owner, J. Fremontan, Premises.
 ALTER dwelling, \$75; 221 Magellan Ave.; owner, Y. Stange, Premises.
 ALTER offices, \$500; 444 California St. owner, Liverpool, London & Globe Ins. Co., 201 Sansome St.; contractor, Vincent-Whitney.
 GARAGE under dwelling, \$200; 2631 Baker St.; owner, A. Figone, 2631 Baker St.

ALAMEDA COUNTY UNDER \$1000

ALTER residence, \$750; 2626 Santa Clara Ave., Alameda; owner and contractor, Mrs. F. Cook, 2624 Santa Clara Ave., Alameda.
 ALTER residence, \$600; 604 Lincoln Ave., Alameda; owner, John Neild 3940 Randolph Ave., Oakland; contractor, L. Cook, 2228 Pacific Ave., Alameda.
 SIGN, electric, \$250; 1444 Franklin St., Oakland; owner, Charles S. Cherry, Premises; contractor, Elec. Prod. Corp., 950 13th St.
 SIGN, electric, \$200; 1444 Franklin St., Oakland; owner, Charles S. Cherry, 1444 Franklin St.; contractor, Elec. Prod. Corp., 950 13th St., Oakland.
 MOVE and raise building, \$250; 5914 Brann St., Oakland; owner, A. W. Perkins, 1955 Courtland Ave.
 FIRE repairs, \$350; 100 Ninth St., Oakland; owner, Alameda Investment Co., 1522 Franklin St.; contractor, W. F. Lynn, 1037 Ashmount Ave.
 ALTERATIONS, \$150; 700 Franklin St., Oakland; owner, Walter Johnson, Emeryville; contractor, Pekin Low, 706 Franklin St.
 ADDITION, \$300; 1240 Bates Road, Oakland; owner, Mrs. M. Irving, 1240 Bates Road; contractor, J. R. Armstrong, 1131 Fleet Road.
 ADDITION, \$250; 2126 St. Jarleth St. Oakland; owner, A. G. Starr, Prem
 REROOF and repairs, \$200; 3021 Brook St., Oakland; owner, Wells Fargo Bank and Union Trust Co., Market and Montgomery Sts., San Francisco; contractor, Angelo & Aiasso, 2819 Linden St.



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A welcoming room... an enterprising chef... a Union Square location (and that says volumes if you know your San Francisco) ... These are among the Plaza features that will brighten the days of your visit here + +

RATES: \$2 to \$4

RAY MAXWELL, Manager

HOTEL PLAZA
 POST STREET AT STOCKTON
 SAN FRANCISCO

BUILDING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

- | | |
|---------------------------------|---|
| 1.—Apartments | Offices |
| 2.—Bands | 11.—Ice and Cold Storage Plants |
| 3.—Churches | 12.—Power Plants |
| 4.—Factories and Warehouses | 13.—Public Buildings, Fire Houses and Jails |
| 5.—Flats | 14.—Residences |
| 6.—Garages and Service Stations | 15.—Schools |
| 7.—Federal Buildings | 16.—Banks, Stores and |
| 8.—Club Buildings | 17.—Theatres |
| 9.—Hospitals | 18.—Wharves & Docks |
| 10.—Hotels | 19.—Misc. Const. |
| | 20.—Misc. Supplies & Materials |

1—APARTMENTS

Heating Contract Awarded.
APARTMENTS Cost, \$25,900
SAN FRANCISCO. E Parker Ave. 15 N Geary Street.
 Three-story and basement frame and stucco apartments (12 4-rm. apts.) steel sash, separate showers, glass doors, Erskine radiators, individual electric refrigerators, canvas walls. Owner—G. Biglieri, % architect.
 Architect—Italo Zanolini, 604 Montgomery Street.
 Contractor—Fracchia & Truffelli, 2450 Chestnut Street.
 Heating—Michael Desiano, 183 Lee Ave., \$2,680.

Segregated Bids Being Taken.
APARTMENTS Cost, \$50,000
SAN FRANCISCO. W Pierce St., 110 N McAllister Street.
 Three-story and basement frame and stucco apartments (15 2- and 3-room apts.) composition ten-year roof, 18-car garage, gas-steam heating plant, elevator, individual electric refrigeration, canvas walls hardwood floors, tiled baths and showers, electric ranges, etc.
 Owner—Patrick Horgan, 915 Pierce St., San Francisco.
 Architect—Irvine & Ebbets (R. R. Irvine, Architect), 2048 Market St., San Francisco.

2—BONDS

LONG BEACH, Los Angeles Co., Cal.—The Long Beach Board of Education has set August 29 (previously noted August 22) to vote on a \$4,930,000 bond issue for rehabilitation of public schools. Three ballots will be voted on as follows:
 (1) \$3,000,000 for elementary schools;
 (2) \$1,830,000 for high schools;
 (3) 100,000 for junior college.

3—CHURCHES

Preparing Preliminary Plans.
CHURCH Cost, \$15,000
CRESCENT CITY, Del Norte Co., Cal. One-story reinforced concrete church (to seat 275).
 Owner—Roman Catholic Archbishop (Father Nolan, Pastor), Crescent City.
 Architect—Harry Devine, California State Life Bldg., Sacramento.
 Additional Contracts Awarded.
REBUILD Cost, \$8500
SAN FRANCISCO. 2475 California St. Rebuild structure recently destroyed by fire for frame gymnasium.
 Owner—St. Paul's Episcopal Church (Rev. Leslie C. Kelly, pastor).

Architect—Arnold Constable, 580 Market Street.
 Painting—Lee Dixon, 18 Eureka St.
 Plastering—S. M. Shimon, 26 Fairfield Way.
Flooring—Masonrite Corp., 7 Front St. As previously reported, roofing contract awarded to J. W. Bender Roofing and Paving Co., 18th and Bryant Sts.; wall paneling to Western Asbestos Magnesia Co., 675 Townsend St.; mill work to J. A. Hart Mill and Lbr. Co., Jerrold and Napoleon Sts.; carpentry to Anton Lee & Co.; plumbing to Dowd & Welch, 3558 16th St.; electric to Electric Lite House, 1428 Haight St.; iron to Mortenson Const. Co., 608 Indiana St.

4—FACTORIES & WAREHOUSES

BERKELEY, Alameda Co., Cal.—E. T. Lesure, 87 Ross Circle, Oakland, awarded the following sub-contracts in connection with the construction of the new wet-mix plant under construction at 9th and Ashby Avenues, Berkeley, for the Chas. S. Hughes Company:
Roofing—General Roofing Co., 3985 Beach St., Oakland.
Electric Equip.—Matson-Seabrooke Co., 4115 Broadway, Oakland.
Plumbing—W. H. Picard, Inc., 5656 College Ave., Oakland.
Painting—Spaan Bros., 2145 Ward St., Berkeley.
Hardware—Maxwell Hdwe. Co., 1320 Washington St., Oakland.
 Other awards reported July 8.

TURLOCK, Stanislaus Co., Cal.—Fire destroyed the plant owned by Osborn & Son at Main and Center Sts., July 28. Damage estimated at \$100,000. Loss covered by insurance.

Plans Being Prepared.
WAREHOUSE Cost, \$—
IRVINGTON, Alameda Co., Cal. One-story steel frame warehouse (50x120 ft.) asphalt flat roof, concrete floors, etc.
 Owner—Jackson & Perkins, Irvington. Plans by Owner.
 Bids will be asked at a later date.

Sheet Metal Bids Being Taken.
FACTORY Cost, \$750,000
OAKLAND, Alameda Co., Cal. Foot of Adeline St. on the estuary. Steel frame and conc. cocoonant products factory (650x100 feet) steel frame and reinf. concrete warehouse (40x146 ft.) pile foundations, flat slab floor, corrugated iron roof and siding.
 Owner—El Dorado Oil Works, Third and University Ave., Berkeley.
 Engineers—Ellison & Russell, Pacific Bldg., San Francisco.

As previously reported, erection of structural steel bids are being taken and will be opened August 1.

OAKLAND, Cal.—J. H. Fitzmaurice, 2857 Hannah St., Oakland, at \$12,496 awarded contract by City of Oakland Port Commission for repairs to floors in unit three in Terminal Building "B", Outer Harbor, Oakland.

Plans Being Prepared.
FACTORY Cost, \$200,000
SAN JOSE, Santa Clara Co., Calif. Eighth and Taylor Streets. Can factory.
 Owner—Continental Can Co. 155 Montgomery St., San Francisco.
 Plans by Austin Co. of California, 1924 Broadway, Oakland.

Further details will be announced shortly.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$1500
EMERYVILLE, Alameda Co., Calif. 65th and Bay Streets. Alterations to warehouse. Owner—Peterson Tallow Co., 65th and Bay Sts., Oakland.
 Plans by Owner.
 Contractor—S. G. Johnson, 4652 Dolores St., Oakland.
Brick—Herschel & Reinecke, 830 East 11th St., Oakland.
Concrete—J. H. Fitzmaurice, 354 Hobbart St., Oakland.

Plans Being Prepared.
MFG. PLANT Cost, \$750,000
VERNON, Los Angeles Co., Cal. Five Acre Site. New manufacturing plant. Owner—Cereal Products Refining Corp. (Samuel A. Clarke, President), 762 Fulton St., San Francisco.
 Architect—Not Given.

Revised Plans Being Completed.
CREAMERY Cost, \$18,000
SAN FRANCISCO. Stockton St. and Card Alley. Two-story and basement wood frame and stucco creamery (61x113 feet) Owner—L. Giannone, 225 Columbus Ave., San Francisco.
 Plans by Peter Canali, 65 Columbus Ave., San Francisco.
 Lessee—Sonoma Mission Creamery. Bids will be asked within a few days.

Sub-Contracts Awarded.
WAREHOUSE Cont. Price, \$3734
SAN FRANCISCO. Stillman St. near Fourth Street. One-story reinforced concrete warehouse (20x80 feet) concrete floors, tar and gravel roof, steel sash, steel rolling doors, skylights, etc. Owner—Schloss Manufacturing Co. Architect—Chas. E. J. Rogers, Phelan Building.
 Engineer—W. Adrian, 417 Market St. Contractor—Clinton Stephenson Construction Co., 550 Montgomery St.
Lumber—J. H. McCallum Lumber Co., 748 Bryant Street.
Steel Sash—Soule Steel Co., 1750 Army Street.
Reinforcing Steel—Gunn, Carle & Co., 20 Potrero Avenue.
Concrete—Readymix Conc. Co., Carolina and Mariposa Sts.
Glass—Crowe Glass Co., 675 Golden Gate Avenue.
Sheet Metal—Castler Sheet Metal Works, 1374 15th Avenue.
Steel Rolling Doors—Christensen and Co., 557 Market St.

5—FLATS

Contract Awarded.
FLATS Cost, \$5000
SAN FRANCISCO. E Treat Ave. 150 S 23rd St. Two-story and basement frame and stucco flats (2 flats).
 Owner—C. Kollerer, 1041 Treat Ave. Architect—Not Given.
 Contractor—The Ruegg Co., 369 Pine Street.

Plans Being Prepared.
SERVICE STATION Cost, \$—
SAN FRANCISCO. Seventeenth and Dolores Streets. Steel Service station. Owner—Standard Oil Co., 225 Bush St., San Francisco.
 Plans by Engineering Dept. of Owner.

Contract Awarded.
SERVICE STATION Cost, \$3000
BERKELEY, Alameda Co., Cal. Ashby
 Ave. 140 E Claremont Ave.
 One-story steel service station.
 Owner—Associated Oil Co., 79 New
 Montgomery St., San Francisco.
 Plans by Engr. Dept. of Owner.
 Contractor—Michel & Pfeiffer Iron
 Works, Harrison and 10th Streets,
 San Francisco.

Owner Taking Bids.
FLATS Cost, \$9000
SAN FRANCISCO, S Jefferson St.
 100 W Webster St.

Two-story and basement frame and
 stucco flats (2 6-room flats); com-
 position and part tile roof, steam
 heating plant, cement plaster,
 canvas walls, hardwood floors, tiled
 baths, etc.

Owner—M. Desiano, 3117 Fillmore St.,
 San Francisco.
 Architect—H. C. Baumann, 251 Kear-
 ny St., San Francisco.

Contract Awarded.
FLATS Cost, \$14,000
SAN FRANCISCO, Thirtieth and Do-
 lores Streets.

Two two- and three-story frame and
 stucco flats (2 4-room, 1 5-room
 and 1 6-room flats) tile and com-
 position roof, gas heating system,
 oak floors, canvas ceilings, tiled
 baths, colored fixtures, etc.

Owner—C. Schroeder.
 Architect—Chas. Strothoff, 2274 15th
 Street.
 Contractor—Fred Lindgren 77 Ramona
 Street.

6—GARAGES & SERVICE STATIONS

Sub-Contracts Awarded.
SERVICE STATION Cost, \$3000
OAKLAND, Alameda Co., Calif. SW
 School St. and Coolidge Ave.

One-story brick service station and
 one-story brick super-service sta-
 tion.

Owner—F. Jacklich, 110 Ray Building,
 Oakland.

Architect—Not Given.
 Contractor—J. H. Farman, 110 Ray
 Bldg., Oakland.

Roofing—Western Roofing Co., 24th &
 Poplar Sts., Oakland.

Electric—Spot Electrical Co., 2815
 Broadway, Oakland.

Steel Work—Herrick Iron Works, 18th
 and Campbell Sts., Oakland.

Equipment—Victor Welding Equip-
 ment Co., 844 Folsom Street, San
 Francisco.

Millwork—Oakland Lumber Co., 6901
 E 14th St., Oakland.

Concrete—Nat Lena, 1174 19th Street,
 Oakland.

To Ask Bids Within A Few Days.
SERVICE STATION Cost, \$—
SAN FRANCISCO, Seventeenth and
 Dolores Streets.

Steel Service Station.
 Owner—Standard Oil Co., 225 Bush
 St., San Francisco.
 Plans by Engineering Dept. of Owner.

Contract Awarded.
SERVICE STATION Cost, \$5000
SAN FRANCISCO, NW Pine and
 Larkin Streets.

Steel frame service station.
 Owner—Standard Oil Co., 225 Bush
 St., San Francisco.

Plans by Engineering Dept. of Owner.
 Contractor—J. A. Grant, 666 Mission
 St., San Francisco.

Sub-Bids Being Taken.
SERVICE STATION Cost, \$—
OAKLAND, Alameda Co., Calif. 6100
 Telegraph Avenue.

One-story brick service station.
 Owner—G. Del Fava, Ray Bldg., Oak-
 land.

Architect—Not Given.
 Contractor—Charles Ungaretti, 1727
 Foothill Blvd., Oakland.

Sub-bids are being taken on cement
 work, plumbing, electrical work, steel
 and lumber.

7—FEDERAL BUILDING

WASHINGTON, D. C.—Until Aug-
 9, 2 P. M., bids will be received by
 Treasury Department, Washington,
 D. C., for painting the plaster, etc., in
 the U. S. Post Office in Santa Ana,
 Calif. Plans and specifications avail-
 able from above office.

WASHINGTON, D. C.—Severin
 Electric Co., 172 Clara St., San Fran-
 cisco, at \$3111 awarded contract by
 Treasury Department for special in-
 terior lighting fixtures in the U. S.
 Post Office, San Francisco.

WASHINGTON, D. C.—Following
 have procured plans for the purpose
 of submitting bids to the Treasury
 Department on August 11 for remodel-
 ing the Resident Officers' Quarters at
 the U. S. Marine Hospital, Seattle,
 Washington:

Western Constr. Co., 1404 Textile
 Tower, Seattle, Wash.

Wm. Wills, 1529 18th Ave., W.,
 Seattle, Wash.

West Coast Constr. Co., Lloyd Bldg.,
 Seattle, Wash.

Warrack Constr. Co., McDowell
 Bldg., Seattle.

Peded P. Gjarde, Lyon Bldg., Seat-
 le, Wash.

Johnson Bros., Inc., Lloyd Bldg.,
 Seattle, Wash.

Wm. J. Stolz, Morris Heights St.,
 New York City.

W. G. Clark, 408 Aurora Ave., Seat-
 tle, Washington.
 (2160) 1st report July 18, 1933 7

SAN FRANCISCO—Linder Sales Co.
 Timber, Ore., at \$5,625 submitted low
 bid to U. S. Forest Service for 9000
 bundles of redwood and redwood cedar
 shingles. Following bids received:

Linder Sales Co., \$5,625 f.o.b. Tim-
 ber, Oregon.

E. K. Wood Lbr. Co., Oakland, \$5,-
 665 f.o.b. Weimar, Ore., and Delama,
 Wash.

McCormick Supply Co., Linnton, Or-
 egon, \$5,805 f.o.b. Linnton.

Laybold-Smith Shingle Co., Tacoma
 \$5,805 f.o.b. Tacoma.

Crescent Shingle Co., Kelso, \$5,850
 f.o.b. Kelso.

J. R. Hanify, San Francisco, \$5,850
 f.o.b. Milwaukee, Ore.

W. L. Feely Lbr. Co., Port Angeles
 \$5,850 f.o.b. San Francisco and Port
 Angeles.

Chas. Nelson Co., San Francisco, \$6-
 075 f.o.b. Seattle, Wash.

Jamison Lbr. Co., Ltd., Everett,
 Wash., \$6,075 f.o.b. Everett.

Santa Fe Lbr. Co., San Francisco,
 \$6,536 f.o.b. Four Points Spec.

Morrill & Sturgeon Lbr. Co., Port-
 land, \$6,866.

Chas. McCormick Lbr. Co., San Fran-
 cisco, \$7,402 f.o.b. San Francisco.

Hammond Lbr. Co., San Francisco
 bid \$2.60 and \$2.90 per square f.o.b.
 Eureka and San Francisco.

Bids held under advisement.

SAN FRANCISCO—Following were
 awarded contracts by the U. S. For-
 est Service for 346 ready-cut frame
 buildings:

E. K. Wood Lbr. Co., 1 Drumm St.,
 San Francisco.

Aladdin Co., Portland, Ore.

Hammond Lbr. Co., Alaska Com-
 mercial Bldg., San Francisco.

Pacific Systems Home, 5800 S Boyle
 Pacific Mfg. Co., Santa Clara,
 Ave., Los Angeles.

Diamond Match Co., Chico, Calif.

Tilden Lumber & Mill Co., 400 High
 St., Oakland.

DENVER, Colorado—R. H. Kim-
 ball & Company, Midlands Savings
 Bldg., Denver, Colo., awarded con-
 tract at \$185.20 by Treasury Depart-
 ment for installing composition roof
 in light courts for the U. S. Post
 Office Building at Denver, Colo.

SAN DIEGO, Cal.—Until August 15,
 11 A. M., bids will be received by Pub-
 lic Works Officer, Eleventh Naval Dis-
 trict, Foot of Broadway, San Diego,
 for repairs and replacements at the
 Naval Hospital, Eleventh Naval Dis-
 trict, San Diego.

The work includes: (a) on the first
 floor of Subsistence Building (No. 4),
 the removal of areas of old existing
 magnesite and tile flooring in the
 north and south mess-halls, and the
 provision and installation of new semi-
 vitreous tile floor and floor base to
 replace the floor covering removed;
 (b) in the Administration Building
 (No. 1), room No. 182, the making of
 repairs to existing magnesite floor;
 and (c) in the central patio arcade,
 the removal of twelve stuccoed tile
 columns and the provision and instal-
 lation of twelve new reinforced con-
 crete columns having stuccoed ex-
 terior.

Bidding data may be obtained from
 Public Works Officer, Headquar-
 ters, Eleventh Naval District, Foot
 of Broadway, San Diego, Calif., a
 check or postal money order for \$10,
 payable to the Chief of the Bureau of
 Yards and Docks, as security for the
 safe return of the drawing and specifi-
 cation.

WASHINGTON, D. C.—K. E. Park-
 er Co., 135 South Park, S. F. at \$93,970
 South Park, San Francisco, at \$92,970
 submitted low bid to Treasury De-
 partment for the construction of a
 Post Office Building in North Holly-
 wood, J. Robert Harris, 6718 Holly-
 wood Blvd., Los Angeles, architect.
 Following is a complete list of bids:
 K. E. Parker Company, San Fran-
 cisco, \$93,970.

Murch Bros. Construction Co., St.
 Louis, \$99,400.

Bannister Field Co., Ltd., Los An-
 geles, \$99,850.

Sarver & Zoss, Inc., Los Angeles,
 \$103,500.

G. F. Campbell Bldg. Co., San Diego,
 \$104,800.

H. Mayson, Los Angeles, \$105,321.

Herbert M. Baruch Corp., Ltd., Los
 Angeles, \$105,500.

Schuler & McDonald, Inc., Oakland,
 \$105,500.

North-Moller Co., Jackson, Michigan,
 \$108,989.

Gene B. Foster, Inc., Los Angeles,
 \$109,200.

William MacDonald Constr. Co., St.
 Louis, \$110,600.

J. F. Kobler, Los Angeles, \$111,453.

John Strona, Pomona, \$112,853.

Associated Constructors, Inc., Los
 Angeles, \$116,000.

Orndorff Construction Co., Los An-
 geles, \$200,000.

PORTERVILLE, Tulare Co., Calif.
 —H. A. Framburg, Chicago, awarded
 contract by Treasury Department, at
 \$560, for furnishing and installing in-
 terior lighting fixtures in the United
 States post office at Porterville.

VISALIA, Tulare Co., Cal.—Walter
 G. Warren Co., Chicago, awarded con-
 tract by Treasury Department at \$622
 to furnish and install lighting fixtures
 in the U. S. post office at Visalia.

SUNNYVALE, Santa Clara Co., Cal.
 —Following will secure plans for the
 purpose of submitting bids to the 12th
 Naval District, 100 Harrison St., San

Francisco, on August 15 in connection with the awnings and linoleum flooring at the Naval Air Station, Sunnyvale. Spec. No. 7353. Work includes the installation of awnings (canopy) on open terraces at officers' quarters "B" to "I", inclusive, and on linoleum floorings in kitchen, pantry, entry and closets in officers' quarters "A" to "I", inclusive.

Robert R. Morgan, El Camino Real and Matadero, Palm Alto.

J. L. Stewart Mfg. Co.
American Tent & Awning Co., 1284 Mission St., San Francisco.

8—CLUB BUILDINGS

July 28, 1933

Commissioned To Prepare Plans.
LODGE BLDG. Cost, \$200,000
SACRAMENTO, Sacramento Co., Cal.
Ninth and K Streets.

New lodge building.
Owner—J. O. O. F. (G. W. McKay, chairman of building committee)
9th and K Sts., Sacramento.

Architect—Starks & Flanders, Forum Bldg., Sacramento.
(1829) 1st report June 13, 1933. 8

July 28, 1933

Additional Sub-Contracts Awarded.
REMODEL BLDG. Cost, \$20,000
OAKLAND, Alameda Co., Calif. 12th and Washington Streets.

Remodel two-story Class C brick store and loft building (new tile front).
Owner—Masonic Temple Association.
Architect—E. T. Foulkes, 357 Twelfth Street, Oakland.

Contractor—E. T. Leiter and Son and Herbert Beckwith, 811 37th Street, Oakland.

Lumber—Tilden Lumber Co., foot of University Ave., Berkeley.

Sheet Metal—Christiansen & Grutch, 4444 Piedmont Ave., Oakland.

As previously reported, reeving contract awarded to Western Roofing Co., 24th and Poplar Sts., Oakland; metal lath and furring to Joe Stevens, 3729 Woodruff, Oakland; tile to Robt. Howden, 337 17th St., Oakland; carpentry to E. T. Leiter & Son, 811 37th St., Oakland; ornamental iron to Fraunder Orn. Iron Works, 335 8th St., Oakland; granite cutting to G. M. Gest Co., 503 Market St., San Francisco; millwork to Oakland Planing Mill, Inc., 2nd and Washington Sts., Oakland.

(7980) 1st report June 29; 2nd, July 8, 1933. 8

Tile Contract Awarded.
ALTERATIONS Cost, \$40,000
SAN FRANCISCO. Sutter and Powell Streets.

Alterations to third and fourth floors of the Sir Francis Drake Hotel.

Owner—Sir Francis Drake Hotel.
Architect—W. P. Day, Financial Center Building.

Lessee—Bohemian Club.
Contractor—Lindgren and Swinerton, Inc., 225 Bush Street.

Tile Work—Malott & Peterson, Harrison and 20th Streets.

Other awards previously reported.

Completing Preliminary Plans.
MASONIC HALL Cost, \$40,000
VISALIA, Tulare Co., Cal. S Locust St. and Mineral King Ave.

Two-story reinforced concrete Masonic temple (65x110) composition flat roof, gas heating system, cooling system, maple floors, etc. (will contain two lodge rooms, banquet room, club room, reading room, kitchen, small stage, etc.)

Owner—Masonic Temple Assn.
Architect—P. L. Dragon and C. R. Schmidts, Mercantile Bank Bldg., Berkeley.

Preliminary plans will be submitted for approval in about two weeks.

Prospective Bidders.
LODGE BLDG. Cost, \$—
SAN FRANCISCO. Fourteenth and Landers Streets (125x85 feet).

Two-story and mezzanine floor and basement Class B reinforced concrete lodge building (auditorium 55x100 ft.) handball and basketball courts, showers, banquet rooms, seven lodge rooms, two card rooms and two committee rooms.
Owner—United Irish Societies.
Architect—John J. Foley, 770 5th Ave., San Francisco.

Following will submit bids, to be opened August 4, 7 P. M.:
Moore & Roberts, 693 Mission St.
Cahill Bros., 206 Sansome St.
Elmar C. Peterson, 1290 Hayes St.
P. Hurley, 1676 Hayes St.
Reilly & Grace, 703 Market St.
Robert McCarthy, 1363 14th Ave.
Frank J. Reilly, 6350 Fulton St.
T. Mroderick, 236 Park Road, Burlingame.

Sub-Contracts Awarded.
CLUB Cont. Price, \$574,000
SAN FRANCISCO. NE Taylor and Post Streets.

Four-story Class A brick and terra cotta club, gymnasium, dormitory dining room, kitchen, elevators.
Owner—Bohemian Club (Timothy Healy, Secretary).

Architect—Lewis P. Hobart, Crocker Bldg., San Francisco.

Structural Engineer—W. P. Day, Financial Center Bldg., S. F.

Mechanical Engineer—Atkins & Parker, Hobart Bldg., S. F.

Contractor—Dinwiddie Construction Co., Crocker Bldg., San Francisco.

Limestone—Indiana Limestone Co., 130 Lunado Way.

Sheet Metal—Morrison & Co., 74 DuBoce Avenue.

Roofing and Waterproofing—Alta Roofing Co., 976 Indiana St.

Hardwood Floors—J. E. Higgins Lumber Co., 423 Sixth St.

Tile—Malott & Peterson, 20th and Harrison Sts.

Fire Sprinklers—Rockwood Sprinkler Company.

Refrigeration—York Ice Machine Co., 234 Ninth St.

Weatherstripping—Parker Weather Strip Co., 4328 Geary St.

Ice Boxes—Morris Refrigerator Co., 262 Eighth St.

9—HOSPITALS

July 28, 1933

Additional Sub-Contracts Awarded.
HOSPITAL BUILDINGS
Contract Price, \$898,810
SAN FRANCISCO. Fort Miley.

Six-story reinforced concrete hospital (300 beds) 3-story concrete administration bldg., nurses' home, garage, storehouse, laundry, etc. (prepared roof).

Owner—United States Government.
Plans by U. S. Veterans' Administration, Veterans' Hospital, Palo Alto
Contractor—Herbert M. Baruch Corp., 625 S. Olive St., Los Angeles.

Terrazzo Work—Bralda Co., 2610 21st St., San Francisco.

Window Shades—D. N. & E. Walter, 572 Mission St., San Francisco.

Other awards previously reported.
(8283) 1st report March 31; 28th June 16, 1933. 9

SAN FRANCISCO, Cal.—Until Aug. 4, 3 P. M., bids will be received by T. A. Brooks, Purchaser of Supplies, Rm. 270, City Hall, for miscellaneous kitchen equipment, beds and hospital furniture. Specifications and proposal blanks available from above office.

Preparing Plans.
WARD, ETC. Cost, \$200,000
SPOKANE, Washington, Washington Hospital.

Three-story brick administration and receiving ward.
Owner—State of Washington.
Architect—Whitehouse & Price, Spokane, Washington.

Preparing Preliminary Plans.
COTTAGES Cost, \$—
PULGAS TUNNEL, San Mateo Co.

Construction of patient cottages at tuberculosis preventorium.
Owner—City and County of San Francisco.

Plans by Bureau of Architecture (H. Sawyer), City Hall.

STOCKTON, San Joaquin Co., Cal.—The Valley Steel & Welding Co., 935 E. Scotts St., awarded contract by State Purchasing Office for fire escape for State Hospital, Stockton.

LOS ANGELES, Calif.—Until 2 P. M., August 21, bids will be received by the Los Angeles county supervisors to furnish X-ray equipment as per plans and specifications No. 284. The work will include removal and reinstallation of existing equipment. Wm. Davidson, county mechanical engineer 1006 Hall of Records. Mame B. Beaty, clerk of the board, 501 Hall of Records.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$5000
SAN FRANCISCO. 300 Lake Street.

Alterations to Old Peoples' Home.
Owner—Little Sisters of the Poor, 300 Lake Street.

Architect—Not Given.
Contractor—E. W. Yount, 315 Avila St.

Ornamental iron—Michel and Pfeffer Iron Works, Harrison and Tenth.

Mill Work—Pacific Mfg. Co., Monadnock Bldg.

Glass and Glazing—W. P. Fuller and Co., 301 Mission St.

Finish Hardware—Marshall Newell Supply Co., Spear and Mission Sts.

10—HOTELS

Plans Being Prepared.
ALTERATIONS Cost, \$15,000
SAN FRANCISCO. 447 Broadway.

Alterations to 3-story Class C brick building for hotel and stores (32 rooms, 3 stores) plaster front, new plumbing and lighting fixtures, wood sash, natural gas steam heat radiators, composition floors, tile front, plate glass, corner moulds.
Owner—E. Parducci and T. Domenici.
Architect—Resing & McGuinness, 488 Pine Street.

Bids will be asked in about 2 weeks.

SAN JOSE, Santa Clara Co., Cal.—Until August 21, 8 P. M., bids will be received by John J. Lynch, City Clerk, City Hall, San Jose, for the wrecking of the Park Hotel located on the west side of Market Street, between Park Ave. and San Carlos St. Specifications on file in the office of the City Clerk and copies may be had at the office of the City Engineer, Department of Public Works. Bids must be accompanied by a check in the amount of \$1000, payable to the City of San Jose.

11—ICE AND COLD STORAGE PLANTS

LOS ANGELES, Cal.—Until 11 A. M., August 11, bids will be received by A. J. Holm, Los Angeles City Purchasing Agent, 107 City Hall, for furnishing and delivering to Water & Power Dept., f.o.b. Dept's trucks at bidder's local plant or warehouse, two direct expansion ammonia type ice and refrigeration units, complete, under Specifications No. 3183.

12—POWER PLANTS

LOS ANGELES, Cal.—Tower Builders, Inc. (Consolidated Steel Corp., Ltd., Western Pipe & Steel Co. of Calif. and Blaw-Knox Co.), awarded contract by A. J. Holm, City Purchasing Agent, July 26, at \$1,957,737 to furnish single circuit towers for the eastern and western divisions under items 1 and 2.

McClintic-Marshall Corp., 11,100 S. Central Ave., Los Angeles, awarded contract for double circuit towers (item 3) at \$332,088.

The type selected was the rotated type, of the "Obbard" design. The steel will be fabricated in the plant of the Consolidated Steel Corp.

Bids were opened July 14.

LONG BEACH, Los Angeles Co., Calif.—The Long Beach board of education has voted to reduce the amount sought on the school bond election to be held August 22, from \$5,570,000 to \$4,930,000. Three ballots will be voted on as follows:

- (1) \$3,000,000 for elementary schools
- (2) \$1,830,000 for high schools;
- (3) \$100,000 for junior college.

COMPTON, Los Angeles Co., Cal.—Jas. H. Park, city manager, announces that application will be made to the federal government for National Industrial Act funds for the construction of a municipal light and power plant to cost \$250,000.

13—PUBLIC BUILDINGS FIRE HOUSES & JAILS

Preliminary Sketches Prepared.

AUDITORIUM Cost, \$—
SAN JOSE, Santa Clara Co., Cal.
S. Market Street.

New civic auditorium.

Owner—City of San Jose.

Architect—Blinder & Curtis, 35 W. San Carlos St., San Jose.

The site has been donated by Mr. and Mrs. Montgomery of San Jose. The Park Hotel, present building on site will be razed at a later date. Further details will be announced shortly.

Preparing Working Drawings.

CITY HALL Cost, \$20,000

MENLO PARK, San Mateo Co., Cal.

Site to be selected.

One-story reinforced concrete City Hall (wood interior, tile roof, concrete exterior walls, unit gas heating system, etc.)

Owner—City of Menlo Park (Fannie I. Kurtz, City Clerk).

Architect—A. A. Cantin, 557 Market St., and William Mooser, Monadnock Bldg., San Francisco. Associated.

Planned.

COMMUNITY HALL Cost, \$30,000

CONCORD, Contra Costa Co., Cal.

New community hall (brick or stucco construction).

Owner—City of Concord.

Architect—E. W. Cannon, 81 Echo St., Oakland.

Preliminary plans will be drawn and a request for funds will be made to Washington.

COMPTON, Los Angeles Co., Calif.—J. H. Park, Compton city manager, announces a list of public buildings to be built under provisions of the National Industrial Recovery Act, totaling \$810,000, as follows: Rebuild city hall, \$100,000; rebuild city library, \$35,000; new swimming pool and buildings, \$50,000; construction of a municipal light and power plant, \$250,000; construction of a post office building, \$125,000.

SAN GABRIEL VALLEY, Cal.—Los Angeles County will include in their building program, to be financed under provisions of the Industrial Recovery Act, an item of \$50,000 for a building to be erected in the San Gabriel Valley. The proposed structure will house quarters for the health department, fire department, sheriff's office and library.

Plans Forwarded to Washington for Approval.

CITY HALL Cost, \$68,000

SAN BRUNO, San Mateo Co., Calif.

El Camino Real near Jenevein.

Two-story city hall (to house officers of the fire department, city attorney, mayor, jail, librarian, tax collector, etc.)

Owner—City of San Bruno.

Architect—Thos. Edward, 525 Market St., San Francisco.

Federal aid has been requested to finance construction.

14—RESIDENCES

Plans Being Figured—Bids Close Aug. 7th.

RESIDENCE Cost, \$—

Two-story and basement frame and stucco residence.

Owner—Mr. Leibis.

Architect—Wm. I. Garren, 233 Post St. San Francisco.

To Be Done By Day's Work.

RESIDENCES Cost, \$4,000 each

SAN FRANCISCO. E Ardenwood 211 N Sloat Blvd.

Five 1-story and basement frame and stucco residences.

Owner and Builder—Standard Building Co., 218 Castaneda Street.

Plans by Owner.

Contract Awarded.

RESIDENCE Cost, \$6680

SAN FRANCISCO. NW Fulton and 35th Avenue.

Two-story and basement frame and stucco residence (6 rooms).

Owner—Lillian Hodnett.

Architect—Not Given.

Contractor—John Michaels and Christian Bomer, 1833 Lincoln Way.

Contract Awarded.

RESIDENCE Cost, \$5890

OAKLAND, Alameda Co., Cal. Piedmont Pines.

Two-story frame and stucco residence

Owner—Syndicate Idora Co., Ltd.

Architect—Miller & Warnecke, Financial Center Bldg., Oakland.

Contractor—C. W. Leekins, 1757 Sausal St., Oakland.

Sub-Contracts Awarded.

RESIDENCE Cost, \$5000

VALLEJO, Solano Co., Cal. Louisiana and Marin Streets.

One-story frame and stucco residence (5 rooms); English style.

Owner—Donald Buss.

Architect—Not Given.

Contractor—Irwin H. Reimers, 565 Kenmore Ave., Oakland.

Roofing—Pacific Roofing Co., Los Angeles.

Lumber—Vallejo Lumber Co., Vallejo

Plumbing—A. J. Wise, 1022 York St., Vallejo.

Millwork—Sunset Lumber Co., 400 High St., Oakland.

Additional Sub-Contracts Awarded.

RESIDENCE Cost, \$—

BERKELEY, Alameda Co., Cal. Cedar St. E Euclid Ave.

Two-story and basement frame and stucco residence (8 rooms).

Owner—M. W. Talbot, 2672 Hilgard Ave., Berkeley.

Architect—Not Given.

Contractor—Walter L. Broderick, 640 The Arlington, Berkeley.

Oil Burner—Rotary Oil Burner Co., 4575 Horton St., Emeryville.

Furnace Work—M. C. Henry, 1183 53rd St., Oakland.

Sheet Metal—J. C. Owens, 1612 Carlton St., Berkeley.

Sub-Bids Being Taken.

RESIDENCE Cost, \$5000

SAN ANSELMO, Marin Co., Cal.

One-story and basement frame and stucco residence (5 rooms) shingle roof, gas heating system, hardwood floors, etc.

Owner and Builder—Louis Franceschi, 1408 Jefferson St., San Francisco.

Architect—Irvine & Ebbets (R. R. Irvine, Architect), 2048 Market St., San Francisco.

Contract Awarded.

RESIDENCE Cost, \$41,000

MONTECITO, Santa Barbara Co., Cal. San Ysidro Road and Monte Vista Drive

Wood frame and stucco residence. Owner—Mrs. W. P. Hamilton.

Architect—Chester L. Carjola, 99 San Ysidro Lane, Santa Barbara.

Contractor—O. J. Kenyon, 21 E. De la Guerra, Santa Barbara.

Contract Awarded.

RESIDENCE Cost, \$4600

ALAMEDA, Alameda Co., Cal. No. 2808 Lincoln Avenue.

Two-story frame and stucco residence (6 rooms).

Owner—E. H. Kellberg, 1538 Sherman St., Alameda.

Architect—Not Given.

Contractor—Lawrence Willsgra, 1538 Sherman St., Alameda.

Contract Awarded.

RESIDENCE Cost, \$—

LOS GATOS, Santa Clara Co., Cal. Cazalis Tract.

One-story frame residence.

Owner—Hazel W. Watson, 1658 Sanchez St., San Francisco.

Architect—Not Given.

Contractor—Jay D. Tompkins and Chester R. Smith, Los Gatos.

Contract Awarded.

RESIDENCE Cost, \$12,000

HILLSBOROUGH, San Mateo Co., Cal. Roehampton Road.

Two-story and basement frame and wood siding residence (10 rooms, 3 baths) shingle roof, gas heating system, oak floors, part tile baths.

Owner—F. L. McElroy.

Architect—Leo J. Sharpe, 1477 Burlingame Ave., Burlingame.

Contractor—Oscar Cavanaugh, 422 Occidental Ave., San Mateo.

Contract Awarded.

RESIDENCE Cost, \$4000

SAN FRANCISCO. E Connecticut St. 425 S 20th St.

One-story and basement frame and stucco residence.

Owner—G. Stanghellini, 533 Connecticut St., San Francisco.

Architect—Not Given.

Contractor—J. Bettancourt, 422 San Anselmo Ave., San Bruno.

Contract Awarded.

RESIDENCE Cost, \$—

STOCKTON, San Joaquin Co., Cal. No. 344 South Garfield Ave.

One-story brick veneer residence (5 rooms).

Owner—Frank Simonetti, 412 W. Main St., Stockton.

Architect—Not Given.

Contractor—V. Boitano, 746 N. Sierra Nevada St., Stockton.

Plans Being Figured.

RESIDENCE Cost, \$—

MENLO HEIGHTS, San Mateo Co.

Two-story and basement frame and stucco residence (12 rooms) redwood exterior, oak floors, linoleum

floors and "Lino-Wall" wall covering in baths, oil furnace hot air heating system, hardwood trim, casement and double hung windows, sash, ornamental and sheet metal, garage with servants' quarters, etc.

Owner—Hutton Webster.
Architect—Hunt & Chambers, Continental Bldg., Los Angeles.

Associated Architect—Henry C. Collins, Decker Oak Bldg., Palo Alto.

Bids are being received by Mr. Collins and will be opened in about two weeks.

Contract Awarded.
RESIDENCE Cost, \$100,000
WEST LOS ANGELES, Los Angeles Co., Cal. (Bel Air Tract) Four Acre Site.

Two-story reinforced concrete residence (22 rooms) reinforced concrete exterior walls, frame and plaster interior, copper or composition roof, tile and cement floors, gas unit heating system, wrought iron, refrigeration, tennis court, swimming pool, etc.

Owner—Lynn Atkinson, Edwards and Wildey Bldg., Los Angeles.

Architect—Webber & Spaulding, 627 S. Carondelet St., Los Angeles.

Contractor—L. D. Richardson & Co., Chamber of Commerce Bldg., Beverly Hills.

Plans Being Prepared.
ALTER RESIDENCE Cost, \$3500
PIEDMONT, Alameda Co., Calif.
Alterations to frame residence.
Owner—Mr. Hilbourn.
Plans by J. H. Pickrell, 332 Santa Clara Ave., Alameda.

Additional Sub-Contracts Awarded.
RESIDENCE Cost, \$6500
OAKLAND, Alameda Co., Cal. No. 5733 Ross Street.

One-story and basement frame and stucco residence (6 rooms).

Owner and Builder—Ernest W. Urch, 1924 50th Ave., Oakland.

Plans by Owner.

Tile—Moir Tile Co., 3724 Brookdale Ave., Oakland.

Millwork—Melrose Lumber & Supply Co., 1201 46th Ave., Oakland.

Fixtures—Roberts Mfg. Co., 480 23rd St., Oakland.

Glass, Plate—Berkeley Glass Co., 2022 University Ave., Berkeley.

As previously reported, plastering awarded to John Sherman, 2119 Oregon St., Berkeley; sheet metal and heating, California Furnace Co., 4801 E-14th St., Oakland; brick to A. B. McMurtry, 6326 Broadway Terrace, Oakland; screens to Hipolite Co., 4246 Holden St., Emeryville.

Sub-bids are being taken on linoleum, landscape gardening, painting, and hardware.

Contract Awarded.
RESIDENCE Cost, \$—
PALO ALTO, Santa Clara Co., Cal. No. 695 Columbia Street.

One-story and basement frame and stucco residence.

Owner—C. G. Shambaugh, 610 California Ave., Palo Alto.

Architect—Not Given.

Contractor—A. B. Allen, 1015 Stanford Ave., Palo Alto.

Low Bidder.
ADDITION Cost, \$1930
RICHMOND, Contra Costa Co., Cal. Yuba Street.

Addition to frame residence (add bedroom and bath, hardwood flooring, shingle roofing, steel sash, etc.)

Owner—D. Hanna.

Architect—William Rlch, Orinda.

Contractor—Elmer J. Freethy, 1301 Roosevelt Ave., Richmond.

Plans Being Completed.
RESIDENCE Cost, \$12,000
HILLSBOROUGH, San Mateo Co., Cal. Roxhampton Road.

Two-story and basement frame and wood siding residence (10 rooms and 3 baths); shingle roof, gas heating system, oak floors, part tile baths, etc.

Owner—Withheld.

Architect—Leo J. Sharps, 1477 Burlingame Ave., Burlingame.

Additional Sub-Contracts Awarded.
RESIDENCE Cost, \$30,000
PEBBLE BEACH, Monterey Co., Cal.

Two-story and basement frame and stucco residence (12 rooms and 4 baths); terra cotta tile roof, electric heating system, wood and bronze sash, ornamental iron, colored tile baths, hardwood floors etc.

Owner—J. D. Chapman.

Architect—Clarence Tantau, 210 Post St., San Francisco.

Contractor—Dowsett - Ruhl, Russ Bldg., San Francisco, and Pebble Beach.

Painting—A. A. Corrigan & Co., 315 Tilton Ave., San Mateo.

Plumbing—Scott Co., 243 Minna St., San Francisco.

Linoleum—Malott & Peterson, 20th & Harrison Sts., San Francisco.

Sash—Sarterlius Co., 2530 18th St., San Francisco.

As previously reported, mill work awarded to Pacific Mfg. Co., Santa Clara; plastering to Leonard Bosch, 70 Chesley St., San Francisco.

Sub-Contracts Awarded.
RESIDENCE Cost, \$5000
OAKLAND, Alameda Co., Calif. 5331 Golden Gate Ave.

Two-story frame and stucco residence (6 rooms).

Owner and Builder—H. C. Pfrang, 5659 Ocean View Drive, Oakland.

Plans by Owner.

Plumbing—J. M. Dale, 372 24th St., Oakland.

Lumber—W. S. Scammell Lbr. Co., ft. of 9th Ave., Oakland.

Electric—F. W. Parkhurst, 6432 Pinehaven Road, Oakland.

Brick—C. P. Hunter, 1517 Tyler St., Berkeley.

Furnace—Atlas Heating & Ventilating Co., 1451 32nd St., Oakland.

Contract Awarded.
RESIDENCE Cost, \$15,000
SAN FRANCISCO, Marina Blvd. near Fillmore Street.

Two-story and basement frame and stucco residence (9 rooms and 3 baths) tile and composition roof, gas hot air heating system, tiled baths, oak floors, electric refrigeration, ornamental iron, etc.

Owner—Capt. D. W. Thomsen.

Architect—D. D. Stone, 110 Sutter St.

Contractor—Fred Du Puy, 110 Sutter.

Sub-Contracts Awarded.
RESIDENCE Cost, \$—
OAKLAND, Alameda Co., Cal. Ivanhoe Road.

Two-story frame and stucco residence (7 rooms) English type.

Owner and Builder—Ernest W. Urch, 1924 50th Ave., Oakland.

Plans by Owner.

Lumber—Sunset Lumber Co., 400 High St., Oakland.

Plumbing—Ambrose Bros., 206 Chumalia Ave., San Leandro.

Contracts Awarded.
RESIDENCES Cost, \$—
OAKLAND, Alameda Co., Cal. Mercom Ave., near Simmons St.

Two one and one-half-story frame and stucco residence (6 rooms each); Spanish type.

Owner and Builder—Ernest W. Urch, 1924 50th Ave., Oakland.

Plans by Owner.

Lumber—Sunset Lumber Co., 400 High St., Oakland.

Plumbing—Ambrose Bros., 206 Chumalia Ave., San Leandro.

Sub-Contracts Awarded.
RESIDENCE Cost, \$7500
PIEDMONT, Alameda Co., Cal. Piedmont Plnes.

Two-story and basement frame and stucco residence (model home) wood shake roof, hot air heating system, etc.

Owner—Brenner Furniture Co., 21st and Broadway, Oakland.

Architect—Miller & Warnecke, Financial Center Bldg., Oakland.

Contractor—C. W. Leekins, 1652 Hopkins St., Oakland.

Lumber—Eureka Mill & Lumber Co., 3615 E 14th St., Oakland.

Doors & Sash—Western Door & Sash Co., 5th and Cypress Sts., Oakland.

Plumbing—A. Petitjean, 1649 11th Ave., Oakland.

Sub-Contracts Awarded.
RESIDENCE Cost, \$9780
ARLINGTON ACRES, Contra Costa Co., Cal.

Two-story and basement frame and brick veneer residence (10 rooms and 3 baths) tile roof, steam and oil burning system, tiled baths.

Owner—Professor Frederlek Paxson.

Architect—E. L. Snyder, 2101 Addison Ave., Berkeley.

Contractor—A. T. Beckett, 224 Scenic Ave., Piedmont.

Steel Sash—Michael & Pfeffer Iron Works, Inc., Harrison and Tenth Sts., San Francisco.

Lumber—Smith Lumber Co., foot of 19th Ave., Oakland.

Plumbing—J. A. Fazio, 402 Castro St., Oakland.

Plastering—Carl Spiken, 2315 9th Ave., Oakland.

Contract Awarded.
RESIDENCE Cost, \$3500
SALINAS, Monterey Co., Cal.

One-story frame and stucco residence (5 rooms) shingle roof, gas heating system, hardwood floors, etc.

Owner—O. L. Eckman.

Architect—Charles Butner, Glikbarg Bldg., Salinas.

Contractor—O. M. Hansen, 22 Alisal St., Salinas.

Sub-Contracts Awarded.
RESIDENCE Cost, \$8000
Two-story and basement frame and stucco residence (8 rooms and 3 baths) slate roofing, gas hot air heating system, canvas walls, concrete garage, brick work, Monterey stone, leaded glass, hardwood floors, etc.)

Owner—F. A. Watkins, % Architect.

Architect—Irvine & Ebbets (R. R. Irvine, architect), 2048 Market St. San Francisco.

Contractor—J. C. Duerner, 550 Templeton St., San Francisco.

Rough Lumber—Sudden Lumber Co., Evans and Quint St.

Plumbing—Wm. Carmichael Co., 1840 Taraval St.

Wiring—Aetna Electric Co., 1435 Eddy St.

Glass—W. P. Fuller & Co., 301 Mission St.

Tile Work—Mangrum Holbrook Co., 1235 Mission St.

Heating and Sheet Metal—Atlas Heating & Ventilating Co., 557 4th St.

Inside Stairs—J. DiCristina & Son, 3150 18th St.

Wroughh Iron—Ace Iron Works, 159 South Park.

Sub-bids are being taken on grading concrete work, reinforcing iron and plastering. Construction will start in about ten days.

Contract Awarded.

RESIDENCE Cont. Price, \$11,360
PALO ALTO, Santa Clara Co., Cal.
Crescent Park.

Two-story frame, stucco and brick veneer residence (9 rooms and 4 baths) English style; split shake Royal shingle roof, steel sash roller screens, tiled baths, oak floors, gas furnace heating, etc.

Owner—Mrs. Henrietta S. Young, % Architect.

Architect—Chas. K. Sumner, Decker-oak Bldg., Palo Alto.

Contractor—R. C. Knight, Mountain View.

Plans Completed.

RESIDENCE Cost, \$11,000
OAKLAND, Alameda Co., Cal. Oakmore Highlands.

Two-story and basement frame and stucco residence (8 rooms and 3 baths) tile roof, gas heating system, interior stucco walls, tiled baths, hardwood floors and trim, etc.

Owner—W. Wright, 1108 98th Ave., Oakland.

Plans by W. W. Dixon, 1844 5th Ave., Oakland.

Owner will take bids in about one week.

Sub-Bids Being Taken.

RESIDENCE Cost, \$5500
OAKLAND, Alameda Co., Cal. Fernwood.

One and one-half-story frame and stucco residence (6 rooms and 2 baths) tile and composition roof, gas heating system, interior stucco walls, hardwood floors, etc.

Owner—M. P. Brasch, 77 Glen Ave., Oakland.

Plans by W. W. Dixon, 1844 Fifth Ave., Oakland.

Plans Being Figured.

RESIDENCE Cost, \$6000
BERKELEY, Alameda Co., Cal.

Two-story and basement frame and stucco residence (7 rooms and 2 baths) tile roof, gas heating system, hardwood floors, tiled baths, colored fixtures, etc.

Owner—Withheld.
Architect—Fabre & Hildebrand, 110 Sutter St., San Francisco.

Contract Awarded.

RESIDENCE Cost, \$5300
SAN FRANCISCO, W. Alemany Blvd. S Cotter St.

One-story and basement frame and stucco residence (5 rooms) patio, etc., tile and composition roof, gas heating system, hardwood floors.

Owner—Vincent Reilly, 450 Vicksburg Street.

Plans by B. K. Dobkowitz, 425 Monterey Blvd.

Contractor—R. F. Galli, 1900 Hyde St.

To Be Done By Day's Work.

ALTER RESIDENCE Cost, \$2000
SAN FRANCISCO, 2730 Pierce St.

Alterations to frame residence (repair fire damage, etc.)

Owner—J. E. Birmingham, 2730 Pierce Street.

Architect—Farr & Ward, 68 Post St.

Contract Awarded.

RESIDENCE Cost, \$10,000
BERKELEY, Alameda Co., Cal. Virginia and Euclid Avenue.

Two-story frame and stucco residence (11 rooms and 3 baths; doctor's offices) tile roof, gas heating system, hardwood floors, tiled baths.

Owner—Dr. Horace Stare, 2510 Bancroft Way, Berkeley.

Architect—Not Given.

Contractor—C. M. Norgrove, 2220 Roosevelt St., Berkeley.

Plans Being Figured.

RESIDENCE Cost, \$15,000
HILLSBOROUGH, San Mateo Co., Cal.
Two-story and basement frame and stucco residence (12 rooms and 4 baths) shingle roof, gas heating system, tiled baths, hardwood floors, etc.

Owner—Thos. M. Ryan.

Architect—Willis Polk Co. (Angus McSweeney, architect) 277 Pine St., San Francisco.

About two weeks will be allowed for figuring the plans.

Bids Opened.

RESIDENCE Cost, \$11,500
ATHERTON, San Mateo Co., Cal.

One-story and basement frame and stucco residence (11 rooms and 4 baths) slate roof, gas heating system, hardwood floors, tiled baths, colored fixtures, slate terraces.

Owner—Withheld.

Architect—F. F. Amandes, 1879 18th Ave., San Francisco.

Low Bidder—Aetna Constr. Co., 166 Miramar Ave., San Francisco.

Following bids received:

Aetna Constr. Co.	\$12,391
Emil Steinegger	12,875
Clinton-Stephenson Constr. Co.	13,477
Geo. Williams Co., Ltd., Burlingame	13,743
H. H. Larsen	14,121
Larsen & Larsen	14,389

Bids held under advisement.

Contract Awarded.

RESIDENCE Cost, \$4000
HAYWARD, Alameda Co., Cal. Meek Tract.

One-story and basement frame and stucco residence (6 rooms) shingle roof, gas heating system, hardwood floors, tiled bath, etc. (Early California type).

Owner—Adelaide D. Struble.

Architect—George Patton Simonds, 261 Main St., Hayward.

Contractor—Jacob Meek, San Leandro

Contract Awarded.

RESIDENCE Cont. Price, \$8486
SAN LEANDRO, Alameda Co., Cal. Broadmoor Park.

Two-story and basement frame and stucco residence (8 rooms and 3 baths) Mexican style, tile roof.

Owner—M. A. Barr.

Architect—Charles McCall, 837 Santa Ray St., Oakland.

Contractor—H. S. Shain, 54 Arlett Ave., Hayward.

Contract Awarded.

RESIDENCE Cont. Price, \$8195
PIEDMONT, Alameda Co., Cal. Wildwood Avenue.

Two-story and basement frame and stucco residence (8 rooms); tile roof, hot air heating system, wood sash, hardwood floors, etc.

Owner—Lew Cook.

Architect—Miller & Warnecke, Financial Center Bldg., Oakland.

Contractor—J. R. Armstrong, 1131 Fleet Road, Oakland.

Plans Being Prepared.

RESIDENCE Cost, \$12,000
SAN FRANCISCO, Marina District.

Two-story and basement frame and stucco residence (10 rooms and 4 baths); tile roof, gas or oil heating system, air conditioning system, hardwood floors and trim, canvas walls, 2-car garage.

Owner—Withheld.

Architect—F. F. Amandes, 1879 18th Ave., San Francisco.

Bids will be asked in about three weeks.

Plans Being Figured—Bids Close August 7.

RESIDENCE Cost, \$—
HILLSBOROUGH, San Mateo Co., Cal.

Two-story and basement frame and stucco residence.

Owner—Mr. Leibes.
Architect—Wm. I. Garren, 233 Post St., San Francisco.

Contract Awarded.

RESIDENCE Cost, \$5000
ALAMEDA, Alameda Co., Cal. No. 2953 Southwood Drive.

One-story and basement frame and stucco residence (7 rooms).

Owner—B. L. Foulger, 328 Santa Clara Ave., Alameda.

Architect—Not Given.

Contractor—J. H. Pickrell, 332 Santa Clara Ave., Alameda.

Plans Being Figured.

RESIDENCE Cost, \$6000
VALLEJO, Solano Co., Cal. Sacramento and Carolina Sts.

Two-story and basement frame and stucco residence (7 rooms and 2 baths); tile roof, gas hot air heating system, tiled baths and kitchen, hardwood floors, etc.

Owner—Withheld.

Architect—Chas. E. Perry, 514 Martin (2253) 1st report July 26, 1933 14

Owner Taking Bids.

RESIDENCE Cost, \$—
UKIAH, Mendocino Co., Cal.

One-story frame and stucco residence (5 rooms); shingle roofing, hot air furnace, hardwood floors, etc.

Owner—Percy W. Handy, 310 W. Perkins St., Ukiah.

Plans by Walter L. Brodrick, 640 The Arlington, Berkeley.

Additional Sub-Contracts Awarded.

RESIDENCE Cost, \$30,000
PEBBLE BEACH, Monterey Co., Cal.

Two-story and basement frame and stucco residence (12 rooms and 4 baths) terra cotta tile roof, electric heating system, wood and bronze sash, orn. iron, colored tile baths, hardwood floors, etc.

Owner—J. D. Chapman.

Architect—Clarence Tantau, 210 Post St., San Francisco.

Contractor—Dowsett-Ruhl, Russ Bldg. San Francisco and Pebble Beach.

Glass and Glazing—Cobbledick-Klbbel Glass Co., 301 Washington Street, San Francisco.

Roofing and Tile Work—Tynan Lbr. Co., Salinas.

Electric Work—R. M. Kingman, Carmel.

Lumber—Union Supply Co., Monterey Hardware—Maxwell Hdwe. Co., 1320 Washington St., Oakland.

Other awards reported July 23.

Sub-Contracts Awarded.

RESIDENCE Cost, \$—
OAKLAND, Alameda Co., Calif. Moraga Road near Park Blvd.

Two-story frame and stucco residence (6 rooms) English style, shingle roof, wood and coal furnace, tiled bath, etc.

Owner—H. T. Hepburn.

Contractor—Glen Bunker, 5215 Congress Ave., Oakland.

Lumber—Smith Lbr. Co., foot of 19th Ave., Oakland.

Plumbing—Suendermann Plbg. Co., 921 University Ave., Berkeley.

Concrete, Plastering—J. I. Jones, 3609 Redding St., Oakland.

Sash, Doors—Western Door & Sash Co., 5th and Cypress, Oakland.

Cabinet Work—A 1 Sash & Cabinet Co., 335 E 8th St., Oakland.

Painting—B. Leek, San Leandro.

Tile—Melring Tile Works, 1139 Addison St., Berkeley.

Preparing Plans.

RESIDENCE Cost, \$—
OAKLAND, Alameda Co., Calif. Oakmore Road S Casterline Road.

One-story and basement frame and stucco residence (6 rooms).

Owner and Bulder—Leo J. Dolan, 770 Wesley Ave., Oakland.
Architect—Not Given.

Contract Awarded.
RESIDENCE Cost, \$4000
SAN FRANCISCO. SE Connecticut 425 S 20th.
One-story and basement frame and stucco residence.
Owner—G. Stanghellini, 533 Connecticut Street.
Architect—Not Given.
Contractor—J. Bettancourt, San Bruno.

Contract Awarded.
ALTER RESIDENCE Cost, \$2150
SAN FRANCISCO. E Douglass 210 N 17th Street.
Alterations to frame residence.
Owner—Nat Ferrario, 45 Douglass St.
Architect—Not Given.
Contractor—J. Ragni, 443 Bellevue Avenue, Daly City.

15—SCHOOLS

CANAL ZONE — An allotment of \$300,000 from the public works fund for a school building to be erected in the Panama Canal Zone was announced by the Department of the Interior this week. The building will provide high school and junior college facilities for 1200 students and will be erected at Balboa. It will be a reinforced concrete structure.

PRIMA, Ariz.—Department of the Interior, Bureau of Indian Affairs, Washington, D. C., has plans in progress for the Sacatan school and auditorium building to be erected at Pima, Ariz. The structure will cost about \$65,000. Plans will be ready for bids in about thirty days.

Contracts Awarded.
ADDITION Cost, \$18,000
OAKLAND, Alameda Co., Cal. Seminary Ave. and Camden St.
Reinforced concrete addition to college building (art gallery, 2 classrooms library and offices); tile roof, 22-ft. walls, etc.
Owner—Mills College, Seminary Ave. and Camden St., Oakland.
Architect—W. H. Ratcliff Jr., Chamber of Commerce Bldg., Berkeley.
Concrete—Nat Lena, 1174 19th St., Oakland.
Reinforcing Steel—Soule Steel Co., 1750 Army St., San Francisco.
Plastering—John Casey, 2709 Logan St., Oakland.
Plumbing—Kyle & Co., 1635 E-12th St., Oakland.
Heating—George C. Bell, 1825 Gleason Way, Oakland.
Steel Sash—Michel & Pfeffer Iron Works, Harrison and Tenth Sts., San Francisco.
Ornamental Iron — California Ornamental Iron Works, 835 8th Ave., Oakland.
Lumber and Mill Work—National Mill & Lumber Co., 400 High Street, Oakland.
Electric—Kerr & Clifford, 3525 E-14th St., Oakland.
Sheet Metal—East Bay Sheet Metal Works, 1101 Market St., Oakland.
Roofing—W. L. Saxby, 4538 Fleming St., Oakland.
Tile Flooring—Superior Tile Co., 3743 Broadway, Oakland.
Glass—W. P. Fuller & Co., 259 10th St., Oakland.
Painting—Gustave Hurtig, 1536 Edith St., Berkeley.

COMPTON, Los Angeles Co., Cal.—Architects Marsh, Smith & Powell, 516 Architects' Bldg., Los Angeles, have been awarded a contract by the Compton City School District for architectural work for may new school buildings that may have to be erect-

ed as a result of the recent earthquake. Architect H. L. Gogerty and Engineer Wm. H. Baker, Oil Exposition Bldg., Compton, were retained by the district last month to supervise repairs to buildings that can be restored .

SAUSALITO, Marin Co., Cal.—North Bay Heating Co., 18 Greenfield Ave., San Rafael, at \$684 awarded contract by Sausalito School District for the construction and installation of heating equipment in the South School in Sausalito.

SAN FRANCISCO. — Following bids received by Dept. of Public Works for painting schools:

Excelsior School	
C. L. Wold, 4416 Fulton St.....	\$1,728
Reliable Painting Co.....	1,850
Franklin School	
Reliable Painting Co., 3247 19th.	\$2,265
W. G. Thompson.....	2,347
Faggioni Company.....	3,910
Sarah B. Cooper School	
Reliable Painting Co., 3247 19th.....	1,730
W. G. Thompson.....	1,374
Faggioni Company.....	2,930

No bids received for painting the Monroe School. Bids held under advisement.

Additional Prospective Bidders.
REPAIR SCHOOL Cost, \$10,500
ALBANY, Alameda Co., Calif. Marin Avenue.

Repairs to grammar school (add auditorium, alter classrooms, frame construction, reinforced concrete walls with steel columns, concrete and steel trusses, addition to steam heating system, maple flooring, composition roof, etc.)
Owner—Albany City School District.
Architect—P. L. Dragon and C. R. Schmdts, 3016 Telegraph Avenue, Berkeley.

Following are additional contractors who have procured plans. Bids open August 8, at 8 P. M.:
C. Dudley DeVelbiss, 1250 Turk St., San Francisco.
M. E. Valenti, 5118 Court St., Oakland.
San Francisco Const. Co., 3159 Fillmore St., San Francisco.
F. J. Early, 369 Pine St., San Francisco.
E. T. Leiter & Son, 811 37th St., Oakland.
E. T. Lesure, 87 Ross Circle, Oakland.
Other prospective bidders previously reported.

Plans Being Prepared.
AUDITORIUM Cost, \$——
WILLIAMS, Colusa Co., Cal.
Rebuild auditorium recently destroyed by fire.
Owner — Williams Grammar School District.
Architect—Starks & Flanders, Forum Bldg., Sacramento.

BURLINGAME, San Mateo Co., Cal.—Until August 17, 8 P. M., bids will be received by W. H. Eddy, Clerk of the San Mateo Union High School District, for repairs to the roofs at the Burlingame High School. Plans and specifications available at the office of the Superintendent in the San Mateo High School, Bellevue and Delaware Sts., San Mateo.

BAKERSFIELD, Kern Co., Calif.—Until August 10, 7:30 P. M., bids will be received by Florence C. Porter, secretary, Bakersfield School District, 1600 K St., Bakersfield, for constructing a 10-year guaranteed built-up roof for the McKinley School. Plans and specifications available from the above office .

Contract Awarded.
SCHOOL Cont. Price, \$12,380
TULE LAKE, Siskiyou Co., Cal.
One-story wood frame school (four classrooms, office, etc. 75x60 feet) hot air heating system, coal or wood burner, maple floors, wood shingle roof, wood exterior and interior, sheet rock with plaster finish, wood sash, blackboards and shades, septic tank, fixtures, etc.
Owner—Siskiyou Union High School District, Yreka.
Architect—A. O. Johnson, Sir Francis Drake Hotel, San Francisco.
Engineer—Woodworth Wethred, Sir Francis Drake Hotel, San Francisco.
Contractor—T. B. Goodwin, 2950 Divisadero St., San Francisco.
Following bids received:
T. B. Goodwin, San Francisco.....\$12,380
Suell & Hules.....13,888
J. W. Anderson, Mt. Shasta.....14,420
A. F. Anderson, Oakland.....14,444
J. M. Brown, Chico.....15,522

Planned.
SCHOOL Cost, \$——
BRISBANE, San Mateo Co., Cal.
New elementary school.
Owner—Jefferson Union High School District.
Architect—Not Selected.

Bids Wanted—To Close Aug. 5.
HEATING PLANT Cost, \$3500
HUGHSON, Stanislaus Co., Cal.
Steam heating plant for elementary school.
Owner — Hughson Elementary School District.
Architect—G. N. Hilburn, 1213 I St., Modesto.

NEWBERG, Oregon.—Bonds in the amount of \$35,000 have been voted by the Newberg Elementary School District to finance construction of an elementary school in Newberg, Ore.

16—BANKS, STORES AND OFFICES

SAN FRANCISCO.—D. & J. Sullivan, 1942 Folsom Street, at approximately \$7,000 awarded contract for underpinning structure adjacent to the Bohemian Club at the northeast corner of Post and Taylor Streets. W. P. Day, Financial Center Bldg., architect.

Plans Being Prepared.
STORE Cost, \$50,000
EUREKA, Humboldt Co., Cal. Fourth and F Streets.
One-story, mezzanine floor and basement reinforced concrete store building (24,500 square feet of floor space).
Owner—Domingo A. Zanone.
Plans by Engineering Dept. of Montgomery Ward & Co., Chicago.
Lessee — Montgomery Ward & Co., Chicago.
Bids will be asked within a few days.

Contract Awarded.
ALTERATIONS Cost, \$2500
OAKLAND, Alameda Co., Calif. NE Twentieth and Broadway.
Alterations to store.
Owner—Gray Shop, premises.
Architect—Alben Froberg, Ray Building, Oakland.
Contractor — H. J. Christensen, Ray Bldg., Oakland.

Plans Being Completed.
BUILDING Cost, \$15,000
FRESNO, Fresno Co., Cal. N Fulton St. near Sumner Ave.
Two-story concrete, frame and stucco medical office building (70x80 ft.) 20 rooms and five-room apartment (flat composition roof, gas heating system, etc.)

Owner—Dr. Roscoe F. Wallace, Fresno
Architect—Chas. E. Butner, Cory Bldg.,
Fresno, and Glikberg Bldg., Sa-
linas.

Bids will be asked in about two
weeks.

Sub-Contracts Awarded.

ALTERATIONS Cost, \$5000
ALAMEDA, Alameda Co., Cal. Park
Street and Santa Clara Avenue.
Alterations to one-story frame store
building.

Owner—E. M. Shaw.
Architect—H. A. Minton, 525 Market
St., San Francisco.

Contractor—Leslie E. Alley, 1621 En-
cinal Ave., Alameda.

Plumbing—Frank A. Gottstein, 226 8th
St., Oakland.

Sheet Metal—Alameda Sheet Metal
Works, Bay St., Alameda.

Plate Glass—W. P. Fuller & Co., 259
10th St., Oakland.

Black Glass—Progress Glass Co., 1622
Folsom St., San Francisco.

Lumber—Loop Lumber Co., Broadway
and Blanding, Alameda.

Electric—John Ansel, 1401 Park St.,
Alameda.

Sub-Contracts Awarded.

ALTERATIONS Cost, \$2500
SAN FRANCISCO. No. 120 Spring
Street.

Alterations to restaurant.
Owner—J. Coppa, 1668 North Point
St., San Francisco.

Architect—H. W. Sexton, deYoung
Bldg., San Francisco.

Contractor—C. R. Janssen, Hearst
Bldg., San Francisco.

Lumber—Sudden Lumber Co., Evans
and Quint Sts.

Sheet Metal—J. J. Delucchi, 1526
Powell St.

Plastering—F. Mannix, 727 12th Ave.

Hardware—G. B. Jackson, 1929 Irving
St.

Electric—Porter Electric Co., 1500
Church St.

Brick Work—Robert Holding, 334 23th
Ave.

Plumbing—W. E. Trousdale, 422 Turk
Iron—Ace Iron Works, 159 South Park

Additional Contracts Awarded.

STORE Cost, \$50,000
SAN FRANCISCO. No. 1041 Market
Street.
Seven-story Class C steel and con-
crete store.

Owner—Weinstein Co. (Isidor Wein-
stein, President), 1041 Market St.,
San Francisco.

Architect—Hyman & Appleton, 63 Post
St., San Francisco.

Engineer—H. Rosenthal, 821 Market
St., San Francisco.

Contractor—Jacks & Irvine, Call
Bldg., San Francisco.

Plumbing, Heating and Ventilating—
Roconi Becker Co., 455 10th St.,
San Francisco, at \$5382.

Sprinkler System—Automatic Fire
Protection Co., 519 California St.,
San Francisco, at \$2695.

Electric—Alta Electric & Engineering
Co., 343 4th St., S. F., at \$4730.

As previously reported, mill work
awarded to National Mill & Lumber
Co., 230 California St., S. F.; roofing
to Alta Roofing Co., 976 Indiana St.,
S. F.; plastering to Peter Bradley, 639
Brannan St. S. F.; marble to Joseph
Musto Sons-Keenan Co., 535 North
Point St.

Vault Door Contract Awarded.

ALTERATIONS Cost, \$2300
SAN FRANCISCO. No. 216 Montgom-
ery Street.

Alterations to stores and offices.
Owner—City Title Insurance Co., 216
Montgomery St., San Francisco.

Architect—Not Given.

Contractor—The Ruegg Co., 369 Pine
St., San Francisco.

Vault Doors—Herman Safe Co., How-
ard and Main Sts.

Preparing Preliminary Plans.

ALTERATIONS Cost, \$1500
HAYWARD, Alameda Co., Cal. B
Street.

Alterations to one-story frame office
building (frame and stucco con-
struction); carpentry work, plas-
tering, painting, etc.

Owner—Hayward Poultry Producers,
B St., Hayward.

Architect—George Patton Simonds,
261 Main St., Hayward.

Contract Awarded.

ALTERATIONS Cost, \$2800
SAN FRANCISCO. No. 216 Montgom-
ery Street.

Alterations to stores and offices.
Owner—City Title Insurance Co., 216
Montgomery St., San Francisco.

Architect—Not Given.

Contractor—The Ruegg Co., 369 Pine
St., San Francisco.

Contract Awarded.

LIBRARY Cost, \$4500
OAKLAND, Alameda Co., Cal. No.
724 14th Street.

One-story Class C library.
Owner—Oakland Jewish Federation,
724 14th St., Oakland.

Architect—Not Given.

Contractor—F. A. Muller, Syndicate
Bldg., Oakland.

Project Postponed.

STORES & OFFICE Cost, \$25,000
SUSANVILLE, Lassen Co., Cal.

Two-story reinforced concrete store
and office building (140x25 ft.) tar,
gravel and tile roof, steam heat-
ing system, oak floors, etc.

Owner—Mr. Dedeck.

Plans by Paul J. Moscarella, Sara-
toga.

Project has been postponed until
Spring of 1934.

On bid opening lowest bid was sub-
mitted by E. A. Hathaway, San Jose
at \$21,672.

Sub-Contracts Awarded.

STORE Cost, Price, \$4231
SAN FRANCISCO. Chestnut Street
N Mallorca Way.

One-story reinforced concrete store
(25x70 feet) tar and gravel roof,
concrete floors, etc.

Owner—Martin Stelling, 155 Montgom-
ery Street.

Architect—Bertz, Winter and Maury,
631 Market Street.

Contractor—Young & Horstmeyer, 461
Market Street.

Steel Sash—Soule Steel Co., 461 Mar-
ket Street.

Plumbing—Dowd & Welch, 3558 16th
Street.

Glass—W. P. Fuller & Co., 301 Mis-
sion Street.

Mill Work—Brannan Street Planing
Mill, 560 Brannan St.

As previously reported, reinforcing
steel awarded to Soule Steel Co., 1750
Army Street.

Plastering Contract Awarded.

STORE Cost, \$100,000
BERKELEY, Alameda Co., Cal. No.
2030 Shattuck Avenue.

Two-story brick and concrete store
(brick and terra cotta facing,
composition roof, structural steel,
cement, hardwood and terrazzo
floors, plate glass, metal fire doors
ornamental iron, gas heating, etc.)

Owner—S. H. Kress Co., 114 5th Ave.,
New York City.

Plans by Engineering Dept. of Owner.
Contractor—Dinwiddie Construction
Co., Crocker Bldg., San Francisco.

Plastering—Spann Bros., 2145 Ward
St., Berkeley.

Other awards previously reported.

Contract Awarded.

ALTERATIONS Cost, \$—
OAKLAND, Alameda Co., Calif. 1315
Washington Street.

Alterations to store building (fixtures
and cabinet work, etc.)

Owner—Leeds Shore Store.
Architect—Not Given.

Contractor—F. A. Muller, Syndicate
Bldg., Oakland.

Cabinet Work—Standard Cabinet Wks
Inc., Los Angeles.

HEALDSBURG, Sonoma Co., Cal.—
Tanner Bros., Healdsburg, have pur-
chased property on West Street and
plan to make improvements. Further
details will be announced shortly.

Contract Awarded.

STORE ADDN. Cost, \$325,000
LOS ANGELES, Calif. 636 S Hill St

Eight-story and basement Class A
steel frame and reinforced con-
crete addition to department store
(74x133) composition covered re-

inforced concrete roof, steel sash,
terra cotta facing, steel rolling
doors, fire escapes, metal span-

drels, granite bulkheads, reinforc-
ed concrete walls, hollow tile and
metal channel stud, two electric
passenger elevators, one freight
elevator, sprinkler system, steam
heating system, etc.

Owner—Bullock's, Inc.

Architect—Parkinson and Parkinson,
Title Insurance Bldg., Los Ange-
les.

Contractor—P. J. Walker Co., W. M.
Garland Bldg., Los Angeles.

Sub-Contracts Awarded.

ADDITION Cost, \$3000
OAKLAND, Alameda Co., Cal. No.
4632 Telegraph Avenue.

One-story frame and stucco addition
to store and office building (com-
position roofing, plaster exterior,
steel sash, wire glass, structural
steel painting and sheet metal).

Owner—Margaret Burnham Candy
Cottages.

Architect—Not Given.

Contractor—Lindgren & Swinerton,
Inc., 1723 Webster St., Oakland.

Sheet Metal—Edgar Anderson, 3103
San Pablo Ave., Oakland.

Roofing—General Roofing Co., 3985
Beach St., Oakland.

Electric—California Electric Co., 115
12th St., Oakland.

Glass—East Bay Glass Co., 621 Sixth
St., Oakland.

Lumber—Hogan Lumber Co., Second
and Alice Sts., Oakland.

Mill Work—Sheehan-Ballard Planing
Mill Co., 9th and Parker Sts., Ber-
keley.

Lathing and Plastering—Frank Clau-
sen, 819 Santa Ray St., Oakland.

Reinforcing Steel—McGrath Steel Co.,
254 Hohart St., Oakland.

Structural Steel—Herrick Iron Wks.
18th and Campbell Sts., Oakland.

Steel Sash—Michel & Pfeiffer Iron
Works, Harrison and Tenth Sts.,
San Francisco.

Plumbing—Nu-Way Plumbing Co.

SAN FRANCISCO—Square Deal

Floor Co., 3223 Broderick St., at \$69
awarded contract by Department of
Public Works for refinishing floors
in the Superintendent's office at the
San Francisco Hospital.

Sub-Bids Being Taken.

STORES Cost, \$11,500
SAN FRANCISCO. W 9th St. 166 S
Mission.

One-story and mezzanine floor Class
C reinforced concrete store build-
ing (tar and gravel roof, gas heat-
ing system, concrete and wood
floors, etc.)

Owner—L. Meyers, 68 Post Street.

Architect—Hyman & Appleton, 63 Post
Street.

Contractor—Jacks & Irvine, Call Bldg.

18—WHARVES & DOCKS

July 28, 1933

CONTRACT AWARDED

OAKLAND, Alameda Co., Cal.—Architects Kent & Hass, 525 Market St., San Francisco, awarded the contract for electric wiring and light fixtures to Scott-Buttner Electric Company, 9 Grand Ave., Oakland, in connection with the construction of the new boat and train concourses for the Key Terminal Railway Company, Ltd., at the Key Pier, Oakland.
(1451) 1st report May 11; 9th July 19. 1933.

KERN COUNTY, Cal.—Franklin B. Gridley, 256 S. Lake Ave., Pasadena, at \$2355.25 submitted low bid July 31 to District Engineer, State Highway Commission, Fresno, to construct reinforced concrete piers about 5 mi. north of Bakersfield at Oil Junction, involving:

- (1) 270 cu. yds. struc. excav.;
 - (2) 145 cu. yds. Port. cem. concrete, Class A;
 - (3) 6000 lbs. bar reinf. steel.
- Complete bids follow:
(A) Franklin B. Gridley, Pasadena, \$2355.25.
(B) Gogo & Rados, Los Angeles, \$2480.50.
(C) Geo. Hess, Los Angeles, \$3275.35.

Unit bids follow:

	(A)	(B)	(C)
(1).....	\$.50	\$.40	\$ 1.48
(2).....	13.45	14.50	17.35
(3).....	.845	.045	.06

19—MISC. CONSTRUCTION

BERKELEY, Alameda Co., Cal.—Until August 7, 11 A. M., bids will be received by the Regents of the University of California, for the construction of three tennis courts on the University of California Campus, Berkeley. For field information apply to Cashier's Window, California Hall, University of California, Berkeley. Deposit of \$25 required for plans and specifications.

Plans Being Prepared.
RECREATION BLDG. Cost, \$6500
SAN FRANCISCO. No. 229 Minna Street.
Recreation building for St. Patrick's Shelter.
Owner—St. Patrick's Shelter (Mon. Ryan in charge).
Architect—Arnold Constable, 580 Market St., San Francisco.
Bids will be asked at a later date.

WASHINGTON, D. C. — Following are additional contractors and others who have procured plans for the purpose of submitting bids to the Treasury Department on August 9 for retaining walls, roadway, etc., at the U. S. Marine Hospital, San Francisco, Calif.:

- Upchurch Constr. Co., Bell Bldg., Montgomery, Ala.
- E. E. Rsbalais & Son, Bunkie., Ala.
- Wm. Wilby, 112 Dallas Ave., Salem, Ala.
- John Reiss, 807 New Orleans Bank Bldg., New Orleans, La.
- C. King, 1009 Wertland St., Charlottesville, Va.
- H. H. King, 701 West St., Charlottesville, Va.
- Universal Constr. Co., 228 Medical Arts Bldg., Ft. Wayne, Ind.
- Highbridge-International Co., 1526 Sedgwick Ave., Morris Heights, N. Y.
- Tloga Constr. Co., 921 W. Tloga St., Philadelphia, Pa.
- Smythe & Co., 1416 F St., N. W., Washington, D. C.
- Therault Contracting Co., 534 E. Johnson St., Philadelphia, Pa.

Noyes Itoach & Co., Beatrice, Nebr.
Fay Improvement Co., Phelan Bldg., San Francisco.
Healy Tibbitts Constr. Co., 64 Pine St., San Francisco.
C. L. Wold Co., 4412 Fulton St., San Francisco.

RENO, Nevada—City council will consider proposal of Reno Golf and Country Club to convert club into a municipal golf course; project would involve about \$25,000 federal funds to be used for grass greens, sprinkler system, well and pumping plant.

Contracts Awarded.
RECREATION CENTER Cost, \$5000
RICHMOND, Contra Costa Co., Calif. Nichol Park.

Two one-story frame and stucco recreation buildings (men's unit, 27x55 ft.; women's unit, 21x27.6 ft.) locker and shower rooms, toilets, etc.; tile roof, concrete floors (Spanish style).

Owner—City of Richmond.
Plans by City Bldg. Inspector.
Contractor—Tandy & Theis, 1937 Garvin Ave., Richmond, \$3,710.60.
Plumbing—Richmond Plbg. & Heating Co., 451 33rd St., Richmond, \$1,245.50.
Heating bids have been rejected.

GLENDALE, Los Angeles Co., Cal.—City council has authorized the city manager to make application to the Federal Emergency Public Works Administrator for \$200,000 to finance the construction of a garbage reduction plant. Several types have been under discussion. J. C. Albers, city engineer.

WASHINGTON, D. C.—A. W. Ulrich P. O. Box 158, Rosewell, New Mexico, at \$414.75 awarded contract by Treasury Department for planting and seeding grounds at the Rosewell, New Mexico, Post Office and Courthouse.

Bids Wanted—To Close August 7, 10 A. M.
REMODEL HOTEL Cost, \$10,000
MARYSVILLE, Yuba Co., Cal. No. 424 Fifth Street.

Remodel five-story hotel (reinforced concrete and frame construction, brick curtain walls) work involves new roof, exterior, painting, new windows, stormproofing upper part of building, interior changes, etc.)
Owner—Marysville Hotel.
Architect—Chas. Dean, California State Life Bldg., Sacramento.
Engineer—C. A. Worder, Marysville Hotel, Marysville.

Bids are now being received on weatherproofing top story, work involving wood frame and deck, 20-year guaranteed roof, sheet metal work, insulation under roofing and 78 windows complete. Bids are being received by C. F. Aaron, Vice-President Marysville Hotel Co., 405 D St., Marysville. Plans and specifications available from above office and from Room 429, Marysville Hotel.

There will be considerable interior decorating to be let under later contracts. The plans for rooms or apartments, some 30 in number on the top floor, are now being prepared. These will cover carpentry, mill work, plastering, painting, plumbing, heating, papering, insulation, cabinet work, lighting and electrical service, etc.

Planned.
SWIMMING POOL Cost, \$3000
SONORA, Tuolumne Co., Calif. Swimming pool.
Owner—Sonora Swimming Pool Assn.
Plans by Nicholas Olivieri, Sonora.
Funds in the amount of \$2400 have been raised.

COMPTON, Los Angeles Co., Cal.—Jas. H. Park, city manager, announces that application will be made to the Federal government for National Industrial Recovery Act funds for the construction of a municipal gas plant to cost \$250,000.

Construction Under Way.
ADDITIONS Cost, \$20,000
CORCORAN, Kings Co., Cal. Additions to cotton gin (200 square bales per day).
Owner—San Joaquin Ginning Company, Corcoran.
Plans by Owner.
Work is being done by the owner's own forces.

BURBANK, Los Angeles Co., Cal.—Miscellaneous projects totalling \$811,542 have been included in the Federal public works program by City Engineer H. I. Stites, upon authority granted by the Burbank city council. The list, which will be forwarded to the county headquarters, follows:
Hollywood Way (pave and grade separation)\$225,000
Parks 152,650
Sewers 125,000
City hall, jail, hospital unit, public restrooms 100,000
Public service (water mains, etc.) 53,892
Rowe Avenue 50,000
Police and fire alarm systems.. 50,000
Library 35,000
Storm drains 20,000

SAN FRANCISCO—Following bids received by U. S. Engineer Office, San Francisco, to repair U. S. Motor Boat "H. L. Demeritt":
Harold R. Fish & Co., Foot 19th Ave., Oakland, \$108.45.
Crowley Launch & Tug Boat Co., Pier 17, San Francisco, \$127.50.
Geo. W. Kneass Co., 18th and Illinois Sts., San Francisco, not total.

To Be Done By Day's Work.
MINE PROJECT Cost, \$50,000
WEST POINT, Calaveras Co., Cal. 4 Miles North of Jackson.
Group of buildings for gold mining project (work includes general construction, plumbing, concrete work, steel, lumber, plastering, painting, etc.)
Owner—Calzona Mining Company.
Engineer—George S. Young, Central Bank Bldg., Oakland.
Mgr. of Construction—R. G. Roberts, 4840 Proctor Ave., Oakland.
Sub-bids will be taken by Mr. Roberts within a few weeks.

Buildings consist of: Group of one-story frame and stucco buildings (accommodation for 50 men each); two-story four room cook house, upper floor capacity, six; four-story heavy timbered stamp mill, with rock crusher, four ore bins each with 500 ton capacity, two ball mills (to be supplied by the Ball Co.) for separating gold from ore; two bath-houses, one-story; a one-story tool house and blacksmith shop; and a one-story office, post office and general store building. All structures will have concrete foundations, granite coated roofing, and the heavier ones with timber and reinforcing steel construction.

Lumber Contract Awarded.
PLATFORM Cost, \$12,000
OAKLAND, Alameda Co., Cal. Foot of Market Street.
Concrete platform.
Owner—Howard Terminal, First and Market Sts., Oakland.
Architect—Reed and Corlett, Bank of America Bldg., Oakland.
Contractor—S. G. Johnson, 4652 Dolores St., Oakland.
Lumber—Sunset Lumber Co., 400 High St., Oakland.

As previously reported, structural steel awarded to Moore Drydock Co., foot of Adeline St., Oakland; concrete to J. H. Fitzmaurice, 2857 Hannan St., Oakland.

BERKELEY, Alameda Co., Cal.—Following have procured plans for the purpose of submitting bids to the Regents of the University of California on August 7 for the construction of three tennis courts on the University of California Campus, Berkeley.

J. H. Fitzmaurice, 2857 Hannan St., Oakland.

W. H. Larsen, 432 Michigan St., Berkeley.

Malott & Peterson, 20th St. at Harrison St.

Price Constr. Co., 1723 Webster St., Oakland.

Tieslau Bros., 1315 Allston Way, Berkeley.

(2279) 1st report July 28, 1933

SANTA MONICA, Los Angeles Co., Cal.—The city council has under consideration the construction of a \$75,000 incinerator for city garbage and waste. Application will be made for N.R.A. funds.

20—MISC. SUPPLIES AND MATERIALS

SAN FRANCISCO.—Until August 11, 3 P. M., under Bid No. 1060, bids will be received by T. A. Brooks, city purchasing agent, to furnish turpentine, shellac, linseed oil, etc., for the term Sept. 1 to Dec. 31, 1933. Specifications obtainable from above office.

SAN FRANCISCO.—Following bids received by U. S. Engineer Office to furnish 1200 barrels Portland cement in non-returnable 5-ply paper bags for delivery to South Jetty, Humboldt Bay. All bids f.o.b. plants:

Yosemite Portland Cement Co., 2% 10 days, \$2.49.

Henry Cowell Cement Co., do, \$2.49.

Santa Cruz Portland Cement Co., do \$2.49.

Pacific Portland Cement Co., da, \$2.49.

Calaveras Cement Co., do, \$2.49.

Monolith Portland Cement Co., 2% on or before 10th, \$2.49.

E. C. MacDonald, Eureka, 2% ten days, \$2.69.

DENVER, Colo.—Until August 14, 2 P. M., under Specifications No. 598-D, bids will be received by U. S. Bureau of Reclamation, Denver, Colo., to furnish one lot seat frames, bronze liners, and anchor rods. Specifications obtainable from above office.

SAN FRANCISCO.—Nissen Carrier, 667 Howard St., at \$21.85 for 273 sets and at \$33.75 for 50 sets, awarded contract by U. S. Forest Service to furnish garage door hardware as follows:

(1) 273 doors 9-ft. 4-in. x 10 ft.;

(2) 50 do 12-ft. x 10 ft.

SAN FRANCISCO.—Yosemite Portland Cement Co., Alaska Commercial Bldg., San Francisco, at \$2.49 2% 10 days, awarded contract by U. S. Engineer Office to furnish 1200 bbls, Portland cement in non-returnable 5-ply paper bags for delivery to South Jetty, Humboldt Bay.

OAKLAND, Cal.—Until Aug. 11, 8 P. M., informal bids will be received by John H. Kimbal, Secretary, East Bay Municipal Utility District, 512 16th St., Oakland, to furnish:

(1) 3000 lin. ft. 2-in. mesh 72-in. high No. 9 gal. chain link fence, copper-bearing wire;

(2) 240 H columns copper-bearing line posts, 2¼-in., 8-ft. 8-in. long, galv. weight 4.1 lbs. per lin. ft.;

(3) 24 gate posts, 3-in. tubular gates, galv. copper-bearing steel, 10 ft. long, weight not less than 5.79 lbs. per lin. ft.;

(4) 6000 ft. No. 7 gal. spring coil tension wire with turnbuckle at each terminal;

(5) 9000 ft. 4 point No. 12½ gal. galv. Aster weaving barbed wire with barbs placed 4-in. apart.

Specifications obtainable from above office. Proposal 488.

Preparing Working Drawings.

RECREATION BLDG Cost, \$6500
SAN FRANCISCO. No. 229 Minna Street.

Recreation building for St. Patrick's Shelter (steel frame Class C. brick construction).

Owner—St. Patrick's Shelter (Mon. Ryan in charge).

Architect—Arnold Constable, 580 Market St., San Francisco.

Bids will be asked in about ten days.

SAN FRANCISCO.—Following bids received by U. S. Engineer Office to overhaul two Hall-Scott 4-cylinder 4-cycle 50-70-hp. marine engines for U. S. motor boat "H. L. Demeritt":

Sansome-Pacific Garage, 825 Sansome St., \$501.30; no time stated.

Theo. H. Smith Machine Works, \$588.78; 14 days, 2% 10 days.

Crowley Launch & Tugboat Co., \$824 8 days, no discount.

Motor Parts Sales Co.—no total.

Bids held under advisement.

SAN FRANCISCO.—Standard Asbestos Company, 744 Folsom St., at \$46 awarded contract by Department of Public Works for insulating hot water tank in Room 68, City Hall.

SUNNYVALE, Santa Clara Co., Cal.—California Nursery Co., Niles, at \$21,890 awarded contract by U. S. Bureau of Yards and Docks, Navy Department, for landscaping at the U. S. Naval Station, Sunnyvale.

SAN FRANCISCO.—Schrader Iron Works, Inc., 1247 Harrison St., awarded contract by U. S. Forest Service for steel trusses complete with taps and bases, braces and rough hardware for fifty warehouses in California for the U. S. Forest Service. Award made as follows:

Forty-one Type 1 bldgs., \$3.27 each.

Nine Type 2 buildings, \$2.20 each.

PHOENIX, Ariz.—Until Aug. 15, 2 P. M., bids will be received by Carl H. Skinner, Superintendent, Phoenix Indian School, 4100 Rhoads Circle, Phoenix, to furnish 1200 bags Portland cement in non-returnable paper bags, Federal Spec. No. SS-C-191.

BOULDER CANYON, Nevada.—Bids for furnishing copper cable and cable clamps, Boulder Canyon Project. Invitation No. A-3261-A, were opened by A. McD. Brooks, Purchasing Agent U. S. Bureau of Reclamation, Denver, Colo., July 24. The bids follow:

(A) The Hendrie & Bolthoff M. & S. Co., Denver, Colo., f.o.b. Boulder City, (1) \$2183.04; (2) \$2912. Alt. f.o.b. New York (3) \$156.74; (4) \$202.10 (4) \$147.40.

(B) The Mine & Smelter Supply Co., Denver, f.o.b. Boulder City, (1) \$2,183.04; (2) \$2972.00.

(C) Graybar Electric Co., Inc., Denver, f.o.b. St. Louis, Mo., (1) \$1972.80; (2) \$2680; Alt. (3) \$156.75 (4) \$202.10 (5) \$147.50.

(D) General Cable Corp., Chicago, f. o. b. St. Louis, (1) \$1972.80; (2) \$2680.

(E) General Elec. Supply Corp., Los Angeles, f.o.b. Orange, (1) \$1990.08; (2) \$2704.00.

(F) Line Material Co., Milwaukee, f.o.b. Boulder City, Nev., (1) \$2160.00; (2) \$2950. Alt. (3) \$179.55; (4) \$236.50; (5) \$174.90.

(G) Nehring Electrical Works, DeKalb, Ill., f.o.b. Boulder City, (1) \$2,160.00; (2) \$2950.00.

(H) American Steel & Wire Co., Denver, f.o.b. Boulder City, (1) \$2,183.04; (2) \$2972.00.

183.04; (2) \$2972.00.

(I) Anaconda Wire & Cable Co., Chicago f.o.b. Boulder City, (1) \$2,183.04; (2) \$2972.00.

(J) Phelps-Dodge Copper Products Corp., New York, f.o.b. Boulder City, (1) \$2183.04; (2) \$2972.00.

(K) Triangle Conduit & Cable Co., Inc., Brooklyn, N. Y., f.o.b. Boulder City, (1) \$2185.92; (2) \$2976.00.

(L) Burndy Engr. Co., Inc., New York, f.o.b. New York, (3) \$156.74; (4) \$202.10; (5) \$147.40.

(M) Southern States Equip. Co., Birmingham, Ala., f.o.b. Birmingham, (3) \$156.75; (4) \$290.25; (5) \$154.00.

(N) Raymond Roth, New York, f. o. b., Bloomfield, N. J. (freight allowed to Mississippi), (3) \$171.00; (4) \$212.85; (5) \$138.60.

(O) The High Tension Co., Inc., Phillipsburg, N. J., f.o.b. Boulder City (3) \$171.00.

LOS ANGELES, Cal.—Until 10 A. M., August 11, bids will be received by A. J. Holm, City Purchasing Agent, for furnishing sand, gravel and rock under Specifications No. 3179 during a period of six months, f.o.b. contractors plant or bunkers, alternate items will be received delivered to various points or tower locations along the department's transmission line road. The requirements are: 7141 tons of ¾-in. crushed rock, grade PM.;

3442 tons of washed concrete sand, grade PS.

LOS ANGELES, Cal.—Until 11 A. M., August 23, bids will be received by A. J. Holm, City Purchasing Agent 107 City Hall, for furnishing and delivering to Water & Power Dept., in such quantities as may be ordered during a period of 12 months beginning September 8, 1933, or with date of contract if subsequent thereto, cable terminals, accessories, etc., under Specifications No. 3176, f.o.b. Water & Power Dept. warehouses and carrier depots, Los Angeles, or f.o.b. bidder's factory, with full freight allowed to such points in Los Angeles. The items are:

(1) Cable terminals for 5000-volt cables, out-door type;

(2) Cable terminals for 5000-volt cable, in-door type;

(3) Cable terminals for 35,000-volt cables;

(4) Cable terminals for low voltage cables;

(5) Cable terminal compound;

(6) Primary junction boxes, 4-way, 500,000 C.M., 5000-volt, 3 phase.

McNEIL ISLAND, Washington.—Until August 8, 2 P. M., bids will be received by F. R. Archer, Warden, U. S. Penitentiary, McNeil Island, for roof covering for the storehouse, auditorium and isolation buildings at the penitentiary. Bids will be received on the following classes of roofing materials:

(1) rigid asbestos shingles;

(2) slates;

(3) Eastern burned clay tile;

(4) Pacific Coast clay tile.

Approximately 11,500 sq. ft. of roofing materials will be required. Drawings and specifications may be seen at the office of George Gove, architect, Puget Sound Bank Bldg., Tacoma.

PANAMA CANAL ZONE.—Until August 17, 10:30 A. M., under Schedule No. 2890, bids will be received by the General Purchasing Officer, Panama Canal Zone, Washington, D. C., to furnish miscellaneous supplies, including structural steel, rigid-steel conduit, iron pipe fittings, bolts, rivets, insulated cable, wire, magnet wire, electric water heaters, electric fans, transformers, storage batteries, etc. Specifications obtainable from above office.

ENGINEERING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

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| 21.—Bridges | 30.—Reservoirs and Dams |
| 22.—Dredging, Harbor Works, Excavations | 31.—Pipe Lines and Walls |
| 23.—Irrigation Proj. | 32.—Sewers & Sewage Disposal Plants |
| 24.—St. Light. Systems | 33.—Water Works |
| 25.—Machinery and Equipment | 34.—Parks & Playgrounds |
| 26.—Railroads | 35.—Tunnels |
| 27.—Fire Alarm Sys. | |
| 28.—Fire Equipment | |
| 29.—Streets & Highways | |

21—BRIDGES

HUMBOLDT COUNTY, Cal.—Evans Constr. Co., 1317 Albee St., Eureka, at \$4602.50 awarded contract by State Highway Commission to construct a sidewalk on the bridge across Redwood Creek, about one-quarter mile north of Orick.

SAN FRANCISCO.—Healy-Tibbitts Const. Co., 64 Pine St., at \$12,099 was awarded contract by Department of Public Works to alter and repair Sixth St. bridge at Channel.

22—DREDGING, HARBOR WORKS, EXCAVATION

PANAMA CANAL ZONE—An allotment of \$675,000 from the public works funds for beginning work on two docks in the Panama Canal Zone was announced recently by Secretary of the Interior Harold L. Ickes, as Federal Public Works Administrator. Of the total allotment \$350,000 to begin construction of Dock No. 15 at Cristobal and \$25,000 to begin construction of Dock No. 14 at the same place. The three Canal Zone projects announced approved by the President and the Special Board of Public Works. Other Panama projects are still under consideration. Work on the docks will start at once. Work on Dock No. 15 will give employment to 127 men and on Dock No. 14 to 53 men. Both docks are to be completed in three years. The largest will be 800x40 feet.

LAGUNA BEACH, Los Angeles Co., Cal.—The city council has under consideration a proposal submitted by the Lions Club at an informal hearing requesting that application be made for federal funds to finance the construction of a breakwater. Arthur J. Stead, consulting engineer, 490 Thalla St., Laguna Beach, submitted a preliminary plan calling for a breakwater to extend 720 ft. into the ocean, and costing \$60,000.

SAN FRANCISCO—Until August 14, 3 P. M., under Circular Proposal No. 34-5, bids will be received by U. S. Engineer Office, 401 Custom House, San Francisco, for repair work to dredges as follows:

- (1) Build up tips of 4 blades of the semi-steel propeller wheel of the dredge "San Pablo;"
- (2) Build up pump shaft of the dredge "Mackenzie" with hard facing.

Specifications obtainable from above office. Delivery f.o.b. U. S. Government Truck at Contractor's plant in the vicinity of San Francisco.

24—ST. LIGHT. SYSTEMS

SAN FRANCISCO.—Severin Electric Co., 172 Clara St., at \$13,989 awarded contract by the Department of Public Works to erect lighting system in Alemany Blvd., Sections B and C, Mission to San Jose, involving 96 ornamental iron standards and appurtenances to be erected, assembled and hauled (furnished by the city).

25—MACHINERY AND EQUIPMENT

OAKLAND, Calif.—Chevrolet Motor Co., Foothill Blvd. and 69th, Oakland, at \$498.95 awarded contract by city council to furnish three coupes for the Electric Department.

PASADENA, Cal.—Until 10:30 A. M. Aug. 22, bids will be received by city directors to furnish and deliver not less than ten units nor more than 32 units metal clad switch gear and appurtenances and certain spare parts, f.o.b. Santa Fe station, Pasadena, for the Lamanda Park substation. The estimated cost is \$20,000. B. F. De Lanty, Superintendent of the Municipal Power Department. Bessie Chamberlain, city clerk.

MARYSVILLE, Yuba Co., Cal.—Until August 11, 5 P. M., bids will be received by Marysville Union High School District to furnish one Model T 33 D GMC chassis, 257 cu. in. valve-in-head motor, 8.25/30 tires, extended frame to 232-in. wheelbase, and one Model 92-220BB P & C all steel double strength school coach body. Specifications obtainable from above.

SACRAMENTO, Cal.—Contracts for tractors, graders, road rollers and trucks awarded by the State Purchasing Agent, Sacramento, follow:

Req. No. 6080, tractor, f.o.b. North Hollywood, to J. I. Case Co., Oakland. Bids were opened July 10.

Req. No. 6078, four tractors, f.o.b. North Hollywood, to Smith, Booth, Usher Co., Los Angeles. Bids were opened June 30.

Req. No. 6071, 22 trucks f.o.b. North Hollywood, to General Motors Truck Co. Bids were opened June 26.

Req. No. 6083, tractor, f.o.b. North Hollywood, to J. I. Case Co., Oakland. Bids opened June 29.

Req. No. 6081, one 5-ton gasoline road roller, f.o.b. North Hollywood to Smith, Booth, Usher Co., Los Angeles. Bids opened June 26.

Req. No. 6077, five graders, f.o.b. North Hollywood, to Smith, Booth, Usher Co., Los Angeles. Bids were opened June 26.

Req. No. 6109, one graded, f.o.b. North Hollywood, to Spears-Wells Machinery Co., Oakland. Bids opened June 26.

Req. No. 886, three tractors, f.o.b. San Bernardino to J. I. Case Co., Oakland. Bids opened July 6.

Req. No. 887, three graders, f.o.b. San Bernardino, to Spears-Wells Machinery Co., Oakland. Bids opened July 6.

Req. No. A-1195, tractor graders, f. o. b. Lone Pine, to Bevis Machinery Co., Los Angeles. Bids were opened July 13.

Req. No. 8401, road rollers, f.o.b. Fresno, to Jenison Machinery Co., San Francisco. Bids were opened July 8.

Req. No. 8396, eight graders, f.o.b. Fresno, to Austin-Western Road Machinery Co., San Francisco. Bids opened July 7.

MERCED, Merced Co., Cal.—Until 12 o'clock noon, August 14, bids will be received by the Fairmead Grammar School District, for one bus chassis with factory standard wheel base of 164 inches, full floating rear axle, six cylinder L-head motor and equipped with a custom built 42 passenger grammar school body. The specifications are on file with the clerk of the board.

SANTA ANA, Orange Co., Calif.—Until 7:30 P. M., August 14, bids will be received by city council for one latest model motor driven street sweeper complete, including electric lighting and starting equipment, pneumatic tires, and puncture proof tubes. Certified check 10%. E. L. Vegely, city clerk. J. L. McBride, city engineer.

REDDING, Shasta Co., Cal.—Until August 15, 10 A. M., to be opened at 2 P. M., under Quotation No. 2288, Requisition No. 14606-½, bids will be received by State Purchasing Agent, Sacramento, to furnish one heavy duty Diesel-engine-driven power shovel for delivery at Redding, as follows:

1¼-yard capacity bucket; enclosed gears; revolving frame rollers; enclosed cab; etc. Specifications obtainable from above office.

MONTEREY, Cal.—Until Aug. 15, 10 A. M., to be opened at 2 P. M., under Quotation No. 2287, Requisition No. 7947½, bids will be received by State Purchasing Agent, Sacramento, to furnish one Diesel-engine-driven power shovel for delivery at Monterey, as follows:

Minimum weight 78,000 lbs.; 1¼ yd. bucket; revolving frame rollers; enclosed gears; enclosed cab, etc. Specifications obtainable from above office.

26—RAILROADS

LOS ANGELES, Cal.—Until 11 A. M., August 21, bids will be received by A. J. Holm, City Purchasing Agent, 107 City Hall, to furnish and deliver to Harbor Department f. o. b. cars or trucks, Santa Fe spur in Weston St. easterly of Blinn Ave., Wilmington, and/or f.o.b. cars or trucks harbor department's supply yard, Berth 161, Wilmington, new or used standard tee rail section, railroad rails and accessories under Specifications No. 3191. The schedule of quantities is as follows:

- (1) 420 tons (when new) rail, new or used, A.R.A.-A. standard tee rail section, weighing when new 90

CAPITAL CITY TITLE COMPANY

J. C. PALEN,
Manager

914 Seventh Street

Sacramento :: California

- lbs. per yd., in 33-ft. lengths;
- (2) 16,650 pcs. tie plates, new or used, for 90-lb. A.R.A.-A. rail as specified under item (1) above, 8x3 3/4-inch;
 - (3) 900 pairs (1800 pcs.) hall joints, new or used, 100% continuous, 4-hole, 27-in. long, for 90-lb. A.R.A.-A. rail as specified under item (1) above;
 - (4) 900 pairs (1800 pcs.) angle bars, new or used, 100% reinforced, 6-hole, for 90-lb. A.R.A.-A. rail as specified under item (1) above. (Note: items Nos. 3 and 4 are alternates and bidders may quote on either or both items, but award will be made for one item only);
 - (5) 30 200-lb. kegs track bolts, new, 7/8 x 4 1/2-in., with nuts, 1 1/2-in. square by 1 1/2-in. thick;
 - (6) 400 lbs. spring steel nutlock s, 3/8-in. by 1-in., new, for 7/8-in. bolts
- The above materials will be used in construction of M.T.R.R.-A.T.&S. F. railway connection.

28—FIRE EQUIPMENT

SANTA BARBARA, Cal.—City council has voted \$1100 for fire equipment, including Foamite extinguishers and other auxiliary equipment for the trucks. F. W. Stronach, Chapala Fire Station, is chief of the department.

BERKELEY, Alameda Co., Cal.—Fire Chief Geo. Haggerty requests new fire equipment including 10,000 ft. hose, fire boxes and construction of new fire house.

30—RESERVOIRS & DAMS

OAKLAND, Cal.—Directors of the East Bay Municipal Utility District, 512 16th St., Oakland, will ask federal funds in the amount of \$5,568,000 through the National Industrial Recovery Act to construct Middle Bar Dam, Mokelumne river, transmission line to Pardee Dam, thence to Oakland, and a stand-by plant for the East Bay District. Dam will be curved gravity type, 156-ft. from foundation to spillway crest; will have runway on top of dam; siphon spillways; will be 28 ft. thick at top, 110 ft. thick at base; length 535 ft. at crest; will involve about 90,000 cu. yds. of concrete. Capacity of reservoir will be about 30,850 acre feet. Estimated cost of dam, \$950,000. A power house will be constructed at Middle Bar, 10 miles up stream from the Pardee Dam, 9000 k.w. installed capacity. The transmission line, total length approx. 90 miles, will be constructed from the Middle Bar Dam to the Pardee Dam power house, thence to stand-by plant to be constructed in Oakland for the East Bay District. The Oakland plant will have an installed capacity of 20,000 kw. R. C. Kennedy is project engineer. John H. Kimball, secretary of

LOS ANGELES, Cal.—Water and power commission will apply for federal public works funds in the sum of \$27,800,000 to finance the Mono Basin and Owens Valley construction projects. The funds will be expended approximately as follows:

Mono Basin aqueduct, including tunnels, \$8,000,000.

Purchase of land in Mono Basin, \$8,000,000.

Long Valley reservoir, including dam, gate towers, diversion tunnel and by-pass, \$1,500,000.

Purchase of land in Owens Valley (amount not available).

Additions and betterments to Los Angeles local water system, \$10,000,000.

Additions and betterments to Los Angeles aqueducts \$750,000.

Additions and betterments to gen-

eral structures (shops, warehouses, garages and offices), \$600,000.

SEATTLE, Wash.—Public Works Control Board approves construction of power dam at the Grand Coulee site, Columbia River, estimated cost \$60,000. Plans will generate 250,000 k.w. primary and secondary power. Dam will be 145 ft. high, with provision for ultimate height of 370 feet. Thirty per cent of the \$60,000 will be an outright Government grant, the balance to be repaid by the Columbia River Commission at 4%.

NYSSA, Ore.—J. A. Terteling & Son, 511 Sound St., Spokane, Wash., awarded contract by the U. S. Bureau of Reclamation, Denver, Colo., at \$118,404.50, for furnishing labor and materials and performing all work for construction of earthwork and structures, North Canal, station 260 (Owyhee River Siphon) to station 513, Mitchell Butte division, Owyhee Project, Oregon-Idaho. The work is located near Nyssa and Adrian, Ore., on the Oregon Short Line Railroad.

LOS ANGELES, Cal.—All bids for the construction of the Eaton Wash Debris Dam in Eaton Canyon were rejected by County Supervisors, July 31. The bids were opened July 10, at which time Mittry Bros. Constr. Co., was the low bidder at \$224,382. The project may be revived if federal public works money is obtained under the N. R. A.

32—SEWERS & SEWAGE DISPOSAL PLANTS

SAN BRUNO, San Mateo Co., Cal.—Fairbanks, Morse & Co., Spear and Harrison Sts., at \$1303.30 awarded contract by city council to furnish two sewage pumps for Lomita Park outfall sewer.

City council at the same time decided to purchase one pump for the Belle Air unit from United Iron Works 142 Sansome St. (no total available).

MONTEREY, Cal.—City Council plans construction of an outfall sewer, estimated cost \$85,000; project in connection with additions to Oak Grove and Mesa sewer system, estimated cost, respectively, \$10,000 and \$7500. Federal funds may be asked for these projects under the National Industrial Recovery Act.

BERKELEY, Cal.—Until August 8, 10 A. M., bids will be received by Florence E. Turner, City Clerk, to construct storm sewer in Indian Rock Ave., involving:

- (1) 1060 lin. ft. 15-in. vit. sewer pipe;
- (2) 310 lin. ft. 10-in. do;
- (3) 10 lin. ft. 8-in. do;
- (4) 7 catchbasins;
- (5) 2 curb inlets;
- (6) 3 manholes.

Specifications obtainable from above office on deposit of \$10. Certified check 10% required with bid. H. Goodridge, city engineer.

PALO ALTO, Santa Clara Co., Cal.—City council plans to seek federal funds under the National Recovery Act in the amount of \$48,000 for the following improvements:
Sewage system extensions, for sludge digestion (not included in the present \$90,000 sewer bond project) \$28,000;

Replace mains, \$15,000;

Power plant, \$5000.

PALO ALTO, Santa Clara Co., Cal.—N. Clark & Sons, 116 Natoma St., San Francisco, at \$11,692.25 awarded contract by city council to furnish vitrified salt glazed sewer pipe in con-

nection with new sewage disposal system.

PALO ALTO, Cal.—Western Pipe & Steel Co., 444 Market St., San Francisco, at \$3050 awarded contract by city council to furnish sedimentation tank and sludge pump in connection with new sewage disposal system.

PALO ALTO, Cal.—Pacific Tank & Pipe Co., 230 California St., San Francisco, at \$8997 awarded contract by city council to furnish wood stave pipe in connection with new sewage disposal system.

LOS ANGELES, Cal.—J. E. Rockhold, county surveyor, has completed his estimate of cost for the construction of sewers in Lennox unit No. 4, Los Angeles county. The cost is estimated at \$125,000, not including incidentals. The items follow:

- 66,200 ft. 8-in. conc. pipe main line sewer;
- 8-in. cast iron pipe main line sewer;
- 1300 ft. 10-in. conc. ppe main line sewer;
- 29,400 ft. 6-in. conc. pipe house connections;
- 100 ft. 6-in. conc. pipe chimney pipe; manholes; junction chambers;
- 1500 ft. red brass pipe.

33—WATER WORKS

MADERA, Madera Co., Cal.—Peerless Pump Service, 1864 21st Street, Fresno, at \$300 awarded contract by city council to rent one test pump, 1800-gpm., 110 ft. total head, 100 ft. setting, 20 ft. suction, 440-volt motor, temporary switchboard, 1 piece measuring orifices. City to furnish power.

Complete bids follow:

Peerless Pump Service, Fresno.....\$300
Johnson Turbine Pump, Madera.... 350
D. Stephenson, Madera..... 350
Byron-Jackson Co., Visalia..... 754

COLTON, San Bernardino Co., Cal.—The Colton Chamber of Commerce and the city council have under consideration plans for a \$70,000 bond issue to finance the city's share of a \$100,000 program for improvements to the municipal water system. Application will be made for federal aid for the \$30,000 balance. The proposed improvements include:

Drilling of two 30-in. wells, 550 ft. deep, housing for same, bowl type pumps of 200 miner's inches capacity each pump, replacing of three old pumps and rebuilding 3 pump houses, \$20,000.

Construction of a reinforced concrete reservoir, 186x250 ft. by 12 ft. deep, with corrugated iron roof, 3,000,000-gal. capacity, \$45,000.

Replacements of pipe lines, \$26,000, involving:

30,000 ft. 6-in. pipe (type not selected)
3,000 ft. 10-in. pipe (type not selected)
3,000 ft. 8-in. pipe (type not selected).

C. H. Maxwell, water superintendent. 33

TORRANCE, Los Angeles Co., Cal.—City council on July 26 adopted a resolution requesting the Torrance Water, Light and Power Co., now serving the city, to give the city an option for a period of sixty days to purchase the company's water system at \$113,441, the valuation placed on the system by the firm of Salisburg, Bradshaw & Taylor, consulting engineers, who were retained to make a survey of the system and recommendations. The company was given ten days in which to reply. The total cost of acquiring the present system, making the necessary extensions, and constructing reservoir, etc., will be \$330,238. The engineers estimate the cost of constructing a complete new sys-

tem at \$363,872. A \$400,000 bond issue has been voted, validated, and ready for issuance in connection with an application to be made to the federal government for National Industrial Recovery Act funds.

The present system obtains its water from the Dominguez wells via a 33-in. steel pipe line owned by the Dominguez Water Co. The new plan proposes wells in the western part of town. Extensions required if the city takes over the old system will amount to \$81,528. This makes the total cost of acquiring the old system \$194,969. A resume of the consultant's report follows:

Replacement value for purposes of acquiring system, \$113,441.

Extensions, \$81,528, involving:
 4,660 ft. 4-in. cast iron pipe;
 26,295 ft. 6-in. cast iron pipe;
 9,430 ft. 8-in. cast iron pipe;
 2,990 ft. 10-in. cast iron pipe;
 7,925 ft. 12-in. cast iron pipe;
 1,850 ft. 10-in. riveted steel irrigation pipe.

Necessary gate valves, fittings, etc. Drilling two wells, 16-in. diameter, 700 ft. deep, one at reservoir site the other about 2000 ft. away, \$19,103.

Deep well turbine pumps, 200-ft. column, 2,000,000-gal. daily capacity, including pump houses and fittings, \$6670.

Reinforced concrete dual type reservoir, 5,000,000-gal. capacity, 91x107 ft., 20 ft. deep, 4-in. Gunitite walls, with wooden roof, \$45,892.

Pipe line from wells to reservoir, 2200 ft., 14-in. reinforced concrete pipe, \$4972.

Booster pumps, 2 1350 GPM turbine pumps, \$5033.

Pipe line from reservoir to main distributing system, involving 930 ft. 16-in. cast iron pipe, \$3468.

Sandtrap or eliminator, \$130.

Aeration equipment, \$4760.

Water purification, chlorinator and ammoniating equipment, \$4181.

Purchase of land, \$13,500.

SAN FRANCISCO — Worthington Pump Co., 543 Howard St., San Francisco, at \$616.52 submitted low bid to U. S. Forest Service, to furnish one centrifugal pump and gas motor.

ALDERWOOD MANOR, Wash.—Joe Coluccio, 1425 Hanford St., Seattle, at \$181,095 awarded contract by Alderwood Water District to construct water distribution system, involving 62 miles pipe laying. 33

OAKLAND, Cal.—Until Aug. 11, 8 P. M., bids will be received by John H. Kimball, Secretary, East Bay Municipal Utility District, 512 16th St., Oakland, to furnish:

- (1) 20,000 lin. ft. Class B or Class 150 4-in. b&s cast iron pipe;
- (2) 80,000 lin. ft. Class B or Class 250 6-in. b&s cast iron pipe;
- (3) 25,000 lin. ft. Class B or Class 250 8-in. b&s cast iron pipe.

Specifications obtainable from above office.

ALHAMBRA, Los Angeles Co., Cal.—All bids for furnishing 3800 ft. 18-in. cement-lined cast iron pipe, opened July 18, were rejected by city commission August 1. T. B. Downer is the water superintendent and chief engineer.

SANTA MONICA, Los Angeles Co., Cal.—Ipamco Pipe Corp., 135 N. Beachwood Drive, Los Angeles, awarded contract by city council July 31 at 60.5c ft. for 10,000 ft. 6-in., class B sand cast iron water pipe, delivered at the city yards, 9th and Colorado Sts., Santa Monica.

SAN FRANCISCO—Until Aug. 11, 3 P. M., under Bid No. 1058, bids will be received by T. A. Brooks, City

Purchasing Agent, 270 City Hall, to furnish pipe and fittings for a term of four months from August 14, 1933. Specifications obtainable from above office.

OAKLAND, Cal.—Directors of the East Bay Municipal Utility District, 512 16th St., Oakland, plans to ask federal funds through the National Industrial Recovery Act in the amount of \$4,565,000 for extension and improvement work on their waterworks system. John H. Kimball is secretary of the District.

PANAMA CANAL ZONE — Until August 15, bids will be received by the General Purchasing Agent, Panama Canal Office, Washington, D. C., for furnishing 100x18-ft. drum gates and control apparatus, 84-in. internal differential needle valves and gate hangers for Madden Dam Project, Panama Canal Zone, Schedule No. 2885

SAN FRANCISCO—Following bids received by U. S. Forest Service, San Francisco, to furnish 12,600 ft. 1¼-in. galvanized iron pipe and fittings: Gilmore Steel & Supply Co., 825 Folsom St., \$1753.35.

P. E. O'Hair, 945 Bryant St., \$1758.13. Standard Supply Co., San Francisco, \$1764.94.

Baker - Hamilton - Pacific Company, San Francisco, \$1765.

Federal Pipe & Supply Co., San Francisco, \$1773.60.

Richmond Sanitary Co., San Francisco, \$1776.43.

Tay Holbrook Co., San Francisco, \$1777.69.

Grinnell Co., San Francisco, \$1779.59.

Stephen H. McCabe, San Francisco, \$1779.95.

United Pipe & Supply Co., San Francisco, \$1306.27 f.o.b. Wheatland, Pa.

Crane Co., San Francisco, \$2986.68.

Thompson-Diggs Co., Sacramento, \$1527.42, partial bid.

Bids held under advisement.

LOS ANGELES, Calif.—Until 11 A. M., August 15, bids will be received by A. J. Holm, City Purchasing Agent 107 City Hall, for furnishing and delivering to Water & Power Department f.o.b. Department's warehouse, 410 Ducommun St., double disc, round bottom, hub end gate valves under Spec. No. 3186, as follows:

- (1) 150 12-inch valves;
- (2) one 24-inch valve with extended grease case;
- (2 alt.) one 24-inch valve identical to item 2 except without extended grease case and with Alemite lubricating fittings.

BURBANK, Los Angeles Co., Cal.—G. G. McCambridge, public service director, has recommended to the city council that the city apply for federal public works funds to finance extensions and improvements to the water system costing \$53,892. This will provide for:

- 37,000 ft. 6-in. cast iron pipe;
- 2,300 ft. 8-in. cast iron pipe;
- gate valves, fittings, fire hydrants, trenching and resurfacing.

35—TUNNELS

ORDWAY, Colo.—Platt Rogers, Inc. P. O. Box 1006, Pueblo, Colo., awarded the contract by the Twin Lakes Reservoir and Canal Co. at \$1,030,000 for constructing two tunnels between Roaring Fork River on western slope and Twin Lake on eastern slope. One of the proposed tunnels will be 3.82 miles in length, 8x2½ ft. horseshoe section, the other 1.75 miles 7x2½ ft., both concrete lined. The existing dam will be raised 11 ft.

29—STREETS AND HIGHWAYS

LOS ANGELES, Cal.—Bids will be called shortly by the board of public works for the improvement of Grape St. bet. 102nd and 103rd Sts., 763 ft. center line, under the 1911 act. The quantities are:

- (1) grading (1240 cu. yds. cut, 39 cu. yds. fill);
- (2) 29,975 sq. ft. 6-in. concrete pave.;
- (3) 678 sq. ft. asph. conc. wear. surf., variable thickness (average 1½-in.);
- (4) 253 sq. ft. Class D resurfacing;
- (5) 94 ft. integral curb (Detail A);
- (6) 1502 ft. unplas. light curb;
- (7) 6239 sq. ft. 1-course walk;
- (8) sanitary sewer complete (estimate \$726);
- (9) 217 ft. house sewers;

Incidentals: 730 ft. const. joint, 640 ft. transverse expan. joint, 1940 ft. contraction joints (long and trans.) 114 sq. ft. 6-in. conc. underpinning.

Remove: 83 sq. ft. wearing surf., 277 ft. curb, 404 sq. ft. walk, 325 sq. ft. gutter, 28 ft. guard rail, 40 ft. 6-in. pipe, 80 ft. board fence.

WESTERN STATES—Federal Public Works allotments for national park improvements announced by the Federal Public Works Administration are:

CALIFORNIA—General Grant, \$13,000; Lassen Volcanic, \$23,000; Sequoia, \$82,600; Yosemite, \$281,550; Muir Woods, \$4000; Plinchaes, \$5500, and Death Valley, \$19,000.

ARIZONA—Grand Canyon, \$56,000; Casa Grande, \$17,500; Montezuma, Castle, \$5300; Petrified Forest, \$15,000; Tumacaori, \$2000.

IDAHO—Craters of the Moon, \$3000.

HAWAII NATIONAL PARK, \$9500.

ALASKA—Mount McKinley, \$9000.

OREGON—Crater Lake, \$37,400.

UTAH—Eryce Canyon, \$33,400; Zion Park, \$46,500.

WASHINGTON—Mt. Ranier, \$48,000

ARIZONA STATE—Heafey - Moore Co., 640 N 1st Ave., Phoenix, submitted low bid to State Highway Commission, Phoenix, Aug. 1, at \$103,716.88, for highway construction on the St. Johns-Springerville Highway, E-60 and E-63-A. The work, which begins at a point about 11½ miles south of St. Johns and extends southeasterly approx. 8½ miles toward Springerville, consists of grading and draining about ½ of a mile of roadway, the placing of subgrade stabilizer, and the oil processing of the entire length by the road mix method, and is to be completed on or before Dec. 31, 1933.

OAKLAND, Calif.—City Port Commission will ask bids shortly to oil surface in the vicinity of the Oakland Municipal Airport.

SANTA BARBARA COUNTY, Cal.—All bids returned unopened by District Engineer, State Highway Commission, San Luis Obispo, to oil treat existing shoulders over 5 mi. between Summerland and Carpinteria. Project is indefinitely postponed.

FRESNO, Cal.—Jean L. Vincenz, city public works commissioner, has reported that the department plans to regrade and oil Weldon Ave., between Echo and Palm Aves.

LOS ANGELES, Cal.—C. D. Wood, P. O. Box 49, Stockton, also P. O. address, Rice, Calif. (temporary address: C. W. Wood, Hilton Hotel, 535 S Grand Ave., Los Angeles) awarded contract by the Metropolitan Water District, Los Angeles, July 28, at \$45,034.50 for constructing approx. 7.5 mi. of road for the Colorado River aqueduct in accordance with the District's Spec. No. 44. The road is located in

Riverside County and extends from a point on the Mecca-Blythe State Highway approx. 2.9 miles west of Desert Center to a point approx. 7.5 miles north thereof. The work to be contracted for consists of all necessary excavation and grading and the placing of surfacing materials, culvert pipes, riprap, and protection work as shown on the drawings. Julian Hinds, acting chief engineer.

LOS ANGELES, Cal.—Bids will be taken next week by board of public works to improve Exposition Blvd. from Vermont Ave. to Western Ave. under cash contract, involving: grading (lump sum); 5171.36 sq. ft. 2-inch Warrenite-bit. wearing surface; 3987 sq. ft. 1½-in. do; 820 sq. ft. 1-in. do; 2395 sq. ft. rock and oil roadway; concrete driveways; curb; sidewalk; gutter; storm drain; ornamental lighting system. The county supervisors allocated the sum of \$47,401.10 towards the cost of this project.

LOS ANGELES, Cal. — Southern California Roads Co., 2145 E. 25th St., awarded contract by Board of Public Works, July 26, at \$30,070.19, for improving Lincoln Blvd., from Venice Blvd. to Washington Blvd., under Cash Contract.

SONOMA COUNTY, Cal. — Asphalt Pavement Planing Co., 1737 Webster St., Oakland, at \$2052.20 awarded contract by State Highway Commission to pave 4.2 mi. existing asphalt concrete pavement between Willow Brook and Haystack.

MENDOCINO COUNTY, Cal.—Helwig Constr. Co., 115 South Main St., Sebastopol, at \$5775 awarded contract by State Highway Commission, for 7.7 mi. bituminous surface treatment to be applied between Ukiah and Forsthe Creek.

SAN LUIS OBISPO AND MONT-REY COS., Cal.—L. A. Briscoe, Arroyo Grande, at \$3352.30 awarded contract by State Highway Commission to

treat with fuel oil as a dust palliative 14.7 mi. existing roadbed between San Carpojo Creek and Willow Creek.

LAKE COUNTY, Cal.—E. A. Forde, 41 Sunnyside Ave., San Anselmo, at \$6362.50 awarded contract by State Highway Commission for 6-mi. bituminous surface treatment to be applied between the southerly boundary and Middletown.

NEVADA STATE—Following sums allotted to State of Nevada in connection with Public Works, road funds: Federal Aid Highways, \$2,909,000. Extensions into municipalities, \$500,000. Secondary & Feeder Roads, \$2,136,000

ARIZONA STATE—Following sums allotted to State of Arizona in connection with Public Works, road funds: Federal Aid Highways, \$3,804,000. Extensions into municipalities, \$782,000. Secondary and Feeder Roads, \$625,000

SALINAS, Monterey Co., Calif.—City council plans \$7000 street improvement program, including improvement of the following streets: State highway through Salinas: Main St. to John, John to Abbott, and Abbott to the southern city limits; Central Avenue; Market Street; East Alisal Street; South Main Street; Monterey Street; Front Street south of Alisal. Donald Davies, city engineer.

MERCED & MARIPOSA CO., Cal.—Granite Constr. Co., Bln 9, Watsonville, at \$6676 awarded contract by State Highway Commission for bituminous surface treatment between Merced and Orange Hill School, 14.9 mi. existing shoulders and 6.3 mi. existing roadbed.

KERN COUNTY, Cal.—John Jurkovich, 3530 Balch Ave., Fresno, at \$6723 awarded contract by State Highway Commission for bituminous surface treatment between Wasco and Famosa, 8.7 mi. earth shoulders to be oil treated; between Bakersfield and

Kern Canyon, and between Monolith and Cameron, 14.3 mi. existing surfacing to be bituminous surface treatment.

FRESNO COUNTY, Cal.—Stewart & Nuss, 410 Thorn Ave., Fresno, at \$4405.80 awarded contract by State Highway Commission to apply bituminous surface treatment, non-skid, over 3.7 mi. between Kingsburg and Selma.

LOS ANGELES, Calif.—J. J. Jessup, city engineer, is preparing plans for improving Manchester Avenue from Central Ave. to Wall St., under cash contract. The county supervisors previously agreed to allocate \$91,574.00 toward this work. The revised quantities as prepared by the engineer follows: 2,950 cu. yds. grading; 3,225 ft. curb; 70,550 sq. ft. sidewalk; 6,000 sq. ft. 2-in. concrete gutter; 35,323 sq. ft. 8-in. conc. pavement; 41,323 sq. ft. 6-in. concrete base; 506 tons 2-in. Warrenite-Bit. pavement (Section A); 110 tons 8-in. do. (Section C); 4,392 tons do. (Section B); sanitary sewer; water system; traffic signals; ornamental lighting system; remove: 16,218 sq. ft. existing concrete pavement.

LOS ANGELES, Calif.—J. J. Jessup, city engineer, has prepared a preliminary estimate for improving Ramona Blvd. 100 ft. east of Soto St. to Aliso St.; Aliso St., Ramona Blvd. to Mission Road, under cash contract, involving: 196,772 cu. yds. excavation; 27,564 cu. yds. fill; 16,346 lin. ft. cement curb; 328,720 sq. ft. 8-in. pavement; 2,230 lin. ft. bulkhead; retaining walls at Macy St. bridge.

Bridges in connection with the above project for which R. W. Stewart, bridge design engineer, is preparing plans, are:

- Marengo St., \$28,000.
 - Cornwell St., \$30,000.
 - Lord St., \$27,400.
 - State St., \$40,000.
- The total cost of the project is estimated at \$320,000.

SAN FRANCISCO.—Department of Public Works, S. J. Hester, Chief Deputy Director, plans to improve Colby from Silver Avenue to Silliman, involving:

- (1) 1800 cu. yds. excavation;
 - (2) 150 ft. 8-in. V.C.P. sewer;
 - (3) 5 Y branches;
 - (4) 40 ft. 6-in. V.C.P. side sewer;
 - (5) 1 brick manhole.
- Estimated cost, \$1300. John J. Casey city engineer, 3rd floor, city hall.

LOS ANGELES, Calif.—Until 2 P. M., August 21, bids will be received by county supervisors to pave Slauson Ave. in Maywood from Mayflower to Riverside Drive, 2615 lin. ft. or 0.50 mile, under cash contract, involving: 4,723 cu. yds. excav., including removal of trees, walks and curbs; 4,934 lin. ft. 6x9x15 cem. conc. curb; 33,290 sq. ft. 6-in. cem. conc. gutter; 65 cu. yds. cem. conc. cross gutter, type D; 2,334 sq. ft. 1½-in. pre-mix pave.; 463 sq. ft. 8-in. cem. conc. pave.; 71,600 sq. ft. 4-in. asph. conc. base; 2,340 tons 2-in. asph. conc. surface; 2 drainage structures; 575 lin. ft. 1½-in. furnish and place lighting conduit; replace and rest manhole at ayflower 9ve.

Geo. W. Jones, county road commissioner, Mame B. Beatty, clerk of the board, 501 Hall of Records.

4.4-MI. ASPH. CONCRETE PAVE — SAN DIEGO CO

SAN DIEGO COUNTY, Calif.—Griffith Co., 502 Los Angeles Railway Bldg., Los Angeles, at \$70,086.20 submitted low bid August 2 to the State Highway Commission, Sacramento, to grade and pave with Portland cement concrete on 1.8 miles between Broadway and Harasthy St., involving:

- (1) 7200 cu. yds. rdwy. embank.;
- (2) 850 cu. yds. struc. excav.;
- (3) 39,500 sq. yds. subgrade for pave.
- (4) 8350 cu. yds. Class A Port. cem. conc. pave.;
- (5) 2 cu. yds. do. curbs;
- (6) 45 cu. yds. Class do. struc.;
- (7) 188,000 lbs. bar reinf. steel, pave and struc.;
- (8) 2500 lbs. misc. iron and steel struc.;
- (9) 234 lin. ft. 18-in. reinf. conc. pipe;
- (10) 12 lin. ft. 24-in. do;

	(A)	(B)	(C)
(1)	\$.30	\$.27	\$.35
(2)	.70	.60	.50
(3)	.07	.045	.07
(4)	6.10	6.60	7.50
(5)	15.00	15.00	25.00
(6)	18.00	17.91	25.00
(7)	.04	.04	.0375
(8)	.06	.075	.08
(9)	2.20	2.50	3.00
(10)	2.70	3.60	4.00
(11)	8.00	8.50	9.50
(12)	2.00	.80	1.00
(13)	.40	.16	.60
(14)	2.00	2.03	2.00
(15)	4.00	4.00	2.00

- (11) 176 lin. ft. 64-in. do;
 - (12) 285 cu. yds. Port. cem. concrete remove from existing pave. and curb and dispose of;
 - (13) 420 M. gals. water;
 - (14) 1020 barrels heavy fuel oil;
 - (15) 97 sta. finish roadway.
- Complete bids follow:
- (A) Griffith Co., Los Angeles, \$70,086.20.
 - (B) B. G. Carroll, San Diego, \$72,758.75.
 - (C) V. R. Dennis Const. Co., San Diego, \$81,918.00.
 - (D) Gogo & Radis, Los Angeles, \$83,499.00.
 - (E) Weymouth-Crowell Co., Los Angeles, \$84,287.05.
 - (F) Basich Bros., Torrance, \$84,446.55.
 - (G) Matich Bros., Elsinore, \$88,434.70.
- Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
(1)	\$.44	\$.30	\$.36	\$.44	\$.30	\$.36	\$.40
(2)	.40	.30	.42	.40	.30	.42	.50
(3)	.09	.08	.06	.09	.08	.06	.07
(4)	7.50	7.63	8.00	7.50	7.63	8.00	7.96
(5)	15.00	15.00	15.00	15.00	15.00	15.00	15.00
(6)	14.00	20.00	13.00	14.00	20.00	13.00	20.80
(7)	.044	.049	.044	.044	.049	.044	.045
(8)	.10	.07	.075	.10	.07	.075	.11
(9)	2.50	2.40	.45	2.50	2.40	.45	2.50
(10)	3.00	3.00	.75	3.00	3.00	.75	3.00
(11)	8.00	8.70	1.00	8.00	8.70	1.00	8.60
(12)	2.00	.75	.85	2.00	.75	.85	1.50
(13)	.75	.50	.30	.75	.50	.30	2.45
(14)	2.00	1.90	2.25	2.00	1.90	2.25	2.08
(15)	5.00	2.00	3.00	5.00	2.00	3.00	5.00

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

SLOPE EXCAVATION — LOS ANGELES CO.

LOS ANGELES COUNTY, Calif.—Von der Hellen & Pierson, Castlac, at \$56,717.60 submitted low bid August 2 to State Highway Commission, Sacramento, to excavate slopes between Palomas Creek and Whittaker Bridge, 6.3 miles, involving:

- (1) 180,000 cu. yds. slope excav., unclass.;
- (2) 310,000 ml. yds. overhaul;
- (3) 3900 cu. yds. struc. excav.;
- (4) 8 lin. ft. 18-in. corr. metal pipe;
- (5) 34 lin. ft. 24-in. do;
- (6) 50 lin. ft. 36-in. do;
- (7) 3 culvert headwalls, move and re-set.

Complete bids follow:

- (A) Von der Hellen & Pierson, Castlac, \$56,717.60.
- (B) Jahn & Bressi, Los Angeles, \$58,339.40.
- (C) Yglesias Bros., San Diego, \$81,239.50.
- (D) Lang Transportation Co., Los Angeles, \$82,745.60.
- (E) Hall Johnson and M. S. Ross, Alhambra, \$89,986.70.
- (F) Weymouth-Crowell Co., Los Angeles, \$99,933.00.
- (G) T. L. Parker, Los Angeles, \$109,446.00.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
(1).....	\$.185	\$.19	\$.265	\$.339	\$.31	\$.30	\$.385
(2).....	.07	.07	.10	.06	.10	.14	.125
(3).....	.40	.50	.50	.90	.80	.50	.25
(4).....	.30	.50	.50	.25	.40	.50	.50
(5).....	.30	.60	.75	.40	.50	1.00	.50
(6).....	.50	.90	1.00	.40	.75	1.00	.50
(7).....	10.00	20.00	20.00	10.00	18.00	15.00	50.00

1.8-MI. GRADE AND PAVE—SAN DIEGO CO.

SAN DIEGO CO., Cal.—Griffith Co., 502 Los Angeles Railway Bldg., Los Angeles, at \$92,782.20 submitted low bid August 2 to State Highway Commission, Sacramento, to pave with asphaltic concrete 4.4 miles between Barnett Ave. and Balboa Ave., involving:

- (1) 350 cu. yds. struc. excav.;
- (2) 78,000 sq. yds. subgrade for pave.;
- (3) 100 cu. yds. cushion course;
- (4) 33,800 tons asph. concrete;
- (5) 60 cu. yds. Class A Port. cem. concrete curbs and gutters;
- (6) 8 cu. yds. Class A do (struc.);
- (7) 700 lbs. bar reinf. steel (struc.);
- (8) 1100 lbs. misc. iron and steel (struc.);
- (9) 168 lin. ft. 12-in. reinf. conc. pipe

- (10) 136 lin. ft. 14-in. do;
- (11) 2600 sq. yds. asph. paint binder;
- (12) 50 cu. yds. conc. remove from existing pavement and curb;
- (13) 2500 barrels fuel oil;
- (14) 660 guide posts;
- (15) 233 sta. finish roadway.

Complete bids follow:

- (A) Griffith Co., Los Angeles, \$92,782.20.
- (B) V. R. Dennis Const. Co., San Diego, \$94,859.00.
- (C) Daley Corp., San Diego, \$97,871.60.
- (D) Jahn & Bressi, Los Angeles, \$107,769.79.
- (E) Basich Bros., Torrance, \$116,155.20.
- (F) Southwest Paving Co., Los Angeles, \$129,923.60.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)
(1).....	\$.70	\$.40	\$.85	\$.50	\$.40	\$ 1.00
(2).....	.06	.06	.06	.05	.07	.12
(3).....	.50	.50	1.00	.60	1.00	1.00
(4).....	2.35	2.445	2.51	2.825	3.00	3.25
(5).....	12.00	11.00	12.00	12.00	13.00	14.00
(6).....	25.00	25.00	20.00	20.00	14.00	20.00
(7).....	.04	.07	.05	.05	.05	.10
(8).....	.06	.07	.10	.12	.08	.10
(9).....	.30	1.00	.50	.45	.35	.80
(10).....	.30	1.00	.60	.45	.40	.95
(11).....	.02	.02	.03	.01	.03	.06
(12).....	2.00	1.00	2.00	3.00	1.50	2.00
(13).....	2.00	1.80	1.94	2.00	2.50	2.75
(14).....	1.80	1.50	1.75	1.30	1.25	1.50
(15).....	4.00	2.00	2.50	4.00	3.00	3.00

BIDS OPENED

LOS ANGELES COUNTY, Cal.—Gogo & Rados, 10024 S. Figueroa St., Los Angeles, at \$15,751 submitted low bid Aug. 2 to State Highway Commission, Sacramento, to treat with asphaltic road oil 18.6 mi. roadbed and 2-in. earth shoulders between Neenach School and Del Sur Road; and bet. Wet Canyon and Colby Creek, 5.1 mi. roadbed to be treated with asphaltic road oil and bituminous seal coat applied, involving:

- (1) 3450 bbls. 70-80 asph. road oil Rt. 59;
 - (2) 1810 bbls. 70-80 do, Rt. 61;
 - (3) 101 tons 90-95 do, Rt. 61;
 - (4) 900 tons rock screenings, Rt. 61.
- Complete bids follow:
- (A) Gogo & Rados, Los Angeles, \$15,751.

- (B) Geo. Gardner & Sons, Redlands, \$19,623.
- (C) Oilfields Tr. Co., Bakersfield, \$23,895.70.
- (D) Southwest Paving Co., Los Angeles, \$24,357.60.
- (E) Alex Chalmers & Max Winters Jr., Los Angeles, \$25,839.60.
- (F) Dimmit & Taylor, Los Angeles, \$26,587.40.

Unit bids follow:

	(1)	(2)	(3)	(4)
(A).....	\$2.40	\$2.15	\$14.50	\$2.35
(B).....	3.15	2.95	16.00	2.06
(C).....	3.75	3.62	16.00	3.10
(D).....	4.20	3.26	17.00	2.50
(E).....	4.63	3.35	17.60	2.25
(F).....	4.75	3.30	16.90	2.80
(G).....	6.70	4.10	19.00	3.25

MERCED AND MARIPOSA CO., Cal.—Granite Construction Co., Bin 9, Watsonville, at \$6676 submitted low bid to District Engineer, State Highway Commission, Fresno, for bituminous surface treatment between Merced and Orange Hill School, 14.9 mi. existing shoulders and 6.3 mi. existing roadbed, involving:

- (1) 48 tons cut-back asphalt in place, Loc. A;
- (2) 300 tons sand, Loc. A;
- (3) 67 tons emulsified asph. road oil, Loc. B;
- (4) 1215 tons screenings, Loc. B.

Complete bids follow:

- (A) Granite Constr. Co., Watsonville, \$6676.00.
- (B) Pacific Truck Service, Inc., San Jose, \$7311.35.
- (C) Tiffany Constr. Co., San Jose, \$7827.
- (D) A. Teichert & Son, Sacramento, \$8042.60.

Unit bids follow:

	(A)	(B)	(C)	(D)
(1).....	\$18.00	\$30.20	\$23.00	\$18.60
(2).....	1.50	1.93	2.75	2.70
(3).....	22.00	23.90	30.00	23.90
(4).....	3.20	3.03	3.20	3.90

29

ALAMEDA COUNTY, Cal.—Tiffany Constr. Co., 535 N. Seventh St., San Jose, at \$16,839 submitted low bid Aug. 2 to State Highway Commission, Sacramento, to apply bituminous surface treatment over 1.9 mi. between Mission San Jose and Warm Springs, involving:

- (1) 4300 cu. yds. selected material;
- (2) 1309 tons broken stone (bit. mac. base);
- (3) 2100 tons screenings (bit. surf. treat);
- (4) 280 tons emul. asph., base and surf. treat;
- (5) 101 sta. finish roadway.

Complete bids follow:

- (A) Tiffany Constr. Co., San Jose, \$16,839.
- (B) Granite Con. Co., Watsonville, \$17,396.
- (C) Heafey-Moore Co., Oakland, \$17,795.
- (D) Pacific Truck Service, Inc., San Jose, \$19,068.60.

Unit bids follow:

	(A)	(B)	(C)	(D)
(1).....	\$.75	\$.80	\$.78	\$.972
(2).....	2.17	2.50	2.00	2.60
(3).....	2.19	2.25	2.15	2.60
(4).....	21.40	21.00	24.00	-9.80
(5).....	2.00	1.00	6.00	5.00

29

MODOC COUNTY, Cal.—A. Teichert & Son, P. O. Box 1118, Sacramento, at \$9990 submitted low bid to and recommended for award of contract by U. S. Bureau of Public Roads, San Francisco, to apply 28.077 mi. road oil dust palliative on Beds and Howard Gulch National Forest Highway. Modoc National Forest, involving 148,000 gals. furnish and apply road oil. Complete bid's follow:

- A. Teichert & Son, Sacramento, \$0675 \$9990.
- Hemstreet & Bell, Marysville, \$07: \$10 360.

Basalt Rock Co., Napa, \$072; \$10,656.
Tiffany Constr. Co., San Jose, \$0738: \$19,922.40.

Pacific Truck Service, Inc., San Jose, \$19,922.40.
E. A. Forde, San Anselmo, \$077; \$11,396.

Oilfields Trucking Co., Bakersfield, \$0809; \$11,973.20.
Engineer's estimate, \$075; \$11,100.

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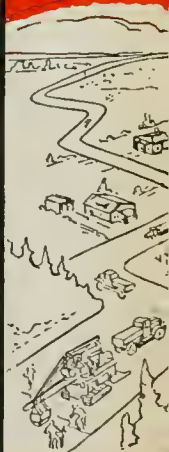
**BUILDING PERMITS GAIN 62 PERCENT
OVER LAST YEAR**

**NEW STATE STATUTE GIVES
PREFERENCE TO NRA BIDDERS**

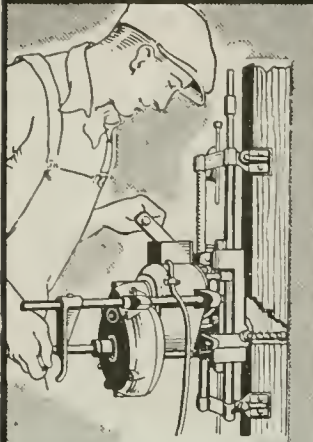
**CONTRACT PRICES TO BE CHECKED
AGAINST DAY LABOR ON U. S. ROADS**

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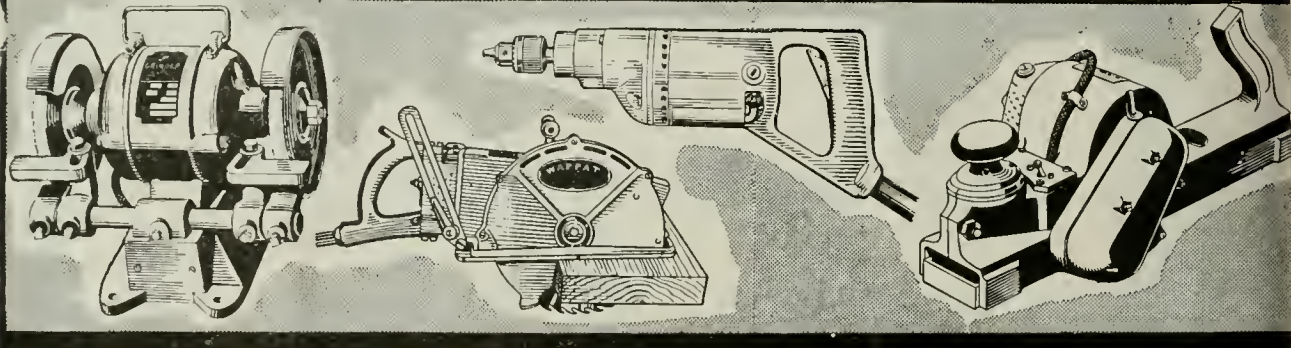
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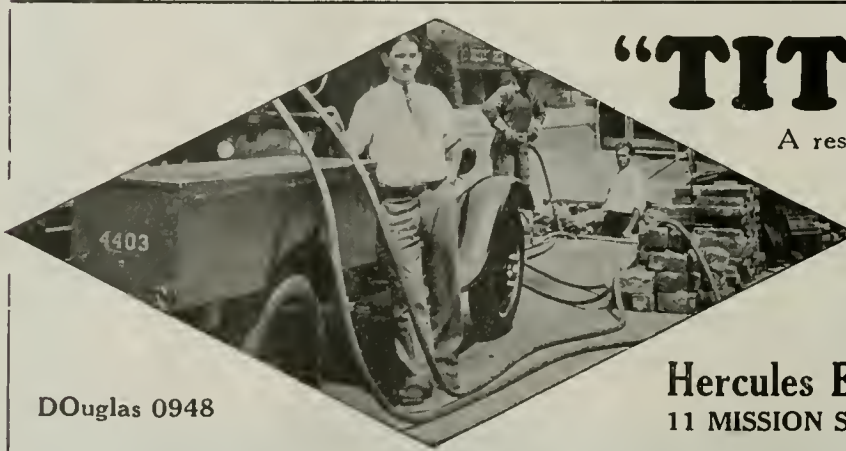
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No. 30

EASTBAY DRIVE PROMISES 2,000 NEW DWELLINGS

Recovery Committee Reports Pledges Being Obtained For Many Homes

More than 200 Eastbay families have recently signified their willingness and ability to buy lots and build new homes in the immediate future, as a result of the home building campaign begun last week by the Eastbay Recovery committee, according to a report filed with the Oakland Real Estate Board.

The committee has enlisted the cooperation of a large number of employers who are urging upon their employees the desirability and timeliness of home building. The names of those willing to undertake such projects are being filed with the committee.

Members of the Oakland Real Estate Board have been asked to cooperate with the committee in handling the transactions of lot purchase and home building for the people named by the employers. For this purpose, the committee has set up certain requirements which the realtors are asked to meet.

In a communication to the realty board, Thomas G. McGuire, chairman of the executive committee of the Eastbay Recovery Committee, declares that it is the hope of the organization to be instrumental in procuring the erection of 2000 new homes in the Eastbay district within the next two years. He said:

"Our organization is centering its effort on stimulating new construction, particularly residence construction, because a dollar spent in that manner will go farther toward widening local employment and increasing local general prosperity than can be done by a dollar spent or invested in any other fashion.

"Bank and lending institutions are strongly in sympathy with this movement and wholly in accord with its purposes and our methods. Some are already committed to new lending policies which are far more liberal toward the borrower than any in vogue by such concerns for several years. It is expected that others will do so as the movement progresses."

THE WEEK'S NEWS Highlights

TAX EXEMPTIONS. Contractors and materialmen are still figuring their way in and out of the new California state sales tax. A tax manual is said to be in process of publication at Sacramento, meanwhile rulings of the New York Tax Commission on similar tax set-up are being consulted as the best authority. Most definite information from the California Board of Equalization was that issued Thursday re Federal purchases. Any material for Federal public works contracts, or any sales to Federal agencies of equipment and supplies for government use are to be exempt from tax.

STATE PROJECTS. California State Chamber of Commerce delegation was one of the early visitors to the office of Regional Public Works Administrator Justus Wardell last week. On Mr. Wardell's desk they left a list of 700 and more proposed public works projects for which Federal loan or gift financing is sought. Estimated cost of all projects listed exceeds \$250,000,000.

CONSTRUCTION CODE. Construction League of the United States of which the Construction League of California is local affiliate has presented to the NRA a comprehensive basic code for the construction industry. Minimum wage of 40 cents an hour and 35-hour week are essential items in proposal which also expressly prohibits "bid peddling."

COAST PERMITS. Coastwide survey of building permits for July reveals gain exceeding 60 percent over the corresponding month last year. Since gains are reported from widely separated cities and figures are almost wholly for private work, the month's history is particularly encouraging.

PERMIT SURVEY SHOWS BIG GAIN OVER LAST YEAR

Principal Cities of Coast Report 62 Per Cent Increase In Total

An increase of 62 percent in value of building operations commenced in July, compared with July last year is shown in reports from 100 Pacific Coast cities, compiled by DAILY PACIFIC BUILDER. Contrary to the usual seasonal trend, the July totals also reveal a gain compared with June. A decline between these two months is expected normally.

The total value of permits issued by reporting cities in the monthly survey is \$6,213,591 in July this year which compares with \$3,789,011 in July last year and \$6,032,177 in June this year. The figures are for an identical group of cities in the states of California, Arizona, Nevada, Oregon, Washington, Utah and Idaho. ■

Principal cities reporting higher totals in July than for the same month a year ago include: Berkeley, Fresno, Los Angeles, Long Beach, Pasadena, Sacramento, San Diego, San Francisco and Stockton; Boise, Idaho; Portland Oregon; Seattle, Spokane and Tacoma, Washington; Ogden, Utah.

The ten cities leading the list of 100 in comparative value of permits for July follow in order:

Los Angeles	\$1,422,791
Portland	781,990
San Francisco	770,290
Long Beach	495,785
Seattle	323,595
Oakland	272,503
Beverly Hills	230,049
San Diego	177,989
Berkeley	126,307
Pasadena	122,468

TOTAL \$4,723,767

TOTAL same group of cities June, 1933 \$4,679,224

TOTAL same group of cities July, 1932 \$2,493,683

MANY LICENSES REFUSED UNDER NEW REGULATIONS

Seventeen Percent of Applicants Filing Since July 1 Rejected

SACRAMENTO, Aug. 4.—Colonel Carlos W. Huntington, state registrar of contractors, today said that approximately 17 out of every hundred new license applications filed by California contractors during July were either rejected, or ordered held for further investigation.

With approximately 100 new licenses being issued each week since July 1, Registrar Huntington said the heavy ratio of denials was due to rigid enforcement of amendments to the state contractors' act, voted by the last legislature and approved by Governor Rolph.

Indicating increased activity in the building field, Col. Huntington said that approximately 1500 new licenses had been issued to contractors since July 1, in addition to the renewal of licenses of more than 16,000 contractors licensed at the close of the last fiscal year.

"Under rigid enforcement of amendments to the contractors' act," said Huntington, "it is necessary that we reject a large percentage of the new applications because of the failure of the applicant to satisfy this department of his responsibility.

"All applicants are required to give references for their honesty and integrity, in order that the public may be given the greatest possible measure of protection. Thus, the denial of applications, without prejudice, will work no hardship upon a legitimate contractor and aids in weeding out the crooked and irresponsible operator.

"The applications denied in this manner are re-referred to a field investigator, and it is likely that many of the applicants will be able to qualify and eventually obtain their license," he said.

NEW YORK FURNACES MAKE BRIDGE IRON

Blast furnaces of the Chateaugay Ore and Iron Co., at Lyon Mountain, N. Y., are to reopen at once to supply pig iron used in the building of the San Francisco Bay Bridge and the Golden Gate Bridge, reports the Engineering News-Record. This pig iron is to be used in making cables. The firm furnished similar materials for the George Washington Bridge over the Hudson River.

SHEET METAL CODE PRESENTED

The Furnace and Sheet Metal Dealers of Northern California, Inc., were among the first to submit a code of fair competition under the new California state law, controlling intrastate industry, when headquarters were opened yesterday at the state building.

The application for state approval was submitted by J. C. Seagrave, president of the board of directors, and H. O. Lothrop, secretary-manager. Headquarters of the association are at 1700 Broadway, Oakland.

Timothy Reardon, director of the state department of industrial relations, and M. F. Daugherty, commissioner of corporations, are joint administrators of the new act.

APPROVE FUND FOR SURVEY OF QUAKE HAZARDS

Committee Recommends Appropriation to Finance S. F. Building Inspection

A \$5,000 appropriation to cover cost of inspection of buildings for weak parapet walls, overhanging cornices, and other earthquake hazards, has been approved by the building committee of the Board of Supervisors.

If the appropriation is made, the survey will be conducted by building inspectors and engineers under the direction of John B. Leonard, Superintendent of the Bureau of Building Inspection. Owners of buildings will be required by law to remove any hazards disclosed by the survey.

Leonard urged speed action on the committee, pointing out the damage wrought by falling cornices and walls in the Southern California earthquake.

The Department of Public Works asked for the appropriation a month ago, but was halted by the mayor, who questioned the legality of compelling owners to remove hazards, and referred the matter to City Attorney J. J. O'Toole.

The proposed appropriation must be approved by the Finance Committee before it is submitted to the Board of Supervisors for passage.

Under the terms of the measure, hazard would include not only walls and cornices erected in violation of the building code, but also those which have been erected legally but have become weakened.

93% PLEDGES TO RENOVIZE ARE REDEEMED

Philadelphia Reports on Final Check of Last Winter's Campaign

That the idea behind renovize and modernization campaigns to increase employment by promoting property improvements is basically sound is evidenced by a check on the results of the campaign in Philadelphia, made public by Wm. A. Law, president of the Penn Mutual Life Insurance Company, who was its general chairman.

The Renovize Philadelphia Campaign, designed to promote employment by remodeling, restoring and otherwise improving business and home properties, was held last winter. Property owners were asked to sign pledges indicating the amounts they would spend within the next six months.

A careful check of the campaign pledges, Mr. Law said, revealed that more than \$20,000,000 had been spent within five months after the close of the campaign. This is 93 per cent of the amount pledged.

"The leaders of the campaign believed that the great majority of pledges would be fulfilled," Mr. Law said. "However, since the movement was entirely voluntary, we had no means of proving to ourselves and to the community how many of those who signed pledges would actually have the work done.

"A careful check of nearly all the residential and business pledges shows that \$20,000,000, or 93 per cent of the amount pledged, has already been spent. Surveys by the United States Chamber of Commerce show that of the money spent in a community for renovizing work, 70 per cent goes directly into the pay envelopes and pocket-books of wage earners. Therefore our campaign increased the pay of these wage earners by some \$14,000,000. Getting this money into circulation had a very beneficial effect on business in this community."

San Mateo county's renovize drive will start definitely on August 15, C. C. Young, chairman of the committee, announced yesterday. The date has been moved forward a week in order to avoid conflict with this week's campaign in behalf of the NRA program. Cities throughout the county have formed local committees and a quota of one million dollars worth of building remodeling and repair work has been set.

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Contract Prices to be Checked With Day Labor Jobs in Federal Program

"Construction by contract, in so far as highways are concerned has been officially brought to the bar for trial, with the day labor system as prosecuting attorney and the cost ledger as the jury and judge," says the current issue of "Central Constructor," publication of the Associated General Contractors, Des Moines.

The article continues:

"Among special provisions issued by the federal bureau of roads governing construction of the highways to be built with funds made available in the \$450,000,000 appropriation carried by the National Industrial Recovery Act, is one provision requiring that in each state receiving a share of these funds, at least one representative highway project shall be constructed by the "direct labor" or day labor method.

"Chief Thomas H. MacDonald of the Bureau of Roads has long been known as a believer in the contract system, but he is also known as a fair and reasonable public officer. He has laid down terms for the carrying out of this test of day labor which are eminently fair to the day labor advocates and, as far as they may be, are equally fair to construction by contract.

"Contractors of course are placed upon trial of the merits of their system at a time when the entire industry is suffering from the most widespread disturbance possible to conceive. Not only is the industry itself effected by the innovations of federal control, but all others with which it must deal are similarly effected. The contractor will not be permitted, under the federal regulations, to make use of one of his time proven advantages over the day labor method—the advantage of having under his direct supervision a force of trained, loyal, reliable men whose performance is coordinated to produce the best results. Contractors will be obliged, in this competition with day labor projects, to assemble crews for each job from lists prepared for them. They must take what is offered to them and make the best of what they get.

In justice to the terms laid down

by the Bureau of Roads for the day labor projects it must be admitted that they will be subject to the same procedure for recruiting their crews, that they will be expected to include in their report all costs properly chargeable to the job, including the assembling and moving of equipment to and from the job, repair and maintenance of all equipment during the period of use, actual rental charges paid for equipment or a reasonable depreciation charge for equipment owned by the highway department, and any payments actually made for workmen's compensation, medical examination, liability or other insurance. These conditions, of course, place a handicap upon the day labor system which it will find more difficult in meeting than will contractors in meeting the necessity for organizing efficient crews composed of inexperienced and unfamiliar men. For while contractors through the years have learned to train good workmen, even during the course of a brief job, day labor has never learned to count its costs—or has never learned to account for them publicly and honestly.

One other element enters into the test—for it is actually a test of the contract system's claimed superiority over day labor. This time day labor will be placed on its metal to make a showing. Its advocates will see to it that good men are placed in charge. They will avoid suspicion of skimping, evasion of specifications, carelessness in the purchase of materials and in the handling of equipment, as the average day labor job has never done before. An extreme effort will be made on each job to show that day labor is more advantageous to the public interest and the public treasury than is the contract system. There will be a new degree of caution in the wholesale employment of labor, despite the fact that the entire highway program is specifically created and carried out in the interest of promoting employment. Day labor jobs will say—for contractors take care of the extra the first time in history—"let the

job-hunters. This is our chance to demonstrate how cheaply we can get by; not how many men we can hire or how many votes we can influence by patronage."

"Mr. MacDonald has left no doubt as to the significance of this test. His special provisions say:

"The continued approval of direct (day) labor projects will be contingent upon a showing that work by such methods can be performed at costs which are less than contract costs."

"Here is a challenge to the construction industry which, despite the fact that it will be a newly inspired and vastly improved brand of day labor against which it will have to compete, it should welcome. If day labor is 'shown up' in a direct contest of this kind, in which it can offer no alibi for failure and can evade no showing of inefficiency, the construction industry may have laid to rest an old ghost which has been extremely costly and annoying these many years, not only to itself but to the tax payers.

"Construction by contract, however, sure of its system as it has reason to be, may not now safely underestimate the foe it has to meet. It must also be on its toes, give a good account of itself and demonstrate once more that it is the logical, economical and certain way to perform public works."

The following regulations have been approved by the Los Angeles Building and Safety Commission for placing of signs on borders and roof of a marquee:

Permission to place: 1. Banners and pennants made of fabric hung on the marquee borders, provided there is not less than 7-foot clearance above the sidewalk under the same. 2. Banners hung from flag poles or walls of the building above a marquee. 3. Neon signs not more than 18-feet in height and not to exceed a total length of 6 feet on any one marquee may be placed on top of marquee borders, provided same comply with provision of electrical ordinance. All deviations from this ruling are to be removed and if after 90 days from July 6, the ruling is found to be satisfactory, the Board will consider amending the ordinance accordingly.

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ROAD DIVISION HEADQUARTERS TO BE SHIFTED

Additional Mileage in State System Makes Reorganiza- tion Necessary

Plans for removal of two division highway offices from Sacramento to other cities and the establishment of a new division with headquarters at San Diego are under consideration by State Director of Public Works Earl Lee Kelly.

The changes probably will become effective before August 21 when the state will launch its new highway construction program.

Kelly said the transfers are contemplated to promote efficiency, economy and public service under the new highway administration set-up which is occasioned by transfer of 6600 miles of county roads to the state system.

District Engineer Chas. H. Whitmore with his staff of forty engineers and clerks is due to move to Marysville, the new headquarters for District III. District Engineer R. E. Pierce with thirty-nine on his staff will go to Stockton to establish headquarters of District X.

District III under the revised plan will include the east and west Pacific highways north to Tehama County, the Tahoe-Ukiah Highway, the Victory and Lincoln highways between the Nevada state line and Solano County, and the Golden State Highway from Sacramento to the San Joaquin County line.

District X will pick up the Golden State Highway at the county line and follow it to Madera County, take in the Sacramento-Oakland Highway at the Yolo-Solano line and other roads east and west from Stockton.

It is understood also that a new district is to be created, including San Diego, Riverside and Imperial counties. The transfer of District Engineer E. E. Wallace from Fresno to San Diego to take charge of the new division is contemplated, according to a report from Fresno.

The new division of highway districts by counties would be as follows:

I.—Del Norte, Humboldt, Mendocino counties; western Siskiyou and Trinity counties; headquarters, Eureka.

II.—(Unchanged) Siskiyou, Modoc, Lassen, Shasta, Tehama and Plumas counties; headquarters, Redding.

III.—Sierra, Nevada, Yuba, Butte, Glenn, Colusa, Sutter, Yolo, Sacramento, El Dorado counties; headquarters, Marysville.

IV.—San Francisco, Alameda, Marin, Sonoma, Napa, Contra Costa, San Mateo, Santa Clara, Santa Cruz counties; headquarters, San Francisco.

V.—(Unchanged) San Luis Obispo, San Benito, Monterey, Santa Barbara counties; headquarters, San Luis Obispo.

VI.—Madera, Tulare, Kings, Fresno and western Kern counties; headquarters, Fresno.

VII.—Los Angeles, Ventura and Orange counties; headquarters, Los Angeles.

VIII.—San Bernardino and north-west Riverside counties; headquarters, San Bernardino.

New State Statute Gives Preference To Bidders Operating Under Codes

For the protection of firms operating under the Federal NRA codes from competitors whose business is wholly within the state and therefore not subject to Federal control, the California legislature in July enacted two state laws, Assembly Bills 2400 and 2432. These statutes together authorize state authorities to enforce compliance of industries within the state with Federal codes and permit local groups to obtain state approval for voluntary regulation.

An important provision of the state act is that according preferential treatment to materialmen operating under a code. Authorities awarding public works contracts must require contractors to give a preference of 15 per cent to materials produced under the N R A code. In the purchase of supplies for public use a preference of 10% is accorded any bidder operating under the code.

Following is the complete text of the provision governing contract awards and purchase of supplies:

"Section 4. In furtherance of the purposes hereof any department of the State of California and any governing body of any political subdivision, municipal or other public corporation or of any district and any public officer or person charged with (1) the letting of contracts for the construction, alteration, or repair of public works, or (2) the purchasing of materials or supplies for public use (1) shall in letting contracts for the construction, alteration, or repair of public works cause to be inserted in each such contract for an expenditure in excess of five hundred dollars a clause providing that the contractor shall give a preference of fifteen per cent to supplies, articles, and materials mined, produced, manufactured, or supplied in observance of any code of fair competition approved, prescribed, or issued under the said Title I of the National Industrial Recovery Act, or under any similar law of the State of California, or in pursuance of any agreement entered into or approved under said laws, or in conformity with the terms prescribed in any licenses issued under said laws, as the case may be, and which concerns such trade or industry and subdivision thereof as may be involved, and (2) in the purchasing of materials or supplies for public use, shall give a preference of ten per cent to any bidder who expressly agrees to furnish only such materials or supplies so mined, produced, manufactured or supplied.

Any contractor or person who

IX.—Mono, Inyo and east Kern counties; headquarters, Bishop.

X.—San Joaquin, Stanislaus, Merced, Amador, Calaveras, Alpine, Tuolumne and Mariposa counties; headquarters, Stockton.

XI.—(New district) San Diego, Imperial and southeast Riverside county; headquarters, San Diego.

turnishes materials or supplies for public use or on public works, in violation of any such clause in his contract shall not be entitled to payment for the materials or supplies furnished, to the extent of such violation. Nothing contained in this act shall, however, be construed to repeal or in any way modify the terms of any public works labor law now in effect in this State or heretofore approved or by any other law for the protection of workers in this State. The provisions of this act shall instead be construed to supplement such laws."

All state codes must be submitted to M. F. Daugherty, chief of the Division of Corporations, who is charged with supervision and enforcement. The codes must be approved also by Timothy A. Reardon, director of the Department of Industrial Relations.

Fees to be paid for administration of the code are \$25 at the time of filing and an annual license not to exceed 25 cents per annum for each employe in the trade or industry represented.

ALAMEDA CONTRACTS FOR SYSTEM SURVEY

Alameda city council has approved a contract with the Jones Gas Process Company of San Francisco for a survey of the Alameda gas distributing system in contemplation of its purchase from the Pacific Gas and Electric Company. The Jones company bid \$1500 for making the investigation and report.



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PERMITS AND CONTRACTS

SAN FRANCISCO COUNTY

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580	Horn	Owner	4500
581	Giusti	DeBenedetti	1000
582	Burfeind	Owner	6800
583	Western	Rose	1450
584	Saundeen	Owner	3000
585	Lurle	Owner	3200
586	Ozor	Lindsay	4500
587	Christen	Mager	6500
588	Tobin	Owner	3000
589	Schneider	Owner	2700
590	Pappas	Anderson	1900
591	Chicchi	Woodside	1000
592	Borghello	Terwilliger	3000
593	Marenzi	Ferrari	8500
594	Thomsen	Owner	12451
595	Traverso	Glaser	2000
596	Morgan	Larsen	3500
597	Schroeder	Lindgren	12000
598	Brown	Siegrist	1400
599	Fenton	Owner	1250
600	Fialer	Commercial	1000
601	Mazzani	Owner	1000
602	Grant	Owner	1000
603	Pomeroy	Cavanaugh	7400

DWELLING

(580) E 22nd AVE. 320 N Ocean; two-story and basement frame dwelling.
Owner—J. Horn, 4708 Mission Street.
Architect—Not Given. \$4500

ALTERATIONS

(581) 4325 MISSION ST.; alter restaurant.
Owner—S. Giusti, 524 London.
Architect—Not Given.
Contractor—A. De Benedetti & Son, 22 Cotter St. \$1000

FLATS

(582) S NORTH POINT 125 E Webster St.; two-story and basement frame (2) flats.
Owner—Dr. Burfeind, 1378 Francisco.
Architect—Not Given. \$6800

REPAIRS

(583) 1735 VAN NESS AVE.; repair fire damages to apartments.
Owner—Western Bldg. & Loan Company, Oakland.
Architect—Not Given.
Contractor—A. H. Rose, 478 25th St., Oakland. \$1450

DWELLING

(584) NE LOWER TERRACE AND Roosevelt Way; 1-story and basement frame dwelling.
Owner—L. H. Saudeen, 151 Lower Terrace.
Architect—Not Given. \$3000

ALTERATIONS

(585) GORE at Mission and Otis Sts.; alter offices.
Owner—Lurie Co., 333 Montgomery.
Architect—O'Brien and Peugh, 333 Montgomery St. \$3200

DWELLING

(586) S RUSSIA 100 E Dublin; one-story and basement frame dwelling.
Owner—V. Ozor, 228 Dublin.
Plans by C. A. Wilder, 1605 Noe St.
Contractor—B. C. Lindsay, 183 Oxford. \$4500

DWELLING

(587) E BARTLETT 170 S 25th; two-story and basement frame dwelling.
Owner—W. A. Christen, 385 Bartlett.
Architect—H. C. Baumann, 251 Kearny Street.
Contractor—Mager Bros., 1359 4th Ave. \$6500

DWELLING

(588) W POTRERO 175 S 22nd; two-story and basement frame dwelling.
Owner—W. Tobin, 1014 Potrero Ave.
Architect—Not Given. \$3000

ADDITION

(589) 268 EUREKA; addition to dwelling.
Owner—P. Schneider, 268 Eureka.
Architect—M. Gunzendorfer, 405 Montgomery Street. \$2700

ALTERATIONS

(590) 291 SIXTH AVE.; alter restaurant.
Owner—Pappas & Guicos, 291 6th Ave.
Architect—Not Given.
Contractor—L. R. Anderson, 253 States \$1900

ADDITION

(591) 85 THERESA; addition to dwelling.
Owner—F. Chicchi, 85 Theresa.
Architect—Not Given.
Contractor—J. D. Woodside, 3460 Mission Street. \$1000

DWELLING

(592) N TWENTY-SECOND ST. 50 E San Bruno Ave. One-story and basement frame dwelling.
Owner—A. Borghello, 2735 20th St., San Francisco.
Architect—Not Given.
Contractor—F. Terwilliger, 830 Guerrero St., San Francisco. \$3000

FLATS

(593) N LOMBARD ST. 56 E Laguna St. Two-story and basement frame (2) flats.
Owner—A. Marenzi, 3224 Laguna St., San Francisco.
Architect—Not Given.
Contractor—G. Ferrari & Sons, 1966 Filbert St., San Francisco. \$8500

DWELLING

(594) S MARINA BLVD., bet. Fillmore and Webster Sts. Two-story and basement frame dwelling.
Owner—Capt. D. W. Thomsen, 162 Divisadero St., San Francisco.
Architect—Not Given.
Contractor—D. D. Stone, 110 Sutter St., San Francisco. \$12,451

OVENS

(595) SE MENDELL AND OAKDALE Install ovens in bakery.
Owner—A. Traverso, 466 Union St., San Francisco.
Architect—Not Given.
Contractor—J. P. Glaser, 2480 Union St., San Francisco. \$2000

STORES

(596) N FIFTEENTH ST. 25 E Minna Class C stores.
Owner—H. Morgan, 2821 16th St., San Francisco.
Architect—A. Constable, 580 Market St., San Francisco.
Engineer—S. Hodes, 536 Shrader St., San Francisco.
Contractor—Larsen & Larsen, 629 Bryant St., San Francisco. \$3500

FLATS

(597) W DOLORES ST. S from Cor. 30th. Two two-story and basement frame (2) flats.
Owner—C. Schroeder, 3600 20th St., San Francisco.
Architect—C. F. Strothoff, 2274 15th St., San Francisco.
Contractor—F. Lindgren, 77 Ramona St., S. F. \$6000 each

ALTERATIONS

(598) NO. 948 HOWARD ST. Alter store and apartment for shop.
Owner—R. Brown, 948 Howard St., San Francisco.
Engineer—N. E. Green, Sharon Bldg., San Francisco.
Contractor—F. R. Siegrist, 604 Mission St., San Francisco. \$1400

STORES

(599) SE BUTTER & BUCHANAN. Stores under dwelling.
Owner—J. Fenton, 1705 Eddy St., San Francisco.
Architect—H. C. Baumann, 251 Kearny St., San Francisco. \$1250

ALTERATIONS

(600) NO. 840 POST ST. Alter public garage.
Owner—H. A. Fialer, 840 Post St., San Francisco.
Architect—Not Given.
Contractor—Commercial Constr. Co., Call Bldg., San Francisco. \$1000

ALTERATIONS

(601) NO. 172 DAY ST. Alter dwelling.
Owner—D. Mazzani, 1742 Church St., San Francisco.
Architect—Not Given. \$1000

ALTERATIONS

(602) NO. 100-110 BUSH ST. Alter office building.
Owner—Grant Co., 114 Sansome St., San Francisco.
Architect—Not Given. \$1000

DWELLING

(603) W MAYWOOD DRIVE 650 S Santa Paula. Two-story and basement frame dwelling.
Owner—H. L. Pomeroy.
Architect—J. White.
Contractor—O. L. Cavanaugh, 432 Occidental Ave., San Mateo. \$7400

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
335	Hall	Lapham	11500
335	Netherby	Owner	3700
336	Hamm	Wallin	4300
337	Wegand	Bonds	5000
338	Blucher	Owner	1450
339	Clorax	DeVelbiss	6000
340	Brigham	Rose	1300
341	Grahn	Kopf	6935
342	Struble	Meek	3218

RESIDENCE

(335) NO. 207 ESTATES DRIVE. **PIEDMONT.** Two-story 11-room residence and garage.
Owner—Dr. Chas. Hall, 1118 El Centro Ave., Piedmont.
Architect—Miller & Warnecke, Financial Center Bldg., Oakland.
Contractor—Theo. Lapham, 546 Kenmore Ave., Oakland. \$11,500

DWELLING

(335) 549 CRAGMONT, **BERKELEY;** two-story 5-room frame dwelling and garage.
Owner and Builder—W. A. Netherby, 2853 Lyman Road, Oakland
Architect—Not Given. \$3700

DWELLING

(336) 4072 OAKMORE ROAD, **OAKLAND;** two-story 6-room dwelling.
Owner—E. Hamm, 2033 34th Avenue, Oakland.
Architect—Not Given.
Contractor—Folke Wallin, 2150 50th Ave., Oakland. \$4300

DWELLING
 (337) 595 VINCENTE; BERKELEY;
 one-story 7-room frame dwelling
 and garage.
 Owner—Laurence C. Wegand, 824 Cur-
 tis St., Berkeley.
 Architect—W. W. Dixon, Oakland.
 Contractor—Milton S. Bonds, 914 The
 Alameda, Berkeley. \$5000

ALTERATIONS
 (338) 537 23rd ST., OAKLAND; alter-
 ations.
 Owner and Builder—G. Edward Blu-
 cher, 451 Van Dyke Ave., Oakland.
 Architect—Not Given. \$1450

REPAIRS
 (339) NO. 850 FORTY-SECOND ST.,
 OAKLAND. Fire repairs.
 Owner—Clorax Chemical Co., 850 42nd
 St., Oakland.
 Architect—Not Given.
 Contractor—C. Dudley DeVelbiss, 354
 Hobart St., Oakland. \$6000

REPAIRS
 (340) NO. 1029 OAK ST., OAKLAND
 Fire repairs.
 Owner—Frank E. Brigham, Premises.
 Architect—Not Given.
 Contractor—A. H. Rose, 478 25th St.,
 Oakland. \$1300

NEWSPAPER PLANT
 (341) NO. 1509-11 PARK ST., ALA-
 MEDA. One-story brick newspaper
 plant.
 Owner—Mrs. Sarah Grahn, 1417 Court
 St., Alameda.
 Architect—Not Given.
 Contractor—Ben Kopf, 845 Pacific
 Ave., Alameda. \$6935

RESIDENCE
 (342) NO. 816 PINEDALE COURT,
 HAYWARD. Five-room resi-
 dence.
 Owner—Adelaide D. Struble, 804 Pine-
 dale Court, Hayward.
 Architect—Not Given.
 Contractor—Jacob Meek, 1455 154th
 Ave., Hayward. \$3218

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
121	S. P. Co.	Duncanson	2320
122	Schroeder	Lindgren	12935
123	Panelli	Galli	7650
124	Belloni	Murer	3300
125	Christen	Mager	7700
126	Fialer	Commercial	1352
127	Thomsen	Du Puy	12451
128	Thomsen	Stone	1033
129	Pomeroy	Cavanaugh	7400

REPAIRS
 (121) FOOT OF MISSION ST.; re-
 pairs to spring line at end of outer
 pile cluster between slips No. 8
 and 9 at Mission St. Terminal.
 Owner—S. F. Golden Gate Ferries,
 Ltd., 65 Market St.
 Architect—Not Given.
 Contractor—The Duncanson-Harrelson
 Co., deYoung Bldg.
 Filed Aug. 4, '33. Dated Aug. 2, '33.
 Per month 75%
 Usual 35 days 25%
TOTAL COST, \$2320
 Bond, \$2320. Sureties, United States
 Guarantee Co. Limit, 90 days. Plans
 and Spec. filed.

FLATS
 (122) SW DOLORS ST. and 30th W
 25 x S 114; two 2- and 3-story and
 basement frame flat buildings.
 Owner—Claus and Dorothea Schroeder
 3600 Twentieth St.
 Plans by Charles Strothoff.
 Contractor—Fred Lindgren, 77 Ramona
 Street.
 Filed Aug. 5, '33. Dated July 29, '33.
 Frame & roof sheathing on \$3233.75

Brown coated 3233.75
 Completion 3233.75
 Usual 35 days 3233.75
TOTAL COST, \$12,935
 Bond, \$6467.50. Sureties, Martin Kre-
 ling and Jas. Lee. Limit, 90 days.
 Plans and Spec. filed.

FLAT BLDG.
 (123) SW COLUMBUS AVE AND
 Mason St. W 60-5% N 31-11 3/4 m or
 1 E 33-10 1/16 SW 41-7 1/5 to beg
 50 V B 179. All work for two-
 story and basement frame store
 and flat building.
 Owner—Raffaello and Eda Panelli, 852
 Union St., San Francisco.
 Architect—Irvine & Ehbets, 2048 Mar-
 ket St., San Francisco.
 Contractor—Giuseppe Galli, 1900 Hyde
 St., San Francisco.
 Filed Aug. 7, '33. Dated July 25, '33.
 Frame and roof work completed
 \$1912.50
 Brown coat plaster completed 1912.50
 Building completed 1912.50
 Usual 35 days 1912.50
TOTAL COST, \$7650
 Bond, \$6750. Sureties, Guglielmo Galli
 and Egildo Franceschi. Limit, 100
 days. Forfeit, none. Plans and speci-
 fications filed.

ADDITION
 (124) NO. 781 FRANCISCO ST. All
 work for addition of five-room flat.
 Owner—Guido Belloni, 1535 Grant Ave.
 San Francisco.
 Plans by L. Murer, 1815 Mason St.,
 San Francisco.
 Contractor—L. Murer, 1815 Mason St.,
 San Francisco.
 Filed Aug. 7, '33. Dated Aug. 5, '33.
 Frame up and roof completed...\$825
 Brown coat plaster completed... 825
 Building completed 825
 Usual 35 days 825
TOTAL COST, \$3300
 Bond, \$3300. Surety, Aetna Casualty
 & Surety Co. Limit, 90 days. Forfeit,
 none. Plans and specifications filed.

RESIDENCE
 (125) E BARTLETT ST. 170 S 25th
 St. S 25xE 117-6. All work for
 two-story and basement frame
 residence.
 Owner—W. A. Christen, 385 Bartlett
 St., San Francisco.
 Architect—H. C. Baumann, 251 Kear-
 ny St., San Francisco.
 Contractor—Jacob Mager (as Mager
 Brothers & Son), 1359 4th Avenue,
 San Francisco.
 Filed Aug. 8, '33. Dated Aug. 7, '33.
 Wall and roof sheathing in place
 \$1925
 Brown coat mortar on 1925
 Building completed 1925
 Usual 35 days 1925
TOTAL COST, \$7700
 Bond, \$3850. Sureties, Paul Mager
 and Jacob Mueller. Limit, 90 days.
 Forfeit, none. Plans and specifica-
 tions filed.

ALTERATIONS
 (126) NO. 840 POST ST. All work
 for alterations to public garage.
 Owner—Harry Fialer, 840 Post St.,
 San Francisco.
 Architect—Not Given.
 Contractor—Commercial Constr. Co.,
 Call Bldg., San Francisco.
 Filed Aug. 8, '33. Dated Aug. 8, '33.
 Work completed \$1015
 Usual 35 days 338
TOTAL COST, \$1352
 Bond, none. Limit, 90 days. Speci-
 fications only filed.

DWELLING
 (127) MARINA BLVD., bet. Webster
 and Fillmore Sts. Three-story
 frame dwelling.
 Owner—Captain and Mrs. Dan W.
 Thomsen, 162 Divisadero St., San
 Francisco.

Architect—Douglas Dacre Stone, 110
 Sutter St., San Francisco.
 Contractor—Fred K. Du Puy, 110 Sutter
 St., San Francisco.
 Filed Aug. 9, '33. Dated Aug. 5, '33.
 Frame up \$2490.20
 Brown coat on 2490.20
 Trim on 2490.20
 When completed 2490.20
 Usual 35 days 2490.20
TOTAL COST, \$12,451.00
 Bond, \$12,451. Surety, Massachusetts
 Bonding & Indemnity Co. Limit, 90
 days. Forfeit, none. Plans and speci-
 fications filed.

(128) ARCHITECTURAL WORK ON
 above.
 Contractor—Douglas Dacre Stone, 110
 Sutter St., San Francisco.
 Filed Aug. 9, '33. Dated Aug. 5, '33.
TOTAL COST, \$1033.60
 Bond, limit, forfeit, none. Plans and
 specifications filed.

DWELLING
 (129) LOT 19 BLK 3041 Monterey
 Heights Tract. Excavation, con-
 crete, millwork, painting, etc., for
 frame dwelling.
 Owner—Clara and H. L. Pomeroy, 3337
 Octavia St., San Francisco.
 Architect—John White, Russ Bldg.,
 San Francisco.
 Contractor—Oscar L. Cavanaugh, 432
 Occidental Ave., San Mateo.
 Filed Aug. 9, '33. Dated Aug. 8, '33
 Frame up \$1850
 Interior plaster finished 1850
 On completion sum equal to the
 balance after reduction of pre-
 vious payments of 75% of cost,
 provided only that the total of
 this and previous payments does
 not exceed 5550
 Usual 35 days 1850
TOTAL COST, \$7400
 Bond, \$7400. Surety, United States
 Guarantee Co. Limit, 70 days. For-
 feit, none. Plans and specifications
 filed.

ALAMEDA COUNTY

46 Porter Cone 4186
ALTERATIONS
 (46) NE THIRTEENTH & WASH-
 ington Sts., Oakland. All work
 for alterations and additions to
 one- and two-story building.
 Owner—Blanche Boardman Porter.
 Architect—Edward T. Foulkes, 375
 12th St., Oakland.
 Contractor—Wilbur C. Cone, 1744
 Broadway, Oakland.
 Filed Aug. 8, '33. Dated Aug. 7, '33.
 On or before 10th of ea month 75%
 Completion 75% of contract price
 Usual 35 days Balance
TOTAL COST, \$4186
 Bond, \$2100. Surety, Massachusetts
 Bonding and Insurance Co. Limit, 45
 days. Forfeit, none. Plans and speci-
 fications filed.

ALAMEDA COUNTY UNDER \$1000

GARAGE, private, \$95; 2210 Russell
 St., Berkeley; owner, Jack Hag-
 gerty, 2210 Russell St.
ALTERATIONS, \$148; 1635 Berkeley;
 owner, F. Peake; contractor, T. C.
 Meyer, 2642 Harrison St., Oakland
ALTERATIONS, \$225; 1126 Colusa St.;
 Berkeley; owner, C. D. Miller,
 1126 Colusa St.; contractor, Crown
 Roof Co., 2609 E-14th St. Oakland.
ALTERATIONS, \$950; 677 51st St.,
 Oakland; owner, Mrs. Michael
 Meyer, 677 51st St.
ADDITION, \$50; 1809 109th Ave., Oak-
 land owner, M. E. Valente, 5113
 Clark St.
ADDITION, \$250 942 Adellne St., Oak-
 land; owner, Mrs. H. DeLoss, 2001
 Webster St.
ALTERATIONS, \$150; 1340 87th Ave.,
 Oakland; owner, Geo. Cozine, 1340
 87th Ave.

BUILDING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

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| 3.—Churches | 12.—Power Plants |
| 4.—Factories and Warehouses | 13.—Public Buildings, Fire Houses and Jails |
| 5.—Flats | 14.—Residences |
| 6.—Garages and Service Stations | 15.—Schools |
| 7.—Federal Buildings | 16.—Banks, Stores and Theatres |
| 8.—Club Buildings | 17.—Wharves & Docks |
| 9.—Hospitals | 18.—Misc. Const. |
| 10.—Hotels | 20.—Misc. Supplies & Materials |

1—APARTMENTS

Plans Being Revised.
APARTMENTS Cost, \$15,000
VALLEJO, Solano Co., Calif. Marin Avenue.

Two-story and basement frame and stucco apartment building (four 4-room apts.) tile roof, gas hot air heating system, oak floors, wall beds, etc.

Owner—Withheld.
 Architect—Chas. E. Perry, 514 Marin Ave., Vallejo.

Plans are being revised and new bids will be asked shortly.

Plans Completed.
APARTMENTS Cost, \$75,000
LOS ANGELES, Cal. 555 Rossmore Avenue.

Three-story Class C concrete and stucco apartments (59x133) wood shingle roof, cast stone trim, orn. iron, fire escapes, carpeted pine floors, electric refrigeration, electric elevators, laundry, etc.; Class A basement garage.

Owner—S. F. Shusher.
 Architect—Milton J. Black, 807 North Spaulding Drive, Los Angeles.

Plans Being Completed.
APARTMENTS Cost, \$15,000
VALLEJO, Solano Co., Cal. Marin Avenue.

Two-story and basement frame and stucco apartment building (four 4-room apts.) tile roof, gas hot air heating system, oak floors, wall beds, etc.

Owner—Withheld.
 Architect—Chas. E. Perry, 514 Marin Ave., Vallejo.

Bids will be asked within one week.

Tile Contract Awarded.
REMODEL Cost, \$30,000
SAN FRANCISCO. No. 1164 Market Street.

Remodel four-story concrete loft building for apartments (add one story, 30 2-room apts., 4 stores).

Owner—A. W. Wilson.
 Architect—C. A. Meussdorffer, Humboldt Bank Bldg., San Francisco.

Tile Work—Malott & Peterson, 20th and Harrison Sts., at \$940.
 Other awards previously reported.

3—CHURCHES

Plans Being Completed.
CHURCH Cost, \$—
LOS ANGELES, Calif. Adams St. bet. Menlo and Elendale Sts.

One- and two-story frame and stucco church (141x100) slate composition roofing, steel girders, steel sash, wood floors, tile work, etc. (chapel

tn seat 600; tennis court on roof of gymnasium).

Owner—Rodger Williams Baptist Church.

Architect—C. F. Skilling, 1008 West Adams Blvd., Los Angeles.

Preliminary Plans Completed.
CHURCH Cost, \$15,000

CRESCENT CITY, Del Norte Co., Cal. One-story reinforced concrete church (to seat 275).

Owner—Roman Catholic Archbishop, (Father Nolan, Pastor) Crescent City.

Architect—Harry Devine, California State Life Bldg., Sacramento.

4—FACTORIES & WAREHOUSES

Machinery Contract Awarded.
PACKING PLANT Cont. Price, \$51,140
LINDSAY, Tulare Co., Cal.

One-story, basement and mezzanine reinforced concrete packing plant (250x130 feet); concrete walls, steam heating system, ventilating equipment, concrete floors, wood roof, steel sash, sheet metal skylights, plaster partitions.

Architect—W. W. Ache, 1616 Fourth Ave., Los Angeles.

Contractor—Los Angeles Contracting Co., 4816 W. Pico St., Los Angeles
Machinery and Equipment—Citrus Machinery Co., Lindsay.

Plans Being Completed.
WAREHOUSE Cost, \$—
IRVINGTON, Alameda Co., Cal.

One-story steel frame warehouse (190 x45 ft.); asphalt flat roof, concrete floors, etc.

Owner—Jackson & Perkins, Irvington.
 Plans by Owner.

Whether bids will be asked or not is not determined at this time.

Sheet Metal Contract Awarded.
FACTORY Cost, \$750,000

OAKLAND, Alameda Co., Cal. Foot of Adeline St. on the estuary.

Steel frame and concrete coconut products factory (650x100 feet) steel frame and reinforced concrete warehouse (40x146 ft.) pile foundations, flat slab flooring, corrugated iron roof and siding.

Owner—El Dorado Oil Works, Third and University Ave., Berkeley.
 Engineers—Ellison & Russell, Pacific Bldg., San Francisco.

Sheet Metal—Pacific Coast Steel Corp. 20th and Illinois Sts., San Francisco.

Planned.
IMPROVEMENTS Cost, \$—
MODESTO, Stanislaus Co., Cal.

Improvements to creamery.
 Owner—Edward Hooper, Modesto, and 1370 Barrows Road, Oakland.

Architect—Not Given.

Contract Awarded.
PACKING PLANT Cont. Price, \$51,140
LINDSAY, Tulare Co., Cal.

One-story, basement and mezzanine reinforced concrete packing plant (250x130 feet) concrete walls, steamheating system, ventilating equipment, concrete floors, wood roof, steel sash, sheet metal skylights, plaster partitions.

Owner—Lindsay Farm Bureau Packing Company.

Architect—W. W. Ache, 1616 Fourth Ave., Los Angeles.

Contractor—Los Angeles Contracting Co., 4816 W. Pico St., Los Angeles

Planned.
BAKING PLANT Cost, \$75,000

FRESNO, Fresno Co., Calif. Site not selected.

Modern baking plant.
 Owner—Athens & Golden State Baking Company.

Architect—Not Given.

George Ballas, owner of the Golden State Baking Company, at 1602 A St., and Estelios Kluyakis and Jas. Fotes, operators of the Athens Baking Company, at 1253 F St., Fresno, announced the merger of the companies.

Sub-Contracts Awarded.
FACTORY Cost, \$200,000

SAN JOSE, Santa Clara Co., Cal. Eighth and Taylor Streets.

Two-story reinforced concrete can factory (150x220 ft) (L 80x120 ft.) 20-year guaranteed roof, concrete floors, sprinkler system, steel sash, etc.

Owner—Continental Can Co., 155 Montgomery St., San Francisco.

Plans by Austin Co. of California, 1924 Broadway, Oakland.

Concrete Materials and Brick—Borchers Bros., 396 N-First St., San Jose.

Fill—W. E. Karstedt, 668 Morse St., San Jose.

Sprinkler System—Grinnell Co. of the Pacific, Fifth and Brannan Sts., San Francisco.

Steel Sash—Detroit Steel Products Co., 111 Sutter St., San Francisco.

Glass and Glazing—W. P. Fuller & Co., 301 Mission St., San Francisco

To Be Done By Day's Work.
SHED Cost, \$1200

STOCKTON, San Joaquin Co., Calif. 122 N Wilson Way.

One-story frame packing shed.
 Owner—San Joaquin Marketing Assn., 126 N Wilson Way, Stockton.

Architect—Not Given.

Contract Awarded.
REPAIRS Cost, \$6000

OAKLAND, Alameda Co., Calif. 850 42nd Street.

Repair fire damage to plant.
 Owner—Clorax Chemical Co., 850 42nd St., Oakland.

Architect—Not Given.

Contractor—C. Dudley DeVelliss, 351 Hobart St., Oakland.

Tank Contract Awarded.
ALTERATIONS, ETC. Cost, \$5000

SAN FRANCISCO. NW Third and Army Streets.

Alterations and additions to distributing plant (two 2300-gal tanks, enlarge retaining walls, etc.)

Owner—Shell Oil Co., Shell Bldg.
 Plans by Engineering Dept. of Owner.

Tanks—Western Pipe & Steel Co., 444 Market St., San Francisco.

Preparing Working Drawings.
WAREHOUSE Cost, \$40,000

SAN DIEGO, San Diego Co., Cal.

One-story and mezzanine floor warehouse (100x200 ft.) structural steel frame, brick walls, steel sash, steel rolling doors, concrete floors, automatic sprinkler system, etc.

Owner—Wellman Peck & Co., 301 Embarcadero, San Francisco.

Architect—J. E. Krafft, Phelan Bldg., San Francisco.

Bids will be asked in about two weeks.

LOS ANGELES, Cal.—General Cable Corp., 939 E. Fourth St., has leased property at Ninth and Esperanza Sts., in the Union Pacific Industrial Tract.

to be improved with a factory by the Union Pacific System. Tentative plans contemplate a one-story structure, covering an area of 160x300 feet. It will be used for the manufacture of cable for the Los Angeles Water & Power Bureau's 271-mile transmission line, a contract for which was awarded the General Cable Corp. in June.

Preparing Working Drawings.

WAREHOUSE Cost, \$35,000
FRESNO, Fresno Co., Cal. Ventura Ave. and P Street.

One-story and basement warehouse (133x200 ft.) brick walls, wood trusses, mill construction, concrete floors, tar and gravel roof, automatic sprinkler system, steel sash, etc.

Owner—Wellman Peck & Co., 301 The Embarcadero, San Francisco.

Architect—J. E. Krafft, Phelan Bldg., San Francisco.

Bids will be asked in about two weeks.

WINERY Cost, \$75,000

DELANO, Kern Co., Cal. Eleven-vat winery.

Owner—Walter J. Wallace.

Architect—Not Given.

Contractor—G. A. Graham, 613 19th St., Bakersfield.

SAN DIEGO, Cal.—The Ampco Corp. Dallas, Texas, has been awarded the contract by La Canada, Ltd., San Diego Trust & Savings Bldg., San Diego, to erect a gasoline refinery on a site near the McCormick Lumber Co. wharf, leased from the Santa Fe Railway. The plant will have a daily capacity of 67,000 gallons of gasoline and a storage capacity of 220,000 bbls. Construction will start within thirty days. B. C. Morrison, San Diego Trust & Savings Bldg., San Diego, is president of the company.

Plans Being Figured.

ALTERATIONS Cost, \$75,000
SEATTLE, Wash. 4058 Rainier Ave. Alterations for brewery (210x124) 200-000 barrel capacity per year.

Owner—National Brewing Co. Inc. (M. D. Kenney, vice-president and general manager).

Architect—Fred D. Stephen, Smith Tower, Seattle.

Bids are being taken from a selected list of contractors.

Cork Insulation—Pioneer Sand and Gravel Co., Seattle.

Piping—Crane & Co., Seattle.

Contract Awarded.

STORAGE PLANT Cost, \$40,000
PAJARO, Santa Cruz Co., Calif. Storage plant (capacity of 75,000 boxes; 140x700 ft.)

Owner—L. C. Matiasovich, Pajaro.

Architect—Not Given.

Contractor—Tom Rosewall, San Juan Road, Watsonville.

Contract Awarded.

FACTORY Cost, \$200,000
SAN JOSE, Santa Clara Co., Calif. Eighth and Taylor Streets.

One- and two-story brick can factory. Owner—Continental Can Co. 155 Montgomery St., San Francisco.

Plans by Contractor.

Contractor—Austin Co. of California, 1924 Broadway, Oakland.

Sub-bids are in and will be awarded within a few days.

Additional Sub-Contracts Awarded.

BREWERY Cost, \$100,000
SEATTLE, Wash. 3100 Airport Way. Remodel three- and four-story steel frame building for brewery (16,000 sq. ft. of floor space) steel frame interior, concrete and steel plate floors covered with mastic covering, etc.

Owner—Century Brewing Association of Canada.

Plans by Jos. Wohleb, Chambers Bldg. Olympia, Wash.

Contractor, A. W. Qulst Co., Exchange Bldg., Seattle.

Plumbing—Rantman Plbg. & Htg. Co., Seattle.

Steel Rolling Doors—D. E. Fryer and Co., Seattle.

As previously reported, structural steel awarded to Isaacson Iron Works, Seattle, approx. 700 tons involved; concrete and cork insulation to Pioneer Sand & Gravel Co., Seattle.

Planned.

BREWERY Cost, \$100,000
SANTA ROSA, Sonoma Co., Calif. 7 College Avenue.

Brewery (improvements will be made to three concrete, steel and frame buildings, two sheet iron, spur trackage and loading platforms, alterations and reconditioning machinery and equipment, etc.; 100-barrel per day capacity.)

Owner—Sonoma Valley Brewing Company (Michael J. Hanrahan, 300 Stanyan St., San Francisco, Pres.)

Architect—Not Given.

Further details will be announced shortly.

Officials of the company will include Frank P. Doyle, president of the Exchange bank, treasurer, and the following board of directors: Hanrahan, Dr. Buchner, Edith A. Humphreys, San Francisco; Attorney Clarence J. Tauzer, Santa Rosa, and W. G. Chancellor, San Francisco.

Preparing Plans.

WINERY Cost, \$100,000
WOODBIDGE, San Joaquin Co., Cal. Three one-story reinforced concrete buildings for winery.

Owner—Woodbridge Winery, Inc. (J. W. Oliver Ziegler, Pres.) Woodbridge.

Private plans.

Bids will be taken in about 60 days by Isidore Jubel, 2749 25th St., Sacramento, secretary-treasurer of the company.

5—FLATS

August 4, 1933

To Be Done By Day's Work.

FLATS Cost, \$7000
SAN FRANCISCO. S North Point 125 E Webster St.

Two-story and basement frame and stucco flats (2 flats).

Owner—Dr. Burfeind, 1378 Francisco St., San Francisco.

Architect—Not Given.

(2349) 5

Contract Awarded.

SERVICE STATION Cost, \$4000
SACRAMENTO, Sacramento Co., Cal. No. 2001 Stockton Blvd.

Steel service station.

Owner—Associated Oil Co., 79 New Montgomery St., San Francisco.

Plans by Engineering Dept. of Owner.

Contractor—Leo Myrick, Premises. (2341) 6

August 4, 1933

Sub-Contracts Awarded.

ALTERATIONS Cost, \$4000
SAN FRANCISCO. No. 1861 Bush St. Alterations to public garage.

Owner—Mrs. A. M. Hueter, 1361 Bush St., San Francisco.

Engineer—N. B. Green, 55 New Montgomery St., San Francisco.

Contractor—Barrett & Hilp, 918 Harrison St., San Francisco.

Underpinning—D. J. & T. Sullivan, 1942 Folsom St., San Francisco.

Structural Steel—Judson-Pacific Co., 609 Mission St., San Francisco.

Plumbing—Alexander Coleman, 746 Ellis St., San Francisco.

Electric—Frank J. Klmm, 456 Ellis

St., San Francisco.
(2223) 1st report July 22, 1933 6

Contract Awarded.

FLATS Cost, \$10,000
SAN FRANCISCO. N Lombard St.

56 E Laguna St.

Owner—A. Marenzi, 3224 Laguna St., San Francisco.

Architect—Not Given.

Contractor—G. Ferrari & Sons, 1966 Filbert St., San Francisco.

Contract Awarded.

FLATS & STORES Cont. Price, \$7650
SAN FRANCISCO. S Columbus Ave. 55 W Mason Street.

Two-story, basement and sub-basement frame and stucco flats (2 5-roof flats and one store and sub-basement); flat composition roof, individual gas radiators, individual electric refrigeration, tiled baths, hardwood floors, etc.

Owner and Builder—R. Panelli, 852 Union St., San Francisco.

Architect—Irvine & Ebbets (R. R. Irvine, Architect, 2048 Market St., San Francisco).

Contractor—Giuseppe Galli, 1900 Hyde St., San Francisco.

Contract Awarded.

ADDITION Cost, \$4900
ALVISO, Santa Clara Co., Cal. Addition to school.

Owner—Alviso School Dist. (Mrs. Elsie Madruga, principal).

Architect—Miller & Warnecke, Financial Center Bldg., Oakland.

Contractor—R. A. Griffin, San Jose Road, Irvington.

6—GARAGES & SERVICE STATIONS

To Take Bids Within A Few Days.

SERVICE STATION Cost, \$—
SAN FRANCISCO. Seventeenth and Dolores Streets.

Steel service station.

Owner—Standard Oil Co., 225 Bush St. Plans by Engineering Dept. of Owner.

Contract Awarded.

SERVICE STATION Cost, \$5000
COLMA, San Mateo Co., Calif. Mission and School Streets.

Steel and brick service station.

Owner—Associated Oil Co., 79 New Montgomery St., San Francisco.

Plans by Engineering Dept. of Owner.

Contractor—Barrett & Hilp, 918 Harrison St., San Francisco.

Preparing Plans.

SERVICE STATION Cost, \$10,000
NORTH BERKELEY, Alameda Co., Cal. 175x175 feet.

Reinforced concrete super service station.

Owner—Withheld.

Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.

Sub-Contracts Awarded.

SERVICE STATION Cost, \$—
OAKLAND, Alameda Co., Calif. 320 14th Street.

Brick service station.

Owner—Cameron's., 1418 Webster St., Oakland.

Contractor—H. C. Cameron, 1418 Webster St., Oakland.

Building Materials—Hayward Building Materials Co., Atherton and Jackson, Hayward.

Pumps—Richfield Oil Co., 13th and Franklin Sts., Oakland.

Cement Work—Powell Bros., Pearl St. at Harrison Ave., Alameda.

Equipment—Rheem Mfg. Co., Shesley at S. P. tracks, Berkeley.

Contract Awarded.

ALTERATIONS Cost, \$1352
SAN FRANCISCO. No. 840 Post St. Alterations to public garage.

Owner—H. A. Flaler, 810 Post St., San Francisco.
 Architect—Not Given.
 Contractor—Commercial Constr. Co., Call Bldg., San Francisco.

Construction Under Way.
ALTERATIONS Cost, \$6000
PLACERVILLE, Eldorado Co., Cal.
 Alterations to steel service station.
 Owner—Shell Oil Co., Shell Bldg., San Francisco.
 Plans by Engineering Dept. of Owner.
 Contractor—Henry Finnigan, 1901 T St., Sacramento.

Construction Under Way.
ALTERATIONS Cost, \$5000
AUBURN, Placer Co., Cal.
 Alterations to steel service station.
 Owner—Shell Oil Co., Shell Bldg., San Francisco.
 Plans by Engineering Dept. of Owner.
 Contractor—Henry Finnigan, 1901 T St., Sacramento.

Plans Being Figured—Bids Close August 16.
SERVICE STATION Cost, \$—
SAN FRANCISCO, Junipero Serra Blvd. and Ocean Ave.
 Concrete wood stud and plaster service station (plastering, roofing, ornamental iron, etc.)
 Owner—Associated Oil Co., 79 New Montgomery Street.
 Plans by Engineering Dept. of Owner.

7—FEDERAL BUILDING

WASHINGTON, D. C.—V. D. Lorenzo, 128 W. Manhattan St., Santa Fe, New Mexico, at \$2480 awarded contract by Treasury Department for painting plaster in connection with the U. S. Post Office at Santa Fe, New Mexico.

WASHINGTON, D. C.—N. Clark & Sons, 116 Natoma St., San Francisco, at \$2501 awarded contract by Treasury Department for plaster models in connection with the U. S. Post Office at San Jose, Calif.

WASHINGTON, D. C.—W. F. McCrea Company, 731 E 8th St., Oakland, at \$2,184.81 submitted low bid to the Treasury Department for 275 Venetian blinds for the U. S. post office at Sacramento, Proposal No. 214. Following bids received:
 W. F. McCrea Co., Oakland.....\$2,184.81
 Venetian Blind Service Co. Inglewood 2,559.76
 Burlington Venetian Blind Co., Burlington, Vt. 2,900.00
 E. C. Dehn & Co., S. F. 3,389.00
 Bunnett Venetian Blind Co., Portland, Ore. 3,453.00
 Bostwick-Goodell Co., Norwalk Ohio 3,627.80
 Yardley Screen & Weatherstrip Co., Columbus, Ohio 3,943.61
 Acme Screen Co., Ft. Worth, Texas 4,052.93
 Athey Co., Chicago..... 4,200.00
 Watson Mfg. Co., Jamestown, New York 4,240.00
 Bids held under advisement.

WASHINGTON, D. C.—W. F. McCrea Company, 731 E 8th St., Oakland, at \$99 submitted low bid to Treasury Department for 18 Venetian blinds for the U. S. post office at Palo Alto, Proposal No. 192. Following bids received:
 W. F. McCrea Co., Oakland.....\$ 90.00
 Burlington Venetian Blind Co., Burlington, Vt. 120.00
 E. C. Dehn & Co., S. F. 139.50
 The Sherman Co., Palo Alto..... 158.21
 Yardley Screen & Weatherstrip Co., Columbus, Ohio..... 197.50
 Acme Screen Co., Ft. Worth..... 203.62
 J. G. Wilson Corp., Norfolk, Va. 266.00

SACRAMENTO, Cal.—Until Aug. 15, 2 P. M., bids will be received by C.

N. Franklin, resident engineer, room 222, Hotel California, Eighth and I Sts., Sacramento, for lawn sprinklers and floodlight and buzzer system in connection with the Federal building in Sacramento.

8—CLUB BUILDINGS

Bids to—Under Advisement.
LODGE BLDG Cost, \$—
SAN FRANCISCO Fourteenth and Landers Streets (125x85 feet).
 Two-story and mezzanine floor and basement Class B reinforced concrete lodge building (auditorium 55x100 ft.) handball and basketball courts, showers, banquet rooms, seven lodge rooms, two card rooms and two committee rooms.
 Owner—United Irish Societies.
 Architect—John J. Foley, 770 5th Ave., San Francisco.
 Cahill Bros., 206 Sansome St., submitted the low bid. Bids held under advisement until August 11.

Preparing Working Drawings.
MEMORIAL BLDG. Cost, \$70,000
SAN LEANDRO, Alameda Co., Calif. Bancroft Ave. near Estudillo.
 Two-story reinforced concrete Veterans' memorial building (100x125) tile roof, steam heating system.
 Owner—County of Alameda.
 Architect—H. H. Meyers, Kohl Bldg., San Francisco.
 Plans will be completed in about 30 days.

9—HOSPITALS

August 8, 1933

Planned.
ADDITION Cost, \$—
MARTINEZ, Contra Costa Co., Cal. 25-bed addition to county hospital.
 Owner—County of Contra Costa.
 Architect—Not Given.
 Bids for moving the building located in rear of courthouse will be asked within two weeks.

YUBA COUNTY, Cal.—Yuba County Supervisors have requested Federal Aid in financing the reconstruction of the Yuba County Hospital. Plans call for a modern ward to accommodate 20 beds, and complete rebuilding of the present brick structure. Estimated cost \$75,000.

Sub Contracts Awarded.
ADDITION Cost, \$7343
SAN FRANCISCO, Geary Street and Fifth Avenue.
 One- and two-story steel frame and brick addition to hospital for solarium and X-ray Dept. (lead coated copper and tar and gravel roof, tiling, plastering, Brita glass, etc.)
 Owner—French Hospital, Geary Street and Fifth Avenue.
 Architect—Fabre and Hildebrand, 110 Sutter Street.
 Contractor—H. H. Larsen, 64 South Park Street.
Mis. & Orn. Iron—Folsom Street Iron Works, 17th and Missouri Sts.
Roofing—Alta Roofing Co., 976 Indiana Street.
Sheet Metal—Morrison & Co., 74 Duhoce Avenue.
Steel Sash & Screens—Soule Steel Co., 1750 Army Street.
Painting—A. A. Zelinsky, 4426 California Street.
Tile—Art Tile & Mantel Co., 221 Oak Street.

10—HOTELS

WICKENBURG, Arizona.—A. Lytal, Cactus Gardens, south of Wickenburg, is having plans prepared for a ranch hotel to be built at Cactus Gardens. The project will include hotel bungalows, recreational facilities, etc.

Contracts Awarded.
REMODEL HOTEL Cost, \$10,000
MARYSVILLE, Yuba Co., Cal. No. 424 Fifth Street.
 Remodel five-story hotel (reinforced concrete and frame construction, brick curtain walls) work involves new roof, exterior painting, new windows, stormproofing upper part of building, interior changes, etc.)
 Owner—Marysville Hotel.
 Architect—Chas. Dean, California State Life Bldg., Sacramento.
 Engineer—C. A. Worder, Marysville Hotel, Marysville.
Roofing Materials—F. A. Clark, Fruitridge St., Sacramento.
Painting—Robinson Paint Co., Marysville, at \$741.65.
Mill Work—Diamond Match Co., Chico at \$1175.
Carpentry—Schell & Triplett, Yuba City, at \$4100.
Sheet Metal—Frank M. Booth, Marysville at \$1441.15.

Bids will be taken at a later date on finishing room on fifth floor, work involving plastering, papering, plumbing, electric, tile work, cabinet work, etc.

12—POWER PLANTS

August 4, 1933

BONDS DEFEATED
MONTEBELLO, Los Angeles Co., Cal. — The \$125,000 bond issue to finance the proposed municipal light and power distributing system was defeated at the special election Aug. 1. 12

EUREKA, Humboldt Co., Cal.—City council plans development of water and power project on the Mad River; estimated cost \$1,200,000 for power and \$375,000 for municipal water system. C. C. Kennedy, 74 New Montgomery St., San Francisco, engineer on the project.

13—PUBLIC BUILDINGS FIRE HOUSES & JAILS

Commissioned To Prepare Plans.
CITY HALL Cost, \$40,000
REDLANDS, San Bernardino Co., Cal. New City Hall.
 Owner—City of Redlands.
 Architect—Howard E. Jones, Anderson Bldg., San Bernardino.
 Application will be made to the government for a loan to finance construction.

SAN FRANCISCO.—Oak Floor Co., 225 Arlington St., at \$930 awarded the contract by Trustees of the San Francisco War Memorial for hardwood flooring in Room No. 1 in the Veterans Building, Civic Center.

Plans Completed.
ADDITION Cost, \$15,000
WATSONVILLE, Santa Cruz Co., Cal. Reinforced concrete and structural steel addition to public library, (40 by 60 ft.) composition and shingle roofing and remodel present bldg.
 Owner—City of Watsonville.
 Architect—A. W. Story, Pajaro Valley Bank Bldg., Watsonville.
 Bids will be asked when loan from the government is granted.

COMPTON, Los Angeles Co., Cal.—City of Compton has made application for NRA funds in the sum of \$240,000 to finance the construction of the following public buildings in Compton:
 Public Library to cost \$40,000 allocated as follows: \$16,600 for labor; \$20,400 for materials; \$3660 for overhead. The building is to be a reinforced concrete structure, 100x74 feet in area.
 City Hall to cost \$150,000 allocated as follows: \$56,000 for labor; \$82,000

for material; \$12,000 for overhead. The building is to be a two-story, reinforced concrete structure, 103x148 feet in area.

Swimming pool to cost \$50,000 allocated as follows: \$20,000 for labor; \$26,500 for materials; \$3500 for overhead. The pool is to be 100x45 in area and 7 feet, 6 inches in depth at one end. It will be lined with white cement and tile. A reinforced concrete structure, 25x100 feet, to house dressing rooms and showers, will be built in conjunction with the pool.

Commissioned To Prepare Plans.
CITY HALL Cost, \$—
CHINO, San Bernardino Co., Cal.
New City Hall.

Owner—City of Chino.
Architect—Howard E. Jones, Anderson Bldg., San Bernardino.

Application will be made for N.R.A. funds with which to finance the project.

Planned.
ADDITION Cost, \$200,000
RENO, Nevada.
Addition to court house (jail to accommodate 96; clerk, treasurer & recorder's offices; sheriff's residence, etc.)

Owner—County of Washoe.
Architect—F. J. De Longchamps, Gazette Bldg., Reno.

Funds to finance the construction will be requested from the government

LONG BEACH, Calif.—Long Beach city manager has made application for NRA funds with which to finance the construction of the following public buildings:

Fire stations, \$177,500;
Libraries, \$400,000;
Comfort stations, \$50,000;
City hall, \$75,000;

ORANGE COUNTY, Calif.—Orange County engineer has made tentative application for NRA funds with which to finance the following Orange county buildings:

Tuberculosis ward for Orange county hospital, \$30,000; plans available.

Repairs to Huntington Beach public buildings, \$7500; plans partially complete.

Orange public library addition, \$18,000; plans complete.

Orange swimming pool \$35,000; plans complete.

Orange fire hall, \$11,500; plans complete.

La Habra city hall, \$10,000; plans complete.

SAN DIEGO, Cal.—City of San Diego has taken out a building permit to restore buildings in Balboa Park. Estimated cost of the work is \$70,500.

Plans Approved.
CITY HALL Cost, \$30,000
SIGNAL HILL, Los Angeles Co., Cal.
SW Cherry Ave. and Hill St.

Reinforced concrete city hall (67x100 feet) tile and composition roofing, gas steam radiators, concrete vault, vault door, wrought iron work, etc.

Owner—City of Signal Hill.
Architect—Clarance N. Aldrich, 1834 Dawson Ave., Long Beach.

Bids will be asked in about two weeks.

SAN FRANCISCO—Until August 23, 2:30 P. M., bids will be received by S. J. Hester, Chief Dupty Director, City Hall, for remodeling the Adams School on Ellis St., between Van Ness Ave. and Polk St. for the Van Ness Avenue Police Station.
General construction.....\$4500
Plumbing and mechanical work. 1750
Specifications available from the Bureau of Architecture, City Hall.

OAKLAND, Cal.—Alameda County Supervisors will request Federal Aid to finance construction of a Hall of Records and Courthouse in Oakland. Estimated cost, \$2,000,000.

Planned.
JAIL Cost, \$1500

LOS GATOS, Santa Clara Co., Cal.
One-story steel and concrete jail (2 cells) Spanish style.

Owner—City of Los Gatos (Henry C. Noble, Chief of Police), Los Gatos
Architect—Not Selected.

Further details will be announced shortly.

Site To Be Selected.
CITY HALL Cost, \$20,000

MENLO PARK, San Mateo Co., Cal.
Site to be selected.

One-story reinforced concrete city hall (wood interior, tile roof, concrete exterior walls, unit gas heating system, etc.)

Owner—City of Menlo Park (Fannie I. Kurtz, city clerk).

Architect—A. A. Cantin, 557 Market St., and William Mooser, Monadnock Bldg., San Francisco, Associated.

The site will be selected shortly, the choice to be made between a location on Oak Grove Ave. and Hoover St. and at Santa Cruz Ave. and Curtis St.

14—RESIDENCES

Owner Taking Bids.
RESIDENCE Cost, \$11,000

OAKLAND, Alameda Co., Cal. Oakmore Highlands.

Two-story and basement frame and stucco residence (8 rooms and 3 baths) tile roof, gas heating system, interior stucco walls, tiled baths, hardwood floors and trim.

Owner—W. Wright, 1108 98th Avenue, Oakland.

Plans by W. W. Dixon, 1844 5th Ave., Oakland.

Bids are being taken for a general contract.

To Be Done By Day's Work.
RESIDENCE Cost, \$4000

SAN FRANCISCO. W Potrero Ave., 175 S 22nd St.

Two-story and basement frame and stucco residence.

Owner—W. Tobin, 1014 Potrero Ave.

Architect—Not Given.

Owner Taking New Bids.
RESIDENCE Cost, \$—

SAN MATEO, San Mateo Co., Calif. Baywood Park.

1½-story frame and stucco residence (7 rooms, 2 baths) tile roof, gas heating system, interior stucco and canvas, tiled baths and kitchens.

Owner—A. L. Scott, 244 Staten Street, San Mateo.

Architect—Harold Stoner, 810 Ulloa St., San Francisco.

To Be Done By Day's Work.
RESIDENCE Cost, \$—

REDWOOD CITY, San Mateo Co., Cal. 1540 Gordon Street.

One-story frame and stucco residence (4 rooms).

Owner and Builder—Richard T. Stafford, 129 9th Ave., San Francisco.

Plans by Owner.

Plans Being Re-Figured.
RESIDENCE Cost, \$6000

SAN FRANCISCO. Twin Peaks Dist. Two-story frame and stucco residence

(tile roof, gas hot air heating system, hardwood floors, tiled baths)

Owner—C. C. Easley.

Architect—Miller & Warnecke, Financial Center Bldg., Oakland.

Sub-Contracts Awarded.
RESIDENCE Cost, \$15,000
SAN FRANCISCO. Marina Blvd. near Fillmore Street.

Two-story and basement frame and stucco residence (9 rooms and 3 baths) tile and composition roof, gas hot air heating system, tiled baths, oak floors, electric refrigeration, ornamental iron, etc.

Owner—Capt. D. W. Thomsen.

Architect—D. D. Stone, 110 Sutter St., San Francisco.

Contractor—Fred Du Puy, 110 Sutter St., San Francisco.

Lumber—Rolando Lumber Co., 301 Berry St., San Francisco.

Mill Work—National Mill & Lumber Co., 230 California St., S. F.

Sheet Metal and Heating—Standard Heating Co., 534 Irving St., S. F.

Glass—Arthur Goepp, 70 12th St., San Francisco.

Electric—Frank Goodman, 1466 33rd Ave., San Francisco.

Plumbing and Tile Work—Scott Co., 243 Minna St., San Francisco.

Plans Being Prepared.
RESIDENCE Cost, \$5000

OAKLAND, Alameda Co., Cal. Rockridge District.

One-story and basement frame and stucco residence (6 rooms) shingle roof, gas heating system, hardwood floors, canvas walls, tiled baths, steel sash, etc.

Owner—Dr. D. A. Torrano, 5816 Ocean View Drive, Oakland.

Architect—Williams & Wastell, 374 17th St., Oakland.

Plans will be completed in about one week.

Preparing Sketches.
RESIDENCES Cost, \$6500 each

BERKELEY, Alameda Co., Cal. Cragmont District.

Two two-story and basement frame and stucco residences (6 rooms each); shake roof, gas heating system, hardwood floors, tiled baths, etc.

Owner—Withheld.

Plans by F. W. Confer, 2812 Russell St., Berkeley.

Plans Being Prepared.
RESIDENCE Cost, \$8500

BERKELEY, Alameda Co., Cal. Piedmont Pines.

Two-story and basement frame and stucco residence (8 rooms and 2 baths); tile roof, brick veneer, steel sash, gas heating system, hardwood floors, tiled baths, etc.

Owner—Withheld.

Plans by F. W. Confer, 2812 Russell St., Berkeley.

Bids will be asked in about one week.

Preparing Working Drawings.
RESIDENCE Cost, \$10,000

SAN FRANCISCO. E San Pablo Ave. N Yerba Buena.

Two-story and basement frame and stucco residence (8 rooms and 3 baths); slate roof, gas hot air heating system, tiled baths, hardwood floors, etc.

Owner—John B. King.

Architect—Martin Rist, Phelan Bldg., San Francisco.

Bids will be asked in about ten days.

Plans Being Completed.
RESIDENCE Cost, \$5000

BERKELEY, Alameda Co., Cal. York Avenue.

One-story and basement frame and stucco residence (5 rooms) English style, shingle roof, gas heat, hardwood floors, etc.

Owner—Withheld.

Architect—Hardman and Russ, Berkeley Bank Bldg., Berkeley.

Bids will be asked in about 10 days.

Steel Sash Contract Awarded.
RESIDENCE Cost, \$5000
LAFAYETTE, Contra Costa Co., Cal.
 One-story and basement adobe residence (6 rooms) Spanish type, tile roof, oil heating system, hardwood floors, tiled bath, steel sash, etc.
 Owner—Harry Hindman, Lafayette.
 Architect—Hardman and Russ, Berkeley Bank Bldg., Berkeley.

Steel Sash—Fenestra Const. Co., 63rd and Doyle, Oakland.
 As previously reported, carpentry, concrete, brick awarded to H. Laughlin, Concord.

Contract Awarded.
RESIDENCE Cost, \$6000
SAN JOSE, Santa Clara Co., Calif.
 Calaveras Avenue.

One-story and basement frame and stucco residence (7 rooms).
 Owner—Wm. A. Fleck and Hilda Fleck 603 N San Pedro, San Jose.
 Plans by Bruce Barnard, 74 N First St., San Jose.
 Contractor—Rollie Williams, 1527 Shasta St., San Jose.

Plans Being Figured—Bids Close Aug. 17th.

RESIDENCE Cost, \$12,000
SAN FRANCISCO, Marina District.
 Two-story and basement frame and stucco residence (10 rooms and 4 baths) terra cotta and slate roof, gas or oil heating system, air conditioning system, hardwood floors and trim, canvas walls, wood sash, oak trim; 2-car garage.

Owner—Withheld.
 Architect—F. F. Amandes, 1879 18th Avenue.

Sub-Contracts Awarded.
RESIDENCE Cost, \$—
SAN FRANCISCO, W San Andreas Ave. (St. Francis Wood).

Two-story and basement frame and stucco residence (9 rooms and 3 baths); tile roof, canvas walls, oak flooring, electric refrigeration, etc.

Owner—Mr. and Mrs. Thos. C. Boyle.
 Architect—H. C. Baumann, 251 Kearny St., San Francisco.

Contractor—Moore & Roberts, 693 Mission St., San Francisco.

Concrete—Golden Gate Concrete Co., 2271 Turk St., San Francisco.

Brick Work—L. G. Maslin.

Tile—Granada Tile Co., 1553 Page St., San Francisco.

Electric—Grandi Electric Co., 3373 Sacramento St., San Francisco.

Hardwood Floors—Regal Floor Co., 620 4th St., San Francisco.

Plumbing—W. E. Trousdale, 422 Turk St., San Francisco.

Glass—W. P. Fuller & Co., 301 Mission St., San Francisco.

Roofing—Fisher & Houts, 1252 Howard St., San Francisco.

Sheet Metal—Poulsen & Co., 421 5th St., San Francisco.

Lumber—Smith Lumber Co., Fourth and Channel Sts., San Francisco. 14

Contract Awarded.
RESIDENCE Cost, \$8000
SAN FRANCISCO, W Maywood Drive 650 S Santa Paula.

Two-story and basement frame and stucco residence.

Owner—H. L. Pomeroy.

Architect—J. White, Russ Bldg., San Francisco.

Contractor—Oscar L. Cavanaugh, 432 Occidental Ave., San Mateo.

Sub-Contracts Awarded.
RESIDENCE Cost, \$5000
OAKLAND, Alameda Co., Cal. No. 4072 Oakmore Road.

Two-story frame and stucco residence (6 rooms and 2 baths); tile roof, gas heating system, tiled baths, hardwood floors, etc.

Owner—E. Hamm, 2033 34th Avenue, Oakland.

Architect—Not Given.
 Contractor—Folke Wallin, 2150 50th Ave., Oakland.

Steel Sash—East Bay Glass Co., 621 5th St., Oakland.

Lumber—Hogan Lumber Co., Second and Alice Sts., Oakland.

Sub-Contracts Awarded.
RESIDENCE Cost, \$4810
OAKLAND, Alameda Co., Cal. Contra Costa Road.

One-story and basement frame, brick veneer and stucco residence (five rooms) shake roof, steel sash, stucco interior walls, oak floors, tiled baths, warm air heating system, etc.

Owner—C. J. Borgenson, 1187 Keeler St., Berkeley.

Architect—Ray Keefer, 770 Wesley Ave., Oakland.

Contractor—J. R. Armstrong, 1131 Fleet Road, Oakland.

Lumber—Sunset Lumber Co., 400 High St., Oakland.

Plumbing—Ambrose Bros., 206 Chumalia Ave., San Leandro.

Shakes—Furnished by Marshall Shingle Co., 3729 Telegraph Ave., Oakland.

Steel Sash—East Bay Glass Co., 621 Sixth St., Oakland.

Glass—W. P. Fuller & Co., 259 10th St., Oakland.

Concrete—Valentino Dizillo, 1022 53rd St., Oakland.

Construction Postponed Indefinitely.

RESIDENCE Cost, \$15,000
SAN FRANCISCO, St. Francis Wood.
 Two-story and basement frame and stucco residence (8 rooms and 3 baths) slate roof, gas hot air heating system, hardwood floors, tiled baths, etc.

Owner—Mrs. Watkins.

Architect—Irvine & Ebbetts (R. R. Irvine, architect) 2048 Market St.

Bids will be asked shortly.

Plans Being Prepared
RESIDENCE Cost, \$5000
BERKELEY, Alameda Co., Cal. York Avenue.

One-story and basement frame and stucco residence (5 rooms) English style, shingle roof, gas heat, hardwood floors, etc.

Owner—Withheld.

Architect—Hardman & Russ, Berkeley Bank Bldg., Berkeley.

Bids will be asked shortly.

Contract Awarded.
RESIDENCE Cost, \$7500
SAN FRANCISCO, E Bartlett Street S Twenty-fifth Street.

Two-story frame and stucco residence (8 rooms, 2 baths) slate or composition shingle roof, canvas walls and ceilings, tiled baths, hot air furnace, French design.

Owner—Mr. and Mrs. W. A. Christen, 354 Bartlett Street.

Architect—H. C. Baumann, 251 Kearny Street.

Contractor—Mager Bros., 1359 Fourth Avenue.

Contract Awarded.
RESIDENCE Cost, \$20,000
HILLSBOROUGH, San Mateo Co., Cal.
 Two-story and basement frame and stucco residence (13 rooms and 4 baths) English type, slate roof, gas heating system, hardwood floors.

Owner—Nathan Rothman.

Architect—Hyman & Appleton, 68 Post St., San Francisco.

Contractor—Jacks & Irvine, Call Bldg., San Francisco.

Contract Awarded.
RESIDENCE Cost, \$5000
SAN FRANCISCO, S Russia St. 100 E Dublin.

One-story and basement frame and stucco residence.

Owner—V. Ozor, 228 Dublin Street.
 Plans by C. A. Wilder, 1065 Noe St.

Contractor—B. C. Lindsay, 133 Oxford.

Contract Awarded.
RESIDENCE Cost, \$5000
OAKLAND, Alameda Co., Calif. 4072 Oakmore Road.

Two-story frame and stucco residence (six rooms).

Owner—E. Hamm, 2033 34th Avenue, Oakland.

Architect—Not Given.

Contractor—Folke Wallin, 2150 50th Ave., Oakland.

To Be Done By Day's Work.
RESIDENCE Cost, \$4000
BERKELEY, Alameda Co., Calif. 549 Cragmont Avenue.

Two-story frame and stucco residence (six rooms).

Owner and Builder—W. A. Netherby, 3853 Lyman Road, Oakland.

Plans by Owner.

Planned.
RESIDENCE Cost, \$—
YREKA, Siskiyou Co., Calif.

Natural stone residence (to replace building destroyed by fire).

Owner—I. V. G. Rae, Shackelford Creek, Yreka.

Architect—Not Given.

Contract Awarded.
RESIDENCE Cost, \$5000
BERKELEY, Alameda Co., Calif. 595 Vincente Street.

One-story and basement frame and stucco residence (7 rooms).

Owner—L. C. Wegand, 824 Curtis St., Berkeley.

Plans by W. W. Dixon, 1844 5th Ave., Oakland.

Contractor—Milton S. Bonds, 914 The Alameda, Berkeley.

Sub-Contracts Awarded.
RESIDENCE Cost, \$—
OAKLAND, Alameda Co., Cal. Arbor Villa Tract.

1½-story frame and stucco residence (6 rooms) English type.

Owner and Builder—F. E. Taylor, 1622 Harrison St., Oakland.

Plans by owner.

Electric—Diamond Electric Co., 2100 Hopkins St., Oakland.

Concrete—Otto Hennig, 3727 Suter St. Oakland.

Sash, Doors—Western Door and Sash Co., 5th and Cypress, Oakland.

Lumber—Bay City Lbr. Co., 48th Ave. and E 12th St., Oakland.

To Be Done By Day's Work.
ADDITION Cost, \$2700
SAN FRANCISCO, 268 Eureka St.

Addition to residence.

Owner—P. Schneider, 268 Eureka St.

Architect—M. Gunzendorfer, 405 Montgomery Street.

Preparing Sketches.
RESIDENCE Cost, \$10,000
SAN FRANCISCO, Nineteenth Ave. near Anza St.

Two-story and basement frame and stucco residence (9 rooms and 2 baths) tar, gravel and tile or slate roof, canvas walls, hardwood floors and trim, hot water heating system, etc.

Owner—Withheld.

Architect—J. Lloyd Conrich, 214 9th Avenue.

To Be Done By Day's Work.
RESIDENCES Cost \$6,000 each
FRESNO, Fresno Co., Calif. 420-425 Terrace.

Two one-story and basement frame and stucco residences.

Owner and Builder—Taylor Wheeler, Inc., Power Co. Bldg., Fresno.

Plans by Owners.

- Sub-Contracts Awarded.
RESIDENCE Cost, \$7500
PIEDMONT, Alameda Co., Cal. Piedmont Pines.
- Two-story and basement frame and stucco residence (model home) wood shake roof, hot air heating system, etc.
Owner—Breuner Furniture Co., 21st and Broadway, Oakland.
Architect—Miller & Warnecke, Financial Center Bldg., Oakland.
Contractor—C. W. Leekins, 1652 Hopkins St., Oakland.
- Brick Work—A. B. McMurty, 6326 Broadway Terrace, Oakland.
Electric—Vashell Electrical Co., 23 Randwick Ave., Oakland.
As previously reported, lumber reported to Eureka Mill & Lumber Co., 3615 E-14th St., Oakland; doors and sash to Western Door & Sash Co., 5th and Cypress Sts., Oakland; plumbing to A. Petitjean, 1649 11th Avenue, Oakland.
- Contract Awarded.
RESIDENCE Cost, \$6000
PALO ALTO, Santa Clara Co., Cal. No. 1106 Hamilton Avenue.
Two-story frame and stucco residence
Owner—Earl Smith.
Architect—Not Given.
Contractor—W. F. Klay, 124 University Ave., Palo Alto. 14
(2343)
- Sub-Contracts Awarded.
RESIDENCE Cost, \$5000
ALAMEDA, Alameda Co., Cal. No. 2953 Southwood Drive.
One-story and basement frame and stucco residence (7 rooms).
Owner—E. L. Foulger, 328 Santa Clara Ave., Alameda.
Architect—Not Given.
Contractor—J. H. Pickrell, 332 Santa Clara Ave., Alameda.
Concrete—Reichel & Bredhoff, 1555 Central Ave., Alameda.
Electric—Kerr & Clifford, 3525 East 14th St., Oakland.
Flooring—Marshall Hardwood Floor Co., 1611 Pearl St., Alameda.
Tile—Rigney Tile Co., 3012 Harrison St., Oakland.
Lumber—Zenith Mill & Lumber Co., 2101 E-12th St., Oakland.
Millwork—Atkinson Mill & Mfg. Co., 2985 Chapman St., Alameda.
Plastering—A. Springer Co., 620 17th St., Oakland.
Hardware—E. Simon Hardware Co., 639 Broadway, Oakland.
(2303) 1st report Aug. 1, 1933 14
- Commissioned To Prepare Plans.
RESIDENCE Cost, \$10,000
SAN FRANCISCO, Nineteenth Ave. Near Anza Street.
Two-story and basement frame and stucco residence (9 rooms and 2 baths).
Owner—Withheld.
Architect—J. Lloyd Conrich, 214 9th Ave., San Francisco.
Further details will be announced shortly.
- Owner Taking Segregated Bids.
RESIDENCE Cost, \$5500
OAKLAND, Alameda Co., Cal. Fernwood.
One and one-half-story frame and stucco residence (6 rooms and 2 baths) tile and composition roof, gas heating system, interior stucco walls, hardwood floors, etc.
Owner—M. P. Brasch, 77 Glen Ave., Oakland.
Plans by W. W. Dixon, 1844 Fifth Ave., Oakland.
- To Be Done By Day's Work.
RESIDENCE Cost, \$4000
SAN FRANCISCO, NE Lower Terrace and Roosevelt Way.
One-story and basement frame and stucco residence.
Owner—L. H. Andeen, 151 Lower Terrace.
Architect—Not Given.
- To Be Done By Day's Work.
RESIDENCE Cost, \$4500
SAN FRANCISCO, E 22nd Ave. 320 N Ocean Ave.
One-story and basement frame and stucco residence.
Owner and Builder—J. Horn, 4708 Mission Street.
Plans by Owner.
- Contract Awarded.
RESIDENCE Cost, \$10,000
ATHERTON, San Mateo Co., Cal.
One-story and basement frame and stucco residence (11 rooms and 4 baths) slate roof, gas heating system, hardwood floors, tiled baths, colored fixtures, slate terraces.
Owner—Withheld.
Architect—F. F. Amandes, 1879 18th Ave., San Francisco.
Contractor—Aetna Constr. Co., 166 Miramar Ave., San Francisco.
- Sub-Bids Being Taken.
RESIDENCE Cost, \$3200
OAKLAND, Alameda Co., Cal. Oakmore Highlands.
One-story and basement frame and stucco residence (5 rooms) composition and part tile roof, gas heating system, hardwood floors, etc.
Owner & Builder—A. H. Monez, 4350 Bridgeview, Oakland.
Plans by W. W. Dixon, 1844 Fifth Ave., Oakland.
- Contract Awarded.
RESIDENCE Cost, \$3800
SALINAS, Monterey Co., Cal.
One-story frame and stucco residence (6 rooms) shingle roof, gas heating system, hardwood floors, etc.
Owner—James Force, 310 Central Ave., Salinas.
Architect—Chas. Butner, Glikbarg Bldg., Salinas.
Contractor—W. E. Green, 27 Lincoln Ave., Salinas.
- Segregated Bids Being Taken.
RESIDENCE Cost, \$5000
LAFAYETTE, Contra Costa Co., Cal.
One-story and basement frame and stucco residence (6 rooms) Spanish type, tile roof, oil heating system, hardwood floors, tiled bath, etc.
Owner—Harry Hindman, Lafayette.
Architect—Hardman & Russ, Berkeley Bank Bldg., Berkeley.
Carpentry, Concrete, Brick—H. Laughlin Concord.
- Plans Being Prepared.
COTTAGES Cost, \$—
WALNUT CREEK, Contra Costa Co. Cal. San Ramon Heights.
Five one-story brick cottages (3 rooms each).
Owner—Mason McDuffie Co., 2101 Shattuck Ave., Berkeley.
Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley. 14
(2374)
- Low Bidders.
RESIDENCE Cost, \$6500
BERKELEY, Alameda Co., Cal. San Luis Road.
Two-story frame, stucco and brick veneer residence (6 rooms and 2 baths) wood sash, hot air heating system, oak floors, tiled baths, tile roof, etc.
Owner—John Rutherford.
Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.
Low Bidder—J. M. Walker, 1709 Grove St., Berkeley.
- Preparing Sketches.
RESIDENCE Cost, \$6500
BERKELEY, Alameda Co., Cal. Stonewall Road.
- Two-story and basement frame and stucco residence (7 rooms and 2 baths); brick veneer, tile roof, hot air heating system, tiled baths, hardwood floors.
Owner—Withheld.
Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.
- Plans Being Figured.
RESIDENCE Cost, \$6000
BERKELEY, Alameda Co., Cal. Miller Avenue.
One and one-half-story residence (6 rooms) shingle roof, gas hot air heating system, hardwood and tile floors, electric refrigeration, steel sash, etc.
Owner—Dr. H. Dana Carey, American Trust Co. Bldg., Berkeley.
Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.
- Sub-Contracts Awarded.
RESIDENCE Cost, \$—
BERKELEY, Alameda Co., Cal. Euclid Ave. near Acacia St.
Two-story frame and stucco residence (6 rooms); spanish style, tile and composition roof, gas heating system, hardwood floors, etc.
Owner—E. A. Edgar.
Architect—Not Given.
Contractor—Geo. Windsor, 928 Klinkston Ave., Piedmont.
Millwork—Atkinson Mill & Mfg. Co., 2985 Chapman St., Oakland.
Fixtures—W. M. Weekly.
Screens—Roll-Away Screen Co., Ltd., 2911 Shattuck Ave., Berkeley.
Ornamental Iron—Ed Mueller's Ornamental Iron Works, 1728 San Pablo Ave., Oakland.
Steel Sash—Michel & Pfeffer Iron Works, Inc., Tenth and Harrison Sts., San Francisco.
Hardware—Maxwell Hardware Co., 1320 Washington St., Oakland.
As previously reported, tile awarded to Superior Tile & Products Co., 3743 Broadway, Oakland; heating and sheet metal to M. C. Henry, 1183 53rd St., Oakland; roofing to M & S Tile Co., Decoto; canvas decks to Kronke-Brampton Co., 3213 San Pablo Ave., Oakland.
- Contract Awarded.
RESIDENCE Cost, \$2500
SOUTH SAN FRANCISCO, San Mateo Co., Cal.
One-story and basement frame and stucco residence.
Owner—Louis Gianneccchini.
Architect—Not Given.
Contractor—Angelo Zangrando, 725 Grand Ave., South San Francisco.
- Contract Awarded.
RESIDENCE Cost, \$15,000
HILLSBOROUGH, San Mateo Co., Cal.
Two-story and basement frame and stucco residence (12 rooms) shakes roof, gas hot air heating system, hardwood floors, tiled baths, etc.
Owner—Thomas McLaren.
Architect—Jas. Mitchell, 369 Pine St., San Francisco.
Contractor—C. H. Bessett Bldg. Co., 826 Walnut St., Burlingame.
- Contract Awarded.
RESIDENCE Cost, \$10,000
PALO ALTO, Santa Clara Co., Cal. Southwood Drive.
Two-story and basement frame and stucco residence (tile roof, gas hot air heating system, hardwood floors, tiled baths, etc.)
Owner—L. S. Gurley.
Architect—Birge M. Clark, 310 University Ave., Palo Alto.
Contractor—Orton & Tunberg, 218 Cowper St., Palo Alto.
- Contract Awarded.
RESIDENCE Cost, \$4000
SAN FRANCISCO, N Twenty-second St. 50 E San Bruno Ave.

One-story and basement frame and stucco residence.
 Owner—A. Borghello, 2735 20th St., San Francisco.
 Architect—Not Given.
 Contractor—F. Terwilliger, 850 Guerrero St., San Francisco.

Plans Being Prepared.
 RESIDENCE Cost, \$10,000
 LOS GATOS, Santa Clara Co., Cal.
 One-story frame and stucco residence (8 rooms and 3 baths) shingle roof, oil heating system, steel sash, hardwood floors, etc.
 Owner—Withheld.
 Architect—Ralph Wyckoff, First National Bank Bldg., San Jose.

Contract Awarded.
 RESIDENCE Cost, \$8500
 PIEDMONT, Alameda Co., Cal. Wild-wood Gardens.
 Two-story and basement frame and stucco residence (8 rooms) Spanish type, tile roof, gas hot air heating system, hardwood floors, wood sash, etc.
 Owner—B. F. Lindgren.
 Architect—Miller & Warnecke, Financial Center Bldg., Oakland.
 Contractor—J. W. Monroe, 5538 Claremont Ave., Oakland.

Additional Sub-Contracts Awarded.
 RESIDENCE Cost, \$10,000
 OAKLAND, Alameda Co., Calif. Estates Drive near Hampton Road.
 Two-story and basement frame and stucco residence (9 rooms) shingle wood floors, reinforcing steel, tile work, etc.
 Owner—Dr. Charles Hall, 411 30th St., roof, gas heating system, hard-Oakland.
 Architect—Miller & Warnecke, Financial Center Bldg., Oakland.
 Contractor—Theodore H. Lapham, 546 Kenmore Ave., Oakland.
 Shingle Roofing—W. L. Rideout, 641 Central Ave., Alameda.
 Sheet Metal—M. C. Henry, 1183 53rd St., Oakland.
 Brick Work—W. H. Wisheropp, 3749 Quigley St., Oakland.
 Hardwood Floors—Fred Thrall, 3006 Santa Clara Ave., Alameda.
 Tile Work—Superior Tile & Products Co., 3743 Broadway, Oakland.
 Concrete—Schnoor Bros., 6016 Claremont Ave., Oakland.
 Other awards reported July 22.

Plans Being Completed.
 RESIDENCE Cost, \$—
 BERKELEY, Alameda Co., Cal. Tam-
 alpais Road.
 Two-story and basement frame, brick veneer and stucco residence (12 rooms and 3 baths) terra cotta tile roof, gas hot air heating system, colored tiled baths, steel sash, hardwood floors, etc.
 Owner—Frederick Benner, 220 Montgomery St., San Francisco.
 Architect—William Wilson Wurster, 260 California St., San Francisco.
 Bids will be asked shortly.

Contract Awarded.
 RESIDENCE Cost, \$—
 PHOENIX, Arizona.
 Two-story concrete and adobe residence (asbestos roof, etc.)
 Owner—George T. Ashforth.
 Plans by R. T. Evans, Phoenix.
 Contractor—Evans Const. Co., Scotts-
 dale, Ariz.

15—SCHOOLS

Low Bidder.
 ADDITION Cost, \$5000
 ALVISO, Santa Clara Co., Calif.
 Addition to school.
 Owner—Alviso School Dist. (Mrs. Elsie Madruga, principal).
 Architect—Miller & Warnecke, Financial Center Bldg., Oakland.

Low Bidder—R. A. Griffin, San Jose Road, Irvington.

Low Bidders.
 SCHOOL Cost, \$—
 SUNNYSIDE, Washington.
 Reconstruct school building.
 Owner—Sunnyside School District.
 Architect—J. W. Mahoney, Yakima.
 Low Bidder—Harry Gochenour, Sun-
 nyside, \$19,723.
 Plumbing and Heating—Moore Plbg. &
 Htg. Co., Yakima, \$5,700.
 Electrical Fixtures—A. Estep & Sons,
 Yakima, \$760.
 Bids held under advisement.

Planned
 SCHOOL Cost, \$100,000
 ARLINGTON, Washington.
 High school building (to accommodate
 600 pupils).
 Owner—Arlington School District.
 Architect—Wm. Mailis, Lyon Building,
 Seattle.

SAN FRANCISCO.—The following
 awards made by Department of Pub-
 lic Works for painting schools:
 Excelsior School
 C. L. Wold, 4416 Fulton St., \$1,728.
 Franklin School
 Reliable Painting Co., 3247 19th St.,
 \$2,265.
 Sarah B. Cooper School
 Reliable Painting Co., 3247 19th St.,
 \$1,730.

SAN FRANCISCO.—Roman Catholic
 Archbishop has purchased a seven-
 acre tract at the Balboa Reservoir
 site. It is proposed to erect a school
 at a later date.

SAN FRANCISCO.—Dunn Roofing
 Co., 3597 Mission St., at \$700 awarded
 contract by the Department of Public
 Works for covering roof at the Bret
 Harte School with Pabco shingles.

Contract Awarded.
 HEATING PLANT Cont. Price, \$6855
 KING CITY, Monterey Co., Cal.
 Steam heating plant for grammar
 school.
 Owner—King City Union Grammar
 School Dist. (J. A. Carlson, chair-
 man).
 Engineer—George E. Atkins, Hobart
 Bldg., San Francisco.
 Contractor—Pacific Heating & Ventila-
 ting Co., 2059 Webster St., Oak-
 land.

Following is complete list of bids:
 Pacific Htg. & Plbg. Co. Oakland...\$6855
 Phillips Engr. & Plbg., Salinas... 6932
 Jas. H. Pinkerton, S. F. 7083
 Scott Co., San Francisco.....7085
 Herman Lawson, San Francisco...7315
 Anderson, Daugherty, Hargin Co.
 Salinas 7353
 Jas. A. Nelson, San Francisco..... 7426
 W. H. Picard, Oakland..... 7479
 Geo. C. Bell, Oakland..... 7613
 Carl T. Doell, Oakland..... 7700
 Standard Mech. Co., Oakland..... 7851
 B. A. Neuman Co., Fresno..... 7881
 Carpenter & Mendenhall, Sacto.... 8278
 O'Mara & Stewart, S. F..... 9468

SAN FRANCISCO—Until August
 16, 1:45 P. M., bids will be received by
 S. J. Hester, Chief Deputy Director,
 City Hall, for five-ply tar and gravel
 roof over girls' showers at the Galileo
 High School.

Plans Being Prepared—Bids Close
 August 19, 7:30 P. M.
 SCHOOL Cost, \$4500
 EMIGRANT GAP, Placer Co., Cal.
 One-story wood frame grammar school
 building (1 classroom) rustic ex-
 terior, shingle roof, maple floor,
 etc.
 Owner—Emigrant Gap School District
 Architect—W. E. Coffman, Forum
 Bldg., Sacramento.

Bids Opened.
 REPAIR SCHOOL Cost, \$10,500
 ALBANY, Alameda Co., Cal. Marin
 Avenue.
 Repairs to grammar school (add au-
 ditorium, alter classrooms, frame
 construction, reinforced concrete
 walls with steel columns, concrete
 and steel trusses, addition to
 steam heating system, maple floor-
 ing composition roof, etc.)
 Owner—Albany City School District.
 Architect—P. L. Dragon and C. R.
 Schmidts, 3016 Telegraph Avenue,
 Berkeley.

Low Bidder—C. M. Norgrove, 2220
 Roosevelt St., Berkeley.

Following bids received:
 (1) Cork carpet over blackboards
 for track strip.
 (2) New footlights for auditorium
 stage.
 (3) Ccletex on ceiling of three class-
 rooms.
 (4) Tile walls in entrance, vestibule
 and hall.

C. N. Norgrove, Berkeley.....	\$13,350
(1)	50
(2)	55
(3)	150
(4)	575
Geo. Petersen, San Leandro.....	\$13,990
(1)	50
(2)	100
(3)	200
(4)	420
Walter Sorensen, Oakland.....	\$13,994
(1)	78
(2)	125
(3)	141
(4)	534
Joe Zilla, Albany.....	\$14,648
(1)	60
(2)	46
(3)	230
(4)	597
Dinwidie Constr. Co., S. F.....	\$14,800
(1)	64
(2)	160
(3)	185
(4)	691
N. H. Sjoberg, S. F.....	\$15,333
(1)	50
(2)	108
(3)	107
(4)	599
M. C. Valenti, Oakland.....	\$15,392
(1)	56
(2)	108
(3)	132
(4)	396
Fred J. Early, San Francisco....	\$15,570
(1)	70
(2)	25
(3)	267
(4)	787
George Swanstrom, Oakland....	\$15,834
(1)	93
(2)	105
(3)	200
(4)	990
E. T. Leiter & Son, Oakland....	\$15,937
(1)	75
(2)	60
(3)	250
(4)	500
Alfred Olsen, Oakland.....	\$15,999
(1)	40
(2)	40
(3)	240
(4)	675
E. T. Lesure, Berkeley.....	\$16,343
(1)	40
(2)	58
(3)	210
(4)	550
C. Dudley DeVelbiss, Oakland..	\$16,676
(1)	93
(2)	115
(3)	224
(4)	713
San Francisco Constr. Co., San Francisco	\$17,152
(1)	55
(2)	50
(3)	198
(4)	660

Three low bids held under advise-
 ment until August 15.

Plans Being Figured—Bids Close Aug. 18, 7.30 P. M.

GYMNASIUM Cost, \$2600
SALINAS, Monterey Co., Cal.
 One-story frame gymnasium (25x40) composition roofing, maple floors.
 Owner—Salinas City School District.
 Architect—Charles Butner, Glikberg Bldg., Salinas.

Contract Awarded.

MECHANICAL WORK

Cont. Price, \$1540
ALBANY, Alameda Co., Cal. Ramona and Garfield Streets.

Furnishing and installing mechanical work for Herbert Hoover Junior High School.

Architect—P. L. Dragon and C. R. Schmidts, 3006 Telegraph Avenue, Berkeley.

Contractor—Pacific Heating & Ventilating Co., 2059 Webster St., Oakland.

Kitchen Equipment Contract Awarded
JR. HIGH SCHOOL Cost, \$300,000

SACRAMENTO, Sacramento Co., Cal. Land Park Dr. and Vallejo Way. Two-story Class C reinforced concrete and brick Junior High School (auditorium, gymnasium, etc.)

Owner—Sacramento City School Dist.

Architect—Harry J. Devine, California State Life Bldg., Sacramento.

Contractor—Campbell Constr. Co., 800 R St., Sacramento.

Kitchen Equipment—McLaughlin Sheet Metal Works, 1914 I Street, Sacramento, at \$3147.

SAN FRANCISCO.—Plant Rubber & Asbestos Co., 537 Brannan St., at \$643 submitted low bid to Department of Public Works for rebricking fuel box, boiler No. 1, at Galileo High School. Following bids received:

Plant Rubber & Asbestos Co. \$643
 J. N. J. Firebox Const. Co. 740
 Ludwig Incinerator Co. 753
 J. W. Howlett 998

Bids held under advisement.

ALHAMBRA, Los Angeles Co., Cal.—Until 10 A. M., August 19, bids will be received by the Alhambra board of education for steel lockers. Equipment will include approx. 303 steel lockers, metal shelves and wire baskets, 470 padlocks, desks, chairs, tables and stools. Specifications are on file at the office of Geo. L. Yelland, secretary.

SACRAMENTO, Cal.—Until Aug. 21, 5 P. M., bids will be received by Chas. C. Hughes, Secretary, Sacramento Board of Education, for furniture, athletic supplies and laboratory supplies for the school department. Specifications available from the Business Manager, School Administration Bldg., 21st and L Sts., Sacramento.

SAN RAFAEL, Marin Co., Cal.—Until August 22, 8 P. M., bids will be received by Oliver R. Hartzell, Secretary, San Rafael Board of Education, High School Building, East Mission St., San Rafael, for construction of a storm drain on the grounds of the San Rafael High School. Plans and specifications available from above office.

Preparing Working Drawings.

GYMNASIUM Cost, \$—
SANTA ROSA, Sonoma Co., Cal.

One-story frame and brick veneer gymnasium (171x235 ft.); seating capacity of 2200 (separate gymnasium for men & women, swimming tank, etc.)

Owner—Santa Rosa Junior College District (Floyd Bailey, Dean), Santa Rosa.

Architect—Wm. Herbert, Rosenberg Bldg., Santa Rosa.

Bids will be asked in about three weeks.

Contract Awarded.

HEATING PLANT Cost, \$3500

HUGHSON, Stanislaus Co., Cal. Steam heating plant for elementary school.

Owner—Hughson Elementary School District.

Architect—G. N. Hillburn, 1213 I Street Modesto.

Contractor—Hansen Plbg. Co., Modesto (heating system) and Leonard Scranton, Hughson (conc. work).

Planned.

SCHOOL Cost, \$300,000

EALBOA, Canal Zone.

Construction of a High School and Junior College Building.

Owner—United States Government.

Architect—Not Given.

SAN GABRIEL, Los Angeles Co., Cal.—San Gabriel School District has made application for NRA funds in the sum of \$300,000 with which to finance the construction of a high school plant, the loan to be secured by bonds which the district proposes voting. The plant would consist of an auditorium, a classroom building and miscellaneous structures.

16—BANKS, STORES AND OFFICES

August 4, 1933

Contract Awarded.

STORES Cost, \$9300

COLMA, San Mateo Co., Cal. E Mission St. N Market St.

One-story reinforced concrete store building.

Owner—Domenico Garibaldi, Colma.

Architect—DoDge Riedy, Pacific Bldg., San Francisco.

Contractor—A. Milano Bros., 464 Vallejo St., San Francisco.

(1932) 1st report June 28; 2nd Aug. 2, 1933. 16

August 4, 1933

Sub-Contracts Awarded.

MARKET Cost, \$17,000

SAN FRANCISCO, Polk Street 100 S Vallejo Street.

One-story and mezzanine floor reinforced concrete market.

Owner—Samuel Levin, 25 Taylor St.

Engineer—H. C. Britt, care Henslee Corporation.

Lessee—Henslee Corp., 366 17th Street, Oakland.

Contractor—H. L. Petersen, 731 Treat Avenue.

Reinforcing Steel—Concrete Engr. Co., 1280 Indiana Street.

Plastering—Marconi Plastering Co., 1737 Beach Street.

Other awards will be made shortly.

(1996) 1st report June 30; 4th, July 18, 1933. 16

Contract Awarded.

ALTERATIONS Cost, \$2000

SAN FRANCISCO, 291 Sixth Avenue.

Alterations to restaurant.

Owner—Pappas & Guicos, 291 6th Ave.

Contractor—L. R. Anderson, 253 States Street.

Plans Completed.

REPAIR STORE Cost, \$51,700

LONG BEACH, Los Angeles Co., Cal. 600 W Seventh St.

Repairs to Class A department store (repair brick and terra cotta work, incinerator, fur storage room, concrete platform and tying 2 buildings together).

Owner—Robinson Fireproof Bldg. Co.

Architect—Edward L. Mayberry, 3910 E 3rd St., Long Beach.

Plans Being Prepared.

STORE Cost, \$75,000

SAN BERNARDINO, San Bernardino Co., Calif. SW Court and E Sts. (61½x164).

Two-story and mezzanine floor and basement store building.

Owner—Montgomery Ward & Co., Chicago.

Plans by Engineering Dept. of Owner.

Floor Fixture Contracts Awarded.

ALTERATIONS Cost, \$50,000

SAN FRANCISCO, 867-871 Market St.

Alterations to four-story and basement store (130,000 sq. ft. of floor space).

Owner—Lincoln Realty Co., Mills Bldg.

Architect—E. M. Sharpe, 525 Market Street.

Engineer—A. P. Fisher, 111 Sutter St.

Lessee—J. C. Penney Co., 330 W 34th St., New York City.

Contractor—J. B. Oswald, Mills Bldg., and 433 California Street.

Floor Fixtures—Mullen Mfg. Co., 64 Rausch St., and Unit Built Fixture Co., San Francisco.

Heating and ventilating bids are in and will be awarded within a few days. Other awards reported July 13.

Contract Awarded.

ALTERATIONS Cost, \$7000

SANTA ROSA, Sonoma Co., Cal. 4th Street.

Alterations to department store.

Owner—The White House, Fourth St., Santa Rosa.

Plans by Mr. Forbes, Mill Valley.

Contractor—Ostlund & Johnson, 1901 Bryant St., San Francisco.

August 9, 1933

Contract Awarded.

ALTERATIONS Cost, \$15,000

SAN FRANCISCO, Montgomery and Bush Streets.

Remodel ground floor of Mills Building for brokerage office (30 foot frontage) partitions, floor covering, wiring, painting, stock boards.

Owner—McKinley Bissinger and Jesse Lilienthal.

Architect—S. Heiman, 605 Market St., San Francisco.

Lighting Trough—Frink & Co., 557 Market St., San Francisco.

As previously reported, interior fixtures, woodwork, etc., awarded to Seymour Show Case & Fixture Co., 604 Mission St.; wiring to Frank J. Klimm, 465 Ellis St.

Sub-Contract Awarded.

STORES Cost, \$11,500

SAN FRANCISCO, W Ninth Street 166 S Mission.

One-story and mezzanine floor Class C reinforced concrete store building (tar and gravel roof, gas heating system, concrete and wood floors, etc.)

Owner—L. Meyers, 68 Post Street.

Architect—Hyman & Appleton, 68 Post Street.

Contractor—Jacks & Irvine, Call Bldg.

Steel Sash and Reinforcing Bars—Tru-son Steel Co., Call Bldg.

Sub-Bids Being Taken.

STORE Cost, \$5000

SAN FRANCISCO, N Fifteenth St. 25 E Minna St.

One-story Class C concrete store building (42x90 ft.) composition roof, concrete floors, steel sash, miscellaneous iron, mill work, plumbing, electrical work, glass and glazing, etc.

Owner—H. Morgan, 2821 16th St., San Francisco.

Architect—Arnold Constable, 580 Market St., San Francisco.

Engineer—S. Hodess, 536 Shrader St., San Francisco.

Contractor—Larsen & Larsen, 629 Bryant St., San Francisco.

To Be Done By Day's Work.

ALTERATIONS Cost, \$1500

SAN FRANCISCO, 100-110 Bush St.

Alterations to office building.

Owner—Grant Co., 114 Sansome St., San Francisco.

Architect—Not Given.

Stair Contract Awarded.
STORE Cost, \$50,000
 SAN FRANCISCO. 1041 Market St.
 Seven-story Class C steel and concrete store.
 Owner—Weinstein Co. (Isidor Weinstein, President) 1041 Market St.
 Architect—Hyman & Appleton, 68 Post Street.
 Engineer—H. Rosenthal, 821 Market Street.
 Contractor—Jacks & Irvine, Call Bldg.
 Stairs—L. S. Peirano, 60 13th Street.

Sub Contracts Awarded.
MARKET Cost, \$7500
 SAN FRANCISCO. Ocean Ave. near Miramar Street.
 One-story Class C concrete market (tar and gravel roofing, concrete and tile flooring, galvanized iron marquee, tile bulkhead, terra cotta front, steel sash, etc.)
 Owner—C. F. Morbil.
 Architect—Wm. H. Toepke and Otto G. Hinterman, Associate architect, 74 New Montgomery Street.
 Contractor—H. H. Larsen Co., 64 So. Park Street.
Steel Sash—Soule Steel Co., 1750 Army Street.
Orn. Iron—Sullivan Iron Works, 780 Brannan Street.
Roofing—Alta Roofing Co., 916 Indiana Street.
Tile Work—Art Tile & Mantel Co., 221 Oak Street.

Contracts Awarded.
ALTERATIONS Cost, \$15,000
 SAN FRANCISCO. Montgomery and Bush Streets.
 Remodel ground floor of Mills Building for brokerage office (30 foot frontage) partitions, floor covering, wiring, painting, stock boards.
 Owner—McKinley Bissinger and Jesse Lillenthal.
 Architect—S. Heiman, 605 Market St.
Interior Fixtures, Woodwork, Etc.—Seymour Show Case & Fixture Co., 604 Mission St.
Wiring—Frank J. Klimm, 456 Ellis St.
 Other awards will be made shortly.

Owner Taking Bids.
STORES & OFFICES Cost, \$30,000
CROCKETT, Contra Costa Co., Calif.
 Two-story and basement reinforced concrete and structural steel store and office bldg. (composition roof, steel sash, steam heat, etc.)
 Owner—L. Valli, Crockett.
 Architect—Chas. E. Perry, 514 Marin Ave., Vallejo.

Bids are being taken for a general contract with separate bids for mechanical work.

Plans Completed.
ALTERATIONS Cost, \$5000
 OAKLAND, Alameda Co., Calif. 3105-3107 E 14th Street.
 Alterations to building for cabaret (carpentry, partition work, fixtures, hardwood floors, linoleum, decorating, etc.)
 Owner—Sam Neider, 3927 Edgemore Place, Oakland.
 Plans by Unit Built Fixture Co. (Leo Roselyn) 963 Harrison Street, San Francisco.
Carpentry—Peterson & Son, Oakland.
Fixtures—Unit Built Fixture Co., 963 Harrison St., San Francisco.

Bids on other portions of the work will be asked in a few days.

Contract Awarded.
ALTERATIONS Cost, \$4186
 OAKLAND, Alameda Co., Cal. NE Thirteenth and Washington Sts.
 Alterations and additions to one- and two-story building (50x100 ft.)
 Owner—Eianche Boardman Porter.
 Architect—Edward T. Foulkes, 357 12th St., Oakland.
 Contractor—Wilbur C. Cone, 1744 Broadway, Oakland.

Contract Awarded.
ALTERATIONS Cost, \$1500
 SAN FRANCISCO. No. 948 Howard Street.
 Alterations to store and apartment for shop.
 Owne—R. Brown, 948 Howard St., San Francisco.
 Engineer—N. B. Green, Sharon Bldg., San Francisco.
 Contractor—F. R. Siegrist, 604 Mission St., San Francisco.

17—THEATRES

THEATRE Award, \$—
LINDSAY, Tulare Co., Calif.
 Rebuild theatre (raise brick wall 12 ft. and concrete, wood trusses, composition roof, etc., new stage, balcony and projection room, seating capacity of 800).
 Owner—Brunswick Amusement Co.
 Architect—J. Lloyd Conrich, 214 9th Ave., San Francisco.
 Contractor—Sallh Bros., 25 Taylor St., San Francisco.
Roofing—O. H. Willoughby, 633 E Inyo St., Tulare.
Electric—Cox Electric Co., Red Bluff.
 As previously reported, lumber and cement awarded to Spaulding Lumber Co. Lindsay; reinforcing steel to Soule Steel Co., 1750 Army St., San Francisco.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$30,000
 OAKLAND, Alameda Co., Calif. 1439 Broadway.
 Alterations to Century Theatre.
 Owner—Golden State Theatre Corp., 25 Taylor St., San Francisco.
 Architect—Meyer and Jorgensen, 525 Market St., San Francisco.
 Contractor—A. J. Hopper, 1769 Pleasant Valley Road, Piedmont.
Plumbing—Walter Grey, 3734½ E 14th St., Oakland.
Heating, Ventilating—Aladdin Heating Corp., 5107 Broadway, Oakland.
Decorating—Chevalis & Santocoro, 58 Monterey Blvd., San Francisco.
Concrete Material—Makin & Kennedy, Inc., 101 4th St., Oakland.
Electric—Matson-Seabrooke Co., 4115 Broadway, Oakland.
Lumber—E. K. Wood Lumber Company, Frederick and King Streets, Oakland.

18—WHARVES & DOCKS

SAN FRANCISCO.—O'Neil & Legge, 527 Haight St., at \$337.60 net (no time specified) submitted low bid August 3 to Lighthouse Supt., Custom House, to drive piles and erect one four-pile structure in 2½-ft. of water at mean high water, at western end of New York Slough. Complete bids follow:
 O'Neil & Legge, San Francisco \$337-60 net, no days.
 Bundesen & Lauritzen, Pittsburgh, \$469, 1%, 10 days, 5 day completion.
 A. W. Kitchen, San Francisco, \$718, net, no date.
 Duncanson-Harrelson, San Francisco, \$729, net, 20 days.
 M. E. McGowan, San Francisco, \$1,993, net, 30 days.
 Bids held under advisement.

STOCKTON, San Joaquin Co., Cal.—Until August 14, 5 P. M., bids will be received by B. L. Trahern, city clerk, for furnishing and installing floating fenders for Wharves 2, 3 and 4 of the Stockton Deep Water Development, Stockton. Plans and specifications may be inspected at the offices of the City Clerk or Director of the Port, City Hall, Stockton.

SAN FRANCISCO—Duncanson-Harrelson Co., deYoung Bldg., at \$2320 awarded contract by Southern Pacific-Golden Gate Ferries, Ltd., to repair

spring line at the end of the outer pile cluster between slips Nos. 8 and 9, Mission St. Terminal, foot of Mission Street.

OAKLAND, Cal.—Architects Kent & Hass, 525 Market St., San Francisco, awarded a contract to the Forrester Cornice Works, 269 Potrero Ave., San Francisco, for sheet metal office partitions and ceilings, including steel sash, glass, steel counters, wainscoting hand rail, etc., in connection with the construction of the new boat and train concourses for the Key Terminal Railway Co., Ltd., at the Key Pier, Oakland.

PANAMA CANAL ZONE—Work approved for Panama Canal Zone includes construction of Dock No. 15 at Cristobal, \$350,000 and Dock No. 14 at Cristobal, \$24,000.

KERN COUNTY, Cal.—Franklin B. Gridley, 256 S Lake Ave., Pasadena, at \$2355.26 awarded contract by State Highway Commission, Sacramento, to construct reinforced concrete piers about five miles north of Bakersfield at Oil Junction.

Complete bids published August 2.

SAN FRANCISCO—O'Neil & Legge, 527 Haight St., at \$337.60 net, awarded contract by U. S. Lighthouse Superintendent, to drive piles and erect one four-pile structure in 2½ ft. of water at mean high water, at western end of New York Slough.

Complete bids published Aug. 4.

19—MISC. CONSTRUCTION

Preparing Working Drawings.
ALTERATIONS Cost, \$4000
 SAN FRANCISCO. 133 Powell Street.
 Alterations for gymnasium (4 handball courts, showers, toilets, lunch room, cigar counter) rough carpentry, canvas awnings, plumbing, wiring, flooring, cement work, partition work, etc.
 Owner—Sam Shomer, % architect.
 Architect—J. Lloyd Conrich, 214 9th Avenue.

Bids will be asked in about 2 weeks.

SAN FRANCISCO.—All bids rejected by U. S. Engineer Office, Custom House, to repair U. S. motor boat "H. L. Demeritt" and to overhaul two Hall-Scott 4-cylinder 4-cycle 50-70-hp. marine engines for the same, and new bids will be asked shortly.

Complete bids for the repair of the boat were published August 2; for overhauling the engines published Aug. 3.

BENICIA, Solano Co., Calif.—Yuba Mfg. Co., Benicia, awarded contract to construct dredged for Yuba Consolidated Gold Fields, for their Montana fields, 5½ cu. ft. bucket size.

TUCSON, Ariz.—The Western Gas Co. of El Paso, Texas, will start work within 15 days on the construction of a natural gas pipe line from Douglas, Ariz., to Tucson, Ariz., and ultimately to Phoenix. The present lines supply Douglas and Bisbee from the Eastern New Mexico oil fields. The total length of the line will 253 miles, consisting of 10½-in. dia. steel pipe, involving over 16,000 tons of pipe. All trenching will be done by hand labor furnished through local relief committees. The company will finance the work from the proceeds of a \$2,200,000 loan granted in June by the Reconstruction Finance Corp. The Tucson Gas, Electric Light & Power Co. of Tucson (A. Pooler, Mgr.) will be the Tucson distributors.

KETTLEMAN HILLS, Kern Co., Cal.—Commonwealth Consolidated Gas Co., 1009 W 7th St., Los Angeles, is making arrangement for the construction of a carbon black plant in Kettleman Hills. The equipment will be housed in a steel frame building with sheet metal exterior. Work on the plant will not be started for about six months.

WASHINGTON, D. C.—Mare Island Navy Yard awarded contract to construct two 1500-ton cruiser-type destroyers, approximate cost \$3,500,000 each.

NEVADA STATE.—Public works program for Nevada under the NRA follows:

Fallon, water system, \$90,000.
Las Vegas, sewer system, \$110,000.
Elko, water system, \$50,000.
Carlin, water system, \$75,000.
Caliente, water and sewer systems, \$50,000.
Lovelock, water system, \$125,000.

Reclamation Projects: Truckee river and Truckee-Carson projects combined \$1,967,000; Carson river, \$750,000 upstream storage; Humboldt, for Callahan reservoir, \$1,300,000; Argenta Slough, \$150,000; North and south reservoir on Humboldt, \$1,200,000; Panaca, flood control, 25,000; Muddy river, reservoir, \$135,000; Pahranagat valley, drainage, \$50,000; Owyhee Reservation, \$292,000.

VENICE, Los Angeles Co., Cal.—Architects Plummer, Wurdeman & Beckett, 1108 Story Bldg., Los Angeles, have prepared sketches for a proposed pleasure pier to be erected on a site fronting on the ocean, extending from 17th to 34th St., Venice, for the Halper-Robbins Corp., Paramount Bldg., Los Angeles. In addition to other structures, the pier will have a ballroom, bath houses, swimming pool and sky-ride towers. A breakwater, 80x1400 feet, enclosing a yacht harbor, is also contemplated. Estimated cost of the project is \$2,500,000.

SAN FRANCISCO.—Until August 16 2:30 P. M., bids will be received by S. J. Hester, chief deputy director, Dept. of Public Works, City Hall, for new passenger elevator in the Civic Auditorium for the Board of Education. Estimated cost, \$7,300.

BERKELEY, Cal.—Ransome Co., 1450 Harrison St., Oakland, at \$3519 (30 days completion) submitted low bid to the Regents of the University of California to construct three tennis courts on the University of California campus, Berkeley. Complete bids follow:

Ransome Co., Oakland, \$3519; Alt. \$4274, 30 days.
Price Constr. Co., Oakland, \$3850; Alt. \$3500; Alt. \$3300, 30 days.
J. H. Fitzmaurice, Oakland, \$3873; Alt., \$3134; Alt., \$3372, 21 days.
W. H. Larsen, Berkeley, \$4350, 30 days.
Lee J. Immel, Berkeley, \$4395, 45 days.
Malott & Peterson, San Francisco, \$4785, 60 days.
Tleslau Bros., Berkeley, \$4968; Alt. \$5190, 30 days.
Bids held under advisement.

LOS ANGELES, Cal.—The office of the City Engineer has completed for the use of the Board of Public Works a list of street, structural, sewer and storm drain projects to be used in the selection of work to be financed under the NRA. The list totals \$60,371,840, segregated as follows:

St. improvement projects	\$16,287,250
Structures	12,933,490

Sanitary sewer projects.....	3,993,100
Storm drain projects.....	26,148,000

Grand total\$60,371,840

Contract Awarded.

OVENS Cost, \$2000
SAN FRANCISCO, SE Mendell and Oakdale Streets.
Install ovens in bakery.
Owner—A. Traverso, 466 Union St., San Francisco.
Architect—Not Given.
Contractor—J. P. Glaser, 2480 Union St., San Francisco.

WASHINGTON, D. C.—John S. Heilmann, 2703 21st St., San Francisco, at \$18,698 submitted low bid to Treasury Dept. for retaining walls, roadway, etc., at the U. S. Marine Hospital, San Francisco. Second low bid was submitted by Theodore Cohn, San Francisco, at \$19,450 and third low bid by E. J. Treacy, San Francisco, at \$19,590. Complete list of bids will be published shortly.

SAN FRANCISCO.—Until August 16 1:45 P. M., informal bids will be received by S. J. Hester, Chief Deputy Director, City Hall, for concrete stairs on the south sidewalk of Waller St. between Buena Vista Ave. and Broderick Street. Estimated cost, \$450.

20—MISC. SUPPLIES AND MATERIALS

ALBANY, Alameda Co., Cal.—California Wire Cloth Company, 587 Mission St., San Francisco at \$1,265 submitted low bid to Albany City Council for iron fencing along the northern boundary of the City Park.

SAN FRANCISCO.—Readymix Concrete Co., Ltd., Carolina and Marinosa Sts., awarded contract under Bid No. 1020 by City Purchasing Agent to furnish ready-mix concrete.
Complete bids published June 10.

LOS ANGELES, Calif.—Bernard Bandler & Sons were awarded the contract by Saul A. Joseph, Purchasing Agent of the Metropolitan Water District, August 4 for furnishing carbons (black diamonds) under Bid No. 12913.

DENVER, Colo.—Specifications No. 597-D for furnishing bituminous primer and enamel for pipe coating, for Boulder Dam, will be changed by the Bureau of Reclamation in order to open up the work to competitive bidding. Apparently only one firm could submit a bid on specifications as previously prepared. The previous bid opening was scheduled for August 3.

Planned.
RACE TRACK Cost, \$750,000
SAN FRANCISCO. Site to be Selected Construct race track.
Owner—Charles Strub et al, Seals Stadium, 16th and Bryant Sts., San Francisco.
Architect—Miller & Pflueger, 580 Market St., San Francisco.

A permit has been applied for to the State Racing Commission to operate. Associated in the racing enterprise are:

Felix McGinnis, Cliff Weatherwax, Roger Lapham and Harry Young, all of San Francisco. Further details will be announced when the permit is granted.

Four sites are under consideration, two in San Francisco and two in San Mateo.

LOS ANGELES, Cal.—The Water & Power Commission has recommended that A. J. Holm, Los Angeles city purchasing agent, award a contract to Soule Steel Co. at \$2929 for furnishing metal doors under Spec. No. 3069.

SACRAMENTO, Cal.—Following bids received by U. S. Engineer Office, at Sacramento to furnish:
(1) 4000 lin. ft. (100) Douglas fir piles, 40-ft. long;
(2) 4500 lin. ft. (100) do, 45ft. long;
(3) 2500 lin. ft. (50) do, 50-ft. long;
(4) 2800 lin. ft. (40) do, 70-ft. long.

Dougherty Lumber & Box Co., Cottage Grove, Ore., (1) \$.05 (2) \$.05 (3) \$.05 (4) \$.055.

James L. Hall, San Francisco, \$.0575 for all.

Hammond Lumber Co., \$.0575 for all.
Fox Lumber Co., Portland, \$.059 for all.

W. W. Wilkenson, \$.055, \$.0555, \$.063, \$.086.

McDonald & Harrigan, \$.064 for all.
McCormick Supply Co., \$.0723 for all.

J. H. Baxter, San Francisco, \$.0775 for 1, 2, and 3, \$.0825 for 4.

Gamerston & Green, \$.074 for all.
Sullivan Lbr. Co., Portland, \$.08 for all.

Morrill Stergeon, Portland, \$.085 for all.

Chas. R. McCormick Lbr. Co., \$.1385 for all.

Chas. Nelson Co., \$.1675 for 1, 2 and 3, \$.20 for 4.

Knox Lumber Co., lump sum bid, \$1035.

Bids held under advisement.

SANTA BARBARA, Cal.—Until 1:30 P. M., August 17, bids will be received by city council for furnishing 7000 bbls. crude oil for use on city streets during a period of six months. The bids received by the council July 27, were rejected August 4.

LOS ANGELES, Cal.—Los Angeles Iron & Steel Co. awarded contract by Saul A. Joseph, Purchasing Agent of the Metropolitan Water District, August 5 at \$1474.85 for furnishing steel under Bid No. 13360.

BREMERTON, Wash.—Until Aug. 21, 10 A. M., D. S. T., under Req. No. 491 NSA, bids will be received by Supply Officer, Puget Sound Navy Yard, to furnish:

(1) 4000 ft. radio cable, SRTL 1-4000 C.M.;
(2) 2000 ft. TRLL do, 2-4000 C.M.;
(3) 2400 ft. SRHL do, 1-4000 C.M.

Specifications obtainable from above office. Delivery Astoria and San Francisco, Sept. 11.

YREKA, Siskiyou Co., Cal.—Until Sept. 1, bids will be received by Forest Supervisor, Yreka, for all the merchantable dead timber standing or down, and all the live timber marked or designated for cutting on two areas within Sec. 4 T. 41 S. R. 1 W., W. M. Klamath National Forest, Oregon. Further specifications obtainable from above.

SAN FRANCISCO—Golden Gate Iron Works, 1541 Howard St., at \$710 for item 1 and Berkeley Steel Construction Co., Second and Camelia Sts., Berkeley, at \$182.75 for item 2 awarded contracts by U. S. Forest Service to furnish structural steel for 75 ft. steel trail bridge also structural steel for two steel towers 14 ft. ¼ in. Complete bids follow:
Independent Iron Works*, \$600; \$175.
Golden Gate Iron Works, \$710, \$200.
McClintic-Marshall Corp., \$758, \$178.
Schrader Iron Works, \$725, \$196.
Judson-Pacific Co., \$751, \$190.
Moore Dry Dock Co., \$885, \$247.

*Bids disqualified.

ENGINEERING NEWS

NEWS INDEX

For convenient reference, new reports in this section are classified as follows:

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| 21.—Bridges | 30.—Reservoirs and Dams |
| 22.—Dredging, Harbor Works, Excava. | 31.—Pipe Lines and Wells |
| 23.—Irrigation Proj. | 32.—Sewers & Sewage Disposal Plants |
| 24.—St. Light. Systems | 33.—Water Works |
| 25.—Machinery and Equipment | 34.—Parks & Play-grounds |
| 26.—Railroads | 35.—Tunnels |
| 27.—Fire Alarm Sys. | |
| 28.—Fire Equipment | |
| 29.—Streets & Highways | |

21—BRIDGES

GILA COUNTY, Ariz.—Until Aug. 24 10 A. M., bids will be received by C. H. Sweetser, District Engineer, U. S. Bureau of Public Roads, 802 Title and Trust Bldg., Phoenix, to construct two bridges on Section H, Route 12, Globe-Holbrook National Forest Highway, Tonto National Forest, involving:

- (1) 231 cu. yds. unclass. excav.
- (2) 19.3 MFEM untreated timber;
- (3) 199 cu. yds. cem. rubble masonry;
- (4) 164 sq. yds. asph. seal coat, bridge floor.

Specifications obtainable from above office on deposit of \$10, returnable; certified check payable to Regional Fiscal Agent, U. S. Forest Service.

WASHINGTON STATE.—Until Aug. 29, bids will be received by L. V. Morrow, State Director of Highways, for bridge and structure construction as follows:

Kittitas County: Construct 316 foot timber extensions to snowshed, Lake Keechelus vicinity.

Lincoln County: Construct treated timber trestle 131-ft. long, with concrete deck, over Northern Pacific tracks at Goven; reinf. conc. girder bridge 11-ft. long over Corbett creek and double reinf. conc. box culvert 55-ft. long in Almira, from Wilbur to Almira.

Callam County: Construct 589-foot bridge, consisting of 242-ft. steel thru spans with concrete girder approaches over Dungeness river.

Jefferson County: Construct two bridges from Duckabush north, a reinforced concrete through arch, 110-ft. spans with two 28-ft. concrete girder approach spans over Duckabush river, and a reinf. conc. girder bridge 121-ft. long over slough of Duckabush river. Specifications obtainable from above.

SACRAMENTO, Cal.—County Engineer Chas. W. Deterding preparing plans to construct two bridges across Sutter Slough in the Delta region, estimated cost \$30,000 ea.; a joint project of Sacramento and Yolo counties. Project will be financed by federal funds through the NRA. One bridge will be between Sutter and Merrit islands across the mouth of Sutter Slough; the other between Sutter Island and Holland Land district, a road to be built from the Holland Land bridge to the Paintersville bridge.

SAN JOSE, Santa Clara Co., Cal.—Collins & Martin, 1139 Glenn Ave., San Jose, at \$2698 awarded contract by county supervisors to widen reinforced concrete culvert on Montague Road at San Jose-Alviso Road, Supervisor District No. 3. Complete bids follow:

Collins & Martin, San Jose.....	\$2698
O. G. Ritchie, San Jose.....	2895
John D. Carlson, San Jose.....	3075
F. O. Bohnett, Campbell.....	3278
T. J. Doyle, San Francisco.....	3637
Carl N. Swenson, San Jose.....	3724
Lee J. Immel, Berkeley.....	3844
Surveyor's Estimate	3360

SAN JOSE, Santa Clara Co., Cal.—Collins & Martin, 1139 Glenn Ave., San Jose, at \$3058 awarded contract by county supervisors to construct three reinforced concrete culverts on Columbet Ave., between Church and Mastie Ave., Supervisor District No. 1. Complete bids follow:

Collins & Martin, San Jose.....	\$3058
F. O. Bohnett, Campbell.....	3445
Soda & Son, Oakland.....	3818
Wm. Radtke, Gilroy.....	3823
T. J. Doyle, San Francisco.....	3877
Carl N. Swenson, San Jose.....	4138
John D. Carlson, San Jose.....	4198
Sam Sciarrino, San Jose.....	4270
Valley Constructors, Inc., Modesto.....	4450
Surveyor's Estimate	3440

RIVERSIDE, Cal.—Until 10 A. M., August 21, new bids will be received by County Purchasing Agent, W. L. Carlson, Court House, for furnishing lumber for a pile trestle bridge over the Temecula River. The bids on redwood lumber opened July 17 were rejected August 7. New bids will probably be taken on Oregon pine and Douglas fir in some combination.

COCONINO COUNTY, Ariz.—Until August 31, 10 A. M., bids will be received by C. H. Sweetser, District Engineer, U. S. Bureau of Public Roads, 802 Title & Trust Bldg., Phoenix, to construct the Dead Indian Canyon Bridge on Section C, Cameron-Desert View approach to Grand Canyon National Park, involving:

- (1) 625 cu. yds. unclas. excav., struc.;
- (2) 425 cu. yds. concrete;
- (3) 46,000 lbs. reinf. steel;
- (4) 380,000 lbs. struc. steel;
- (5) 604 lin. ft. steel rail.

Specifications obtainable from above office on deposit of \$10, certified check payable to Regional Fiscal Agent, U. S. Forest Service.

22—DREDGING, HARBOR WORKS, EXCAVATION

SACRAMENTO, Cal.—Union Granite Co., Rocklin, at \$600 (\$.60 ton) submitted low bid August 3 to U. S. Engineer Office, Sacramento, to furnish 1000 tons rip-rap stone for wing dams. Only other bid submitted by Guy F. Atkinson, San Francisco, at \$890 (\$.89 ton).

Bids held under advisement.

CAPITAL CITY TITLE COMPANY

J. C. PALEN,
Manager

914 Seventh Street
Sacramento :: California

LOS ANGELES, Cal.—Until Sept. 6, 3 P. M., bids will be received by U. S. Engineer Office, 751 S. Figueroa St., Los Angeles, Maj. W. H. Lanagan, District Engineer, for dredging Los Angeles Outer Harbor, involving removal of 170,000 cu. yds. of material. Specifications obtainable from above office.

EUREKA, Humboldt Co., Cal.—Hearing on proposed improvement of Humboldt Bay and harbor will be held by the War Department (U. S. Engineer Office) August 11 at 2 P. M.

WESTERN STATES—Following allotments approved for maintenance of rivers and harbors:

Nome, Alaska.....	\$31,000
Wrangell Narrow, Alaska.....	30,000
Harbor of Refuge, Seward Alaska.....	10,000
Willapa River & Harbor, Wash. 55,800	
Grays Harbor and Bar Entrance, Wash.	53,000
Puget Sound, Wash.	18,000
Seattle Harbor, Wash.	32,000
Examinations & Surveys, Seattle District	36,500
Coquille River, Oregon.....	20,000
Coos Bay, Oregon.....	20,500
Coos River, Oregon.....	1,950
Nehalem Bay, Oregon.....	8,000
Skipanon Channel, Oregon.....	3,000
Columbia and Lower Willamette Rivers, below Vancouver, Wash. and Portland, Ore.....	515,160
Clatskanie River, Oregon.....	3,700
Willamette River above Portland and Yamhill, Ore.....	76,000
Lewis River, Oregon.....	1,000
Cowlitz River, Oregon.....	5,000
Skamokawa Creek, Oregon.....	1,600
Deep River, Oregon.....	800
Surveys, Portland District.....	28,600
San Joaquin River, Calif.....	30,500
Sacramento River, Calif.....	60,000
Surveys, Sacramento District.....	8,000
Expenses, California Debris Commission	6,900
San Francisco Harbor.....	45,000
San Pablo Bay, Mare Island Strait	20,000
Surveys, San Francisco District	25,000
Los Angeles-Long Beach Harbors	68,000
Surveys Los Angeles District.....	9,300
Surveys, Honolulu District.....	2,800

LOS ANGELES, Cal.—Bids will be called by the U. S. Engineer, Lieutenant, Virgil L. Peterson, 751 So. Figueroa St., Los Angeles, probably within the next ten days for the construction of a 4000-ft. unit of the Los Angeles Harbor Breakwater. The proposed work will be additional to the 1400-ft. unit now under construction, and will be part of the ultimate 12,500 ft. breakwater. The cost of the present 4000-ft. section has been estimated at \$1,650,000. The new unit will be of the same cross-section as the previous unit and will be constructed in 50 ft. of water. The bids will be taken on alternative proposals as follows:

SCHEDULE "A"

Composite type of breakwater involving clay mound foundation. The quantities are:

- 350,000 cu. yds. clay;
- 1,100,000 tons stone.

SCHEDULE "B"

Alternate: All stone breakwater. The quantities are:

- 1,500,000 tons of all classes of stone.

24—ST. LIGHT. SYSTEMS

SANTA MONICA, Los Angeles Co., Cal.—City council has under consideration the rewiring of the old lighting system along the Ocean Front promenade, and extension of lighting system along three miles of the beach, at an estimated cost of \$150,000. Application will be made for N. R. A. funds.

25—MACHINERY AND EQUIPMENT

EUREKA, Humboldt County, Cal.—Gustafson & Jensen, Eureka, at \$622 net (allowance made for old car) was awarded contract by city council to furnish one new Oldsmobile 8 coupe. Seven bids in all were received.

SAN FRANCISCO.—Yondall Const. Co., 215 Market St., awarded contract by U. S. Forest Service for the rental of a power shovel with operator, compressor and Caterpillar tractor.

LINCOLN, Placer Co., Calif.—Until August 18, 7 P. M., bids will be received by Violet M. Tupper, Clerk, Lincoln Union Grammar School District, to furnish:

One V-8 Ford truck chassis, or equal, lengthened and equipped to accommodate and carry a 35 and 45 grammar school capacity bus body.

One Patchetts and Carstensen all-steel double strength coach body, or equal, 35 and 45 grammar school capacity.

One Chevrolet truck chassis, or equal, equipped with coach body or equal; 35 and 45 grammar school capacity.

Specifications obtainable from above office.

SAN FRANCISCO—Following bids received by U. S. Forest Service, to furnish five revolving scrapers for use behind tractors, 7-yd. capacity, for 55-drawbar hp. tractors:

Killefer Mfg. Co., Los Angeles, \$843.75 (for 5).

Davenport Mfg. Co., Los Angeles, \$848.75.

Associated Equipment Co., Los Angeles, \$872.59.

Solano Iron Works, \$975.

Ed. R. Bacon Co., \$1050.

Chas. Berg Imp. Co., San Francisco, \$270 each., Ala. \$360, Alt., \$388.

Euclid Road Machinery Co., Cleveland, \$270 f.o.b. Euclid.

Austin-Western Road Machinery Co., \$2012.50; Ala., \$1207.50 (f.o.b. factory).

Bids held under advisement.

LOS ANGELES, Calif.—Until 2 P. M., August 28, bids will be received by county supervisors to furnish electric storage battery tractor, batteries and charging equipment to the General Hospital, 1100 Mission Road, under Specifications No. 291. This tractor is to be used for towing rubber-tired light industrial-type trailers through corridors of buildings and about the grounds of the General Hospital. The tractor shall be capable of pulling train of trailers gross weight load of 10,000 lbs. plus or minus. Bids will be taken as follows:

(A) Price of installation complete as per specifications using Edison storage batteries.

(Alt. No. 1) If Exide "Ironclad" storage batteries are used in place of Edison batteries, deduct.

Wm. Davidson, 1006 Hall of Records, county mechanical engineer. Mame B. Beatty, 501 Hall of Records,

SAN FRANCISCO—Until Aug. 18, 3 P. M., under Bid No. 1063, bids will be received by T. A. Brooks, City Purchasing Agent, 270 City Hall, to furnish one caterpillar maintenance unit for Department of Public Works. Specifications obtainable from above office.

MADERA, Cal.—Gordon Chevrolet Co. awarded contract by Madera Union High School District to furnish one G.M.C. T-43 chassis and the City Garage, to furnish one Wayne All-steel bus body, 48-passenger capacity

28—FIRE EQUIPMENT

BERKELEY, Cal.—Unail Aug. 22, 10 A. M., bids will be received by Florence E. Turner, City Clerk, to furnish:

(1) 1300 ft. 2½-in. cotton fabric rubber lined tire hose;

(2) 500 ft. 1½-in. double jacket do.

Specifications obtainable from above office.

30—RESERVOIRS & DAMS

SEATTLE, Wash.—King County Engineer Thomas D. Hunt, announces that plans will be prepared for \$2,000,000 flood control dam project in Buckley canyon near Enumclaw. Project proposed by King and Pierce counties. Dam would be 300 ft. wide and 250 ft. long, and would control the flow of the White River.

ELDRIDGE, Sonoma Co., Cal.—State will make survey in connection with construction of a dam and a lake reservoir on the coast side of the Sonoma State Home at Eldridge; proposed capacity will be 99,000,000 gals., the same as that of the present lake.

32—SEWERS & SEWAGE DISPOSAL PLANTS

HALFMOON BAY, San Mateo Co., Cal.—Sanitary district formed by residents of the Half Moon Bay district authorizes Geo. Kneese, Redwood City to proceed with plans for installing a \$20,000 sewer system. Project will probably be financed by a bond issue and with aid from the National Industrial Recovery Act.

MILL VALLEY, Marin Co., Calif.—Homestead Valley Sanitary District, near Mill Valley, seeks \$40,000 federal funds through the NRA to construct sewer system in the district.

BRISBANE, San Mateo Co., Cal.—Residents of Brisbane consider calling special election to dissolve Brisbane Public Utility District. H. O. Royce, president, and seek federal funds for construction of 12-in. sanitary outfall sewer.

Bids on this project were opened Nov. 7, 1932, and a complete list was published in issue of November 10, project having been held up since that date due to lack of funds for construction.

REDWOOD CITY, San Mateo Co., Cal.—City Engineer will prepare plans for storm sewers at various locations, the project to be financed by federal funds through the NRA. No estimated cost has been set as yet, but may run between \$20,000 and \$30,000.

SAN RAFAEL, Marin Co., Cal.—Until August 22, 8 P. M., bids will be received by Oliver R. Hartzell, Secretary, San Rafael Board of Education, High School Building, East Mission St., San Rafael, for construction

of a storm drain on the grounds of the San Rafael High School. Plans and specifications available from above office.

CLOVERDALE, Sonoma Co., Cal.—Until Sept. 5, 8 P. M., bids will be received by A. Jos. Giovannetti, city clerk, to furnish one Imhoff tank for the municipal sewer system. Specifications obtainable from above office.

33—WATER WORKS

SAN FRANCISCO—Until Aug. 18, 3 P. M., under Bid No. 1062, bids will be received by T. A. Brooks, City Purchasing Agent, 270 City Hall, to haul approximately 1700 tons cast iron pipe for S. F. Water Department. Specifications obtainable from above office.

FRESNO, Cal.—Until Aug. 17, 11 A. M., bids will be received by H. S. Foster, City Clerk, to furnish:

(1) 5000 ft. 6-in. c. i. b. & s class 200 water pipe;

(2) 12,000 ft. 8-in. do;

(3) 4000 ft. 10-in. do;

All bids f.o.b. Fresno, Nov. 1. Certified check 10% required with bid. Further specifications obtainable from above office.

REDWOOD CITY, San Mateo Co., Cal.—City Council plan to seek \$20,000 federal funds through the NRA for the extension of the Emerald Lake water system, involving an 8-in. transmission pipe line 6000 ft. long near Brewster Ave., and construction of a 1,000,000-gal. capacity reservoir.

SACRAMENTO, Cal.—The \$170,000,000 water revenue bond act of the Central Valley water project has been signed by the governor. The project may now be included in the federal public works program. The project proposes the construction of dams at Kennett and Friant and the transfer of surplus water from the Sacramento river to the south San Joaquin valley. The department of public works plans to apply for N. R. A. funds. The plan, which involves storing of 3,000,000 acre feet of water in seven northern counties, provides for a dam near Kennett in the Sacramento river to store the water; conduits near the mouth of the river to supply lands at that point; a pumping system to carry water up the San Joaquin river from the Sacramento river; a dam at Friant in the San Joaquin river; a canal to Madera county and a long canal to carry water from that point through Fresno and Tulare counties into Kern County. Kings County would be cared for by water from the canal, transported through existing rivers or ditch systems. The Kennett dam will probably cost about \$80,000,000 and the Friant dam \$15,000,000.

LAKESIDE, San Diego Co., Cal.—Lakeside Farms Mutual Water Co., Lakeside, Calif. (J. F. Toms, vice-president) has applied to the Federal Emergency Administration of Public Works for N.R.A. funds in the sum of \$30,000 for improvements to the company's water system. Plans, prepared by Allen & Rowe, consulting engineers, provide for:

18,600 ft. concrete pipe lines,	
6-8- and 10-in.....	\$19,700
Reservoir	4,500
Modernizing pumping equip.....	500
Engineering	1,500
Gate valves	300

SAN FRANCISCO—American Tractor Equipment Co., 5301 Horton St., Oakland and Davis Mfg. Co., Davis, at \$278.50 submitted identical bids to

U. S. Forest Service to furnish one hydraulic pump complete with valve and fittings with control level, adapter, drive shaft and parts necessary for attaching to 30 Cletrac, capacity 20 GPM at 650 RPM. American Tractor Equipment Co. also submitted a bid at \$328.50 for double connected pump.

TORRANCE, Los Angeles Co., Cal.—City council has filed with the Federal Public Works Administrator the city's application for \$375,000 of N. R. A. funds to provide for a municipal water system. Complete details of the proposed system were printed in the issue of July 28. F. R. Leonard, city engineer, Salisbury, Bradshaw & Taylor, consulting engineers.

VICTORVILLE, San Bernardino Co. Cal.—The directors of the Victorville County Water District, have made application for NRA funds in the sum of \$50,000 to finance the construction of a domestic water system for Victorville. In accordance with preliminary plans prepared by Charles L. Foulke, consulting engineer, 455 4th St., San Bernardino. A bond issue of \$50,000 was voted recently. The proposed project is outlined as follows: Drilling of two 18-in. wells.

Installation of deep well pumps, capacity 100,000 gals. per day, and sand filters.

Construction of a 150,000-gal. reinf. conc. reservoir or steel water tank, 37,000 lin. ft. of 4- to 6-in. cast iron water pipe.

W. G. Roberts, Victorville, is president of the district.

OAKLAND, Cal.—American Smelting & Refining Co., 201 First St., San Francisco, at \$2250 submitted low bid to East Bay Municipal Utility District, Oakland, to furnish 30 tons copper sulphate. Only other bid submitted by Mountain Copper Company, San Francisco, at \$2280. Bids held under advisement.

LOS ANGELES, Cal.—Marko Matick, 1269 Colorado Blvd., awarded contract by county supervisors Aug. 7, at \$16,700 (proposition A), for constructing a water system involving 4-in., 6-in., 8-in. and 10-in. cast iron pipe in the Pomona fair grounds. The proposed line will hook up the city of Pomona main water line and to the present well supplying the fair grounds.

LOS ANGELES, Cal.—Until 11 A. M., August 18, bids will be received by A. J. Holm, City Purchasing Agent, 107 City Hall, to furnish and deliver to Water & Power Dept., f.o.b. warehouse at 410 Ducommun St., five hand operated sluice gate lifting gears, including threaded stem stubs, under Specifications No. 3189.

SAN FRANCISCO.—Gilmore Steel & Supply Co., 825 Folsom St., at \$1753.35 awarded contract by U. S. Forest Service to furnish 12,600 ft. 1 1/4-in. galv. iron pipe and fittings.

34—PARKS AND PLAY-GROUNDS

SEATTLE, Wash.—Until Aug. 16, 10 A. M., bids will be received by Allen Erickson, Chief Clerk, Board of Park Commissioners, Seattle, for chain link fence at the Cleveland Playground. Plans and specifications available at the Park Department Office upon deposit of \$5.00.

35—TUNNELS

SANTA MONICA, Los Angeles Co., Cal.—John A. Morton, Commissioner of Public Works, has announced that

arrangements are being made to drive a tunnel into the face of the bluff in Palisades Park at the foot of California Ave. in order to protect the park against seepage which is undermining the bluff. Nelson Marr will be in charge of the exploration work.

OAKLAND, Cal.—Joint Highway District No. 13, Wallace B. Boggs, Engineer, (Contra Costa and Alameda Counties) will seek \$3,752,035 through the NRA for construction of the Broadway Tunnel.

Plans call for a double bore, each 3168 ft. long; tunnel and approaches to be 2.08 mi. long; project to involve approximately:

- 82,000 cu. yds. concrete;
- 123,000 bbls. cement;
- 160,000 tons rock and sand.
- 4,870,000 lbs. reinf. steel.
- 1,344,000 lbs. struc. steel.
- 1,100,000 cu. yds. earth excav.

29—STREETS AND HIGHWAYS

MADERA COUNTY, Calif.—Stewart & Nuss, 410 Thorne Ave., Fresno, at \$12,811.86 awarded contract by State Highway Commission to apply bituminous surface treatment to existing pavement and shoulders in three sections as follows: Between 2.9 miles and 2 miles south of Madera, 0.9 mile; between 2 miles south of Madera and Madera; between Madera and northern boundary, 18.2 miles.

MARTINEZ, Contra Costa Co., Cal.—County plans road building program including: Tenth St. extension, Richmond, to join with State Highway at Tank Farm Hill;

Widen and repave Stockton St., San Pablo.

Pave gap in the Marsh Creek Highway, 6.5 miles, from Stonehouse to Brentwood.

Repave 6 miles of Concord-Clayton Highway.

LOS ANGELES, Cal.—J. J. Jessup, City Engineer, has completed plans for improving 118th St., from Broadway to Athens Way, under the 1911 act, involving:

- Lump sum grading;
- 10511 sq. ft. 6-in. conc. paving;
- 1362 sq. ft. 4-in. asph. conc. wear surface;
- 1172 sq. ft. oiled roadway; curb; sidewalk;

Water mains, fire hydrants and appurtenances; water service connections
REMOVALS—135 lin. ft. curb; 315 sq. ft. sidewalks. Estimated cost, \$3649.08.

LOS ANGELES, Cal.—Until 10 A. M., August 16, bids will be received by Board of Public Works for improving 51st St., between Main and Broadway, under Cash Contract, involving:

- (1) grading (960 cu. yds.);
- (2) 49,442 sq. ft. 6-in. concr. paving;
- (3) 75 sq. ft. asph. conc. wearing surf.
- (4) 600 sq. ft. rock and oil;
- (5) 94 ft. unplas. light curb;
- (6) 58 sq. ft. 3-in. concr. walk;
- (7) 113 sq. ft. 4-in. concr. walk (driveway);
- (8) 3 manholes to be reset (incl. furnishing frames and covers).

RIVERSIDE COUNTY, Cal.—C. W. Wood, P. O. Box 1435, Stockton, at \$31,200 submitted low bid to U. S. Bureau of Public Roads, San Francisco, to furnish and apply approximately 780,000 gals. liquid asphaltic road material on 33 miles of Sections A, B, and C, Route 70, Idyllwild-Desert National Forest Highway, San Bernardino National Forest. Complete bids follow:

- C. W. Wood, Stockton, \$.04; \$3,200.00
- Gilmore Oil Co., \$.0493; \$31,434.00.
- Pacific Tank Lines, Inc., Los Angeles, \$.0494; \$31,512.00.
- Fred R. Paulsen, Los Angeles, \$.0417; \$32,526.00.
- L. A. Brisbane, Arroyo Grande, \$.04192; \$32,682.00.
- Square Oil Co., Los Angeles, \$.044; \$31,320.00.
- Monarch Refineries, \$.04619; \$36,028.20.
- Richfield Oil Co., \$.01666; \$12,994.80.
- Engineer's estimate, \$.95; \$39,000.00.
- *Furnish oil only, f.o.b. refinery.
- Bids held under advisement.

ARIZONA STATE.—T. S. O'Connell, state highway engineer, has announced that Arizona municipalities will receive \$800,000 of the state's N. R. A. funds. The apportionments are:

- Wickenburg, \$191,000 (bridge).
- Flagstaff, \$125,000.
- Phoenix, \$73,000 (U. S. Highways 80 and 89).
- Tucson, \$60,000.
- Tempe, \$45,000.
- Globe, \$40,000.
- Chandler, \$30,000.
- Miami, \$30,000.
- Prescott, \$25,000.
- Mesa, \$25,000.
- Safford, \$20,000.
- Tombstone, \$20,000.
- Buckeye, \$18,000.
- Yuma, \$15,000.
- Jerome, \$10,000.
- Douglas, \$10,000.
- Pima, \$10,000.
- Thatcher, \$10,000.
- Bisbee, \$8000.
- Williams, \$5000.
- Winslow, \$5000.
- Benson, \$8000.

LOS ANGELES, Cal.—Until 10 A. M., August 16, bids will be received by Board of Public Works for Improving Exposition Blvd. from Vermont Ave. to Western Ave., under Cash Contract, involving:

- (1) grading (lump sum) 4488 cu. yds. excavation, no fill;
- (2) 154,051 sq. ft. Warrenite-Bitullithic pavement, 8-in.;
- (3) 3987 sq. ft. Warrenite-Bithullithic pavement wearing surface, average 1 1/2-in. thick;
- (4) 820 sq. ft. warrenite-Bithullithic pavement wearing surface average 1-in. thick;
- (5) 2395 sq. ft. rock and oil roadway;
- (6) 892 sq. ft. 8-in. concrete pave.;
- (7) 2857 lin. ft. unplastered light curb
- (9) 152 lin. ft. unplastered heavy curb
- (10) 1239 sq. ft. 3-in. concrete sidewalk;
- (11) 136 sq. ft. 6-in. concrete sidewalk (drive-ways);
- (12) 192 sq. ft. 4-in. concrete sidewalk (drive-ways);
- (13) 4945 sq. ft. 8-in. combination gutter;
- (14) 69 sq. ft. 6-in. concrete gutter;
- (15) storm drain and appurtenances complete, not including local depressions;
- (16) sanitary sewer complete, consisting of manhole frame and cover sets in place only, not including house connections;
- (17) 96 lin. ft. 6-in. vitrified clay pipe house connections sewers;
- (18) Ornamental lighting system complete;
- (19) 10 manholes to be reset.

LOS ANGELES, Cal.—The city engineering department has completed plans for improvements in the Carmelina Ave. and Helena St. Improvement District, under 1911 act, involving:

- 10,870 cu. yds. excavation;
- 14,688 lin. ft. curb;
- 30,394 sq. ft. gutter;
- 1,505 sq. ft. 5-in. concrete pave.;
- 261,740 sq. ft. 5-in. Warrenite Bitullithic pave.;
- storm drain.

TUOLUMNE COUNTY, Cal.—Until August 29, 2 P. M., bids will be received by C. H. Sweetser, District Engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco, for grading 6.237 miles of Section C, Route 38, the Sonora Pass National Forest Highway, Stanislaus National Forest, involving:

- (1) 48 acres clearing;
- (2) 275,000 cu. yds. unclass. excav.;
- (3) 1,100 cu. yds. unclass. excavation, structure;
- (4) 360,000 sta. yds. overhaul;
- (5) 6,237 miles finish earth graded rd.
- (6) 5,400 cu. yd. mi. haul backfill material;
- (7) 37 cu. yds. concrete;
- (8) 400 lbs. reinf. steel;
- (9) 3,162 lin. ft. corr. metal pipe;
- (10) 42 right of way monuments;
- (11) 11 spillway inlets;
- (12) 7,000 gals. liquid asph. road material.

Specifications obtainable from above office on deposit of \$10, certified check payable to Regional Fiscal Agent, U. S. Forest Service.

ALAMEDA COUNTY, Cal.—Tiffany Const. Co., 535 N 7th St., San Jose, at \$16,839 awarded contract by State Highway Commission, Sacramento, to apply bituminous surface treatment over 1.9 miles between Mission San Jose and Warm Springs.

LOS ANGELES COUNTY, Cal.—Gog & Rados, 10024 S. Figueroa St., Los Angeles, at \$15,751 awarded contract by State Highway Commission, Sacramento, to treat with asphaltic road oil 18.6 miles of roadbed and 2-in. earth shoulders between Neenach School and Del Sur Road; and between Wet Canyon and Colby Creek, 5.1 miles, roadbed to be treated with asphaltic road oil and bituminous seal coat applied.

LOS ANGELES COUNTY, Cal.—Von der Hellen & Pierson, Castiac, at \$56,717.60 awarded contract by the State Highway Commission, Sacramento, to excavate slopes between Paloma s Creek and Whittaker Bridge, 6.8 miles.

SAN DIEGO COUNTY, Cal.—Griffith Co., 502 Los Angeles Railway Bldg., Los Angeles, at \$70,986.20 awarded the contract by State Highway Commission, Sacramento, to grade and pave with Portland cement concrete on 1.8 miles between Broadway and Haras-ty Streets.

SAN DIEGO COUNTY, Cal.—Griffith Co., 502 Los Angeles Railway Bldg., Los Angeles, at \$92,782.20 awarded the contract by State Highway Commission, Sacramento, to pave with asphaltic concrete 4.4 miles, between Barnett Ave. and Balboa Ave.

SUSANVILLE, Lassen Co., Calif.—Until August 18, 2 P. M., bids will be received by the Lassen-Modoc Joint Highway District No. 14 at the offices of the District Engineer, County Surveyor's office, Susanville, for 2.89 mi. of excavation, grading, graveling and placing culvert pipes; also hauling and spreading gravel at intervals over about five miles of road now in use between Eagle Lake and Willow Creek Valley, about 35 miles north of Susanville. Specifications obtainable from above office. L. R. Cady, Secretary of the District.

SAN FRANCISCO.—Until Aug. 16, 2 P. M., bids will be received by Board of Directors of Joint Highway District No. 10, Room 375, City Hall, to construct Junipero Serra Blvd. Extension through Colma between School St. and the Edgemar road, 2¾ miles to be graded and paved with macadam and asphalt wearing surface, and involving construction of a reinforced

concrete bridge over the boulevard at Washington St., involving:

- (1) 80,000 cu. yds. excavation;
- (2) 250,000 sq. ft. 8-in. macadam base with 2½-in. asphalt wear. surf.;
- (3) 50,000 sq. ft. 8-in. do with 2-inch emulsified asph. wear. surface;
- (4) 600 cu. yds. reinf. conc. (struc.);
- (5) macadam and concrete walks and gutters;
- (6) pipe sewers;
- (7) manholes;
- (8) drop inlets;
- (9) fences.

Specifications obtainable from office of John J. Casey, District Engineer, Room 367, City Hall, on deposit of \$10. Certified check 10% required with bid. 29

EUREKA, Humboldt Co., Cal.—Capt. H. W. Rhodes, U. S. Lighthouse Service, plans survey for Petrolia-Point Gorda road on the southern Humboldt coast. 29

NEY COUNTY, Nevada.—Until Aug. 23, 2 P. M., bids will be received by S. C. Durkee, State Highway Engineer, Heroes Memorial Bldg., Carson City, to construct 20.21 mi. highway between 22 mi. and 2 mi. south of Beatty, Route 5, Sections E2, F & G1, involving:

- (1) 52,500 cu. yds. rdwy. excav.;
- (2) 27,011 sta. yds. overhaul;
- (3) 4348 cu. yds. select borrow;
- (4) 1590 cu. yds. struc. excav.;
- (5) 16.72 mi. subgrade 18-ft. wide;
- (6) 3.49 mi. subgrade 20 ft. wide;
- (7) 5 cu. yds. remove concrete foundation;
- (8) 49,200 cu. yds. cru. gravel or stone surf.;
- (9) 141 cu. yds. class B concrete;
- (10) 2690 lbs. reinf. steel;
- (11) 128 lin. ft. 18-in. corr. metal pipe;
- (12) 1342 lin. ft. 24-in. do;
- (13) 392 lin. ft. 30-in. do;
- (14) 804 lin. ft. 36-in. do;
- (15) 66 monuments;
- (16) 20.21 mi. finish roadway.

Specifications obtainable from above office on deposit of \$15. \$10 returnable. Certified check 5% required with bids.

WASHINGTON STATE.—Until Aug. 29, bids will be received by L. V. Morrow, State Director of Highways, for highway construction as follows:

King County: Pave 3.2 miles Sunset highway, State Road No. 2, from middle to lower crossing, south fork Snoqualmie river.

Kittitas County: Pave 9.1 miles from Lake Keechelus to Kachess river.

Lincoln County: Grade and surface 1.1 miles and surface 9.8 miles from Wilbur to Almira.

Grays Harbor County: Pave 2.9 miles Olympic highway, State Road No. 9, from Thurston county line to Oaksville.

Jefferson County: Grade 3.7 miles from Duckabush north.

Pacific County: Grade and surface .6 mile Willapa-Grays Harbor Highway, State Road No. 13, Raymond bridge approach.

Kittitas County: Grade 9.9 miles of North Central highway, State Road No. 7, from Ellensburg to highline canal.

Columbia County: Grade 0.5 mile Inland Empire highway, State Road No. 3, from Delaney and Jackson revisions.

Specifications obtainable from the above.)

LAS VEGAS, Nev.—J. P. King, Street Superintendent, has estimated the cost of paving Stewart St. and resurfacing all of the streets in the First Paving District at \$25,199.68. The proposed improvement calls for 1½-in. Bitumuls surfacing in the area bounded by Main and Fifth Streets

and Stewart and Bridger Streets, and 3-in. Bitumuls pavement on Stewart St., between Main and Fifth Sts., including preparation of subgrade. The work will be done by the street department. The project will be financed by N.R.A. funds on a 70-30 basis.

SAN FRANCISCO.—As previously reported, until August 16, 2 P. M., bids will be received by Board of Directors, Joint Highway District No. 10, Room 375, City Hall, to construct Junipero Serra Blvd. Extension through Colma between School St. and the Edgemar road, ¾-mi. to be grader and paved with macadam and asphalt wearing surface, and involving construction of a reinforced concrete bridge over the Boulevard at Washington St., involving:

- (1) 80,000 cu. yds. excav.;
- (2) 250,000 sq. ft. 8-in. macadam base and 2½-in. asph. wearing surf.;
- (3) 50,000 sq. ft. do, 2-in. wear. surf.;
- (4) 20,000 sq. ft. 4-in. do., 2-in. do.;
- (5) 15,000 sq. ft. resurf. 2-in. asph. wear. surface;
- (6) 6000 gtl. emulsified asph. (extra)
- (7) 30,000 sq. ft. macadam shoulders
- (8) 15,000 sq. ft. do, emul. asph. surf. tr.;
- (9) 24,000 sq. ft. macadam walk;
- (10) 3500 lin. ft. redwood curb;
- (11) 14,000 ft. 2x8-in. redwood headers
- (12) 6400 ft. 2x4-in. do;
- (13) 3400 ft. conc. gutter;
- (14) 1000 ft. emul. asph. gutter;
- (15) 1600 ft. unarmored conc. curb;
- (16) 3500 sq. ft. conc. walk;
- (17) 1600 ft. 10-in. V.C.P. culvert;
- (18) 2600 ft. 12-in. V.C.P. sewer;
- (19) 1000 ft. 18-in. do;
- (20) 910 ft. 21-in. do;
- (21) 250 ft. 18-in. metal storm sewer;
- (22) 1050 ft. 36-in. conc. do;
- (23) 20 brick manholes;
- (24) 2 conc. manholes, c. l. frames;
- (25) 40 conc. drop inlets, cast steel grating;
- (26) 600 cu. yds. class A Portland cement in structures;
- (27) 80,000 lbs. bar reinf. steel;
- (28) 250 lin. ft. conc. hand rail;
- (29) 1 wooden stairway;
- (30) 3500 sq. ft. 1½-in. asph. wearing surface;
- (31) 6200 lin. ft. wood fence;
- (32) 1600 ft. timber guard rail;
- (33) 10 conc. survey monuments;
- (34) 3500 ft. painted traffic line 6-in. wide;
- (35) 10,000 ft. do, 4-in. wide.

Specifications obtainable from office of John J. Casey, District Engineer, Room 367, City Hall, on deposit of \$10. Certified check 10% required with bid. Estimated cost, \$100,000.

ARIZONA STATE.—Arizona Sand & Rock Co., Box 1522, Phoenix, awarded contract by State Highway Commission, Phoenix, at \$43,761.90 for construction on the Holbrook-St. Johns Highway (E-78-B and E-78-F). The work on E-78-B and E-78-F, which extends from the end of the pavement in Holbrook to a point about 5.9 miles east of Holbrook, consists of the placing of subgrade stabilizer and oil processing by the plant mix method and is to be completed on or before Oct. 15, 1933.

ARIZONA STATE.—Packard & Tanner, 905 W Latham Street, Phoenix, awarded contract by State Highway Commission, Phoenix, at \$121,698.75 for highway construction on the Holbrook-Winslow Highway (E-40). The work on E-40, which extends from the west city limits of Holbrook westerly about 21.2 miles, consists of the construction of one concrete and two C.M.P. culverts, the placing of subgrade stabilizer and oil processing by the plant mix method, and is to be completed on or before Nov. 30, 1933.

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

INDIAN ROCK AVE. STORM SEWER—BERKELEY

BERKELEY, Cal.—Oakland Sewer Construction Co., 9915 Walnut St., Oakland, at \$2790 awarded contract by city council to construct storm sewer in Indian Rock Ave., involving:

- (1) 1060 lin. ft. 15-in. vit. sewer pipe;
- (2) 310 lin. ft. 10-in. do;
- (3) 10 lin. ft. 8-in. do;
- (4) 7 catchbasins;
- (5) 2 curb inlets;
- (6) 3 manholes.

Complete bids follow:
 (A) Oakland Sewer Constr. Co., Oakland, \$2790.
 (B) W. J. Tobin, Oakland, \$2801.50.
 (C) Lee J. Immel, Berkeley, \$2806.
 (D) R. B. McNair, Oakland, \$2836.
 (E) McGuire & Hester, Oakland, \$3300.
 (F) Schnoor Bros., Oakland, \$3513.
 (G) L. L. Page, Richmond, \$5005.

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
(1).....	\$ 1.60	\$ 1.65	\$ 1.75	\$ 1.60	\$ 2.00	\$ 2.45	\$ 3.10
(2).....	1.15	1.25	1.10	1.50	1.43	1.25	2.60
(3).....	.75	1.00	1.00	1.00	1.17	.75	2.30
(4).....	75.00	65.00	50.00	65.00	70.00	48.00	75.00
(5).....	20.00	25.00	50.00	30.00	35.00	10.00	55.00
(6).....	55.00	50.00	50.00	50.00	55.00	55.00	85.00

ARIZONA STATE—Heafey - Moore Co., 640 N. First Ave., Phoenix, submitted low bid to State Highway Commission, Phoenix, Aug. 1, at \$103,716.88 for highway construction on the St. Johns - Springerville Highway, E-60 and E-68-A. The work, which begins at a point about 1 1/2 miles south of St. Johns and extends southeasterly approximately 8 1/2 miles toward Springerville, consists of grading and draining about 1/2 of a mile of roadway, the placing of subgrade stabilizer, and the oil processing of the entire length by the road mix method, and is to be completed on or before December 31, 1933. T. S. O'Connell, State Highway Engineer. The items are:

FEDERAL AID PROJECT NO. E-60

- (1) 21,871 cu. yds. roadway excav., unclass;
- (2) 40 cu. yds. structural excav., unclass;
- (3) 521 cu. yds. drainage excav., unclass;
- (4) 41 cu. yds. borrow excav., unclass;
- (5) 20,074 sta. yds. earthw'k overhaul
- (6) 300 hrs. rolling (excepting oil cake, seal coat and shoulders);
- (7) 7 cu. yds. class B concrete, incl. cement;
- (8) 10 lbs. reinf. steel (bars C.I.P.);
- (9) 44 lin. ft. 36-in. C.M.P. (C.I.P., including bands, excepting excavation);
- (10) 800 lin. ft. cable road guard (C.I.P.);
- (11) 50 M. gals. water applied to roadway (C.I.P.);
- (12) 522 cu. yds. subgrade stabilizer;
- (13) 3317 cu. yd. mi. subgrade stabilizer haul;
- (14) 199 cu. yds. mineral aggregate;
- (15) 54 cu. yds. mi. mineral aggregate, haul;
- (16) 3576 gals. asphaltic road oil (C.I.P. on road);
- (17) 0.174 mi. mixing, laying down and finishing;
- (18) 2 tons cutback asphalt cement for seal coat (C.I.P. on road);
- (19) 15 cu. yds. screenings for seal coat (C.I.P.);
- (20) 16 cu. yds. shoulder material;
- (21) 99 cu. yd. mi. shoulder material haul;
- (21a) 2000 cu. yds. stripping pits;

FEDERAL AID PROJECT NO. E-68-A

- (22) 7463 cu. yds. roadway excav., unclass;
- (23) 7 cu. yds. struc. excav., unclass;
- (24) 176 cu. yds. drainage excav., unclass;
- (25) 10 hrs. rolling (excepting oil cake, seal coat and shoulders);
- (26) 3 cu. yds. Class B concrete, incl. cement;

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
(27) 10 lbs. reinf. steel bars (C.I.P.);							
(28) 36 lin. ft. 24-in. C.M.P. (C.I.P.); including bands but excepting excavation);							
(29) 122 sq. yds. grading dips;							
(30) 25,648 cu. yds. subgrade stabilizer							
(31) 70,993 cu. yds. mi. subgrade stabilizer haul;							
(32) 239 M. gals. water applied to roadway (C.I.P.);							
(33) 9717 cu. yds. mineral aggregate;							
(34) 25,334 cu. yds. mi. mineral aggregate haul;							
(35) 174,906 gals. asphalt road oil (C.I.P. on road);							
(36) 8.501 mi. mixing, laying down and finishing;							
(37) 102 tons cutback asphalt cement for seal coat (C.I.P. on road);							
(38) 727 cu. yds. screenings for seal coat (C.I.P.);							
(39) 749 cu. yds. shoulder material;							
(40) 2080 cu. yds. mi. shoulder material haul;							
(41) 13,000 cu. yds. stripping pits;							

NON-FEDERAL AID WORK

- (42) 170 cu. yds. special mineral aggregate for stockpile (C.I.P.)

The total bids were:

(A) Heafey-Moore Co., \$103,716.88.
 (B) Phoenix-Tempe Stone Co., Phoenix, \$104,867.63.

The unit bids were:

	(A)	(B)
(1).....	\$.65	\$.65
(2).....	2.50	1.00
(3).....	.80	.70
(4).....	.80	.70
(5).....	.03	.02
(6).....	4.00	3.50
(7).....	40.00	30.00
(8).....	.20	.10
(9).....	6.50	6.00
(10).....	.90	1.00
(11).....	4.00	3.00
(12).....	.70	.65
(13).....	.13	.12
(14).....	.90	1.15
(15).....	.13	.12
(16).....	.125	.13
(17).....	600.00	650.00
(18).....	35.00	41.00
(19).....	5.00	4.50
(20).....	.80	.70
(21).....	.13	.12
(21a).....	.15	.20
(22).....	.65	.65
(23).....	2.50	1.00
(24).....	.80	.70
(25).....	4.00	3.50
(26).....	40.00	30.00
(27).....	.80	.10
(28).....	5.50	4.00
(29).....	.50	.20
(30).....	.70	.65
(31).....	.13	.12
(32).....	4.00	3.00
(33).....	.90	1.15
(34).....	.13	.12
(35).....	.125	.13

(36).....	600.00	650.00
(37).....	35.00	41.00
(38).....	5.00	4.50
(39).....	.80	.70
(40).....	.13	.12
(41).....	.15	.20
(42).....	3.00	3.00

SAN FRANCISCO—A. O. Field, 24th Ave. and Noriega, at \$31,972 submitted low bid to T. A. Brooks, City Purchasing Agent, under Bid No. 1054 to furnish:

- (1) 10,000 tons grout sand for Hetch Hetchy, at Thomas Camp;
- (2) 1000 tons do, at Mitchell Camp;
- (3) 6000 tons do, at Valle Camp.

Complete bids follow:

(A) A. O. Field.....\$31,972
 (B) Kaiser Paving Co. (for all) 34,260
 Alternate 35,960
 (C) Oak Point Sand 38,900
 (D) Antioch Sand 39,620

Unit bids follow:

	(1)	(2)	(3)
(A).....	\$19,700	\$2,270	\$10,002
(B).....	20,600	2,260	11,400
(Alt.).....	21,000	2,360	12,600
(C).....	22,000	2,500	14,400
(D).....	21,600	2,660	15,360

ALAMEDA COUNTY, Cal.—Tiffany Constr. Co., 535 N. Seventh St., San Jose, at \$16,839 submitted low bid Aug. 2 to State Highway Commission, Sacramento, to apply bituminous surface treatment over 1.9 mi. between Mission San Jose and Warm Springs, involving:

- (1) 4300 cu. yds. selected material;
- (2) 1309 tons broken stone (bit. mac. base);
- (3) 2100 tons screenings (bit. surf. treat);
- 4) 280 tons emul. asph., base and surf. treat;
- (5) 101 sta. finish roadway.

Complete bids follow:

(A) Tiffany Constr. Co., San Jose, \$16,839.
 (B) Granite Con. Co., Watsonville, \$17,396.
 (C) Heafey-Moore Co., Oakland, \$17,795.
 (D) Pacific Truck Service, Inc., San Jose, \$19,068.60.

Unit bids follow:

	(A)	(B)	(C)	(D)
(1).....	\$.75	\$.80	\$.78	\$.92
(2).....	2.17	2.50	2.00	2.60
(3).....	2.19	2.25	2.15	2.60
(4).....	21.40	21.00	24.00	-9.80
(5).....	2.00	1.00	6.00	5.00

SAN FRANCISCO—Following bids received by U. S. Forest Service to furnish:

- (1) 1050 ft. 3/4x6/19 plow steel wire rope;
- (2) 2150 ft. 3/4x6/19 do;
- (3) 2 choker assemblies;
- (4) 6 cables 150 ft. long.

Bidders follow:

(A) Frank E. Barnes.
 (B) Associated Equipment Dealers.
 (C) Baker-Hamilton-Pacific Co.
 (D) John A. Roebings Sons Co.
 (E) Hazard Wire Rope.
 (F) Columbia Steel Co.

Unit bids follow:

	(1)	(2)	(3)	(4)
(A).....	\$150.15	\$141.90	\$44.80	\$207.90
(B).....	150.15	141.60	—	193.26
(C).....	150.15	141.90	53.80	207.60
(D).....	157.50	150.50	68.00	221.88
(E).....	150.15	141.90	56.80	107.60
(F).....	157.50	150.50	—	—

Bids held under advisement.

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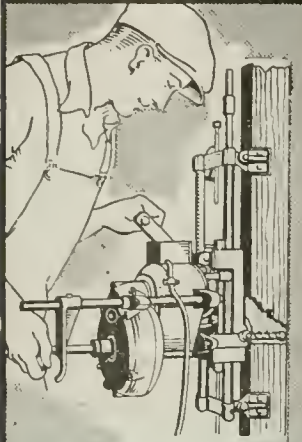
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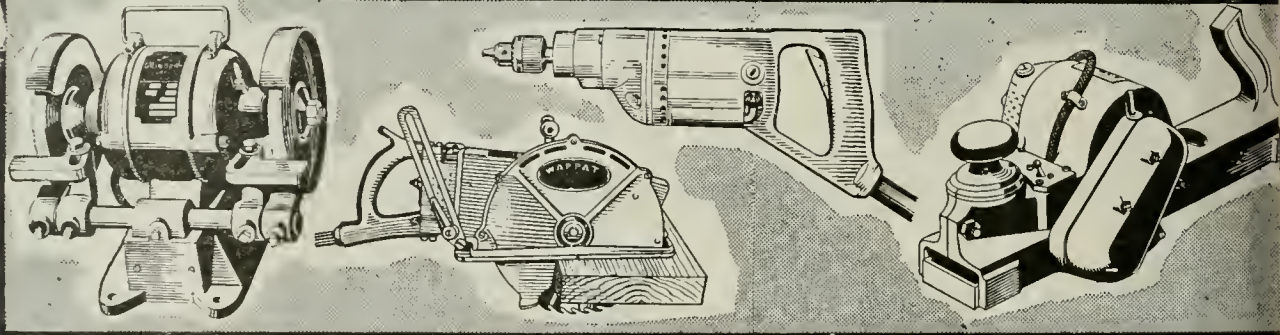
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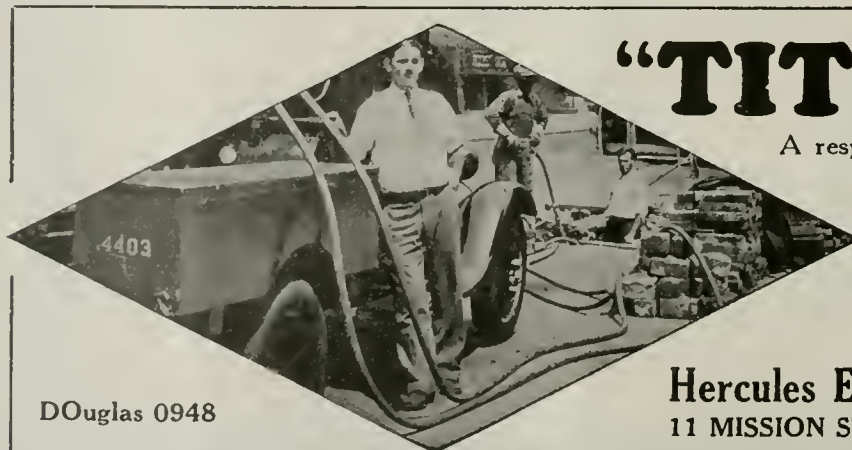
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No. 31

FOREST SERVICE HAS \$8,500,000 FOR ROAD WORK

**Improvements Planned In
California and Nevada
Areas, Says Show**

To aid the nationwide program for industrial recovery and the re-employment of men, U. S. Forest Service funds to the amount of \$8,500,000 will be expended during the next two years in the construction and maintenance of forest highways, secondary roads and trails, fire prevention and administrative improvements in the 18 national forests of California and southwestern Nevada, according to statement by S. B. Show, Federal regional forester at the San Francisco headquarters of the Forest Service. This amount of money will be used to purchase the machinery and equipment needed for the work and it is estimated will also provide for 1½ million man-days of labor, or the employment of 10,000 men at a substantial wage for a period of 150 days each. All positions, other than that of common laborer, will be under Civil Service, and work will be on the basis of a 30-hour

The appropriations received by the Forest Service under the National Industrial Recovery Act for expenditure within the national forests of the California Region are divided into three classes as follows: \$2,978,000 for national forest roads and trails required for the administration, protection, utilization and development of the national forests; \$2,660,000 for national forest highways which form a part of the United States and Federal-aid systems and are of great importance both to the traffic on these systems and in making the national forests accessible; \$2,871,000 for national forest protection and administrative improvements, and special forestry projects.

MASTER PAINTERS FIX 35-HOUR WEEK

The Master Painters' Association of San Francisco, in endorsement of the President's re-employment campaign, has fixed 35 hours as the maximum working week effective September 18, it was announced yesterday by Frank La Torres, secretary.

THE WEEK'S NEWS Highlights

STATE CODE. Directors of the California State Builders' Exchange have filed a proposed state construction code with Commissioner of Corporations Edwin M. Danagherly under provisions of the California Recovery Act. The code proposes a 40-hour week; wages set by local boards of arbitration; recognition of collective bargaining rights and also open shop operation; licensed architect or engineer supervision of all contracts exceeding \$2500; filing of duplicate copies or sub-bids submitted to any general contractor with local Builders' Exchange; minimum allowance of five percent overhead and ten percent profit in any estimate. (Complete Text of Proposed Code on Pages 4 and 5.)

PWA ENGINEERS. Frank E. Trask, Los Angeles, was named California state engineer for the Public Works Administration. Other western state appointments include: Howard S. Reed, Phoenix, for Arizona and New Mexico; R. A. Hart, Salt Lake City, for Nevada and Utah; Claude C. Hockley, Portland, for Oregon; Gene Hoffman, Olympia, for Washington.

FEDERAL BUILDINGS. San Francisco is assured funds for the new Federal building at the civic center, under a new list of PWA approved federal projects. The announced appropriation is \$2,689,089. Other appropriations for western building are Santa Cruz post office, \$99,000; Los Angeles quarantine station, \$63,000; Logan, Utah, post office, \$45,000.

CALIFORNIA HIGHWAYS. New highway construction in California calls for an estimated expenditure of \$34,352,438 in the 1933-35 biennium, according to the final budget adopted by the highway commission and made public this week. In addition the state will spend \$25,000,000 for maintenance.

MOVE DIVISION HIGHWAY STAFFS IN SEPTEMBER

**Kelly Issues Order Shifting
Two Headquarters Offices
from Capital**

Earl Lee Kelly, state director of public works, today officially announced that the highway offices of District No. 3, will be moved to Marysville, and of District No. 10 to Stockton. Both these offices are now located in Sacramento.

The transfer of the divisional headquarters will be accomplished by October 1. Engineering staffs will begin moving during the month of September. By this change Sacramento will lose approximately 60 families and state offices which have been here since the organization of the state division of highways.

The director of public works declared the changes in the location of the district offices have been made advisable from an engineering and economic point of view by the addition to the state highway system of 6,800 miles of county roads.

"In order to balance up the highway districts in mileage and work," Kelly said, "the engineering department has adopted a readjustment of the highway districts to promote efficiency and public service. This readjustment has made Marysville the center of District No. 3 and Stockton more nearly central in District No. 10 than is Sacramento. We believe that District No. 10 can better be served by having the district offices located in Stockton rather than in Sacramento or Modesto."

DISCHARGE AGITATORS AT BOULDER PROJECT

Eighteen men were reported discharged yesterday from the Boulder dam project as a result of agitation among workers for the Six Companies, Inc.

The men discharged were distributing propaganda in an effort to create labor trouble, according to Frank Crowe, general superintendent.

Text of Proposed Construction Code Filed by State Builders' Exchange

Following is the text of the proposed code of fair practice for the building and construction industry of the state of California approved by the California State Builders' Exchange and filed with Commissioner of Corporations Edwin M. Daugherty under provisions of the California Recovery Act:

1. Definitions.

The term "Building and Construction Industry" for the State of California as used herein is defined to mean all those engaged in public or private building construction work of every nature and kind throughout the State of California, and includes licensed general contractors, licensed sub-contractors, manufacturers and materialmen of all kinds.

The term "Employees" as used herein shall include all persons employed in the conduct of such operations of every craft.

2. On and after the effective date the minimum wage that shall be paid by employers in the building and construction industry shall be not less than forty cents per hour.

3. On and after the effective date employers shall not operate on a schedule in excess of forty hours per week from Monday at 8:00 a. m. to Friday at 5 p. m. inclusive for each week.

4. On and after the effective date employers in the building and construction industry shall not employ any minors under the age of sixteen years.

5. In any locality throughout the State of California where an Arbitration Board or a Wage Board has settled the wage question; this shall be the governing wage to be paid by employers in that locality. In all other cases the hourly wage paid in the locality shall be the actual prevailing hourly wages paid by employers to employees in the several crafts.

6. To further effectuate the policies of the Act, the building and construction industry shall set up a committee to be composed of a representative selected by the Board of Directors of each Builders' Exchange throughout the State, who shall co-operate with the Chief of the Division of Corporations in regard to any question which may come up under this Code, or any amendments which may be proposed thereto.

7. Employers in the building and construction industry agree:

(a) That employees shall have the right to organize and bargain collectively through representatives of their own choosing, and shall be free from the interference, restraint, or coercion of employers of labor, or their agents, in the designation of such representatives or in self-organization or in other concerted activities for the purpose of collective bargaining or other mutual aid or protection.

(b) That no employee and no one seeking employment shall be required as a condition of employment to join any company union or to refrain from joining, organizing, or assisting

a labor organization of his own choosing; and

(c) That employers shall comply with the maximum hours of labor, minimum rates of pay, and other conditions of employment, provided for in said State Code of fair competition, approved by the Chief.

(d) It is clearly understood that the foregoing paragraphs do not impair in any particular the constitutional rights of the employe and employer to bargain individually or collectively as may be mutually satisfactory to them; nor does it impair the joint right of employer and employe to operate an open shop.

(e) Nothing in this code is to prevent the selection, retention and advancement of employes on the basis of their individual merit without regard to their affiliation or non-affiliation with any labor organization.

8. That office employes shall be included within the benefits of this code.

9. To effect fair competition among licensed general contractors, licensed sub-contractors, manufacturers and material men of all kinds as named under this code for the building and construction industry of the State of California, no member of this industry shall knowingly participate in any construction project not performed in accordance with the following rules:

(a) In order that all structures may be adequately and safely designed and supervised, no construction project in excess of \$2500.00 except alterations not involving structural changes, shall be undertaken without plans and specifications prepared by a licensed architect or licensed engineer.

(b) When the owner decides to build, construct, or remodel he shall first decide whether he is going to let a general contract, segregated contract, guaranteed cost contract, or percentage contract.

(c) If the decision is to let a general contract, the owner shall call into competition only such licensed general contractors any one of whom he is willing to award the contract to if low bidder, requiring him to file with his bid a list of the licensed sub-contractors whose figures he has used. Then award the contract to the low bidder. All licensed sub-contractors furnishing figures to licensed general contractors shall file sealed notices with the nearest Builders' Exchange giving the names of the licensed general contractors to whom they have furnished figures, the amount of the figures, and state on what jobs the figures are to be used; and the Builders' Exchange will then see to it that the licensed general contractor, who is the successful bidder, let his sub-contracts to those licensed sub-contractors whose figures he has used in his bid, and at the amount of their

bid. Such sealed notices only to be opened in case of dispute.

(d) If it is decided to let the job by segregated contracts, the owner shall only call in as bidders licensed sub-contractors to whom he is willing to award the job if low, and then award the segregated contracts to the low bidder in each department.

(e) If the owner decides upon the guaranteed cost or percentage plan he shall insist that the guaranteed cost or percentage plan contractor when taking bids in the different departments, only take bids from licensed sub-contractors to whom he is willing to award the job if low, and then award the job to the low bidder. All licensed sub-contractors furnishing figures to guarantee cost or percentage plan contractors shall file sealed notices with the nearest Builders' Exchange giving the names of the guaranteed cost or percentage plan contractors to whom they have furnished figures, the amount of the figures and state on what jobs such figures are to be used; and the Builders' Exchange will then see to it that the guaranteed cost or percentage plan contractor, who is the successful bidder let his sub-contracts to those licensed sub-contractors whose figures he has used in his bid. Such sealed notices only to be opened in case of dispute.

(f) In case the licensed general contractor, the percentage plan or guaranteed cost contractor figures or estimates the job himself as a whole or in any department when taking it from the owner, the owner shall insist that if the licensed general contractor, the percentage plan or guaranteed cost contractor thereafter decides to let contracts for the actual doing of the work, and provided that he took no bids prior to the receipt of the contract, that he takes bids from reputable licensed sub-contractors and award the work to the lowest bidder in each department. Licensed sub-contractors in such case shall also protect themselves by filing sealed notices of their bids with the nearest Builders' Exchange, giving the names of their licensed general contractors to whom they have furnished figures, the amount of the figures, and state on what jobs such figures are to be used, and the Builders' Exchange will then see to it that the successful licensed general contractor or the successful percentage plan or guaranteed cost contractor awards the work to the lowest bidder in each department. Such sealed notices only to be opened in case of dispute.

(g) All bids for buildings, construction or alteration work shall be opened at a set time and place in the presence of bidders.

(h) It shall be considered unfair competition for any licensed general contractor to supply owners, licensed architects, or licensed engineers with unsolicited bids. It shall be considered unfair competition for any licensed subcontractor and manufacturer to furnish owners, any licensed general contractors licensed architects or licensed engineers with unsolicited bids.

(i) The owners of all projects shall be fully prepared to make payments therefore as hereinafter prescribed, and shall fully disclose the details of

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such preparation upon the demand of any prospective participant.

(J) Payments by the owners or the licensed general contractor to all licensed contractors shall be made not later than the tenth of each calendar month during performance on account of the proportionate value of performance during the calendar month immediately preceding. Payment shall also be made on account not later than five days after completion. Payment in full shall be made not later than thirty-five days after completion, provided that a reasonable amount may be retained to cover any statutory mechanics' liens or stop notices filed. In the event the statutory mechanics' lien bond accompanies the contract, the monthly payments and the completion payment shall be not less than ninety percent of such proportionate values performed.

10. All licensed general contractors, percentage plan or guaranteed cost contractors, and licensed subcontractors operating throughout the State of California shall abide by all local conditions generally accepted in the trade in whatever locality they may figure to do the work.

11. No licensed general contractor, percentage plan or guaranteed cost contractor, or licensed subcontractor in figuring a job for any kind of building or construction or repair work shall make a bid or figure to do the work less than his entire cost, plus not less than five percent for overhead and ten percent net for profit.

12. Any licensed general contractor, percentage plan or guaranteed cost contractor, or licensed subcontractor who works himself must add to his bid or contract the actual value of his time to his bid or contract the same as if he was employing a laborer or mechanic to do the work.

13. On all building and construction and alteration work, the material man shall sell to the trade only. The trade only being licensed general contractors, percentage plan or guaranteed cost contractors, or licensed subcontractors.

14. All material men and manufacturers in every locality in the State of California shall quote to each and every buyer of building materials whether licensed general contractor, percentage plan or guaranteed cost contractor, or licensed subcontractor the same prices, terms and conditions adopted by the majority of the material men in each locality. Such schedule of prices may however, be required to be approved by the Chief of the Division of Corporations if it seems that such schedule is excessive or monopolistic.

15. Every owner, licensed contractor, percentage plan or guaranteed

cost contractor, licensed subcontractor, manufacturer and material man shall be governed by the building, safety and sanitary codes of the locality or city in which he is working; and providing no such building ordinances, safety ordinances and sanitary codes are in effect, then he shall be governed by the Uniform Building Code adopted for the State of California.

16. No licensed general contractor, percentage plan or guaranteed cost contractor, licensed sub-contractor, manufacturer, or material man shall falsely or maliciously injure the reputation or business or another in any way, shape or form.

17. No material man or manufacturer shall offer any inducement, presents, undue entertainment or extra credits or rebates to any owner, licensed contractor, percentage plan or guaranteed cost contractor or licensed subcontractor in order to secure his business.

18. It shall be considered unfair competition for any manufacturer or material man to not strictly adhere to the terms of credit adopted in the several localities in their line of business and shall under no circumstances offer to give, or give, any extended credit to any purchaser, owner, licensed general contractor, percentage plan or guaranteed cost contractor, or licensed subcontractor over and above their regular terms.

19. No manufacturer or material man shall give a lump sum bid on any bill of materials for any building or construction project. He will quote each material separately on a unit basis.

20. The term licensed general contractor, percentage plan or guaranteed cost contractor and licensed subcontractor, shall only apply to those who give figures to supply both labor and materials in their several lines, and no owner, licensed architect, or licensed engineer, or licensed general contractor, percentage plan or guaranteed cost contractor, or licensed subcontractor including so-called home builders, shall award so-called labor contracts in any department of the building and construction industry.

21. In large cities there are now what are called Home or Speculative Builders. Hereafter they shall be classed as general contractors, and shall be required to live up to all rules and regulations adopted for licensed general contractors.

22. Any violation of the provisions of this code shall be cause for revocation or suspension of State license, in addition to other penalties prescribed by law.

SAN JOAQUIN CONTRACTORS APPROVE CODE

Eight-Hour Day and Five-Day Week Provided in Competitive Agreement

A code of fair competition providing an eight-hour day and a 40-hour week was adopted by the General Contractors Association of San Joaquin county at a special meeting held in Stockton.

L. S. Peletz was elected president of the organization, John Cavanaugh, secretary; and O. H. Chain treasurer. The executive committee elected consists of Peletz, Cavanaugh, Chain, John Hachman and H. P. Green. The executive committee will act as a board of review in cases of reported violation of any provisions of the code.

A secret vote was taken on the wage scale for the various crafts allied with the building industry. The code will not be made public until it is submitted to the craft organizations for discussion and approval. President Peletz stated that all crafts would receive at least as much money as at the present time, even with the cut in hours.

The code contains rules against rebating, substitution of inferior materials, or evasions of any provisions of plans for a contract. All sub-contractors will be paid in proportion to the amount received by the general contractor as the work progresses.

The association voted to adopt a uniform estimation sheet for use of all members of the association. Members are forbidden to submit bids on projects after the date announced for opening bids, or take part in "bid peddling." General contractors from Lodi and Tracy promised to aid in securing other members in other towns of the county.

No date was set for the next meeting of the organization, as word on the code will be awaited from the State Building Trades Council, to whom the code will be submitted at once for inclusion in the state code. Meetings will be held monthly after the code is in operation, President Peletz said. The meeting was held in the council chamber at the city hall.

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For Preliminary Drilling
On Site**

Construction is to start early next year on the Grand Coulee dam project in Washington for which \$63,000,000 has been authorized in the Federal public works program to be spent by the Reclamation Bureau.

Bureau engineers are drawing specifications on which contracts will be advertised shortly for drill explorations and test pit excavation.

Preliminary engineering is financed by the state of Washington through the Columbia Basin State Commission, Chamber of Commerce Building, Spokane. James O'Sullivan is secretary.

Frank E. Banks has been assigned by the chief of the Reclamation Bureau to be project engineer. A tentative site for field headquarters has been selected at Almira, 22 miles from the dam site.

The present plans for construction provide a "first stage" or low dam, 251 feet high. The low dam will create a lake in the Columbia river about 50 miles long, extending to a point about opposite Fruitland on the Columbia river.

A lake more than 100 miles long will be created when the dam is developed to its ultimate height of 450 feet.

Power development of the dam will consist in installation of eight generating units of 65,000 kilowatt capacity each. An ultimate power development of 1,575,000 kilowatts is contemplated.

Estimated costs and items of construction are as follows:

Diversion and care of river during construction and unwatering foundation, \$7,500,000.

Excavation, common, of foundation of dam and power house at tailrace 9,000,000 cu. yds., \$6,750,000.

Excavation, rock, for foundation of gravity dam and power house and for tail race, 250,000 cu. yds., \$206,250.

Rock for buttress footings and cut-off walls and foundations, 175,000 cu. yds., \$875,000.

Mass concrete in dam, 1,095,000 cu. yds., \$6,296,250.

Concrete in arches, 156,000 cu. yds., \$2,145,000.

Concrete in buttresses, 390,000 cu. yds., \$3,354,000.

Guniting concrete surfacing, \$105,300.

Concrete in spillway crest, \$645,250.

200,000 cu. yds. backfill, \$70,000; 22,000,000 lbs. reinf. bars, \$884,000; 686,000 lbs. standard steel and cast iron pipe, fittings, \$82,320.

High pressure hydraulically operated sluice gates and metal conduit linings, 8,186,000 lbs., \$1,023,250.

Right of way, \$1,000,000.

Railway, Coulee City to site and sidings, \$600,000. (This may be built by a private railroad company, without cost of the project.)

Camp, \$500,000.

Fish ladder and accessories, \$300,000.

Total cost estimate for dam, including 6 per cent for engineering, 1½ per cent for superintendence and accounts

STATE EXEMPTS U. S. PURCHASES FROM SALES TAX

New Ruling Will Relieve Contractors Figuring Public Works Construction

Exemption of materials, supplies and equipment sold to the Federal government or for use in Federal contracts from the state sales tax has been approved by the Board of Equalization. It was announced at the San Francisco office yesterday.

This will relieve bidders on Federal construction work as well as dealers selling to government agencies from the necessity of figuring the sales tax in their bids. Federal purchasing departments in the state have been requiring bidders to guarantee that the taxes on any sales to the government have been covered, but the status of sales in this class has been uncertain, prior to the present ruling.

The Board of Equalization is expected to issue a guide to interpretations of the law which may clarify other points in which contractors and dealers are involved.

Pending the publication of rulings, the administrative officials are being guided largely by the rulings of the New York State Tax Commission, some of which were published in DAILY PACIFIC BUILDER on August 1.

Following are two typical questions and answers quoted from the New York decisions:

Q. Frequently materials and supplies are sold to contractors for use by them in fulfilling contracts for erecting, improving or repairing buildings and real property of others. Are receipts from such sales taxable to the seller?

A. Such contracts are of two kinds:

(a) Those in which the contractor agrees to furnish materials, supplies and necessary services, and

(b) Those in which the contractor agrees to furnish the materials and supplies at a given price and to render services for an additional price.

When the contractor uses material in carrying out such lump sum contract he becomes the consumer and final buyer thereof, and the sale is taxable to his seller. Where the contract calls for the sale of materials and supplies to the owner at an agreed price the contractor becomes the retailer and the

and 2½ per cent for general expenses, \$40,097,331.

Power plant, eight units, including contingency fund of 7.5 per cent and overhead, 10 per cent, \$19,137,971.

Costs on two units of the plant are divided as follows:

Trash racks, gates, crane, riprap and railroad, \$1,706,390.

Control and power house buildings and switching structure, \$2,455,660.

Control room, power house and switching station equip., \$2,663,544.

Total for the first two units, including contingency and overhead, \$8,071,265.

sale to the owner is taxable to the contractor. If the principal business of the contractor is lump sum contracts, certificates of re-sale should not be given. If, however, the contracts specified under item (b) are the principal type of contracts accepted by the contractor, certificates of re-sale should be given.

Q. Should manufacturers engaged in selling ready mixed concrete to contractors and builders add the tax to the cost of the product when they sell same? Is the sales tax to be computed on the cost of the merchandise sold or upon the cost of such merchandise plus the tax which has been added thereto?

A. Receipts from the sale of mixed concrete are subject to the sales tax unless the seller secures a signed certificate from the purchaser stating that such merchandise is purchased for resale. The tax is computed upon total receipts. If the selling price of a product has been increased to include the tax, this is the amount upon which the tax is to be based. If the tax is billed as a separate item, the tax must be computed on the sale price of the concrete plus the tax.

DENY EXTENSION ON S. F. JAIL CONTRACT

On the recommendation of City Architect Charles Sawyer, the Department of Public Works yesterday denied an extension of time to F. W. Snook, contractor on the water supply system at the new County Jail at Sneath Ranch.

Snook asked the department for an extension of 20 days in which to complete his \$30,892 contract, scheduled to have been finished August 14.

The contract was signed May 15.



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RAY MAXWELL, Manager

**HOTEL
PLAZA**
POST STREET AT STOCKTON
SAN FRANCISCO

PERMITS AND CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
604	S F Warehouse	Clinton	1859
605	Staff	Staff	4000
606	Weissbein	Cohn	3250
607	Valssis	Mullen	1925
608	Lazzareschi	Owner	1000
609	Standard	Owner	3500
610	Whitney	Owner	3950
611	Whitney	Owner	4500
612	Lofgren	Broderick	2000
613	Jordan	Franzen	1500
614	Parducci	Sartorio	9000
615	Paquette	Owner	2500
616	Stow	Martin	1000

ALTERATIONS

(604) NE SPEAR AND FOLSOM. Alter warehouse.

Owner—S. F. Warehouse Co., Spear and Folsom Sts., San Francisco.

Architect—Not Given.

Contractor—Clinton-Stephenson Construction Co. \$1859

DWELLING

(605) E TWENTY-SIXTH AVE. 239 S Ocean Ave. One-story and basement frame dwelling.

Owner—P. Staff, 2366 33rd Ave., San Francisco.

Architect—Not Given.

Contractor—E. Staff, 2366 33rd Ave., San Francisco. \$4000

ALTERATIONS

(606) 2555 GREAT HIGHWAY. Alter restaurant.

Owner—Weissbein Bros., 682 Market St., San Francisco.

Architect—Not Given.

Contractor—T. Cohn, Russ Bldg., San Francisco. \$3250

ALTERATIONS

(607) NO. 920 MARKET ST. Alter restaurant.

Owner—A. Valssis, 920 Market St., San Francisco.

Architect—Not Given.

Contractor—Mullen Mfg. Co., 60 Rausch St., S. F. \$1925

GARAGE

(608) S HAYES St 78 W Divisadero; garage under dwelling.

Owner—B. Lazzareschi, 543 Divisadero

Architect—G. A. Berger, 309 Valencia Street. \$1000

DWELLING

(609) W ARDENWOOD 118 N Sloat; one-story and basement frame dwelling.

Owner—Standard Bldg. Co., 218 Castenada. \$3500

Architect—Not Given.

DWELLING

(610) S KIRKHAM 95 E 35th Ave.; one-story and basement frame dwelling.

Owner and Builder—Whitney Inv. Co., Ltd., 36th Ave. and Kirkham St.

Architect—Not Given. \$3950

DWELLING

(611) N LAWTON 95 E 35th Ave.; one-story and basement frame dwelling.

Owner and Builder—Whitney Inv. Co., Ltd., 36th Ave. and Kirkham St.

Architect—Not Given. \$4500

ALTERATIONS

(612) NO. 135 GOUGH ST. Alterations to rooming house and stores.

Owner—Mrs. Lofgren, 2572 24th St., San Francisco.

Architect—Not Given.

Contractor—T. J. Broderick, 1528 Cypress St., Burlingame. \$2000

ALTERATIONS

(613) NO. 2625 BAKER ST. Alter dwelling.

Owner—Mrs. M. W. Jordan, Premises

Architect—Not Given.

Contractor—Franzen & Parent, 145 Natoma St., San Francisco. \$1500

ALTERATIONS

(614) NO. 447-461 BROADWAY. Alter stores and hotel.

Owner—Parducci & Domenici, 505 Davis St., San Francisco.

Architect—Resing & McGuiness.

Contractor—P. Sartorio. \$9000

ALTERATIONS

(615) NO. 2886-88 FOLSOM STREET. Alter flats for apartments.

Owner—M. Paquette, 3230 24th St., San Francisco.

Architect—Not Given. \$2500

ALTERATIONS

(616) NO. 2648 PIERCE ST. Alter dwelling.

Owner—C. H. Stow.

Architect—Farr & Ward, 68 Post St., San Francisco.

Contractor—W. Martin, 666 Mission St., San Francisco. \$1000

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
343	Cook	Armstrong	8195
344	Matteson	Confer	4000
345	Edison	Owner	2500
346	Edison	Owner	2000
347	Coats	Owner	2000
348	Conklin	Owner	1370
349	Soltgkiewiz	Owner	1242
350	Porter	Cone	4000
352	Taylor	Owner	4000
350	Starr	Dwight	4000
351	El Dorado	Owner	38000
353	McDermot	Owner	15000
354	Leimert	Armstrong	6000

RESIDENCE

(343) NO. 334 WILDWOOD AVENUE, PIEDMONT. Seven-room residence and garage.

Owner—Low Cook, 35 Wildwood Ave., Piedmont.

Architect—Miller—Warnecke, Financial Center Bldg., Oakland.

Contractor—J. R. Armstrong, 1131 Fleet Road, Oakland. \$8195

DWELLING

(344) NO. 523 SANTA BARBARA St., BERKELEY. Two-story 6-room frame dwelling and garage.

Owner—Mrs. C. Matteson, 1031 Fresno St., Berkeley.

Architect—Not Given.

Shasta Road, Berkeley. \$4000

ALTERATIONS

(345) NO. 1305 WASHINGTON ST., OAKLAND. Alterations.

Owner—Edison Bros. Stores, Inc., St. Louis, Mo.

Architect—Not Given. \$2500

ALTERATIONS

(346) NO. 1205 WASHINGTON ST., OAKLAND. Alterations.

Owner—Edison Bros. Stores, Inc., St. Louis, Mo.

Architect—Not Given. \$2000

DWELLING

(347) NO. 2837 FOOTHILL BLVD., OAKLAND. One-story 4-room dwelling.

Owner—Philip L. Coats, 971 Hillcroft Circle, Oakland.

Architect—Not Given. \$2000

ADDITION

(348) 3353 WILSON AVENUE, OAKLAND; addition.

Owner and Contractor—L. R. Conklin, 3353 Wilson Ave., Oakland.

Architect—Not Given. \$1370

DWELLING

(349) 1558 38th AVE., OAKLAND; 1-story 3-room dwelling and 1-story garage.

Owner and Builder—Albin Soltgkiewiz, 144 12th St., Oakland.

Architect—Not Given. \$1242

ALTERATIONS

(350) NE COR. 13th and WASHINGTON STS., OAKLAND; alter store front.

Owner—Blanche B. Porter.

Architect—Edw. T. Foulkes, 357 12th St., Oakland.

Contractor—Wilbur C. Cone, 608 16th St., Oakland. \$4000

DWELLING

(350) 2445 ROOSEVELT DR., ALAMEDA; one-story 6-room dwelling (stucco finish).

Owner—E. Starr, 315 15th St., Oakland

Architect—F. H. Slocombe, Oakland.

Contractor—H. C. Dwight, 315 15th St. Oakland. \$4000

COPRA BIN

(351) FOOT OF ADELINE STREET, OAKLAND; 1-story concrete copra bin.

Owner and Builder—El Dorado Oil Works, 230 California Street, San Francisco.

Architect—Ellison & Russell, Pacific Bldg., San Francisco. \$38,000

DWELLING

(352) NO. 741 BEATIE ST., OAKLAND. One-story 6-room dwelling.

Owner—F. S. Taylor, P. O. Box 95, Fruitvale.

Architect—Not Given. \$4000

ADDITIONS

(353) SECOND & HARRISON STS., BERKELEY. Additions to packing plant.

Owner—J. Frank McDermot, Second and Harrison Sts., Berkeley.

Architect—Not Given. \$15,000

DWELLING

(354) NO. 1774 LEIMERT BLVD., OAKLAND. Two-story 7-room dwelling.

Owner—Walter Leimert.

Architect—Miller & Warnecke, Financial Center Bldg., Oakland.

Contractor—J. R. Armstrong, 1131 Fleet Road, Oakland. \$6000

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
47	Jackson	Lynn	497
48	Eliiv	Dawe	4339
130	Schneider	Prout	2814

ADDITION

(47) NO. 116 DARCENA AVE., Piedmont. All work for porch addition to dwelling.

Owner—Mrs. A. C. Nolting Jackson, Premises.

Architect—A. Reinhold Denke, 1429 roadway, Oakland.

Contractor—Willis F. Lynn, 1037 Ashmouth St., Oakland.
Filed Aug. 10, '33. Dated Aug. 9, '33.
Completed and accepted.....\$372
Usual 35 days..... 125
TOTAL COST, \$497
Bond, none. Limit, 30 days. Forfeit, none. Plans and specifications filed.

STORES

(48) 1 1/2 N LOTS 17 AND 20 BLK 1, Map of Graves & Taylor Tract, Berkeley. All work for two-story frame building (2) stores with living quarters over.
Owner—George Eliw.
Architect—Not Given.
Contractor—Leslie C. Dawe, Contra Costa County.
Filed Aug. 10, '33. Dated Aug. 1, '33.
Completion of wrecking present building\$100.00
2nd floor in place..... 848.00
Ready for plastering 848.00
Plastering completed 848.00
Completion of building..... 848.00
Usual 35 days..... 847.98
TOTAL COST, \$4339.98
Bond, \$4339.98. Surety, American Employers Ins. Co. Limit, 90 days. Forfeit, plans and specifications, none.

ALTERATIONS

(130) NO. 268 EUREKA ST. All work for alterations and additions to dwelling for flats.
Owner—P. F. and Annie Schneider, 268 Eureka St., San Francisco.
Architect—Mervyn Gunzendorfer, 405 Montgomery St., San Francisco.
Contractor—J. Prout, 515 Magellan St., San Francisco.
Filed Aug. 16, '33. Dated Aug. 9, '33.
Frame completed\$700
Brown coat plaster on..... 700
When completed 700
Usual 35 days..... 714
TOTAL COST, \$2814
Bond, \$2814. Surety, American Bonding Co. of Baltimore. Limit, 60 days. Forfeit, none. Plans and specifications filed.

ALAMEDA COUNTY

49 Acorn	Kruse	4248
50 Acorn	Nicholas	4100
51 Park	Armstrong	6198
52 Regents	Johnson	2433

PLUMBING

(49) 2101 HARRISON BLVD., Oakland; install new bath tubs and overhaul plumbing in apt. house.
Owner—Acorn Realty Co., Oakland.
Architect—Not Given.
Contractor—L. J. Kruse, 6247 College Ave., Oakland.
Filed Aug. 11, '33. Dated Aug. 9, '33.
1st day of each month.....75%
31 days after completion, bal. of 25%
TOTAL COST, \$4248
Forfeit, \$25 per day after 35 day limit. Limit, 35 days.

(50) PAPERING, painting and redecorating on above apt. house.
Contractor—J. S. Nicholas, 3201 Randolph Ave., Oakland.
Filed Aug. 11, '33. Dated Aug. 10, '33.
1st day of each month.....75%
31 days after completion, bal. of 25%
TOTAL COST, \$4100
Forfeit, \$25 per day after 35 day limit. Limit, 35 days.

DWELLING

(51) LOT 8 BLK 12, Oakmore Highlands, Oakland; two-story frame dwelling and garage.
Owner—Park Blvd. Co., Oakland.
Architect—Miller & Warnecke, Financial Center Bldg., Oakland.
Contractor—J. R. Armstrong, 1131 Fleet Road, Oakland.
Filed Aug. 12, '33. Dated Aug. 8, '33.
Frame completed\$1549.50

Brown coated 1549.50
Completed 1549.50
Usual 35 days..... 1549.50
TOTAL COST, \$6198.00
Bond, \$6198. Sureties, Fidelity & Casualty Co. Limit, 90 days. Plans and Spec. filed.

INCINERATOR

(52) UNIVERSITY OF CALIFORNIA Campus, Berkeley. All work for replacements of incinerator in Life Sciences Building.
Owner—Regents of the University of California, Berkeley.
Engineer—Thos. James, U. C. Campus, Berkeley.
Contractor—J. A. Johnson and N. M. Johnson (as J. N. J. Firebrick Constr. Co.), 475 Stevenson St., San Francisco.
Filed Aug. 16, '33. Dated Aug. 7, '33.
Completion of work..... 75%
Usual 35 days..... 25%
TOTAL COST, \$2433
Bonds (2) performance, \$1500; labor and materials, \$1500. Surety, Pacific Indemnity Co. Limit, 45 days. Forfeit, none. Plans and specifications filed.

SAN FRANCISCO UNDER \$1000

ALTER service station, \$300; SW Turk and Jones; owner, Standard Oil Co., 225 Bush St.
BILLBOARD, \$13; E Mission 137 S Guttenberg St.; owner, Foster & Kleiser, 1675 Eddy St.
SIGN, electric, \$200; 1701 Divisadero St.; owner, L. C. McKinstry, 1701 Divisadero St.; contractor, Elec. Products Corp., 255 Golden Gate.
BILLBOARD, \$7; E Mission 267 S Guttenberg St.; owner, Foster & Kleiser, 1675 Eddy St.
SIGN, electric, \$498; SE Eleventh and Market Sts.; owner, Texas Co., 11th and Market Sts.; contractor, Brumfield Elec. Co., 965 Folsom St.
ALTER restaurant, \$900; 170 Third St.; owner, J. Adams, 170 Third St.; contractor, M. M. Sezdock, 83 Bluxome St.
ALTER flats, \$100; 1011 Lake Street; owner, J. Puts, Premises; contractor, H. S. Meinberger, 343 4th St.
SIGN, electric, \$450; 1536 Great Highway; owner, Jo Mendel, Premises; contractor, QRS Neon Corp., 690 Potrero Ave.
SIGN, electric, \$200; 2577 Mission St.; owner, Universal Renewing Co., Premises; contractor, QRS Neon Corp., 690 Potrero Ave.
SIGN, electric, \$498; 800 Montgomery St.; owner, Villa Turin Cafe, 800 Montgomery; contractor, Brumfield Elec. Co., 965 Folsom St.
ALTER dwelling, \$500; 543 Divisadero St.; owner, B. Lazzareschi, Prem.; architect, G. A. Berger, 309 Valencia St.
ALTER dwelling, \$500; S Hayes St. 75 W Divisadero St.; owner, B. Lazzareschi, 543 Divisadero St.; architect, G. A. Berger, 309 Valencia St.
SIGN, electric, \$100; 19 Fell St.; owner, West Coast Paint Co, Prem.; contractor, Elec. Products Corp., 255 Golden Gate Ave.
SIGN, electric, \$50; 3486 20th St.; owner, C. H. McGee, 3486 20th St.; contractor, QRS Neon Corp., 690 Potrero Ave.
GREASING station, one-story Class A, \$600; SW Turk and Jones Sts.; owner, Standard Oil Co. of Calif., 225 Bush St.
ADD to dwelling, \$400; 438 2nd Ave.; owner, H. Paul, Premises.
SIGN, electric, \$300; 496 14th Street; owner, Temple Grill, Premises; contractor, Brumfield Electric Co., 965 Folsom St.
ALTER apartments, \$150; 320 Steiner St.; owner, M. B. Ryer, 596 Haight

ALTER flat, \$300; 75 Vandewater St.; owner, Mrs. L. Merlo, 77 Vandewater St.
FLUES (5) patent, \$75; N Henry St. 148 W Noe St.; owner, E. Curley, 132 Henry St.; contractor, F. Murphy, 3119 Harrison St.
ALTER garage, \$500; 545 Eddy St.; owner, T. W. Gilroy, 1420 Monterey Blvd.
ALTER dwelling, \$250; 2226 Divisadero St.; owner, S. Harper, Premises; contractor, M. H. Genecco Co., 36 Wood St.
ALTERATIONS, \$150; 2306 Lake St.; owner, Mrs. I. Hall, Premises.
REPAIR store front, \$350; 550 Broadway; owner, Mrs. J. Devincenzi, 1739 Mason St.
FLUES (4) patent, \$50; W Alemany 250 S Santa Rosa St.; owner, C. Lindsay, 4636 26th St.; contractor, F. Murphy, 3119 Harrison St.
ALTER dwelling, \$500; 152 Plaza Ave.; owner, D. Levine, Premises; contractor, M. J. King, 666 Mission.
ALTER store, \$350; 550 Broadway; owner, J. Devincenzi, 1739 Mason
ALTER beauty parlor, \$700; W Trinity St., bet. Sutter and Bush Sts.; owner, Regents of University of University of Calif., Berkeley; architect, W. B. Stephenson, Berkeley; contractor, Clinton - Stephenson Constr. Co., 550 Montgomery St.

ALAMEDA COUNTY UNDER \$1000

ALTERATIONS, \$142; 2646 Telegraph Ave., Berkeley; owner, Chas. Butters, Premises; contractor, Elliot & Elliot, 1429 66th Ave., Oakland
ALTERATIONS, \$100; 929 Oxtail St., Berkeley; owner, Raymond Roach, Premises; contractor, Geo. F. King 1541 Virginia St.
ALTERATIONS, \$150; 1066 Mariposa Ave., Berkeley; owner, Viola B. Fagan, 1066 Mariposa St.; contractor, Van Ness.
ALTERATIONS, \$400; 774 Vincent St. Berkeley; owner, W. E. Fletcher, premises; contractor, Mervin D. Rose, 6329 Shattuck Ave.
ALTERATIONS, \$150; 1782 Capistrano Ave., Berkeley; owner, A. E. Michelbacher, 804 Miramar Ave.; contractor, J. L. Larson, 800 Miramar Ave.
CHIMNEY (patent), \$39; 608 31st St., Oakland; owner, Mrs. Fowly, 608 31st St.; contractor, Eagle Sheet Metal Works, 14th Ave and E-12th St.
SIGN, electric, \$200; 1209 Washington St., Oakland; owner, Burts Shoe Co.; contractor, Novelty Electric Sign Co., 66 Washburn St., San Francisco.
ALTERATIONS, \$150; 758 Mandana Blvd., Oakland; owner, Mrs. E. Norland, Premises.
SIGN, electric, \$200; 1305 Washington St., Oakland; owner, Leeds Shoe Co.; contractor, Novelty Elec. Sign Co., 66 Washburn St., San Francisco.
ADDITION, \$250; 1342 64th Ave., Oakland; owner, Mrs. C. H. Beckwith, Premises.
ALTERATIONS, \$148; 3306 Adeline St., Berkeley; owner, J. C. Wierman, Santa Barbara Rd.; contractor, G. L. Tyler, 4039 Linwood Ave., Oakland.
ALTERATIONS, \$500; 1429 Le Roy Ave., Berkeley; owner, A. Kann, Premises; contractor, G. F. King, 1541 Virginia St.
GARAGE, private, \$150; 1921 Parker St., Berkeley; owner, G. Erickson, Premises.
ALTERATIONS, \$300; 1008 Chester St., Oakland; owner, Mattie Cassi, 1012 Chester St.
ALTERATIONS and addition, \$250; 979 55th St., Oakland; owner, John Sousa, 979 55th St.

BUILDING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

- | | |
|---------------------------------|---|
| 1.—Apartments | Offices |
| 2.—Bonds | 11.—Ice and Cold Storage Plants |
| 3.—Churches | 12.—Power Plants |
| 4.—Factories and Warehouses | 13.—Public Buildings, Fire Houses and Jails |
| 5.—Flats | 14.—Residences |
| 6.—Gareges and Service Stations | 15.—Schools |
| 7.—Federal Buildings | 16.—Canks, Stores and |
| 8.—Club Buildings | 17.—Theatres |
| 9.—Hospitals | 18.—Wharves & Docks |
| 10.—Hotels | 19.—Misc. Const. |
| | 20.—Misc. Supplies & Materials |

1—APARTMENTS

August 11, 1933

Completing Plans. APARTMENTS Cost, \$15,000 VALLEJO, Solano Co., Cal Marin Avenue.

Two-story and basement frame and stucco apartment building (four 4-room apts.) tile roof, gas hot air heating system, oak floors, wall beds, etc.

Owner—Withheld. Architect—Chas. E. Perry, 514 Marin Ave., Vallejo.

Bids will be taken in one week from a selected list of contractors. (2254) 1st report July 27; 3rd Aug. 7, 1933.

Contracts Awarded. ALTERATIONS Cost, \$— OAKLAND, Alameda Co., Calif. 2101 Harrison Blvd.

Alterations and additions to apartment building (papering, painting, redecorating, plumbing, wiring.)

Owner—Acorn Realty Company. Architect—Not Given.

Plumbing—L. J. Kruse, 6247 College Ave., Oakland, \$4,248.

Painting, Decorating, Etc.—J. S. Nicholas, 3201 Randolph Ave., Oakland, \$4,100.

To Be Done By Day's Work. ALTERATIONS Cost, \$2500 SAN FRANCISCO, No. 2886-88 Folsom Street.

Alterations to flats for apartments. Owner—M. Paquette, 3230 24th St., San Francisco.

Architect—Not Given.

3—CHURCHES

Plans Being Completed. CHURCH Cost, \$6000 DUNSMUIR, Siskiyou Co., Cal.

New Church building. Owner—Roman Catholic Archbishop. Architect—Not Given.

Additional Sub-Contracts Awarded. BUILDING Cost, \$15,000 BERKELEY, Alameda Co., Cal. Durrant and Bowditch Streets.

Two-story and basement frame and stucco building (shingle and composition roof, gas hot air heating system, etc.) will contain reading room, apartment, committee room, auditorium to seat approx. 200.

Owner—Christian Science Society, U. S., 2215 Union St., Berkeley.

Architect—H. H. Guttererson, 526 Powell St., San Francisco.

Contractor—K. E. Parker Co., 135 So. Park, San Francisco.

Heating—Aladdin Heating Corp., 5107 Broadway, Oakland.
Structural Steel—Judson Pacific Co., foot of Park Ave., Emeryville.
Glass—Habicht & Howlett, 529 Clay St., San Francisco.
Other awards reported June 30.

4—FACTORIES & WAREHOUSES

Additional Sub-Contracts Awarded. FACTORY Cost, \$200,000 SAN JOSE, Santa Clara Co., Cal. Eighth and Taylor Streets.

Two-story reinforced concrete can factory (180x220 ft.) (L 80x120 ft.) 20-year guaranteed roof, concrete floors, sprinkler system, steel sash, etc.

Owner—Continental Can Co., 155 Montgomery St., San Francisco.

Plans by Austin Co. of California. Contractor—Austin Co. of California, 1924 Broadway, Oakland.

Roofing—General Roofing Co., 3985 Beach St., Oakland.

Reinforcing Steel—Soule Steel Co., 1750 Army St., San Francisco.

As previously reported, concrete materials and brick awarded to Borchers Bros., 396 N-First St., San Jose; fill to W. E. Karstedt, 668 Morse St., San Jose; sprinkler system to Grinnell Co. of the Pacific, Fifth and Brannan Sts., San Francisco; steel sash to Detroit Steel Products Co., 111 Sutter St., San Francisco; glass and glazing to W. P. Fuller & Co., 301 Mission St., San Francisco.

Grading Bids Being Taken. FOUNDRY Cost, \$50,000 SOUTH SAN FRANCISCO, San Mateo Co., Cal. Tanforan Avenue.

One-story mill type foundry (steel and corrugated iron roof, concrete foundations, etc.)

Owner—American Brake Shoe & Foundry Co., 74 New Montgomery St., San Francisco.

Engineer—K. Thell, 580 Market St., San Francisco.

Bids on steel sash, roofing, doors and glass are in and will be awarded within a week. Concrete bids will be taken in about three weeks.

Plumbing Contract Awarded. FACTORY Cost, \$750,000 OAKLAND, Alameda Co., Cal. Foot of Adeline Street on the estuary.

Steel frame and concrete coconut products factory (650x100 ft.) steel frame and reinf. concrete warehouse (40x146 ft.) pile foundations, flat slab roofing, corr. iron roof and siding.

Owner—El Dorado Oil Works, Third and University Ave., Berkeley.

Engineers—Ellison & Russell, Pacific Bldg., San Francisco.

Plumbing—Scott Co., 113 Tenth St., Oakland.

Sub-Bids Being Taken. ALTERATIONS Cost, \$2000 SAN FRANCISCO, NE Spear and Folsom Streets.

Alterations to one and two-story Class C warehouse (mill work, glass, painting, etc.)

Owner—San Francisco Warehouse Co. Premises.

Architect—Not Given. Contractor—Clinton-Stephenson Construction Co., 550 Montgomery St., San Francisco.

Bids wanted on mill work, glass and painting.

Foundation and Footing Bldgs Being Taken.

FACTORY Cost, \$50,000 BERKELEY, Alameda Co., Cal. 63rd and Overland Sts.

Two-story steel frame factory (120x140 ft.) brick walls, concrete work composition roofing, etc.

Owner—Peterson Tallow Co., 65th and Bay Sts., Oakland.

Engineer—E. W. Remnitz, 1594 63rd St., Oakland.

Structural Steel—Herrick Iron Works 18th and Campbell Sts., Oakland.

Preliminary Plans Prepared. BREWERY Cost, \$— TUCSON, Arizona

Masonry and steel brewery (capacity of 30,000 barrels of beer annually).

Owner—Southwestern Brewing Co. (J. P. Kelsner, Sec.-Treas.), Consolidated National Bank Bldg., Tucson.

Architect—Roy Place, 11 E. Pennington St., Tucson.

Being Done By Day's Work. REBUILD CANNERY Cost, \$100,000 TAKU, Alaska.

Rebuild cannery recently destroyed by fire.

Owner—Libby, McNeil and Libby, 60 California St., San Francisco.

Plans by Engineering Dept. of Owner. Work is under way by owner's own forces.

Contract Awarded. MALT HOUSE Cost, \$— SAN FRANCISCO, 12th and Bryant.

Construct new malt house. Owner—Rainier Brewing Co., Inc., 1550 Bryant Street.

Engineer—Leland Rosener, 233 Sansome Street.

Contractor—Lindgren and Swinerton, Inc., 225 Bush St.

Work involves: Railroad and auto truck facilities and special conveying system between malt house and brewery;

Reinforced concrete elevator for the storage of barley and of finished malt; A reinforced concrete drum building containing 18 latest type growing drums;

A reinforced concrete steep tower containing 6 steep tanks.

A steel drying building containing the latest type of vacuum driers thru which a superior type of malt is produced. These driers will be complete with individual exhausters and condensers.

The special malting machinery has been purchased in the East. All other machinery will be purchased locally.

Work has already started on the foundations and some of the machinery is expected to be in transit in a few days. The entire project is to be completed by Nov. 1, 1933.

The design and supervision of the entire project will rest with the office of Leland S. Rosener, consulting engineer.

Planned. WINERY Cost, \$200,000 FRESNO, Fresno Co., Calif.

Construct winery (150x120; concrete fermentation vats, capacity 300,000 gals., and distillery, capacity of 3,000 gals. daily).

Owner—Santa Lucia Wineries Inc. (N. L. Naman, in charge) 3232 E Tulare St., Fresno.

Architect—Not Given.

Other incorporating officials are: J. H. Arkelian of Turlock; F. Van Lear, San Francisco, and A. C. Adams and Henry Krum, both of Fresno.

Equipment Contract Awarded.

BREWHOUSE Cost, \$—
SEATTLE, Wash. 970 Mercer Street.
Five-story fireproof brewhouse (concrete and steel construction, tile wall partitions, insulating work).
Owner—Hurluck Brewing Co., 970 Mercer St., Seattle.
Engineer—Rich, Ullrich, Smith Tower Annex, Seattle.

Equipment—Puget Sound Sheet Metal Works, Seattle.

Equipment includes hot and cold water tanks, grain tanks, hop jack, surface coolers, rice and malt meal hoppers, etc.

Contract Awarded.

WAREHOUSE Cost, \$—
BIGGS, Butte Co., Calif.
Concrete and iron ware house (100x280 ft.)

Owner—Rosenberg Brothers.
Architect—Not Given.
Contractor—J. W. Halterman, Willows

Contract Awarded.

WAREHOUSE Cost, \$—
WILLOWS, Glenn Co., Calif.
Concrete and iron warehouse (50x544).
Owner—Frank Juney, Willows.
Architect—Not Given.
Contractor—J. W. Halterman, Willows

Plans Being Prepared.

BREW HOUSE Cost, \$100,000
STOCKTON, San Joaquin Co., Cal.
No. 626 N. American St.
Four or five-story brick and steel brew house.

Owner—Eldorado Brewing Co. (A. D. Rothenbush), 626 N. American St., Stockton.

Architect—Not Given.
Further details will be announced in two weeks.

Plans Being Completed.

WAREHOUSE Cost, \$35,000
FRESNO, Fresno Co., Cal. Ventura Avenue and P Street.
One-story and basement warehouse (133x200 ft.) brick walls, wood trusses, mill construction, concrete floors, tar and gravel roof, automatic sprinkler system, steel sash, etc.

Owner—Wellman Peck & Co., 301 The Embarcadero, San Francisco.

Architect—J. E. Krafft, Phelan Bldg., San Francisco.
Bids will be asked in about one week.

Plans Being Completed.

WAREHOUSE Cost, \$40,000
SAN DIEGO, San Diego Co., Cal.
One-story and mezzanine floor warehouse (100x200 ft.) structural steel frame, brick walls, steel sash, steel rolling doors, concrete floors, automatic sprinkler system, etc.

Owner—Wellman Peck & Co., 301 The Embarcadero, San Francisco.

Architect—J. E. Krafft, Phelan Bldg., San Francisco.
Bids will be asked in about ten days

August 15, 1933

Plans Being Prepared.

MFG. PLANT Cost, \$750,000
VERNON, Los Angeles Co., Cal. Five Acre Site.
Group of reinforced concrete manufacturing buildings.

Owner—Cereal Products Refining Corp (Samuel A. Clarke, Pres.), 762 Fulton St., San Francisco.

Plans by Engineering Dept. of Owner (Mr. Schuster in charge).

Plans will be completed in about three weeks.

Contract Awarded.

PLANT Cost, \$120,000
SEATTLE, Washington. No. 615 Orchard Street.
Three-story fireproof plant (180x140 feet), exterior concrete walls,

brick facing, metal sash windows, freight elevator, etc.

Owner—Continental Can Co., Inc., 815 Adams St., Seattle.

Plans by the Austin Co., Dexter Horton Bldg., Seattle.

Contractor—Austin Co., Dexter Horton Bldg., Seattle.

Planned.

BREWERY Cost, \$100,000
SPOKANE, Washington.

Alterations and four-story addition to brick and concrete building for brewing plant (refrigerating plant, bottling work and equipment, malt house, etc.); capacity of 5,000,000 gallons of beer annually.

Owner—Spokane Brewing & Malting Co., Spokane, Wash.

Plans by Owner.

Planned.

BOTTLING PLANT Cost, \$100,000
SEATTLE, Wash. Columbia St. bet. 7th and 8th.

Remodel and recondition building for bottling plant (two-story structure, 36x100) bottling equipment.

Owner—Star Brewery Co. (Paul Polsky, Gen. Mgr.) premises.

Architect—Not Given.

Roofing Contract Awarded.

REMODEL Cost, \$10,000
SANTA ROSA, Sonoma Co., Cal.

Remodel Class C winery (new roof, machinery and equipment).

Owner—Grace Bros., Santa Rosa.

Engineer—L. H. Nishkian, 525 Market St., San Francisco.

Roofing—Malott & Peterson, 20th and Harrison Sts., San Francisco.

Other awards previously reported.

SOUTHERN CALIFORNIA—Articles of Incorporation have been filed with the Secretary of State at Sacramento by the Calivino Corporation, who have been authorized to capitalize at \$1,000,000 for the purpose of conducting a winery business in Southern California. Directors of the concern are R. E. Montgomery, H. C. Dunning and James Morris, all of Los Angeles.

TRONA, San Bernardino Co., Cal.—Dwight P. Robinson & Co., Union Oil Bldg., Los Angeles, will start work this month on the erection of a soda ash and salt cake factory at Trona, San Bernardino County, for the American Potash & Chemical Corp. Storage and loading facilities will also be added to the company's present plant. H. T. Stone, purchasing agent for the contractors, will handle the buying. The factory will be a three-story, steel frame structure with concrete footings and floors, corrugated iron exterior, steel sash, and steel supports for machinery. The improvements will cost approximately \$1,250,000, the larger part of which will be invested in equipment. Mr. Mumford is consulting engineer for the American Potash & Chemical Corp.

Contract Awarded.

PLANT Cost, \$—
RICHMOND, Contra Costa Co., Cal.
One-story wood frame fish meal plant (9000 square feet) wood walls and floors with asphalt covering.

Owner—Parr Terminal.

Engineer—J. J. Walsh, 112 Market St., San Francisco.

Contractor—P. M. Sanford, 301 Alta Punta Ave., Richmond.

Lessee—Bay Side Fish Flour Co. (Roy R. Dailey, in charge), 625 Market St., San Francisco.

FACTORY Cost, \$750,000

OAKLAND, Alameda Co., Cal. Foot of Adeline Street on the Estuary. Steel frame and concrete coconut products factory (650x100 ft.) steel

frame and reinforced concrete warehouse (40x146 ft.) pile foundations, flat slab roofing, corrugated iron roof and siding.

Owner—El Dorado Oil Works, Thlr and University Ave., Berkeley.

Engineers—Ellison & Russell, Pacific Bldg., San Francisco.

Bids are being received by L. S. King, premises, for fabrication and erection of trusses and roof steel. Bids for the erection of structural steel are in and will be awarded shortly.

Sub-Contracts Awarded.

REPAIRS Cost, \$6000
OAKLAND, Alameda Co., Cal. No. 850 Forty-second St.

Repair fire damage to plant.

Owner—Clorax Chemical Co., 850 42nd St., Oakland.

Architect—Not Given.
Contractor—C. Dudley DeVelbiss, 354 Hobart St., Oakland.

Roofing—N. V. Heathorn Roofing Co. 2059 Webster St., Oakland.

Glass—East Bay Glass Co., 621 Sixth St., Oakland.

To Be Done By Day's Work.

PLANT Cost, \$15,000
BERKELEY, Alameda Co., Cal. Second and Harrison Sts.

Addition to packing plant.

Owner—J. Frank McDermot, Second and Harrison Sts., Berkeley.

Plans by Owner.

5—FLATS

Owner Taking Tile Bids.

FLATS Cost, \$9000
SAN FRANCISCO. S Jefferson St. 100 W Webster St.

Two-story and basement frame and stucco flats (2 6-room flats); composition and part tile roof, steam heating plant, cement plaster, canvas walls, hardwood floors, tiled baths, etc.

Owner—M. Desiano, 3117 Fillmore St., San Francisco.

Architect—H. C. Baumann, 251 Kearny St., San Francisco.

Construction is underway by day's labor under the supervision of the owner.

Lumber Contract Awarded.

FLATS Cost, \$5000
SAN FRANCISCO. E Treat Ave. 150 S 23rd St.

Two-story and basement frame and stucco flats (2 flats).

Owner—C. Kollerer, 1041 Treat Ave.

Architect—Not Given.
Contractor—The Ruegg Co., 369 Pine Street.

Lumber—Sudden Lumber Co., Evans and Quint Streets.

Contract Awarded.

ADDITION Cont. Price, \$2814
SAN FRANCISCO. No. 263 Eureka Street.

Alterations and addition to residence for flats.

Owner—P. Schneider, 268 Eureka St., San Francisco.

Architect—M. Gunzendorfer, 405 Montgomery St., San Francisco.

Contractor—J. Prout, 515 Magellan St., San Francisco.

6—GARAGES & SERVICE STATIONS

Planned.
SERVICE STATION Cost, \$15,000
EUREKA, Humboldt Co., Calif. NE Sixth and E Streets.

Super service station.

Owner—Verne Johnson, 418 H Street, Eureka.

Architect—Not Given.

Sub-Contracts Awarded.
SERVICE STATION Cost. \$5000
SAN FRANCISCO. NW Pine and Larkin Streets.
 Steel frame servile station.
 Owner—Standard Oil Co., 225 Bush St., San Francisco.
 Plans by Engineering Dept. of Owner.
 Contractor—J. A. Grant, 666 Mission St., San Francisco.
Plumbing—W. E. Trousdale, 422 Turk St., San Francisco.
Electric—Frank Goodman, 666 Mission St., San Francisco.
Grading—Piombo Bros. & Co., 1571 Turk St., San Francisco.
Lumber—Rolando Lumber Co., 5th and Berry Sts., San Francisco.
Mill Work—Harder Planing Mill, Bay-shore Highway.

the Treasury Department, Office of the Supervising Architect, Washington, D. C., for the construction of the U. S. post office at Cushing. Plans may be obtained from the architect in Washington upon deposit of \$20, checks to be made payable to the Treasurer of the United States. Jas. A. Wetmore, acting supervising architect.

SUNNYVALE, Santa Clara Co., Cal.
 Following bids received by 12th Naval District, San Francisco, for awnings and linoleum flooring at the Naval Air Station, Sunnyvale. Specification No. 7353.

Work includes the installation of awnings (canopy) on open terraces at Officers' Quarters "M" to "I," inclusive, and on linoleum flooring in kitchen, pantry, entry and closets in Officers' Quarters "A" to "I," inclusive:

- (1) Job complete.
 - (2) Awnings.
 - (3) Linoleum.
- L. Lyons & Son, Palo Alto.....(1) \$893.51
 (2) 339.36
 (3) 554.15
- W. & J. Sloane, S. F.....(3) \$938.67
 Van Fleet Freear Co., S. F.....(3) \$618.00
 Sherman Co., Palo Alto.....(2) \$679.00
 J. L. Stewart, S. F.....(2) \$385.15
- American Tent & Awning Co., San Francisco.....(2) \$640.00
 D. N. & E. Walter, S. F.....(3) \$481.80
 Alternate 492.90
 Alternate 502.65
- *Robinett & Gardner, Palo Alto.....(2) \$308.00
 Alternate 283.00
- Alameda Awning Shop, Santa Clara.....(2) \$273.54
- Ames, Harris, Neville Co., San Francisco.....(2) \$504.50
 *Bid irregular.
 Bids held under advisement.

Plans Being Completed.
POST OFFICE Cost, \$99,000
SAN GABRIEL, Los Angeles Co., Cal.
 U. S. post office building (reinforced concrete construction).
 Owner—United States Government.
 Architect—Scott Quintin, 418 N California St., San Gabriel.

CALIFORNIA AND OREGON—Following projects included in the National Park Program. Work will be done by the Park Board and paid for out of its regular funds.

- CALIFORNIA**
- Yosemite National Park**
- Apartment Blds. (4 fmly).....\$ 19,000
 - Hospital, Employees Dormatory..... 7,000
 - Building over Gas Domes..... 2,000
 - Barn Alter., Glacier Point..... 1,000
 - Campground Development..... 10,000
 - Sewer System Extension and Development..... 2,000
 - Sewer System (Yosemite Co.—Park Boundary Mains)..... 3,000
 - Elatrix System (Ext. & Imp.) 109,450
 - Telephone Sys. (Ext. & Imp.) 24,000
 - Water Ext. to New Valley Buildings..... 1,000
 - Chlorinating Unit (for Sewery) 12,000
 - Employees' Res. (3) Valley..... 15,000
 - Equipment Storage Shed, Wawona..... 3,000
 - Garages (8 stalls)..... 1,800
 - Comfort Stn., Chinquapin..... 4,000
 - Heating Plant, Ranger's Club Merced Lake Cabin Addn..... 1,500
 - Rangers' Station, Chinquapin 4,400
 - Water Sewer Extension..... 500
 - Water System, Wawona..... 35,000
 - Cabins (3) Indian Village..... 3,300
 - Comfort Station, Hetch-Hetchy 4000
 - Sewer Sys., Hetch-Hetchy..... 5,500
 - Sewer System, Wawona..... 12,000
 - Employees Residence..... 6,500
- \$281,550

General Grant National Park
 Superintendent's Residence.....\$ 5,000
 Equipment Shed..... 3,000

- Miscellaneous Small Develop..... 2,000
- Electric Lighting Plant..... 2,000
- Power Line for New Plant..... 1,000

\$13,000

Lassen Volcanic National Park

- Blacksmith Shop—Hdqtrs.....\$ 2,000
- Water Sewer System, Manzaneta Lake..... 9,000
- Electric System..... 1,500
- Nationalist Qts, Mazaneta Lake 4,200
- Comfort Station (2) " "..... 3,300
- Electric System " "..... 3,000

\$23,000

Sequoia National Park

- Dormitory, Lodgepole.....\$ 5,000
- Barn, Ash Mountain..... 4,200
- Barn, Alter, Ash Mountain..... 2,000
- Comfort Stl. (2), Lodgepole..... 8,000
- Water and Sewer System, Ash Mountain and Lodgepole..... 62,000
- Comfort Station..... 2,000
- Sewer System, Merro Rock..... 400

\$83,600

Muir Wood National Monument

- Comfort Station Improvements..\$ 1,000
- Comfort Station, Deer Park..... 1,000
- Incinerator..... 2,000

\$ 4,000

Pinnacles National Monument

- Garage—Tool Shed.....\$ 1,600
- Water Supply " "..... 4,000

\$ 5,500

Death Valley National Monument

- Rangers Quarters, Information Building.....\$ 6,000
- Comfort Station..... 3,000
- Campground Development..... 5,000
- Water Supply..... 3,000
- Sewage Disposal..... 2,000

\$19,000

OREGON

Crater Lake National Park

- Employees' Cottages (4).....\$ 2,400
- Observation Station (3)..... 2,000
- Sewer System Extnsion (Govt.) Camp)..... 15,000
- North Rim Water Supply, Completion..... 8,000
- Comfort Station (2)..... 4,500
- Telephone System, Belterment 2,500
- Warehouse Addn., Govt. Camp 500
- Mess House and Woodshed, Govt. Camp..... 500
- Water System Ext., Govt. Camp 3,000

\$37,400

WASHINGTON

Mt. Ranier National Park

- Sewer System, Tipson Lake.....\$ 3,000
- Fire Guard Cabin..... 3,500
- Fire Patrol Cabin..... 2,000
- Fire Tool Caches..... 2,500
- Water System, Chanapecosh and Tipsoo Lake..... 4,000
- Ranger Station..... 4,000
- Mess House, Sunrise..... 3,000
- Comfort Station (2)..... 6,000
- Campground Development..... 8,000
- Cold Storage and Ice Plant..... 2,000

\$48,000

SACRAMENTO, Cal.—Pacific Irrigation Co., 7 Front St., San Francisco, at \$2745 submitted low bid for lawn sprinklers and J. Sala, Sacramento, at \$422 submitted low bid for floodlights and buzzer system to C. N. Franklin, Resident Engineer, Sacramento, in connection with the U. S. Federal Building at Sacramento. Luppen & Hawley, Sacramento, submitted second low bid at \$2875 for lawn sprinklers and Sterling Electric Co., Sacramento, at \$448, submitted second low bid for floodlights and buzzer system. Recommendation was made to Washington to award contracts to low bidders.

7—FEDERAL BUILDING

WASHINGTON, D. C.—H. J. McKinley, Beverly Hills, Calif., at \$975 submitted low bid to Treasury Department for painting the plaster, etc. in the U. S. Post Office in Santa Ana, Calif. Following bids received:
 H. J. McKinley, Beverly Hills..\$ 975.00
 W. F. Sorenson, Santa Ana..... 1374.25
 Barrows Const. Co., Santa Ana 1979.00
 A. B. Moses, Los Angeles..... 2180.50
 J. H. Conner, Huntington Park 2187.00
 Redmon, Jordon & Gallon, Santa Ana..... 3646.00

WASHINGTON, Dist. of Columbia.—N. Clark & Sons, 116 Natoma St., San Francisco at \$2,501 awarded contract by Treasury Department for plaster models for the U. S. Post Office at San Jose.

WASHINGTON, D. C.—As previously reported, H. A. Framburg, Chicago, at \$1,435 submitted low bid to Treasury Department for furnishing and installing interior lighting fixtures in the U. S. post office at San Jose, Cal. Following bids received:
 H. A. Framburg, Chicago.....\$1,435
 E. F. Guth Co., St. Louis..... 1,476
 W. G. Warren Co., Chicog..... 1,481
 Bids held under advisement.

WASHINGTON, D. C.—V. D. Lorenzo, 128 W Manhattan Street, Santa Fe, New Mexico, at \$2,430 awarded contract by the Treasury Department for painting plaster in the U. S. Court House at Santa Fe, New Mexico.

WASHINGTON, D. C.—Until Sept. 1, 2 P. M., bids will be received by Treasury Department, Washington, D. C., for furnishing and installing special interior lighting fixtures in the U. S. post office, etc., at Yuma Arizona. Plans and specifications available from above office.

WASHINGTON, D. C.—All bids have been rejected by the Treasury Department in connection with the construction of the two-story steel and masonry post office building in San Diego. Wm. T. Johnson, San Diego Trust and Savings Bldg., San Diego, architect. On bid opening lowest bid was submitted by the Lagura Const. Co., Inc., Gary, Ind., at \$509,000 for Item 1, and \$523,000 for Item 2. Complete list of bids published April 7.

Preparing Plans.
POST OFFICE Cost, \$—
MADERA, Madera Co., Calif. SE Yosemite Ave. and D St.
 Post office building.
 Owner—United States Government.
 Architect—Ernest J. Kump, Rowell Bldg., Fresno.
 Topographical survey of the site is now being made.

CUSHING, Okla.—Until 10 A. M., Sept. 1 (opening date postponed from August 11) bids will be received by

Completing Plans.
POST OFFICE Cost, \$175,000
ALHAMBRA, Los Angeles Co., Cal. S
 Garfield Avenue.
 Reinforced concrete post office (stone
 facing, tile and composition roof-
 ing, etc.)
 Owner—United States Government.
 Architect—John W. Smart, 39 E Main
 St., Alhambra.

8—CLUB BUILDINGS

Preliminary Plans Completed.
MASONIC HALL Cost, \$40,000
VISALIA, Tulare Co., Calif. S Locust
 St. and Mineral King Ave.
 Two-story reinforced concrete Ma-
 sonic temple (65x110) composition
 flat roof, gas heating system, cool-
 ing system, maple floors, etc. (will
 contain two lodge rooms, banquet,
 club and reading rooms, kitchen,
 small stage, etc.)
 Owner—Masonic Temple Assn.
 Architect—P. L. Dragon and C. R.
 Schmidts, Mercantile Bank Bldg.,
 Berkeley.

Preliminary plans have been submit-
 ted and upon approval working draw-
 ings will be started.

SANTA MARIA, Santa Barbara Co.,
 Cal.—Elks lodge of Santa Maria, Thos.
 Weldon, exalted ruler, has purchased
 property at the corner of Broadway
 and Orange Ave., Santa Maria, as the
 site for a new lodge building. Plans
 will not be definitely decided upon un-
 til later in the year.

Sub-Contracts Awarded.
SOCIAL HALL Cost, \$4000
OAKLAND, Alameda Co., Cal. Tenth
 and Brush Streets.

One-story frame and stucco social hall
 (50x100 feet).
 Owner—Hellenic Community Society.
 Architect—Not Given.

Contractor—Warn Bros., 419 E. Merle
 Court, San Leandro.
Plumbing—C. W. Roland, 5847 Foot-
 hill Blvd., Oakland.

Lumber—Swift Lumber Co., Inc., 340
 29th Ave., Oakland.

Millwork—Emeryville Lumber Yard,
 1449 Park Ave., Emeryville.

Concrete—Ensor Buel, 2927 Lorina
 St., Berkeley.

Hardware—Markus Cut-Rate Hard-
 ware & General Merchandise Co.,
 7th and Washington Sts., Oakland
Tile—Frank Churchill, 857 Mead Ave.
 Oakland.

Sheet Metal—Dunn Sheet Metal Wks.
 6410 E-14th St., Oakland.

Electric—J. D. Eldridge, 509 A West
 Merle Court, San Leandro.

9—HOSPITALS

NORWALK, Los Angeles Co., Cal.—
 Roscoe Moss Co., 4360 Worth St., Los
 Angeles, at \$2608 awarded contract by
 State Division of Architecture to drill
 a water well at the Norwalk State
 Hospital.

Construction Superintendent Named.
HOSPITAL Cost, \$150,000
SEDRO WOOLLEY, Washington.

Two-story and attic T-shaped hospi-
 tal (136x126 feet) concrete con-
 struction, plastered exterior, tile
 roof, attic of mill construction.

Owner—State of Washington.
 Architect—James E. Blackwell, Medi-
 cal Arts Bldg., Seattle.
 Supt. of Const.—E. Selene, 1001 Key
 St., Bellingham, Wash.

Work will be done by day's labor.

MADERA, Cal.—Until Sept. 6, 10
 A. M. bids will be received by L. W.
 Cooper, Clerk, Madera County Board
 of Supervisors for one new portable
 X-Ray unit, f.o.b. Installed in the
 Madera County Hospital together with
 technical instructions furnished as per

specifications on file in County Clerk's
 office.

Bid Opening postponed Until Nov. 15,
 2:30 P. M.

PSYCHOPATHIC BLDG. Cost, \$—
SAN FRANCISCO, Potrero Ave. and
 Twenty-second St.

Five-story Class A steel frame and
 reinforced concrete psychopathic
 institute building (tar and gravel
 roof, steam heating system to
 connect to main plant, etc.)

Owner—City and County of San Fran-
 cisco.

Architect—Alfred I. Coffey and Martin
 J. Rist, associated, Phelan Bldg.
 Structural Engineer—H. J. Brunner,
 Sharon Bldg.

Mechanical Engineer—Hunter & Hud-
 son, 41 Sutter St.

10—HOTELS

Contract Awarded.

ALTERATIONS Cost, \$15,000
SAN FRANCISCO, No. 447 Broadway

Alterations to 3-story Class C brick
 building for hotel and stores, (32
 rooms, 3 stores) plaster front, new
 plumbing and lighting fixtures,
 wood sash, natural gas steam heat
 radiators, composition floors, tile
 front, plate glass, corner moulds.

Owner—E. Parducci and T. Domenici.
 Architect—Resing & McGuinness, 488
 Pine St., San Francisco.

Contractor—Peter Sartorio, 666 Mis-
 sion St., San Francisco.

11—ICE AND COLD STORAGE PLANTS

Contract Awarded.

ICE DEPOT Cost, \$5500
GILROY, Santa Clara Co., Cal. Eighth
 and Monterey Sts.

One-story frame ice depot (insulated
 with Redwood Bark Fibre); (30x
 70 feet).

Owner—J. D. Johnston.
 Lessee—Union Ice Co., 354 Pine St.,
 San Francisco.

Plans by Eng. Dept. of Lessee.
 Contractor—W. W. Williamson, 320
 Market St., San Francisco.

12—POWER PLANTS

BURLINGAME, San Mateo Co., Cal.
 —City considers purchase of electric
 distributing system to cost \$714,000,
 including Diesel electric generating
 plant.

PHOENIX, Ariz.—The Salt River
 Valley Irrigation District is consider-
 ing an application to the federal
 emergency administration of public
 works for a loan of 500,000 for im-
 provements to the dams and power
 plants of the Salt River project. The
 proposed work includes: Enclosing
 of the Horse Mesa dam power house;
 water spray protective work on the
 Mormon Flat dam power house; pav-
 ing of the Horse Mesa dam spillways;
 building of a retaining wall at the
 Mormon Flat dam power house and
 other work of similar character.

LOS BANOS, Merced Co., Calif.—
 City Board of Trustees are investigat-
 ing municipal power plants and dis-
 tribution systems with a view to in-
 stallation of a municipal power system.
 W. E. Bedesen, city engineer.

13—PUBLIC BUILDINGS FIRE HOUSES & JAILS

Planned.

JAIL Cost, \$75,000
SANTA CRUZ, Santa Cruz Co., Cal.

New county jail and courthouse annex
 Owner—County of Santa Cruz.
 Architect—Not Selected.

Approximately \$49,000 is available
 for the construction and Federal Aid
 may be requested for the balance of
 the financing.

14—RESIDENCES

Plans Being Revised.

RESIDENCE Cost, \$6000
VALLEJO, Solano Co., Cal.

Two-story and basement frame and
 stucco residence (7 rooms and 2
 baths) tile roof, gas heating sys-
 tem, hardwood floors, tiled baths
 and kitchen, etc.

Owner—Mr. Foley.
 Architect—F. H. Slocumhe, 131 Monte
 Cresta Ave., Oakland.

Plans are being revised and new
 bids will be asked in about one week.

Plans Being Figured.

RESIDENCE Cost, \$—
SAN MATEO, San Mateo Co., Cal.

One and one-half-story frame and
 stucco residence (7 rooms and 2
 baths); shingle roof, gas hot air
 heating system, tiled baths, steel
 sash, hardwood floors, etc.

Owner—Withheld.
 Architect—E. M. Sharpe, 525 Market
 St., San Francisco.

Bids are being received from a
 selected list of contractors.

Plans Being Figured—Bids Close Sept.
 6, 3 P. M.

ALTERATIONS \$30,000-\$40,000
HILLSBOROUGH, San Mateo County

Cal. Easton Drive.
 Alterations and additions to two-story
 and basement frame residence
 (add rooms, new plumbing, heat-
 ing, wiring, mill work, etc.)

Owner—Paul I. Fagan, Hillsborough.
 Architect—Arthur Brown Jr., 251
 Kearny St., San Francisco.

Following will submit bids:
 Bessett Building Co., 826 Walnut St.,
 Burlingame.

Dowsett-Ruhl Co., Russ Bldg., San
 Francisco.

Lindgren & Swinerton, 225 Bush St.,
 San Francisco.

A. F. Mattock, Park Lane, Atherton
 J. B. Oswald, 760 El Cerrito, Hills-
 borough.

Chas. Stockholm & Sons, Russ Bldg.,
 San Francisco.

George Wagner, 181 South Park,
 San Francisco.

E. W. Yont, 315 Avila St., San Fran-
 cisco.

Young & Horstmeyer, 461 Market
 St., San Francisco.

The contract includes all architect-
 ural and mechanical work.

For the benefit of sub-contractors
 a set of documents is being held at
 the office of the Architect for their in-
 spection.

Segregated Bids Being Taken.
COTTAGES Cost, \$—
WALNUT CREEK, Contra Costa Co.,

Cal. San Ramon Heights.
 Five one-story brick cottages (3 rooms
 each) white washed brick, tile
 roofing, steel sash, orn. iron, etc.

Owner—Mason McDuffie Co. 2101 Shat-
 tuck Ave., Berkeley.
 Architect—E. L. Snyder, 2101 Shattuck
 Ave., Berkeley.

SANTA MARIA, Santa Barbara Co.,
 Cal.—A. F. Fugler, 118 South Broad-
 way, Santa Maria, will erect a Spanish
 style residence in Palm Court, Santa
 Maria, for himself.

Plans Being Figured—To Close Aug.
 21, 2 P. M.

RESIDENCE Cost, \$4000
SAN JOSE, Santa Clara Co., Cal.

One-story and basement frame and
 stucco residence (6 rooms) shingle
 roof, gas heating system, hard-
 wood floors, tiled baths, etc.

Owner—Name Withheld.
 Architect—William Higgins, 19 North
 Second St., San Jose.

Contract Awarded.
RESIDENCE Cost, \$—
REDWOOD CITY, San Mateo Co., Cal.
 No. 1673 Kentfield Avenue.
 One-story and basement frame and
 stucco residence (5 rooms).
 Owner—D. Nicoli, El Camino Real,
 Redwood City.
 Architect—Not Given.
 Contractor—R. A. Crothers, 129 Poplar
 Ave., Redwood City.

Plans Being Completed.
RESIDENCE Cost, \$5000
OAKLAND, Alameda Co., Cal. Rock-
 ridge District.
 One-story and basement frame and
 stucco residence (6 rooms) shingle
 roof, gas heating system, hard-
 wood floors, canvas walls, tiled
 baths, steel sash, etc.
 Owner—Dr. D. A. Torrano, 5816 Ocean
 View Drive, Oakland.
 Architect—Williams & Wastell, 374
 17th St., Oakland.
 Contractor—Selected (Withheld).
 Plans will be completed within a
 few days.

Sub-Contracts Awarded
RESIDENCE Cost, \$—
LAFAYETTE, Contra Costa Co., Cal.
 Happy Valley Road.
 One-story frame and stucco residence
 (6 rooms) (Dutch Colonial type)
 rustic redwood exterior, stucco in-
 terior, patio, coal furnace, etc.
 Owner—Miss Harriet Snyder.
 Plans by E. M. Sorensen.
 Contractor—E. M. Sorensen, 1807
 Parker St., Berkeley.
 Brick—Joseph Lord, 1538 Henry St.,
 Berkeley.

Sheet Metal—Aarvaks Heating Ap-
 pliance Co., 2313 Valley St., Ber-
 keley.
Lumber—Melrose Lumber & Supply
 Co., 1201 46th Ave., Oakland.
Concrete—G. E. Rilding, 2037 84th Ave.
 Berkeley.
Plumbing—A. I. Baker, 1510 Cedar
 St., Berkeley.
 Sub-bids are being taken on electric
 wiring and fixtures.

Sub-Bids Being Taken.
RESIDENCE Cost, \$8500
PIEDMONT, Alameda Co., Cal. Wild-
 wood Gardens.
 Two-story and basement frame and
 stucco residence (8 rooms) Span-
 ish type, tile roof, gas hot air
 heating system, hardwood floors,
 wood sash, etc.
 Owner—B. F. Lindgren.
 Architect—Miller & Warnecke, Finan-
 cial Center Bldg., Oakland.
 Contractor—J. W. Monroe, 5538 Clare-
 mont Ave., Oakland.
 Sub-bids are being taken on all
 portions of the work with the excep-
 tion of plastering, plumbing and lum-
 ber.

Contract Awarded.
RESIDENCE Cost, \$5000
BERKELEY, Alameda Co., Cal. Santa
 Barbara Road and Arlington St.
 One-story and basement frame and
 stucco residence (6 rooms) shingle
 roof, gas heating system, tiled
 bath, hardwood floors, canvas
 walls in bath and kitchen, etc.
 Owner—Mrs. C. Mattison.
 Plans by F. W. Confer, 2312 Russell
 St., Berkeley.
 Contractor—F. W. Confer, 5730 Keith
 St., Berkeley.

Contract Awarded.
RESIDENCE Cost, \$10,000
SAN MATEO, San Mateo Co., Cal. No.
 421 Earcott Drive.
 Two-story and basement frame and
 stucco residence.

Owner—S. D. Thompson.
 Architect—Not Given.
 Contractor—Charles Hammer, 1521
 Floribunda Ave., Burlingame.

Plans Being Figured—Bids Close Aug.
 31.
RESIDENCE Cost, \$—
BERKELEY, Alameda Co., Cal. Tam-
 alpais Road.
 Two-story and basement frame, brick
 veneer and stucco residence (12
 rooms and 3 baths) terra cotta tile
 roof, gas hot air heating system,
 colored tiled baths, steel sash,
 hardwood floors, etc.
 Owner—Frederick Benner, 220 Mont-
 gomery St., San Francisco.
 Architect—William Wilson Wurster,
 260 California St., San Francisco.

Sub-Contracts Awarded.
RESIDENCE Cost, \$3800
SALINAS, Monterey Co., Cal.
 One-story frame and stucco residence
 (6 rooms) shingle roof, gas heat-
 ing system, hardwood floors, etc.
 Owner—James Force, 310 Central
 Ave., Salinas.
 Architect—Charles Butner, Glikbarg
 Bldg., Salinas.
 Contractor—W. E. Green, 27 Lincoln
 Ave., Salinas.

Excavation—J. McCormack.
Concrete Aggregates—Central Supply
 Company.
Lumber—Tynan Lumber Co.
Mill Work and Lumber—Salinas Plan-
 ing Mill.
**Glass and Glazing, Plumbing, Heating
 and Sheet Metal**—S. Weber.
Brick Work—E. Gardiser.
Plastering—C. A. Irwin.
Painting—T. Hughes.
Electric Work—Rodeo Electric Co.
 All of Salinas.

Preparing Preliminary Sketches.
RESIDENCE Cost, \$10,000
SAN FRANCISCO, Nineteenth Ave.
 Near Anza Street.
 Two-story and basement frame and
 stucco residence (9 rooms and 2
 baths).
 Owner—Withheld.
 Architect—J. Lloyd Conrich, 214 9th
 Ave., San Francisco.
 Further details will be announced
 shortly.

Sub-Bids Being Taken.
RESIDENCE Cost, \$5000
SAN FRANCISCO, Belgrave Avenue,
 Twin Peaks District.
 Two-story frame and stucco residence
 (tile roof, gas hot air heating sys-
 tem, hardwood floors, tiled baths).
 Owner—C. C. Easley, 365 Castles Ave.
 Architect—Miller & Warnecke, Finan-
 cial Center Bldg., Oakland.
 Contractor—C. W. Leekins, 4435 Mo-
 raga Ave., Oakland.
 Sub-bids are wanted on sheet metal,
 ornamental iron, steel sash, painting
 and grading.

Plans Being Figured—Bids Close Aug.
 26, 11 A. M.
RESIDENCE Cost, \$5000
BERKELEY, Alameda Co., Cal. Ber-
 keley Highland Terrace.
 Two-story frame and stucco residence
 (6 rooms) English type, shingle
 roof, warm air gas heating sys-
 tem, hardwood floors, pine trim,
 steel sash, tile bath, etc.
 Owner—K. W. Archer.
 Architect—Hardman & Russ, Berkeley
 Bank Bldg., Berkeley.
 Bids are being taken from a selected
 list of contractors.

Additional Sub-Contracts Awarded.
RESIDENCE Cost, \$—
BERKELEY, Alameda Co. Cal. Ce-
 dar St. E Euclid Ave.
 Two-story and basement frame and
 stucco residence (8 rooms).
 Owner—M. W. Talbot, 2672 Hilgard

Ave., Berkeley.
 Architect—Not Given.
 Contractor—Walter L. Broderick, 610
 The Arlington, Berkeley.
Hardware—Sunset Hardware Co., 2104
 Shattuck Ave., Berkeley.
Fixtures—Roberts Mfg. Co., 480 23rd
 St., Oakland.

Contract Awarded.
RESIDENCE Cost, \$4000
SAN JOSE, Santa Clara Co., Cal. No.
 341 E. Empire Street.
 One-story and basement frame and
 stucco residence (5 rooms).
 Owner—Vincent Catania, 499 N. 8th
 St., San Jose.
 Architect—Not Given.
 Contractor—Sol Guardino, 690 Mission
 St., San Jose.

Preparing Working Drawings.
RESIDENCE Cost, \$15,000
SAN FRANCISCO, Marina District.
 Two-story and basement frame, stucco
 and brick veneer residence (eight
 rooms and 3 baths).
 Owner—Withheld.
 Architect—Clarence Tantau, 210 Post
 St., San Francisco.
 Bids will be asked in about three
 weeks.

Contract Awarded.
RESIDENCE Cost, \$5000
BERKELEY, Alameda Co., Cal. No.
 523 Santa Barbara Road.
 Two-story frame and stucco residence
 (6 rooms).
 Owner—Mrs. C. Mattison, 1031 Fresno
 St., Berkeley.
 Architect—Not Given.
 Contractor—F. W. Confer, 5730 Keith
 Ave., Berkeley.

Sub-Bids Being Taken.
RESIDENCE Cost, \$6500
BERKELEY, Alameda Co., Cal. San
 Luis Road.
 Two-story frame, stucco and brick
 veneer residence (6 rooms and 2
 baths) wood sash, hot air heating
 system, oak floors, tiled baths, tile
 roof, etc.
 Owner—John Rutherford, 124 Ard-
 more Road, Berkeley.
 Architect—E. L. Snyder, 1201 Shat-
 tuck Ave., Berkeley.
 Contractor—J. M. Walker, 1709 Grove
 St., Berkeley.

Sub-Bids Being Taken.
RESIDENCE Cost, \$—
BERKELEY, Alameda Co., Cal. Yo-
 semite St. and The Alameda.
 One-story and basement brick veneer
 residence (5 rooms) shingle roof,
 gas heating system, hardwood
 floors, tiled bath; steel sash, etc.
 Owner—Gerald C. Marsh, 1410 Spring
 Way, Berkeley.
 Architect—E. L. Snyder, 2101 Shat-
 tuck Ave., Berkeley.
 Contractor—J. M. Walker, 1709 Grove
 St., Berkeley.

Sub-Bids Being Taken.
RESIDENCE Cost, \$6500
CONTRA COSTA COUNTY, Cal.
 Woodmont.
 One-story and basement frame and
 stucco residence (6 rooms) shingle
 roof, gas heating system, metal
 sash, hardwood floors, etc.
 Owner—T. K. Whipple, 904 Regal Rd.,
 Berkeley.
 Architect—E. L. Snyder, 2101 Shat-
 tuck Ave., Berkeley.
 Contractor—J. M. Walker, 1709 Grove
 St., Berkeley.

Sub-Contracts Awarded.
RESIDENCE Cost, \$—
OAKLAND, Alameda Co., Cal. Mor-
 com Ave. and Simmons St.
 One-story and basement frame and
 stucco residence (6 rooms) Span-

ish type, hot air gas heating system, hardwood floors, tiled baths, etc.

Owner and Builder—Ernest W. Urch, 1924 50th Ave., Oakland.

Plans by Owner.

Painting—R. E. O'Brien, 2151 Buena Vista Ave., Oakland.

Finish Cement Work—Reichel & Bredhoff, 1555 Central Ave., Alameda.

Sub-bids are being taken on hot air gas heating system, plastering, wiring, etc.

Contract Awarded.

RESIDENCE Cost, \$3500
NORTH PALO ALTO, Santa Clara Co. Cal. Oak Street.

One-story and basement frame and stucco residence.

Owner—C. H. Rosenban et al.
Architect—Not Given.

Contractor—Smith-Burke Co., 130 Byron St., Palo Alto.

Contract Awarded.

RESIDENCE Cont. Price, \$4230
ATHERTON, San Mateo Co., Cal.
One-story and basement frame and stucco residence (5 rooms).

Owner—Nathan Koblick, % Perfection Cleaners, 3121 17th St., San Francisco.

Architect—Wm. I. Garren, 233 Post St., San Francisco.

Contractor—Harry Apte, 827 Arleta Ave., San Francisco.

Contract Awarded.

RESIDENCE Cost, \$5000
LAFAYETTE, Contra Costa Co., Cal.
One-story and basement adobe residence (6 rooms) Spanish type, tile roof, oil heating system, hardwood floors, tiled bath, steel sash, etc.

Owner—Harry Hindman, Lafayette.
Architect—Hardman & Russ, Berkeley Bank Bldg., Berkeley.

Contractor—C. E. Lichens, Walnut Creek.
As previously reported steel sash contract awarded to the Fenestra Constr. Co., 63rd and Doyle Sts., Oakland.

Contract Awarded.

RESIDENCE Cost, \$7000
SAN FRANCISCO. North Point St., bet. Buchanan and Webster Sts.

Two-story and basement frame and stucco residence (8 rooms and 2 baths); composition and slate or terra cotta tile roof, gas heating system, tiled baths, ornamental iron, canvas walls, oak floors, etc.

Owner—T. C. Ryan, 1915 Green St., San Francisco.

Plans by Paul A. Ryan, 1915 Green St. F. F. Amandes, 1879 18th Ave. Associate Architect.

Supt. of Constr.—Chas. E. Soules, 159 Brighton St.

SAN FRANCISCO—Balboa Paint Co. 2619 Balboa St., at \$394 awarded contract by Capital Company for painting interior and exterior of residence at 214 Santa Clara Ave., San Francisco.

Contract Awarded.

REMODEL RESIDENCE Cost, \$3500
PIEDMONT, Alameda Co., Calif. 350 Mountain Avenue.

Remodel residence (brick veneer, tile roofing, plastering, interior tile work, bath walls, etc.)

Owner—Earl B. Kilburn, 350 Mountain Ave., Piedmont.

Plans by Mr. Pickrell.

Contractor—J. H. Pickrell, 332 Santa Clara Ave., Alameda.

Sub-bids will be taken within a few days.

Construction Cancelled.

RESIDENCE Cost, \$—
PALO ALTO, Santa Clara Co., Calif.

Two-story and basement frame and siding residence (Colonial type; 9 rooms and 3 baths) wood shingle

roof, gas warm air heating system, tiled baths, hardwood floors.

Owner—Mrs. Annie B. Skinner, Palo Alto.

Architect—Douglas D. Stone, 110 Sutter St., San Francisco.

Construction Cancelled.

RESIDENCE Cost, \$10,000
SAN FRANCISCO. Hill and Sanchez Streets.

Two-story and basement frame and stucco residence (7 rooms and 2 baths) tile and composition roof, tile work, concrete work, plastering, millwork, glazing, etc.

Owner—H. L. Gerber, 3701 22nd St.
Architect—D. D. Stone, 110 Sutter St.

Contract Awarded.

RESIDENCE Cost, \$5000
ALAMEDA, Alameda Co., Calif. 2445 Roosevelt Drive.

One-story and basement frame and stucco residence (6 rooms).

Owner—E. Starr, 315 15th St., Oakland.

Architect—F. H. Slocombe, 131 Monte Cresta, Oakland.

Contractor—Harry C. Dwight, 315 15th St., Oakland.

To Be Done By Day's Work.

RESIDENCE Cost, \$4000
SAN FRANCISCO. W Ardenwood 118 N Sloat Blvd.

One-story and basement frame and stucco residence.

Owner and Builder—Standard Building Co., 218 Castaneda.

Plans by Owner.

Construction To Start Shortly.

RESIDENCES Cost, \$5000 each
SAN FRANCISCO. Vista Del Mar Tract.

Ten one-story and basement frame and stucco residences (5 rooms each); social hall, etc.; English, Spanish and French type.

Owner & Builder—Marian Realty Co., 1067 Market St., San Francisco.

Plans by Owner.

Mgr. of Construction—O. Russo, 1067 Market St., San Francisco.

Sub-Bids Wanted.

RESIDENCE Cost, \$9000
SAN FRANCISCO. Mountain Spring Ave. 125 W Glenbrook.

Two-story and basement frame and stucco residence (8 rooms and 2 baths) tile roof, stucco interior, gas warm air heating system. Congoleon materials for baths, tiled showers, etc.

Owner—C. D. Woodbury.

Architect—Harvey E. Harris, 33 San Fernando Way.

Contractor—Chas. A. Pratt, 270 Turk Street.

Bids are being received by the architect for plastering, gas heating system, plumbing, glass and glazing, painting, hardwood flooring and stone work.

Bids Rejected.

RESIDENCE Cost, \$6000
VALLEJO, Solano Co., Calif. Sacramento and Carolina Streets.

Two-story and basement frame and stucco residence (7 rooms and 2 baths) tile roof, gas hot air heating system, tiled baths and kitchen, hardwood floor, etc.

Owner—Withheld.

Architect—Chas. E. Perry, 514 Marin Ave., Vallejo.

Bids ran high and were rejected. Plans will be revised and new bids asked shortly.

Sub-Contracts Awarded.

RESIDENCE Cost, \$5000
SAN FRANCISCO. N Kensington Way 55 W Merced Street.

One-story and basement frame and stucco residence.

Owner—G. J. Zech, 333 Pine Street.
Architect—W. G. Merchant, Russ Bldg.

Contractor—J. Prout, 515 Magellan Avenue.

Concrete—California Conc. Co., 1632 Steiner Street.

Brick Work—John Tingberg, 666 Mission Street.

Lumber—Acme Lumber Co., 6th and Channel Streets.

Glass—Habenicht & Howlett, 529 Clay Street.

Plumbing—Scott Co., 243 Minna St.

Tile—Scott Co., 243 Minna St.

Wiring—Actna Elec. Co., 1435 Eddy St.

Tile Roofing—Fischer & Houts, 1252 Howard Street.

Iron Work—Michel and Pfeffer Iron Works, Harrison & 10th Sts.

Sub-Bids Being Taken.

RESIDENCE Cost, \$9500
OAKLAND, Alameda Co., Calif. Leimert Blvd.

Two-story and basement frame and stucco residence (9 rooms) Spanish type, tile roof, gas heating system, orn. iron, sheet metal, brick veneer, etc.

Owner—Not Given.

Plans by W. W. Dixon, 1844 Fifth Ave., Oakland.

Contractor—Wilmer Wright, 1198 98th Ave., Oakland.

Sub-bids will be taken on brick veneer, plumbing, electric wiring, plastering, sheet metal, orn. iron, etc.

Additional Sub-Contracts Awarded.

RESIDENCE Cost, \$8500
PIEDMONT, Alameda Co., Calif. 50 Wildwood Gardens.

Two-story frame and stucco residence.

Owner—H. H. Gerlach, 132 Palm Dr., Piedmont.

Architect—Not Given.

Contractor—J. F. Frey, 4718 Congress Ave., Oakland.

Hardware—Maxwell Hdwe. Co., 1320 Washington St., Oakland.

Ornamental Iron—Oakland Welding & Ornamental Iron Works, 3350 San Pablo Ave., Oakland.

Other awards previously reported.

Additional Sub-Contracts Awarded.

RESIDENCE Cost, \$6000
BERKELEY, Alameda Co., Calif. 1741 Sonoma Street.

Two-story frame and stucco residence (six rooms).

Owner—Sylvia E. Sodorberg, 2218 Browning St., Berkeley.

Plans by Theo. G. Ruegg, 1515 Taylor St., Berkeley.

Contractor—Emil Person, 829 San Luis Road, Berkeley.

Ornamental Iron—Ed Mueller, Ornamental Iron Works, 1050 Folger Ave., Berkeley.

Wiring—Geo. W. Woolf, 795 Alcatraz Ave., Oakland.

Steel Sash—Michel and Pfeffer Iron Works, 10th and Harrison Streets, San Francisco.

Tile—Rigney Tile Co., 3012 Harrison St., Oakland.

Rough Hardware—Berkeley Hardware Co., 2154 University Ave., Berkeley

Sub-bids are wanted on painting and roofing.

Sub-Bids Being Taken.

RESIDENCE Cost, \$8500
PIEDMONT, Alameda Co., Cal. Wildwood Gardens.

Two-story and basement frame and stucco residence (8 rooms) Spanish type, tile roof, gas hot air heating system, hardwood floors, wood sash, etc.

Owner—B. F. Lindgren.

Architect—Miller & Warnecke, Financial Center Bldg., Oakland.

Contractor—J. W. Monroe, 5538 Claremont Ave., Oakland.

15—SCHOOLS

Plans Being Prepared.
ADDITION Cost, \$—
AMBROSE, Contra Costa Co., Cal. (Four miles west of Pittsburg).
 One room addition to school building (frame and stucco construction).
 Owner—Ambrose School District.
 Architect—James Narbett, 466 31st St., Richmond.
 Plans will be completed in one week and work will probably be done by day's labor under the emergency act.

PORTERVILLE, Tulare Co., Cal.—Frank O. Sheldon, Porterville, at \$710 awarded contract by Porterville Elementary School District for painting Morton Street and Roche Ave. school houses. Only other bid was submitted by L. E. Eddy, Porterville, at \$926.

PORTERVILLE, Tulare Co., Cal.—Until Sept. 12, 4 P. M., bids will be received by E. M. Hammond, Clerk, Porterville Elementary School Dist., for the installation of a furnace at the Morton Street school house. All bids previously taken were rejected. Plans and specifications available at 420 Main St., Porterville, and at the office of Architect W. D. Coates, Jr., 626 Rowell Bldg., Fresno.

SANTA ROSA, Sonoma Co., Calif.—Following bids received by Santa Rosa District Junior College for fencing the athletic field of the Santa Rosa Junior College:
 Michel & Pfeffer, S. F. \$2,479.54
 Trask & Squires, S. F. 2,479.54
 Standard Fence Co., S. F. 2,530.00
 Crown Fence Co., S. F. 2,599.76
 Anchor Post Fence, S. F. 2,652.00
 Santa Rosa Bldg. Mfg. Co. 2,721.49
 Kamlan Fence Co., S. F. 2,803.38
 Two low bids held under advisement

VANCOUVER, Wash.—Until Aug. 22 bids will be received by Vancouver School District for excavation work in connection with the new school to be erected in Vancouver. Estimated cost of building, \$153,000. Bonds in the amount of \$75,000 have been sold to the State of Washington.

Additional Contracts Awarded.
ADDITION Cost, \$18,000
OAKLAND, Alameda Co., Cal. Seminary Ave. and Camden St.
 Reinforced concrete addition to college building (art gallery, 2 classrooms library and offices) tile roof, 22-ft. walls, etc.
 Owner—Mills College, Seminary Ave. and Camden St., Oakland.
 Architect—W. H. Ratcliff, Jr., Chamber of Commerce Bldg., Berkeley.
Shades—Tri-City Window Shade Co., 1127 Third St., Oakland.
Friar's Cloth—D. N. & E. Walter Co., 562 Mission St., San Francisco.
 Landscaping and painting will be done by day's labor under the supervision of Mr. John G. Brown, Mills College, Oakland. Other awards reported July 28.

SAN FRANCISCO—J. N. J. Firebrick Construction Co., 476 Stevenson St., at \$740 awarded contract by Department of Public Works for re-bricking fuel box, boiler No. 1, Galileo High School.

SAN FRANCISCO—Empire Roofing Co., 4225 Army St., at \$46 submitted low bid to Department of Public Works for five-ply tar and gravel roof over girls' showers at the Galileo High School. Following bids received:
 Empire Roofing Co. \$46.00
 Alta Roofing Co. 47.75
 J. W. Bender Roofing Co. 50.00
 United Roofing Co. 53.00
 Bids held under advisement.

Prospective Bidders.
SCHOOL Cost, \$4500
EMIGRANT GAP, Placer Co., Cal.
 One-story wood frame grammar school building (1 classroom) rustic exterior, shingle roof, maple floors, etc.
 Owner—Emigrant Gap School District
 Architect—W. E. Coffman, Forum Bldg., Sacramento.
 Following have procured plans. Bids open August 19, 7:30 P. M.
 J. R. Wolert, Truckee.
 Charles Petersen, 2939 24th St., Sacramento.
 A. F. Anderson, Sacramento.
 Chas. McLeod, Auburn.
 W. J. Davies and E. J. Reesc, 4865 10th Ave., Sacramento.

Contract Awarded.
REPAIRS Cont. Price \$14,030
ALBANY, Alameda Co., Cal. Marin Avenue.
 Repairs to grammar school (add auditorium, alter classrooms, frame construction, reinforced concrete walls with steel columns, concrete and steel trusses, addition to steam heating system, maple flooring, composition roof, etc.)
 Owner—Albany City School District.
 Architect—P. L. Dragon and C. R. Schmidts, 3016 Telegraph Avenue, Berkeley.
 Contractor—C. M. Norgrove, 2220 Roosevelt St., Berkeley.

16—BANKS, STORES AND OFFICES

Contract Awarded.
ADDITION Cost, \$40,000
BEVERLY HILLS, Los Angeles Co., Cal. Canon Drive and Santa Monica Blvd.
 Two-story reinforced concrete addition to bank building (plastered exterior, clay tile and composition roof, orn. iron, steel sash, concrete floors, gas heating system, walnut paneling, etc.)
 Owner—Security-First National Bank of Los Angeles.
 Architect—Morgan, Walls & Clements, Van Nuys Bldg., Los Angeles.
 Contractor—George Holstein, Jr., 9713 Santa Monica Blvd., Beverly Hills.

Plans Being Completed.
REBUILD STORE Cost, \$15,000
TURLOCK, Stanislaus Co., Cal. Main and Center Streets.
 Rebuild one-story brick store (recently destroyed by fire).
 Owner—E. B. Osborne, Turlock.
 Architect—G. N. Hilburn, 1312 I St., Modesto.
 Bids will be asked in about ten days.

Contract Awarded.
ALTERATIONS Cost, \$1925
SAN FRANCISCO. No. 920 Market Street.
 Alterations to restaurant.
 Owner—A. Valssis, 920 Market St., San Francisco.
 Plans by Mullen Mfg. Co.
 Contractor—Mullen Bfg. Co., 60 Rausch St., San Francisco.

Sub-Bids Being Taken.
LIBRARY Cost, \$4500
OAKLAND, Alameda Co., Cal. No. 724 14th Street.
 One-story Class C library.
 Owner—Oakland Jewish Federation, 724 14th St., Oakland.
 Architect—Not Given.
 Contractor—F. A. Muller, Syndicate Bldg., Oakland.

Sub-Contracts Awarded.
STORES & APTS. Cost, \$4500
BERKELEY, Alameda Co., Cal. NW Shattuck Ave. and Vine St.
 Two-story frame and stucco store and apartment building.

Owner—George Leo.
 Architect—Not Given.
 Contractor—Leslie C. Dawe, 1629 Telegraph Ave., Oakland.
Concrete—John Devoto, 5286 Lawton Ave., Oakland.
Brick—Henry Koenig, 4418 Ygnacio Ave., Oakland.
Plumbing—Golden Gate Plumbing Shop, 5994 San Pablo Ave., Oakland.
Lumber and Millwork—Tilden Lumber Co., Foot of University Ave., Berkeley.
Roofing—Western Roofing Co., 24th and Poplar Sts., Oakland.
Sash and Doors—Hagar Sash & Door Co., 1290 Cedar St., Berkeley.
Heating—Aarvaks Heating Appliance Co., 2313 Valley St., Berkeley.
Plastering—R. H. Parrish, 1958 81st Ave., Oakland.
 Sub-bids are being taken on electric wiring and fixtures.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$4000
VALLEJO, Solano Co., Cal.
 Alterations to two-story and basement brick store and office building.
 Owner—J. Dukas.
 Plans by Unit Built Fixture Co.
 Contractor—Unit Built Fixture Co., (Leo Roselyn), 963 Harrison St., San Francisco.
Carpentry—G. Mollinson, Vallejo.
Tile Work—Art Tile & Mantel Co., 221 Oak St., San Francisco.
Plastering—Ed. Heywood, 1375 44th Ave., San Francisco.
Magnasite—Hoaglund & Skuse, 577 Market St., San Francisco.
Glass—Vallejo Glass Co., Vallejo.

Contract Awarded.
DAIRY & OFFICES Cost, \$—
EUREKA, Humboldt Co., Cal. Ninth St., bet. H and I Sts.
 Two-story frame and stucco dairy and office building (concrete floors, modern dairy equipment, concrete foundations, etc.)
 Owner—White City Dairy (Chris. Christensen, owner), Eureka.
 Architect—Not Given.
 Contractor—S. H. Rylander, Arcata.

Planned.
REMODEL STORE Cost, \$—
SALINAS, Monterey Co., Cal. Main and Alisal Sts.
 Remodel store building (new fixtures and equipment, etc.)
 Owner—Not Given.
 Plans by Engineering Dept. of Lessee
 Lessee—Montgomery Ward & Co., Chicago, Ill.

Additional Sub-Contracts Awarded.
MARKET Cost, \$17,000
SAN FRANCISCO. Polk Street 100 S Vallejo Street.
 One-story and mezzanine floor reinforced concrete market.
 Owner—Samuel Levin, 25 Taylor St., San Francisco.
 Engineer—H. C. Britt, % Henslee Corporation.
 Lessee—Henslee Corp., 366 17th Street, Oakland.
 Contractor—H. L. Petersen, 731 Treat Ave., San Francisco.
Structural Steel—Golden Gate Iron Works, 1541 Howard St., S. F.
Plumbing—Scott Co., 243 Minna St., San Francisco.
Painting—A. A. Zelinsky, 4420 California St., San Francisco.
Sheet Metal—Sheet Metal Service, 213 Octavia St., Oakland.
Concrete—Readymix Concrete Co., Carolina and Mariposa Sts., San Francisco.
Roofing—J. W. Bender Roofing Co., 18th and Bryant Sts., S. F.
 As previously reported, reinforcing steel awarded to Concrete Engr. Co., 1280 Indiana St.; plastering to Marconi Plastering Co., 1737 Beach St.

Contract Awarded.
REMODEL CAFE Cost, \$15,000
SAN FRANCISCO. No. 2555 Great Highway.

Remodel cafe (wiring, plumbing, plastering, painting, decorating, etc.) Tait's-at-the-Beach)
 Owner—Wellsbein Bros., 582 Market St., San Francisco.
 Architect—S. Heiman, 605 Market St., San Francisco.
 Contractor—Theo. Cohn, Russ Bldg., San Francisco.

Additional Sub-Contracts Awarded.
ALTERATIONS Cost, \$5000
ALAMEDA, Alameda Co., Cal. Park Street and Santa Clara Avenue.
 Alterations to one-story frame store building.

Owner—E. M. Shaw.
 Architect—H. A. Minton, 525 Market St., San Francisco.
 Contractor—Leslie E. Alley, 1621 Encinal Ave., Alameda.
 Plastering—William Makin, 354 Hobart St., Oakland.
 Roofing—Western Roofing Co., 24th and Poplar Sts., Oakland.
 Painting—Asa French, 1024 Pearl St., Alameda.
 Materials—Pacific Coast Aggregates, Inc., 2500 Peralta St., Oakland.
 Other awards previously reported.

Planned.
OFFICES Cost, \$—
YREKA. Siskiyou Co., Cal.
 Office building and shop.
 Owner—California Oregon Power Co., Yreka.
 Architect—Not Given.

Contract Awarded.
ALTERATIONS Cost, \$2000
SAN FRANCISCO. No. 135 Gough St.
 Alterations to rooming house and stores.
 Owner—Mrs. Lofgren, 2572 24th St., San Francisco.
 Architect—Not Given.
 Contractor—T. J. Broderick, 1523 Cypress St., Burlingame.

Plastering Contract Awarded.
STORES Cost, \$11,500
SAN FRANCISCO. W Ninth Street 166 S Mission Street.
 One-story and mezzanine floor Class C reinforced concrete store building (tar and gravel roof, gas heating system, concrete and wood floors, etc.)
 Owner—L. Meyers, 68 Post St., San Francisco.
 Architect—Hyman & Appleton, 68 Post St., San Francisco.
 Contractor—Jacks & Irvine, Call Bldg., San Francisco.
 Plastering—J. H. Martinelli.
 As previously reported, steel sash and reinforcing bars awarded to Trucon Steel Co., Call Bldg.

Completing Plans.
BUILDING Cost, \$15,000
FRESNO, Fresno Co., Cal. N Fulton St. near Sumner Ave.
 Two-story concrete, frame and stucco medical office building (70x80 ft.) 20 rooms and five-room apartment (flat composition roof, gas heating system, etc.)
 Owner—Dr. Roscoe F. Wallace, Fresno
 Architect—Chas. E. Butner, Cory Bldg., Fresno, and Glikberg Bldg., Salinas.
 Bids will be asked within two weeks

Sub-Bids Wanted.
ALTERATIONS Cost, \$1000
SAN FRANCISCO. Trinity Alley and Sutter Street.
 Alterations to loft building.
 Owner—University of California.
 Plans by Engineering Dept. of Owner.
 Construction—Clinton-Stephenson Constr. Co., 550 Montgomery St., San Francisco.

Sub-bids are wanted on painting, plastering and glass work.

Plans Being Figured.
STORES & OFFICES Cost, \$30,000
CROCKETT, Contra Costa Co., Cal.
 Two-story and basement reinforced concrete and structural steel store and office building (composition roof, steel sash, steam heat, etc.)
 Owner—L. Valli, Crockett.
 Architect—Chas. E. Perry, 514 Marl Ave., Vallejo.

Bids are being taken from a selected list of contractors.

Sub-Contracts Awarded.
STORE ALTERATIONS Cost, \$6000
BURLINGAME, San Mateo Co., Cal.
 Burlingame Ave. and California Drive.
 Alterations to reinforced concrete store.
 Owner—Pacific States Savings & Loan Association.
 Architect—H. A. Minton, 525 Market St., San Francisco.
 Contractor—G. W. Williams Co., Ltd., 315 Primrose Road, Burlingame.
 Mill Work—Pacific Mfg. Co., Santa Clara.
 Electric—Mausser Electric Co., 206 Lorton Ave., Burlingame.
 Store Fronts—Fuller Glass Co., 301 Mission St., San Francisco.
 Lumber—Wisnom Lumber Co., 1000 Broadway, Burlingame.
 Plumbing—H. Lauder, 218 Lorton Ave., Burlingame.

Sub-Contracts Awarded.
LIBRARY Cost, \$4500
OAKLAND, Alameda Co., Cal. No. 724 Fourteenth Street.
 One-story Class C library.
 Owner—Oakland Jewish Federation, 724 14th St., Oakland.
 Architect—Not Given.
 Contractor—F. A. Muller, Syndicate Bldg., Oakland.
 Structural Steel—Judson-Pacific Co., Foot of Park Ave., Emeryville.
 Reinforcing Steel—W. S. Wettenhall, 17th and Wisconsin Sts., S. F.
 Plastering—Vincent Fatta, 5558 Claremont Ave., Oakland.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$2000
BERKELEY, Alameda Co., Cal. San Pablo Ave. and Hopkins St.
 Interior alterations to market.
 Owner—Not Given.
 Architect—Not Given.
 Contractor—John Faramia, 827 Madison St., Albany.
 Concrete—P. Barale, 123 E-15th St., Oakland.
 Plumbing—Suendermann Plumbing Co., 921 University Ave., Berkeley.
 Lumber—Hill Lumber & Hardware Co., Brighton and Alamo Streets, Berkeley.

17—THEATRES

Planned.
REPAIR THEATRE Cost, \$3000
WOODLAND, Yolo Co., Calif.
 Repair fire damage to theatre (replace machine equipment, drapes, sound insulators, ventilating system etc.)
 Owner—William Cornwell, Woodland.
 Architect—Not Given.

Additional Sub-Contracts Awarded.
ALTERATIONS Cost, \$30,000
OAKLAND, Alameda Co., Cal. No. 1430 Broadway.
 Alterations to Century Theatre.
 Owner—Golden State Theatre Corp., 25 Taylor St., San Francisco.
 Architect—Meyer & Jorgensen, 525 Market St., San Francisco.
 Contractor—A. J. Hopper, 1769 Pleasant Valley Road, Piedmont.
 Ornamental Iron—Frauneder Orna-

mental Iron Works, 335 8th St., Oakland.

Sash—Western Door & Sash Co., 5th and Cypress Sts., Oakland.

Being Done By Day's Work.
REPAIR THEATRE Cost, \$3000
WOODLAND, Yolo Co., Cal.
 Repair fire damage to theatre (replace machine equipment, drapes, sound insulators, ventilating system, etc.)
 Owner—William Cornwell, Woodland.
 Architect—Not Given.
 Work is being done by local contractors under owner's supervision.

18—WHARVES & DOCKS

STOCKTON, San Joaquin Co., Cal.
 —Geo. W. Jacobs, 845 West Magnolia St., Stockton, at \$1184.20 submitted low bid August 14 to City Port Commission to furnish and install floating fenders for Wharves 2, 3 and 4, Stockton Deep Water Development, Stockton. Complete bids follow:
 *Geo. W. Jacobs.....\$1184.20
 C. A. Lauritzen, Pittsburg..... 1725.00
 P. Sinnock, Piedmont..... 1989.00
 John Hackman, Stockton..... 2250.00
 *No certified check was submitted with Mr. Jacob's bid; Commission may disregard his bid and award contract to Lauritzen.

SAN LUIS OBISPO, Cal.—Plans are being prepared and bids will be called shortly by U. S. Lighthouse Service, Capt. H. W. Rhodes, Superintendent, to construct a wharf at San Luis Obispo; estimated cost, \$8000.

LOS ANGELES, Cal.—Plans are being prepared and bids will be called shortly by U. S. Lighthouse Service, Capt. H. W. Rhodes, Superintendent, to construct a wharf at Los Angeles Harbor; estimated cost \$20,000.

19—MISC. CONSTRUCTION

SAN DIEGO, Cal.—The San Diego Conservation Co will apply for funds in the amount of \$150,000 under the National Recovery Act to construct a garbage dehydrating plant in San Diego. The company will enter into a contract with the City and County of San Diego for a 25-year period.

Plans Being Prepared.
RACE TRACK Cost, \$750,000
SAN FRANCISCO or **SAN MATEO.**
 Site To Be Selected.
 Race Track.
 Owner—Charles Strub and associates, Seals Stadium, 6th and Bryant, San Francisco.
 Architect—Miller & Pfeuger, 580 Market St., San Francisco.

A permit has been applied for to the State Racing Commission to operate. Associated in the racing enterprise are:

Peix McGinnis, Cliff Weatherwax, Roger Lapham and Harry Young, all of San Francisco. Further details will be announced when the permit is granted.

Four sites are under consideration, two in San Francisco and two in San Mateo.

WATSONVILLE, Santa Cruz Co., Cal.—Wm. Reid, 276 Main St., Watsonville, at \$69 awarded contract by city council to clean and remove all rust from electroliers of the City of Watsonville and paint some, paint supplied by city. Only other bid submitted by Jack Seekins, Watsonville, at \$133.

WEST LOS ANGELES, Cal.—Until Sept. 7, 2:30 P. M., bids will be received by the Supervising Superintendent of Construction, Veterans' Administration, Fort Miley, San Fran-

cisco, for furnishing and installing automatic wet pipe fire sprinkling system in warehouse and shop building at the Veterans' Administration Facility, West Los Angeles. Plans and specifications available from above office.

Contract Awarded.
LIBRARY Cost, \$65,000
LOS ANGELES, Cal. Westlake Ave. N Wilshire Blvd.
 Three-story Class A concrete library and auditorium (50x100 ft.) steel sash, steel book stacks, dumbwaiter, steam heat and air conditioning systems, etc.; stage, reading and periodical rooms.
 Owner—Los Angeles County Medical Assn. (Dr. Harry Wilson, Secty.)
 Architect—Gordon B. Kaufmann, Union Bank Bldg., Los Angeles.
 Contractor—Wm. Simpson Const. Co., Architects' Bldg., Los Angeles.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$4186
OAKLAND, Alameda Co., Calif. NE Thirteenth and Washington Sts.
 Alterations and additions to one- and two-story building (50x100 ft.)
 Architect—Edw. T. Foulkes, 357 12th St., Oakland.
 Owner—Blanche Boardman Porter.
 Contractor—W. C. Cone, 1744 Broadway, Oakland.
Plumbing—Scott Co., 113 10th Street, Oakland.
Ornamental Iron Work—C. Frauneder
 Orn. Iron Works, 335 8th Street, Oakland.
Electric—T. L. Rosenberg Co., 411 Webster St., Oakland.
Sheet Metal—East Bay Sheet Metal Works, 1101 Market St., Oakland.
Plastering—Wm. Makin, 354 Hobart

SAN FRANCISCO—Until August 21, 3 P. M., under Circular Proposal No. 34-8, bids will be received by U. S. Engineer Office, 401 Custom House, San Francisco, to overhaul two Hall-Scott Marine Engines. Specifications obtainable from above office.

SAN FRANCISCO—L. Schaffer & Co., 366 10th St., San Francisco, at \$220.35 submitted low bid to U. S. Engineer Office, 401 Custom House, San Francisco, for repair work to dredge as follows:
 (1) Build up tips of 4 blades of the semi-steel propeller wheel of the dredge "San Pablo";
 (2) Build up pump shaft of the dredge "Mackenzie" with hard facing.
 Complete bids follow:
 L. Schaffer & Co., (1) \$135.35; (2) \$85.
 John G. Ills & Co., \$200; \$60.
 Pacific Coast Eng. Co., \$168; \$128.
 Brown Bros., \$265; \$90.
 Golden State Iron Works, \$276.59; \$40.40.
 Neptune Machinery Works, \$275; \$84.
 General Eng. & D. D. Co., \$275; \$96.
 Bids held under advisement.

August 17, 1933
 Plans Being Completed.
RECREATION BLDG. Cost, \$6500
SAN FRANCISCO. No. 229 Minna Street.
 Recreation building for St. Patrick's Shelter (steel frame Class C, brick construction).
 Owner—St. Patrick's Shelter (Mon. Ryan in charge).
 Architect—Arnold Constable, 580 Market St., San Francisco.
 Bids will be asked about August 21.

BERKELEY, Cal.—J. A. Johnson (J. N. J. Firebrick Const. Co.) 475 Stevenson St., San Francisco, at \$2,432 awarded contract by Regents of the University of California for replacement of incinerator in the Life Sciences Building, Berkeley.

SAN FRANCISCO—D. C. McCabe, 74 New Montgomery St., at \$385.96 submitted low bid August 16 to Department of Public Works to construct concrete stairs on the south sidewalk of Waller St. between Buena Vista Ave. and Boderick St. Complete bids follow:
 D. C. McCabe \$385.96
 M. J. Lynch 418.00
 Love & Haun 429.00
 E. J. Treacy 456.00
 J. T. Tobin 535.00
 A. C. Anderson 673.00
 Bids held under advisement.

SAN FRANCISCO—L. Schaffer and Co., 366 Tenth St., at \$220.35 awarded contract by U. S. Engineer Office, San Francisco, for repair work to dredges.

WASHINGTON, D. C.—As previously reported, John S. Heilmann, 2703 21st St., San Francisco, at \$18,698 submitted low bid to Treasury Department for retaining walls, roadway etc., at the U. S. Marine Hospital, San Francisco. Following is a complete list of the bids:
 John S. Heilmann, S. F. \$18,698
 Theodore Cohn, S. F. 19,456
 E. J. Treacy, S. F. 19,596
 C. L. Wold Co., S. F. 19,677
 Clinton Const. Co., S. F. 20,400
 MacDonald & Kahn, S. F. 21,997
 Barrett & Hilp, S. F. 22,689
 Fay Imp. Co., S. F. 26,366
 Chas. L. Harney, S. F. 27,869
 P. L. Burr, S. F. 28,450

OAKLAND, Cal.—Until Sept. 5, 7:30 P. M., bids will be received by R. W. Robertson, Secretary, Board of Playground Directors, for surfacing tennis courts in Lakeside Park. Specifications and form of proposals available from secretary, room 315, City Hall, Oakland.

SEATTLE, Wash.—Until August 23, bids will be received by Custodian, Seattle, Federal Office Bldg., Room 35, for grading and landscaping at the Marine Hospital, Seattle. Plans and specifications available from the above office.

OREGON STATE—Following projects included in \$1,350,000 appropriation of forest highway funds:
 North Santiam, grade, 3 miles, \$120,000.
 South Santiam, grade, 8 miles, \$170,000.
 Cascade Lakes, surface, 5.5 miles, \$75,000.
 Weston-Elgin, grading, \$100,000.
 Willamette highway, grade, \$150,000.
 Tiller-Trail, sub-base, 2 miles, \$35,000.
 Hebo-Dolphin, reconstruct, 10 miles, \$185,000.
 Diamond Lake, surfacing, 24 miles, \$200,000.
 Imnaha, bridges, \$30,000.
 Euchre creek section, Oregon Coast Highway, oil, 20 miles, \$50,000.
 Glenada - Gardner Section, Oregon Coast highway, oil, 19.6 miles, \$40,000.
 Berry Creek - Lincoln Lnie Section, Oregon Coast Highway, oil, 12 miles, \$35,000.
 Wapinitia and Mt. Hood Leap, oil, 10 miles, \$35,000.
 Maintain existing highways, \$75,000.
 Surveys, \$35,000.

SACRAMENTO, Cal.—Sterling Elec. Co., 907 8th St., at approximately \$1500 awarded contract by the Capitol Clothing Co., 712 K St., for furnishing and installing sign at 916 K St., Sacramento.

SAN FERNANDO, Los Angeles Co., Cal.—The City of San Fernando has applied to the Federal Emergency Administration of Public Works for

\$82,304, for street improvements and storm drain construction as follows:
 Improving Celis St., SE city limits to NW city limits, estimate, \$19,554.
 Improving North Brank Boulevard, from 5th St. to NE city limits, estimate, \$14,570.
 North Maclay Ave. from 5th St. to NE city limits, involving widening 20 ft. strip on each side, cement concrete pavement; estimate, \$34,560.
 Construct storm drain from Southern Pacific Railway right-of-way south through easements to connect with existing drain at Hollister St., estimate, \$13,620.

SAN FRANCISCO—Pacific Elevator & Equipment Co., 45 Rausch St., at \$8466 submitted low bid to Department of Public Works, for new passenger elevator in the Civic Auditorium for the Board of Education. Following bids received:
 Pacific Elev. & Equip. Co. 8,466
 Westinghouse Elec. Elev. Co. 9,220
 Otis Elevator Co. 11,780

Bronze and Art Glass Bids Being Taken.
MAUSOLEUM Cost, \$4500
COLMA, San Mateo Co., Cal. Cypress Lawn Cemetery.
 Concrete mausoleum (marble exterior and interior).
 Owner—James M. McDonald.
 Architect—S. Heiman, 605 Market St., San Francisco.
 Contractor—Georgia Marble Co., 605 Market St., San Francisco.

Bronze and Art Glass Bids Being Taken.
MAUSOLEUM Cost, \$9500
PETALUMA, Sonoma Co., Cal.
 Concrete mausoleum (marble interior and exterior, bronze doors, art glass, etc.)
 Owner—Mr. Maggetti.
 Architect—S. Heiman, 605 Market St., San Francisco.
 Contractor—Georgia Marble Co., 605 Market St., San Francisco.

Plans Being Figured—Bids Close Aug. 21, 12 Noon.
ROOF DECK Cost, \$6000
OAKLAND, Alameda Co., Cal. Seventh and Kirkham Sts.
 Steel frame and concrete roof deck over open driveway.
 Owner—Golden West Brewery Co.
 Architect—A. R. Williams, Humboldt Bank Bldg., San Francisco.
 Engineer—W. Adrian, 417 Market St., San Francisco.

20—MISC. SUPPLIES AND MATERIALS

SACRAMENTO, Cal.—Daugherty Lumber Co., Cottage Grove, Oregon, awarded contract by U. S. Engineer Office, Sacramento, to furnish Douglas fir piles.

LOS ANGELES, Cal.—John A. Roebing Sons Co., awarded contract by the Board of Directors of the Metropolitan Water District August 11, at \$35,750 or \$715 per M. ft. for furnishing 50,000 ft. of rubber insulated metal armored cable. Bid No. 13,209.

PANAMA CANAL ZONE—Until Aug. 25, 10:30 A. M., under Schedule No. 2893, bids will be received by the General Purchasing Officer, Panama Canal Zone, Washington, D. C., to furnish equipment for craneship "Atlas," involving one centrifugal sand pump, 12-inch suction and discharge, and one towing machine, motor driven, non-automatic. Specifications obtainable from above office.

LOS ANGELES, Cal.—Bids for furnishing and delivering to Water and Power Department f.o.b. bidder's shipping point overhead ground wire under Specifications No. 3175 opened by A. J. Holm, City Purchasing Agent August 9. The items were:

- (1) 2,435,000 ft. ½-in. extra galvanized, high strength steel wire strand;
- (2) 2,435,000 ft. ½-in. extra galvanized, high strength steel wire strand;
- (3) 430,000 ft. copper covered steel wire strand.

The above ground wires are intended to be used on department's power transmission line extending from Boulder Canyon Dam Power house to Los Angeles, a distance of 270 miles. Deliveries of the items are to be made as follows:

Item No. (1), deliveries to begin March 1, 1934, and continue at a uniform monthly rate so as to effect complete delivery by June 1, 1934.

Item No. (2), deliveries to begin June 1, 1934, and continue at a uniform monthly rate so as to effect complete delivery by Sept. 1, 1934.

Item No. (3), deliveries to begin Sept. 1, 1934, and continue at a uniform monthly rate so as to effect complete delivery by December 1, 1934.

The bids, showing prices per M feet, were as follows:

Joslyn Co. of Calif.—(1) and (2) \$26.54, (3) no bid. Terms, 2% 20 days

E. H. Edwards Co.—(1) and (2) \$33.19, (3) no bid. Terms, 2% 30 days; 2% discount for combined awards on items (1) and (2).

Copperweld Steel Co.—(1) and (2) no bid, (3) \$83.37. Terms net.

John A. Roeblings Sons Co.—(1) and (2) \$35.50, (3) no bid. Terms, % 30 days.

Columbia Steel Co.—(1) and (2) \$29.98, (3) no bid. Terms, 2% 20 days
Anaconda Wire & Cable Co.—(1) and (2) no bid, (3) \$128.28. Terms, ½ of 1% 10 days.

Graybar Electric Co.—(1) and (2) \$35.99, (3) no bid. Terms, 2% 20 days.
Alt., zinc coat, (1) and (2) \$31.39, (3) no bid. Terms, 2% 30 days.

Pacific Wire Rope Co.—(1) and (2) \$32.45, (3) no bid. Terms, 2% 30 days.

OAKLAND, Cal.—Western Steel & Wire Co., 439 Bryant St., San Francisco, at \$2710 submitted low bid August 11 to East Bay Municipal Utility District to furnish:

- (1) 3000 lin. ft. 2-in. mesh 72-in. high No. 9 ga. chain link fence, copper-bearing wire;
- (2) 240 H columns copper-bearing line posts, 2¼-in., 8-ft. 8-in. long, galv. weight 4.1 lbs. per lin. ft.,
- (3) 24 gate posts, 3-in. tubular gates, galv. copper-bearing steel, 10 ft. long, weight not less than 5.79 lbs. per lin. ft.;
- (4) 6000 ft. No. 7 ga. spring coil tension wire with turnbuckle at each terminal;
- (5) 9000 ft. 4 point No. 12½ ga. galv. Aster weaving barbed wire with barbs placed 4-in. apart.

Complete bids follow:

Western Steel & Wire Co., San Francisco	\$2710
West Coast Wire & Iron Co.	2950
Standard Fence Co.	2950
California Ornamental Wire Co.	2950
Stewart Iron Works	2950
Crown Fence & Supply Co.	3009
Pacific Coast Fence Co.	3050
Anchor Post Fence Co.	3068
California Wire Cloth Co.	3127
Kamlan Fence Co.	3186
Michel & Pfeffer Iron Works....	3245
Earnes Bros. Iron Works.....	
..... (informal bid)	

SAN JOSE, Santa Clara Co., Cal.—Until Sept. 12, 8 P. M., bids will be received by Walter L. Barcroft, Secretary, Board of Education, to fur-

nish fuel oil for the School Department for the school year 1933-34. Specification obtainable from office of the city superintendent of schools.

OAKLAND, Cal.—American Smelting & Refining Co. (with Federated Metals Corp.) 201 First St., San Francisco, at \$2250 awarded contract by East Bay Municipal Utility District, Oakland, to furnish 30 tons of copper sulphate.

OAKLAND, Cal.—Until Aug. 25, 8 P. M., bids will be received by John H. Kimball, secretary, East Bay Municipal Utility District, 512 16th Street Oakland, to furnish 1200 tons aluminum sulphate under Bid No. 489. Specifications obtainable from above office.

OAKLAND, Cal.—Until August 25, 8 P. M., bids will be received by John H. Kimball, Secretary, East Bay Municipal Utility District, 512 16th St., Oakland, to furnish 100,000 gallons emulsified asphalt under Specifications No. LS-113, obtainable from above office

LOS ANGELES, Cal.—Concrete Engineering Co., 1450 Mirasol St., awarded contract by D. P. Nicklin, Purchasing Agent, Water and Power Bureau, August 12 for reinforcing steel under Specifications No. 1624.

LOS ANGELES, Cal.—Oil Well Supply Co. awarded contract by Saul A. Joseph, Purchasing Agent of the Metropolitan Water District, for couplings at \$2033.79 f.o.b. Indio.

LOS ANGELES, Cal.—Concrete Engineering Co. awarded contract by A. J. Holm, City Purchasing Agent, Aug. 10, at \$55,667.85 (estimated total) for furnishing Water & Power Department with structural grade reinforcing steel and black annealed tie wire under items (1-Alt.), (2) (3) and (4). Specifications No. 3173. The bids were opened August 2.

LOS ANGELES, Cal.—Until 2 P. M., Spt. 5, bids will be received by County Supervisors for supplying reinforcing steel for outlet tunnels of San Gabriel Dam No. 1. The material, amounting to 648,800 lbs. is to be furnished f.o.b. district freight yard, Azusa. The items are:

- (1) 103,400 lbs. 1-in. square deformed;
- (2) 163,900 lbs. 1-in. round do;
- (3) 175,000 lbs. ¾-in. do do;
- (4) 75,000 lbs. ¾-in. do do;
- (5) 35,000 lbs. ½-in. do do;
- (6) 1,000 lbs. ½-in. square do;
- (7) 85,000 lbs. ½-in. round;
- (8) 10,000 lbs. ¾-in. do;
- (9) 500 lbs. ¼-in. do

E. C. Eaton, Flood Control Engineer, 202 N. roadway. Mame B. Beatty, 501 Hall of Records, Clerk of the Board.

LOS ANGELES, Cal.—John A. Roebling Sons Co., 216 S. Alameda St. Los Angeles, awarded a contract by Metropolitan Water District on Aug. 14, at \$35,571.25 for furnishing armored cable under Bid No. 13209.

FRESNO, Cal.—Until Aug. 24, 11 A. M., bids will be received by H. S. Foster, City Clerk, to furnish gasoline for a one-year period from Nov. 26. Specifications obtainable from above office. Certified check 10% required with bid.

PANAMA CANAL ZONE.—Until Aug. 23, 10:30 A. M., under Schedule No. 2894, bids will be received by the General Purchasing Officer, Panama Canal Zone, Washington, D. C., to furnish miscellaneous supplies and

equipment, including: gasoline engine, coil chain, twist drills, bolt dies, shovels, spades, saws, tinners' snips, cold chisels, hoes, forks, rakes, scythe snaths, brass machine screws, sash chain, chain links, stamping letters, water gauges, ship glue, cup grease, cutting oil, liquid bronze, zinc anodes, oil testing sets, cable, magnet wire, door edging, office pine, metal card holders, etc. Specifications obtainable from above office.

LOS ANGELES, Cal.—E. C. Eaton, County Flood Control Engineer, has completed specifications for reinf. steel for construction of tunnels at San Gabriel dam. The material, amounting to 648,800 lbs. is to be furnished f.o.b. district freight yard, Azusa. The items are:

- (1) 103,400 lbs. 1-in. square deformed;
- (2) 163,900 lbs. 1-in. round deformed;
- (3) 175,000 do, ¾-in. do;
- (4) 75,000 lbs. ¾-in. do;
- (5) 35,000 lbs. ½-in. do;
- (6) 1000 lbs. ½-in. square deformed;
- (7) 85,000 lbs. ½-in. round;
- (8) 10,000 lbs. ¾-in. do;
- (9) 500 lbs. ¼-in. do.

SAN FRANCISCO.—Until August 22, 2 P. M., bids will be received by U. S. Forest Service, Ferry Bldg., for:

- (1) 27000 sq. yds. linoleum;
- (2) 3050 sq. yds. unsaturated deadening felt;
- (3) 68 5-gal. cans linoleum paste;
- (4) 27, 1-gal. cans do;
- (5) 6100 sq. yds. fiberized mastic floor covering;
- (6) 128 5-gal. cans bit. cement.

Materials to be delivered at Pasadena and Government Island, Alameda.

LOS ANGELES, Cal.—Until 11 A. M., August 21, bids will be received by A. J. Holm, City Purchasing Agent, 107 City Hall, for furnishing and delivering to Water & Power Dept., f.o.b. locations shown below. ¼-inch. hot rolled black copper rod on reels of approximately 4000 lbs. each, under Specifications No. 3200. The bids will be taken as follows:

- (1) 164,000 lbs. rod, f.o.b. cars, Boulder City, Nevada;
- (2) 156,000 lbs. rod, f.o.b. cars, Jean, Nevada;
- (3) 240,000 lbs. rod, f.o.b. cars, Silver Lake, Calif.;
- (3-Alt.) 240,000 lbs. rod, f.o.b. cars, Yermo, Calif.;
- (4) 292 lbs. rod, f.o.b. cars Yermo, Calif.;
- (5) 204,000 lbs. rod, f.o.b. cars, Victorville, Calif.;
- (6) 200,000 lbs. rod, f.o.b. cars, Los Angeles.

The above rod is intended to be used as buried ground wires or counterpoise for 270-mile power transmission line, extending from Boulder Canyon Dam Power Plant to Los Angeles.

SAN FRANCISCO—Until August 21, 2 P. M., bids will be received by the U. S. Forest Service, Ferry Bldg., for plumbing and fixtures as follows:

- (1) 122 bath tubs;
- (2) 80 lavatories;
- (3) 124 water closets;
- (4) 185 sinks;
- (5) 148 laundry trays;
- (6) 159 hot water boilers, 30 qts.;
- (7) 26 hot water boilers, 40 qts.;
- (8) 26 showers;
- (9) 26 urinals.

LOS ANGELES, Cal.—Contracts awarded by Saul A. Joseph, purchasing agent of the Metropolitan Water District for furnishing drifter drills, under bid No. 13831 are as follows: Ingersoll-Rand Co. of Calif. at \$2550 and The Worthington Co., Inc., at \$2550.

ENGINEERING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

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| 21.—Bridges | 30.—Reservoirs and Dams |
| 22.—Dredging, Harbor Works, Excava. | 31.—Pipe Lines and Wells |
| 23.—Irrigation Proj. | 32.—Sewers & Sewage Disposal Plants |
| 24.—St. Light. Systems | 33.—Water Works |
| 25.—Machinery and Equipment | 34.—Parks & Playgrounds |
| 26.—Railroads | 35.—Tunnels |
| 27.—Fire Alarm Sys. | |
| 28.—Fire Equipment | |
| 29.—Streets & Highways | |

21—BRIDGES

ORANGE - RIVERSIDE COUNTIES, Cal.—T. C. Pritchard, 5260 Magnolia Drive, Riverside, awarded contract by the board of directors of the Ortega Joint Highway District, meeting at Santa Ana August 9, at \$12,449.84, for constructing a bridge across San Juan Creek, 2.6 miles north of San Juan Capistrano, in accordance with plans prepared by A. C. Fulmor, chief engineer. The proposed bridge will be of the steel girder type with concrete deck and concrete hand rail, 160 ft. in length, consisting of four 40-foot spans, with a 24-ft. roadway between curbs.

TRINITY COUNTY, Cal.—Until August 31, 2 P. M., bids will be received by C. H. Sweetser, District Engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco, to construct two bridges on Section C, Route 6, the Douglas City-Peanut National Forest Highway, Trinity National Forest, involving:

- (1) 215 cu. yds. unclass. excav., struc.;
- (2) 12 MFEM timber (placing only);
- (3) 246 cu. yds. concrete;
- (4) 20,000 lbs. reinf. steel;
- (5) 115,000 lbs. struc. steel;
- (6) 77 sq. yds. bit. wearing surface.

Specifications obtainable from above office on deposit of \$10, certified check payable to Regional Fiscal Agent, U. S. Forest Service.

WASHINGTON STATE—Until Sept. 6, 10 A. M., bids will be received by State Director of Highways, Olympia, to construct bridges over the Samish River and Silver Creek, Lake Samish Branch, State Road No. 1. Specifications obtainable from above. Certified check 5%.

LOS ANGELES, Cal.—W. A. Armstrong, County Bridge Engineer, is preparing plans for a wood and steel frame bridge to be built on New York Ave. over Eaton Wash. The proposed bridge will consist of four spans 38-ft. each, with 20-ft. roadway. The work will probably be done by contract.

OREGON STATE.—Until August 24, 9 A. M., bids will be received by State Highway Commission, Multnomah Hotel, Portland, to reconstruct approaches to bridge over Youngs Bay, Oregon Coast Highway nr. Astoria, Clatsop county, involving:

- 8,000 ft. untreated piling;
- 25,000 ft. treated piling;
- 400 MFEM creosoted lumber;
- 1,200 cu. yds. concrete;
- 135 tons metal reinforcement;
- 3,230 ft. handrail;
- 600 cu. yds. embankment;
- 80 cu. yds. crushed rock surfacing.

Specifications obtainable from Salem office on deposit of \$5, returnable.

OREGON STATE.—Until August 25, 9 A. M., bids will be received by State Highway Commission, Multnomah Hotel, Portland, for bridge construction as follows:

BAKER COUNTY: One culvert and 5 bridges over Burnt River, Dixie-Lime Section, Old Oregon Trail.

CLATSOP COUNTY: Bridge over Necanicum River, Wolf Creek Highway near Necanicum.

Specifications obtainable from Salem office on deposit of \$5, returnable.

22—DREDGING, HARBOR WORKS, EXCAVATION

SACRAMENTO, Cal.—Union Granite Co., Rocklin, at \$600 (\$60 ton) awarded contract by U. S. Engineer Office, Sacramento, to furnish 1000 tons riprap stone for wing dams.

SAN LUIS OBISPO, Calif.—County supervisors direct deputy county surveyor Kenneth Beck to prepare plans for proposed breakwater across the north channel of Morro Bay. Project is to be submitted to U. S. Government and will involve 23,000 tons of rock.

LOS ANGELES, Cal.—Shannah Bros., 6181 Eastern Ave., Los Angeles, submitted the low bid to the U. S. Engineer on August 11 at \$12,440 for repairing the enrockment at Reservation Point, Los Angeles Outer Harbor, involving 4000 tons furnish and place stone in embankment (rock to meet requirements of 150 lbs. per cu. ft.) The bids follow:

Shannah Bros., \$3.11 per ton net; total, \$12,440.

San Francisco Bridge Co., \$3.24 per ton net; total, \$12,960.

Karl B. Kumpe Co., \$3.25 per ton net; total \$13,000.

George Hess, \$3.33 per ton net; total, \$13,520.

Merritt-Chapman & Scott Corp., \$3.39 per ton net; total \$13,560.

EUREKA, Humboldt Co. Cal.—Hearing on proposed improvement of Humboldt Bay held with War Department engineers. Proposed program would involve deepening of four main channels to 30 ft., widening to 400 ft., estimated cost, \$537,000.

SEATTLE, Wash.—Bids will be requested shortly by U. S. Engineer Office, Burke Bldg., Seattle, to dredge 2,191,000 cu. yds. from Swinomish Slough, Wash. Specifications not yet completed.

STOCKTON, San Joaquin Co., Cal.—City Port Commission urges \$250,000 federal appropriation for cotton com-

press plant and deepening of Deep Water Channel to 39-ft., \$990,000 estimated cost of the dredging.

SEATTLE, Wash.—Puget Sound Bridge & Dredging Co., 2929 16th St., SW, Seattle, at \$54,795 (\$195 cu. yd.) submitted low bid August 16 to U. S. Engineer Office, Seattle, to dredge 281,000 cu. yds. material from the Duwamish Waterway.

25—MACHINERY AND EQUIPMENT

WOODLAND, Yolo Co., Cal.—Spears Wells Machinery Co., 1832 9th, Oakland, at \$2274 awarded contract by city council to furnish one 3-wheeled 6-ton 4-cylinder gasoline street roller.

LOS ANGELES, Cal.—Until 11 A. M., August 24, bids will be received by A. J. Holm, City Purchasing Agent 107 City Hall, for furnishing and delivering to Water and Power Department f.o.b. the department's construction equipment section, 410 Ducommun St., one only earth boring machine under Specifications No. 3198. The bids will be taken as follows:

(1) one earth boring machine, complete and mounted on a gasoline engine driven truck, with undercutting device;

(1-Alt. A) one do;

(1-Alt. A) one do but without undercutting device;

(1-Alt. B) one earth boring machine complete and mounted on crawler type tracklaying tractor, with undercutting device;

(1-Alt. C) one earth boring machine similar to that furnished under item (1-Alt B) but without undercutting device.

SAN FRANCISCO—Following bids received by U. S. Forest Service to furnish five revolving scrapers 7 ft. class to work behind tractors of 55-drawbar hp.:

Associated Equipment Co., "7 Movmore" \$187.50.

Solano Iron Works, \$195.
Ed. R. Bacon, No. 27 Master, \$210.
Chas. Berg Imp. Co., "7A Atlas," \$270; "7C Atlas," \$360; "7F Atlas," \$388.

Austin Western, 3 f.o.b. Aurora, \$1207.50; \$402.50 each.

R. G. LeTourneau (with power control unit) \$2970.

Bids held under advisement.

CALIFORNIA STATE—Until Aug. 28, 2 P. M., under Quo. No. 3363, Req. No. 11937, bids will be received by State Purchasing Agent, Sacramento, to furnish snow plow equipment for delivery as follows:

EUREKA—2 push type reversible snow plows.

REDDING—7 hydraulically controlled reversible type push plows, mounted on Indiana Model S5A 2-ton trucks.

1 reversible blade hydraulically operated trailbuilder or bulldozer for use with 35 h.p. tracklayer type tractor.

SACRAMENTO—1 heavy duty V type snow plow with right hand wing. Frink 67-1/2S or equal, moldboard spread 120-in., for installation on 5-ton 4-wheel truck.

1 one way speed plow for 2-ton truck.

1 10-ft. do 4-ton truck.

1 do, for 2-ton F.W.D. truck Model HH6, Ser. No. 20031.

1 do, 4-ton truck.

CAPITAL CITY TITLE COMPANY

J. C. PALEN,
Manager

914 Seventh Street

Sacramento :: California

3 one-way speed snow plows complete with fittings, on 3- and 4-ton trucks.

1 9-ft. reversible blade bulldozer for McCormick-Deering Model T-40 track-layer tractor.

FRESNO—4 reversible blade snow plows.

NORTH HOLLYWOOD—1 reversible blade snow plow for Model AB Mack truck.

2 speed snow plows for 2-ton trucks.

1 snow plow with reversible straight blade.

1 V snow plow for rear control motor grader.

1 hydraulic operated bulldozer with reversible blade for 35 tracklaying type tractor.

LONS PINE—2 heavy duty V snow plows for 2 3-ton trucks.

30—RESERVOIRS & DAMS

SPOKANE, Wash.—Columbia Basin Commission estimates quantities of materials required for construction of 45-ft. low dam at Grand Coulee, a part of the \$63,000,000 Grand Coulee Project. Bids are to be called in about ten days.

In the following material estimates announced, the low dam figures are given first, with additional amounts necessary for the high dam given second:

Cement: 2,850,000 barrels; 12,630,000.

Reinforcing steel: 34,500,000 pounds; 27,000,000.

Miscellaneous steel: 1,650,000 pounds 18,970,000.

Sluice gate metal: 8,136,000 pounds; 15,682,000.

Structural steel: 8,162,000 pounds; 38,307,000.

Steel penstocks: 25,430,000 pounds; 25,430,000.

Turbines, valves: 15,000,000 pounds; 28,546,000.

Electrical equipment: 35,200,000 lbs.; 58,751,000.

Steel sheet piling: 47,182,000 pounds; 47,182,000.

Form lumber: 40,160,000 ft.; 95,674,000.

Timber cribbing: 29,820,000 ft.; 28,820,000.

No estimate is included for gravel in the dam.

PHOENIX, Ariz.—The Salt River Valley Irrigation District is considering an application to the federal emergency administration of public works for a loan of 500,000 for improvements to the dams and power plants of the Salt River project. The proposed work includes: Enclosing of the Horse Mesa dam power house; water spray protective work on the Mormon Flat dam power house; paving of the Horse Mesa dam spillways; building of a retaining wall at the Mormon Flat dam power house and other work of similar character.

LOS ANGELES, Cal.—Consolidated Steel Corp., Slauson and Eastern Aves., Los Angeles, at \$654,049.79 apparently submitted low bid Aug. 15 to city directors under Schedule No. 6, all-steel line, to construct 18.5 mi. conduit, consisting of 36-in. I. D. gravity pipe line, of 24.7 cu. ft. per second or 16,000 gals. per diem from the Pine Canyon Dam in San Gabriel Canyon to the Sunset Reservoir in Pasadena. Consolidated Steel also low on Schedule No. 7, steel and concrete line, at \$676,277.31; also on Schedule No. 3, furnish and install steel pipe for all of conduit, at \$567,632.54; also on Schedule No. 4, furnish and install steel pipe for major portion of conduit, at \$481,003.80; also on Schedule No. 8, complete furnish and construct for all-steel line for major portion of line, at \$533,989.10.

Geo. Hess, Los Angeles, low for

Schedule No. 1 at \$106,160 (excavation for all-steel conduit) and Schedule No. 2 at \$114,108.70 (excavation for concrete and steel conduit.)

ARIZONA STATE—Application for federal funds to finance construction of a flood control dam on the Gila River near the boundary of Greenlee and Graham Counties, will probably be filed shortly with the Arizona state advisory board of the Federal Public Works Administration. Although a survey of the proposed project has been made, the exact cost of the proposed project has not been estimated. However, it is believed approximately \$3,000,000 will be required to finance the construction. Phil C. Merrill, secretary of the Graham County Chamber of Commerce, Safford, is a member of the board which will file the application.

31—PIPE LINES & WELLS

BURLINGAME, San Mateo Co., Cal.—Bids will be called shortly by F. A. Bloom, City Purchasing Agent, to drill a water well in North Burlingame. Specifications will be ready in a few days.

SAN BERNARDINO, Cal.—Until Sept. 5, bids will be received by City Board of Water Commissioners for drilling a 16-in. water well in Lytle Creek Park and another near the intersection of Mill and D Sts. The proposed Lytle Creek Park well will be 300 ft. in depth, the latter 500 ft.

32—SEWERS & SEWAGE DISPOSAL PLANTS

SANTA CRUZ, Cal.—California Filter Co., 981 Folsom St., at \$1460 (one bid submitted) awarded contract by city council to furnish two steel filter tanks, 8 ft. dia., 20 ft. long.

LAGUNA BEACH, Orange Co., Cal.—City council has applied to the Federal Emergency Administrator of Public Works for a loan of \$190,000 to finance construction of a sewage disposal and treatment plant of the activated sludge type with separate sewage digestion, sewer mains and outfall. The city has already voted a \$180,000 bond issue but to date has not been able to find a purchaser for the bonds. Plans were prepared by the Currie Engineering Co., 219 Anderson Block, San Bernardino.

LOS ANGELES, Cal.—The boards of directors of County Sanitation Districts Nos. 1, 2, 5 and 8, have authorized A. K. Warren, Chief Engineer, to apply to the Federal Emergency Administration of Public Works for N. R. A. funds to finance the construction of the White's Point Outfall Sewer, estimated to cost, \$2,750,000. The engineer was also authorized to apply for funds for the construction of the Hooper Avenue-Compton Creek Trunk Sewer.

ROSEBURG, Ore.—City council will apply for \$100,000 federal funds for construction of trunk line sewer and sewage disposal plant; project authorized by special election.

SAN JUAN CAPISTRANO, Orange Co., Cal.—Nat H. Neff, County Road Commissioner, has received for forwarding to the Federal Public Works Administration an application for \$30,000 to finance the construction of two miles of outfall sewer from San Juan Capistrano to Serra (Doheny Park). The line will connect the sewer system with the treatment tanks. The line will involve vitrified clay sewer pipe with cast iron pipe for that portion under San Juan Creek.

SAN FRANCISCO.—Until Aug. 23, 2:30 P. M., bids will be received by the Department of Public Works, S. J. Hester, Chief Deputy Director, to improve 37th Ave. bet. Moraga and Noriega, sewer only, involving:

- (1) 593 ft. 8-in. VCP sewer;
- (2) 26 Y branches;
- (3) 2 brick manholes.

Estimated cost, \$920. Specifications obtainable from office of J. J. Casey, city engineer, 3rd floor, City Hall.

LOS ANGELES, Cal.—Until 11 A. M., August 24, bids will be received by A. J. Holm, City Purchasing Agent 107 City Hall, for furnishing and delivering to Water and Power Department f.o.b. the department's warehouse, Los Angeles, iron and steel castings consisting of vault frames and outer covers, manhole frames and covers, and vent frames and covers, in such quantities as may be ordered during 12-month period commencing August 16, 1933, or with date of contract if subsequent thereto, under Specifications No. 3184. The items are:

- (1) class 40 cast iron castings as per water and power dept. drawing Nos. 348, A-742, A-743 and 721-MS;
- (1a) commercial gray iron castings as per same drawings noted under item (1);
- (2) class 40 cast iron castings as per water and power dept. drawing No. D-620;
- (2a) commercial gray iron castings as per same, drawing noted under item (2);
- (3) cast steel castings as per water and power dept. drawing Nos. A-348 and A-743.

33—WATER WORKS

VICTORVILLE, San Bernardino Co. The Victorville County Water District has applied for funds in the amount of \$50,000 under the National Recovery Act to construct a water distributing system. Charles L. Foulke, 455 Fourth St., San Bernardino, engineer; Burns, McDonnell-Smith Engineering Co., 1031 S. roadway, Los Angeles, consulting engineer. The work will involve:

2 wells, 16-in. diameter, about 250 ft. deep, each equipped with deep well pump. Automatic controls, pump house, sand trap piping, etc., each unit having capacity of 300 gals. per minute; \$7330.

One 150,000 gal. reservoir (reinforced concrete ring tension); \$3500.

Distributing system, involving cast iron pipe and valves, as follows:

25,500 ft. 4-in. cast iron pipe;

11,680 ft. 6-in. cast iron pipe;

32 4-in. valves;

12 6-in. valves;

37 hydrants, complete.

Estimate, \$27,788.

Water services, including meter, meter box, copper goose neck corporation cock and curb cocks, average length of galvanized pipe 25-ft., labor, etc., cost per service \$22 each; total cost \$7700.

The cost will include:

Labor, \$12,538.

Material, \$33,780.

Engineering, \$2000.

Land, \$1200.

A bond issue of \$50,000 has been voted. W. G. Roberts, Victorville, is president of the district.

REDLANDS, San Bernardino Co., Cal.—Geo. S. Hinkley, city engineer, has announced that the city will apply for NRA funds to finance the construction of new water mains for the municipal water department. The city will probably ask for \$132,000.

SAN CLEMENTE, Orange Co., Cal.
 —W. A. Ayer, city engineer, is preparing preliminary plans for water improvements at San Clemente, involving the construction of improvements to the auxiliary pumping plant at San Juan Creek (\$5000) and 46,750 ft. 4-in. cast iron pipe in place (\$35,000). Application for \$40,000 of NRA funds will probably be made by the city.

WHITTIER, Los Angeles Co., Cal.
 —The City of Whittier has applied for funds in the amount of \$228,000 under the National Recovery Act for the following construction projects:
 Roofing Greenleaf Reservoir, total \$15,050; labor cost \$5254, material \$8646, engineering and overhead, \$1000
 Construction of Reservoir - pump house with pumps and equipment, also cast iron booster pipe line at \$15,069, labor cost \$5714, material \$8705, engineering, \$600.

Construction of Reservoir, pump house with pumps and equipment, cast iron booster pipe line and cast iron distributing line in northwest part of Whittier. Total cost \$19,650, labor \$7500, materials \$9500, engineering \$600, cost land \$2000.

The estimated quantity of pipe required follows:

- 20,330 ft. 6-in. C. I. pipe;
- 1,870 ft. 10-in. C. I. pipe;
- 1,030 ft. 4-in. C. I. pipe;

Installation of cast iron water distributing mains in various streets, total cost \$40,631, labor \$14,742, materials \$23,639, engineering \$1750.

Drilling and casing well No. 10, pump house with derricks, pump house and equipment for well No. 10 and also for existing well No. 9 and 30-in. water main from wells at Whittier Woodland Park to settling basins at pumping station No. 2, total cost \$31,950, labor \$11,300, material \$13,000, engineering \$1250, cost of land \$6000.

Construction of gas driven pumping and generating plant with transmission lines to serve ornamental street lights, total cost \$105,650, labor, \$19,650, material \$80,000, engineering \$5000

BOULDER CANYON, Nev. &—Until Sept. 12, 10 A. M., under Specifications No. 545, bids will be received by U. S. Bureau of Reclamation, Denver, Colo., to furnish two 3500-hp. horizontal shaft double overhung impulse type hydraulic turbines complete with hydraulically-operated follower ring type shut-off valves, two oil pressure governors complete with pumping equipment and auxiliary equipment for regulating the speed of above turbines and two 3000 kv-a, 300 r.p.m., three-phase, 60-cycle, 2400-volt, a.c.-generators, complete with direct-connected main exciters and pilot exciters for installation in the Boulder Power Plant. No charge for plans and specifications to prospective bona fide bidders; to others, \$1.50, not returnable.

BOULDER CANYON, Nev. —John W. Beam, Denver, at \$18,500 submitted low bid to U. S. Bureau of Reclamation, Denver, under Spec. No. 598-D, to furnish seat frames and bronze liners for bulkhead gates for draft tubes at Boulder Power Plant. Complete bids follow:

John W. Beam, Denver.....\$18,500.00
 Johnson City Fdy. & Mach... 18,530.00
 Reuter Bros. Iron Wks., Chicago
 19,548.18

Bids held under advisement.

BAKERSFIELD, Cal.—City council contemplates purchasing chlorinating apparatus to be installed at the city plunges.

OREGON STATE—Following projects included in Oregon State Public

Works program, funds to be sought through NRA:

- Sewage disposal plant, \$7,000,000.
- Salem Waterworks project, \$800,000.
- Salem Sewage project, \$350,000.
- Eugene Sewage project, \$250,000.
- Corvallis Sewage project \$200,000.
- Albany Sewage project, \$150,000.
- McMinnville Sewage project, \$100,000
- Astoria moorage, \$50,000.
- John Day river improvement, \$50,000
- Lower plant extension, Hood River, \$28,000.

SAN FRANCISCO.—Davis Mfg. Co., Davis, at \$278.50 awarded contract by U. S. Forest Service to furnish one hydraulic pump complete with valve and fittings with control lever, adapter, drive shaft and parts necessary for attaching to 30 Cletrac, capacity 20-gpm. at 650-rpm.

EUREKA, Humboldt Co., Cal.—City council plans development of water supply system from Mad River, plans prepared by C. C. Kennedy, 74 New Montgomery St., San Francisco, under three alternates as follows:

Alternate A—Delivering 4,000,000 gals. per Day; Construction Cost, \$941,200.

- (1) concrete diversion dam with sluice gates and flash boards;
- (2) detritor with gates, weir, piping, etc.;
- (3) pipe line:
 4,300 lin. ft. 27-in. dia. buried in trench;
 106,700 lin. ft. 24-in., laid in cradles;
 58,050 lin. ft. 24-in. buried in trench
- (4) bridges and culverts;
- (5) control equipment, gate valves, blow-off units, standpipe unit, valve manholes;
- (6) reservoir in Eureka, 10,225,000 gals.
- (7) filtration plant, 3,200,000 gals. per day capacity, booster pump station;
- (8) elevated storage tank, 100,000 gals.
- (9) mains in Eureka:
 400 lin. ft. 24-in. pipe to connect reservoir to filtration plant; 8,000 lin. ft. 21-in. pipe to connect filtration plant and existing storage at Harris and E Sts.; 330 lin. ft. 12-in. pipe to connect filtration plant and 100,000 gals. elevated tank; 6,000 lin. ft. 12-in. pipe to connect 100,000 gal. elevated tank with existing tank.

Alternate B: Construction Cost \$916,000

- (1) concrete dam, crest elevation 260, with control gates and flash boards;
- (2) clearing reservoir site;
- (3) pipe line:
 71,300 lin. ft. 24-in. pipe, laid in grade on surface;
 58,050 lin. ft. 24-in. pipe buried in trench;
- (4) bridges and culverts;
- (5) control equipment, gate valves, air-vacuum valves, blow-off units valve manholes;
- (6) reservoir in Eureka, 10,225,000 gals.
- (7) same as above (Alt. A);
- (8) same as above (Alt. A);
- (9) same as above (Alt. A).

Alternate C: Construction, \$1,992,400.

- (1) concrete dam, crest elevation 334, with spillways, control gates, etc.;
- (2) control works, trash racks, screens valves and controls;
- (3) 2300 ft. tunnel;
- (4) 108-in. conduit laid in cradles, including air and blow-off valves;
- (5) 14,490 ft. tunnel;
- (6) 78-in. conduit, 10,660 lin. ft., laid in cradles on surface, including bridges, air and blow-off valves;
- (7) 72-in. penstock, 1200 lin. ft. of pipe buried and anchored in ground;
- (8) power house structure with two operating units, inc. turbines, generators, crane, switchboard, transformers, etc.;

- (9) tail race, 570 lin. ft. of buried conduit;
- (10) surge works;
- (11) 30-in. conduit, 1730 lin. ft. laid in cradles on surface, inc. valves;
- (12) equalizing reservoir, 5,000,000 gal. capacity;
- (1) filtration plant, 3,200,000 gals. per day;
- (14) 18-in. dia. conduit, 45,270 lin. ft. of pipe buried in trench;
- (15) 10-in. pipe, 1020 lin. ft. of main extension in city, incl. valves.

Funds for this project are being requested through the NRA. Project will involve water and power development on the Mad River for the City of Eureka.

34—PARKS AND PLAY-GROUNDS

SAN FRANCISCO—Following bids received by Recreation Commission for furnishing and installing fencing and backstop on the following playgrounds:
 Funston Playground, Bay and Laguna Streets;

Julius Kahn, Presidio Wall at Walnut Street;

Thirty-eighth Ave. and Fulton St. Playground, at 38th Ave. near Fulton Street;

Aptos Playground, Aptos and Ocean Avenues.

Standard Fence Co., 1940 San Bruno Ave., \$3549.

C. J. Waterhouse (Stuart Iron Works) \$3560.

Crown Fence & Supply Co., \$3619.

Michel & Pfeffer Iron Works, \$3763.17.

Anchor Post Fence Co., \$3834.18.

Trask & Squiers, \$3916.

Bids held under advisement.

29—STREETS AND HIGHWAYS

RIVERSIDE COUNTY, Cal.—Until 2 P. M., August 23, bids will be received by the Board of Directors of Joint Highway Dist. No. 15, for constructing a road mix, oil treated surface on Sections C, D, E and F, and a portion of Section B, Ortega Highway in Joint Highway Dist. No. 15, involving:

- (1) 26.1 miles prepare subgrade;
- (2) 24,200 cu. yds. haul surf. material;
- (3) 660 M. gals. water;
- (4) 600,000 gals. heavy fuel oil;
- (5) 26.1 miles road mix, oil treated surface.

Plans obtainable from A. C. Fulmor, Chief Engineer, County Court House, on payment of \$5. Certified or cashier's check, 5% George Jeffrey, president; L. W. Briggs, secretary.

GILA COUNTY, Ariz.—Until Sept. 5 10 A. M., bids will be received by C. H. Sweetser, District Engineer, U. S. Bureau of Public Roads, 802 Title & Trust Bldg., Phoenix, for 5.247 miles grading Section A, Route 11, Payson-Colcord Mt. National Forest Highway Tonto National Forest, involving:

- (1) 20 acres clearing;
- (2) 39,000 cu. yds. unclass. excav.;
- (3) 460 cu. yds. unclass. excav., struc.;
- (4) 2,000 sta. yds. overhaul;
- (5) 5.247 miles finish earth graded rd.;
- (6) 2,022 lin. ft. corr. metal pipe.

Specifications obtainable from above office on deposit of \$10, returnable, check certified and payable to Regional Fiscal Agent, U. S. Forest Service.

OROVILLE, Butte Co., Calif.—City plans improvement of State highway on Villa Street through city of Oroville, involving 2225 ft. new street 80-ft. wide, a bridge over the Western Pacific railroad tracks, a fill, and a municipal auto park. Estimated cost, \$123,000. Federal funds may be sought through the NRA. S. J. Norris, city engineer.

RED BLUFF, Tehama Co., Cal.—All bids rejected by Joint Highway District No. 18 to surface with crushed rock base and penetration surface 1,000 ft. south of Gerber, etc., and the work will be done by force account under the direction of Martin Polk, engineer of the district.

LOS ANGELES, Cal.—Bids will be called within a few days by the board of public works for the improvement of Beaudry Ave. bet. Figueroa St. and Alpine St., under the 1911 act. The quantities are:

- (1) grading (352 cu. yds. cut);
- (2) 14,084 sq. ft. 4-in. rock and oil roadway;
- (3) 45 sq. ft. asph. conc. pave. (2-in. asph. conc. wear. surf., 6-inch concrete base);
- (4) 2245 ft. unplas. light curb;
- (5) 1987 sq. ft. 1-course walk;
- (6) 604 sq. ft. 4-in. driveway;
- (7) 4680 sq. ft. 6-in. conc. gutter;
- (8) 38 sq. ft. 8-in. comb. gutter;
- (9) storm drain and appurtenances;
- (10) 10 ft. 4-in. cast iron soil pipe.

Remove: 329 ft. curb, 6855 sq. ft. gutter as follows: 6128 sq. ft. cobblestone, 131 sq. ft. brick, and 596 sq. ft. concrete; 1854 sq. ft. walk, 647 sq. ft. drive-ways, 2 trees, 10 ft. 10-in. pipe.

The final ordinance ordering the work was adopted by the city council August 9.

TRINITY COUNTY, Cal.—Until August 31, 2 P. M., bids will be received by C. H. Sweetser, District Engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco, for grading 2,655 miles of Sections A and C, Route 5, Douglas City-Peanut National Forest Highway, Trinity National Forest, involving:

- (1) 11 acres clearing;
- (2) 63,800 cu. yds. unclass. excav.;
- (3) 840 cu. yds. unclass. excavation structure;
- (4) 114,000 sta. yds. overhaul;
- (5) 2,655 miles finish earth graded road;
- (6) 4 MFEM timber cribbing;
- (7) 102 cu. yds. concrete;
- (8) 2,400 lbs. reinf. steel;
- (9) 60 cu. yds. cement rubble masonry;
- (10) 1068 lin. ft. corr. metal pipe;
- (11) 310 cu. yds. hand laid riprap;
- (12) 30 right of way monuments;
- (13) 260 lin. ft. lam. timber culverts (alt. for 6-in. corr. metal pipe).

Specifications obtainable from above office on deposit of \$10, certified check payable to Regional Fiscal Agent, U. S. Forest Service.

MODOC COUNTY, Cal.—A. Teichert & Son., P. O. Box 1118, Sacramento, at \$9990 awarded contract by U. S. Bureau of Public Roads to apply 28,077 mi. road oil dust palliative on Beds and Howard Gulch National Forest Highway, Modoc National Forest.

STOCKTON, Cal.—Until Aug. 28, 5 P. M., to be opened at 8 P. M., bids will be received by B. L. Trahern, City Clerk, for graveling near the Deep Water Terminal at the lumber storage areas, 2-in. of gravel to be laid, involving 3000 tons road gravel in place. Specifications obtainable from above office or from office of City Port Commission.

SUSANVILLE, Lassen Co., Cal.—As previously reported, until August 18, 2 P. M., bids will be received by the Lassen-Modoc Joint Highway District No. 14 at the offices of the District Engineer, County Surveyor's office, Susanville, for 2.89 miles of excavation, grading, graveling and placing culvert pipes; also hauling and spreading gravel at intervals over about five miles of road now in use between Eagle Lake and Willow

Creek Valley, about 35 miles north of Susanville, involving:

- (1) 8500 cu. yds. grading, unclass.;
- (2) 2270 cu. yds. gravel new constructed section, av. haul 1.1 miles;
- (3) 3500 cu. yds. do, old section, haul 2.44 miles;
- (4) 650 lin. ft. place metal culvert pipes.

Specifications obtainable from above office, L. R. Cady, Secretary; M. J. Tilley, District Engineer.

RIVERSIDE, Cal.—C. W. Wood, P. O. Box 1435, Stockton, at \$31,200 awarded contract by U. S. Bureau of Public Roads to furnish and apply approximately 780,000 gals. liquid asphaltic road material on 33 mi. Sections A, B, and C, Route 70, Idyllwild, Desert National Forest Highway, San Bernardino National Forest.

OROVILLE, Butte Co., Cal.—No bids received by county supervisors for maintenance of A and B roads. Work will be done by county force account under direction of County Engineer J. A. Baumgarner.

WASHINGTON STATE—Until Sept. 6, 10 A. M., bids will be received by State Director of Highways, Olympia, for highway construction as follows:

SKAGIT CO.—Grade 3.8 mi. Lake Samish Branch, State Road No. 1, Section A, State Fish Hatchery to Lake Samish, N. R. S. H. Pro. Unit 1, N. R. S.—191-A.

SKAGIT CO.—Grade 3.2 mi. Lake Samish Branch, State Road No. 1, Section B, State Fish Hatchery-Lake Samish.

KLICKITAT CO.—Surface 8.3 mi. State Road No. 8, Lyle-Grand Dalles, between Lyle and Goldendale.

YAKIMA AND KITTITAS CO.—Stockpile 25,610 cu. yds. crushed stone surfacing and oil rock on 33.6 mi. State Road No. 5, Morse Creek to Carmack Bridge.

Specifications obtainable from above office on deposit of \$2. Certified check 5% required with bid.

ST. HELENA, Napa Co., Cal.—Until Aug. 21, 8 P. M. (postponed from August 15) bids will be received by E. R. Palmer, town clerk, to pave one mile of Spring St. between Oak Ave. and the Cemetery, with oil and gravel wearing surface, 18-ft. wide. Specifications obtainable from above office.

KLAMATH COUNTY, Ore.—Until Aug. 25, 9 A. M., bids will be received by State Highway Commission Multnomah Hotel, Portland, to construct 5.53 miles of oil mat surface treatment Fort Klamath-Crooked Ck. Section, The Dalles-California and Crater Lake Highways. Specifications obtainable from Salem office on deposit of \$5.

WASHOE COUNTY, Nevada—Until Sept. 7, 2 P. M., bids will be received by C. H. Sweetser, District Engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco, for placing 5.536-mi. selected material for surfacing on Sections B, C and D, Route 1, the Lake Tahoe National Forest Highway, Tahoe National Forest, involving:

- (1) 2000 cu. yds. unclass. excav., hor. row;
- (2) 1 mile fine grading subgrade and shoulders;
- (3) 7500 cu. yds. selected material for surfacing.

Specifications obtainable from above office on deposit of \$10, certified check payable to Regional Fiscal Agent, U. S. Forest Service.

August 17, 1933

LOS ANGELES, Cal.—Griffith Co., 502 Los Angeles Railway Bldg., Los Angeles, at \$47,440.95 submitted low bid to Board of Public Works Aug. 16 to improve Exposition Blvd. from Vermont Ave. to Western Ave.

SAN FRANCISCO—Until Aug. 30, 2:30 P. M., bids will be received by Department of Public Works, S. J. Hester, Chief Deputy Director, to improve Golden Gate Park Roads, involving:

- (1) 362,000 sq. ft. 2-in. asph. conc. wear. surf.;
- (2) 7000 sq. ft. 1½-in. do;
- (3) 5000 sq. ft. 8-in. waterbound macadam base;
- (4) 200 cu. yds. red rock;
- (5) 52 storm water inlets;
- (6) 5100 ft. 6-in. V.C.P. culvert;
- (7) 5 seepage pits;
- (8) 1500 ft. 2-in. galv. NEC conduit.

Estimated cost \$29,000. Specifications obtainable from office of John J. Casey, City Engineer, 3rd Floor, City Hall.

JUNEAU, Alaska.—Siems - Spokane Co., Realty Bldg., Spokane, Wash., at \$82,000 awarded contract by the U. S. Bureau of Public Roads, Juneau, for 2,902 miles grading and surfacing the Tongass Highway, Mud Bay-Pt. Higgins Section.

Siems-Spokane Co. at \$25,000 also awarded contract to grade and construct piling on 0.76 mile of Seward Highway, Seward Grade Crossing Section, Chugach National Forest.

LOS ANGELES, Cal.—City engineer has completed plans and quantities for the improvement of Coldwater Canyon Drive bet. Mulholland Highway and Eden Court (center line 3143 ft.) The quantities are:

- (1) grading;
 - (2) 93,573 sq. ft. 7-in. compressed concrete pavement;
 - (3) 1760 sq. ft. 6-in. asph. conc. pave.;
 - (4) 114 ft. heavy unplas. curb;
 - (5) 6192 ft. reinf. integral curb;
 - (6) storm drain;
 - (7) reset 1 manhole.
- Storm drain includes:
 2 manholes "EZ";
 2 manholes frame and cover sets;
 1 catchbasin No. 44;
 1 catchbasin frame and grating;
 155 ft. 18-in. corr. metal pipe;
 480 ft. 24-in. corr. metal pipe;
 4 concrete head walls, Class C concrete (4 yds. conc. in each);
 1 catchbasin No. 38;
 1 catchbasin frame and cover set.

WASHOE COUNTY, Nevada—Until Sept. 7, 2 P. M., bids will be received by C. H. Sweetser, District Engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco, for grading 1.304 mi. Section A, Route 1, the Lake Tahoe National Forest Highway, Tahoe National Forest, involving:

- (1) 8.4 acres clearing;
- (2) 25,500 cu. yds. unclass. excav.;
- (3) 190 cu. yds. unclass. excav., struc.
- (4) 20,000 sta. yds. overhaul;
- (5) 1,304 mi. finish earth grader road
- (6) 45 cu. yds. concrete;
- (7) 3300 lbs. reinf. steel;
- (8) 29 cu. yds. cement rubble masonry;
- (9) 264 lin. ft. corr. metal pipe;
- (10) 443 cu. yds. hand laid rock embankment;
- (11) 38 right-of-way monuments;
- (12) 188 lin. ft. remove and relay corrugated metal pipe.

Specifications obtainable from above office on deposit of \$10, certified check payable to Regional Fiscal Agent, U. S. Forest Service.

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

GRADE SECTION G—COCONINO CO., ARIZ.—GOVT.

COCONINO COUNTY, Ariz.—Skousen Bros.; Albuquerque, N. M., submitted low bid to U. S. Bureau of Public Roads, 802 Title & Trust Bldg., Phoenix, Ariz., August 10, at \$159,878.10, for grading 9.688 mi. Section G, Route 7, Oak Creek National Forest Highway, Coconino National Forest, involving:

- (1) 50 acres clear;
- (2) 88,000 cu. yds. unclass. excav.;
- (3) 2027 cu. yds. unclass. excav. struc
- (4) 26,000 cu. yds. unclass. excav. borrow;
- (5) 50,000 sta. yds. overhaul;
- (6) 9.677 mi. finishing earth graded road;
- (7) 828 cu. yds. Class "A" concrete;
- (8) 120 cu yds. Class "B" concrete;
- (9) 115 cu. yds. Class "D" concrete;
- (10) 82,500 lbs. reinforcing steel;
- (11) 672 lin. ft. 18-in. C. M. pipe;
- (12) 710 lin. ft. 24-in. C. M. pipe;
- (13) 144 lin. ft. 30-in. C. M. pipe;
- (14) 384 lin. ft. 36-in. C. M. pipe;

- (15) 134 lin. ft. 42-in. C. M. pipe;
- (16) 36 lin. ft. 48-in. C. M. pipe;
- (17) 25 cu. yds. hand laid rip rap;
- (18) 6421 lin. ft. wood guard rail;
- (19) extra work, maintenance exist. road;
- (20) 8700 cu. yds. mi. borrow, haul;
- (21) 332 lin. ft. remove, clean and stockpile C.M.P.;
- (22) 29,500 lin. ft. protection ditch;
- (23) 18,200 lin. ft. fence;
- (24) 3 each farm entrance gates;
- (25) 3 each cattle guards (30 ft. 2½-in.);
- (26) 72 each right-of-way monuments;
- (27) 1 each cattle guard (15 ft. 1½-in.)

The total bids were:
 (A) Skousen Bros., \$159,898.10.
 (B) Haddock & Lindberg, Pasadena, \$181,343.40.
 (C) Utah Constr. Co., \$203,060.75.
 (D) Hoegman & McVicar, Pasadena, \$218,815.62.
 (E) Engineer's estimate, \$134,749.10.
 The unit bids were:

	(A)	(B)	(C)	(D)	(E)
(1).....	\$100.00	\$250.00	\$125.00	\$300.00	\$100.00
(2).....	.95	.75	1.20	1.25	.70
(3).....	2.00	2.50	1.75	2.00	1.50
(4).....	.50	.75	.75	.75	.45
(5).....	.03	.04	.03	.05	.03
(6).....	200.00	500.00	700.00	125.00	300.00
(7).....	24.00	31.00	28.00	28.00	24.00
(8).....	27.00	29.00	28.00	32.00	23.00
(9).....	30.00	70.00	40.00	32.00	26.00
(10).....	.05	.07	.05	.06	.05
(11).....	1.35	2.50	2.00	2.00	1.50
(12).....	2.20	3.00	2.50	3.00	2.25
(13).....	3.00	3.75	3.00	4.00	3.00
(14).....	4.50	5.00	4.00	6.00	4.00
(15).....	6.50	6.50	5.00	7.00	5.50
(16).....	7.50	8.00	7.50	9.00	7.00
(17).....	4.00	5.00	4.00	3.00	5.00
(18).....	.70	1.10	.90	1.00	1.00
(19).....	150.00	150.00	150.00	150.00	150.00
(20).....	.10	.50	.50	.25	.15
(21).....	1.00	.75	1.00	3.00	1.00
(22).....	.22	.15	.11	.25	.05
(23).....	.10	.15	.10	.10	.08
(24).....	20.00	25.00	15.00	25.00	20.00
(25).....	700.00	400.00	700.00	1100.00	600.00
(26).....	5.00	5.00	3.00	4.00	3.00
(27).....	500.00	300.00	450.00	600.00	350.00

SAN MATEO, Cal.—Camerotto & Moretto, 717 S. Grant St., San Mateo, at \$1008 awarded contract by city council to repave sewer trench on Poplar Ave. from Delaware St. to San Mateo Drive, involving:

- (1) 80 cu. yds. concrete;
- (2) 40 tons asphalt.

Complete bids follow:
 (A) Camerotto & Moretto, San Mateo \$1008.

- (B) Nick Sisevich, San Mateo, \$1064.
- (C) G. Adolphson, San Mateo, \$1140.
- (D) L. C. Smith, San Mateo, \$1176.

Unit bids follow:

	(A)	(B)	(C)	(D)
(1).....	\$8.35	\$10.80	\$10.00	\$11.55
(2).....	8.50	5.00	8.50	6.30

OAKLAND, Cal.—Lee J. Immel, 1051 Evelyn Ave., Berkeley, at prices shown below, submitted low bid to City Port Commission for surfacing at the Municipal Airport, Oakland, involving:

- (1) 2200 tons clean crushed macadam rock;
- (2) 600 tons screenings and birdseye filling for macadam pavements;
- (3) 2800 tons labor and equipment for spreading and rolling;
- (4) 700 bbls. asphaltic road oil furnished and spread.

Bidders follow:
 (A) Lee J. Immel, Berkeley.
 (B) Heafey-Moore Co., Oakland.

(C) W. H. Larsen, Berkeley.
 (D) Central California Roads Co., Oakland.

Unit bids follow:

	(A)	(B)	(C)	(D)
(1).....	\$1.20	\$1.20	\$1.60	\$1.52
(2).....	1.50	1.70	2.10	2.05
(3).....	.20	.20	.29	.31
(4).....	2.00	2.25	2.14	2.58

Bids held under advisement.

SAN LUIS OBISPO, San Luis Obispo Co., Cal.—W. B. Roselip, 756 Santa Rosa St., San Luis Obispo, at \$2078 awarded contract by San Luis Obispo High School District to construct cement concrete curb, gutter and sidewalk on Ida St. Complete bids follow:
 W. B. Roselip, S. L. O. \$2078
 Henry Dalessi, S. L. O. 2129
 Santa Maria Const. Co., Santa Maria 2385
 Theo. Maino, S. L. O. 2400
 Jas. S. Butler, S. L. O. 2700

OAKLAND, Cal.—United States Pipe & Foundry Co., Monadnock Bldg., San Francisco, at \$74,950 (lump sum bid) submitted low bid to East Bay Municipal Utility District to furnish:
 (1) 20,000 lin. ft. Class B or Class 150 4-in. b&s cast iron pipe;
 (2) 80,000 lin. ft. Class B or Class 250 6-in. b&s cast iron pipe;

(3) 25,000 lin. ft. Class B or Class 250 8-in. b&s cast iron pipe.

Complete bids follow:
 (A) U. S. Pipe & Fdry, (lump) \$74,950 (total on all items)..... 76,550
 (B) R. D. Wood Corp. by Utilities Equip. Corp. 75,965
 (C) American C. I. Pipe..... 79,700
 (D) Pacific States C. I. Pipe..... 80,950
 (E) National C. I. Pipe..... 84,750

Unit bids follow:

	(1)	(2)	(3)
(A).....	\$7,400	\$46,400	\$22,750
(B).....	7,720	45,920	22,225
(C).....	7,400	48,800	23,500
(D).....	7,600	49,600	23,750
(E).....	8,000	52,000	24,750

Bids held under advisement.

LOS ANGELES, Cal.—Until 2 P. M., Sept. 5, bids will be received by county supervisors for the improvement of Slauson Avenue and Alameda Street, under Cash Contract No. 436. The project includes the improvement of Slauson Ave., from Wilmington Ave. to Alameda St., and Alameda St., from Slauson Ave. to Florence Ave., in the vicinity of Huntington Park, 5688 ft. or 1.08 miles, involving:

- (1) 59,456 sq. ft. 10-7-7-10-in. concr. pavement;
- (2) 24,029 sq. ft. 8-in. concr. pave.;
- (3) 35,430 sq. ft. 6-in. concr. pave.;
- (4) 1589 sq. ft. 6-in. concrete driveway entrance;
- (5) 37,940 sq. ft. 2-in. asph. concrete wearing surface;
- (6) 884 tons asph. concr. wearing surf., variable thickness;
- (7) 2509 sq. ft. 4-in. concr. base;
- (8) 1461 sq. ft. cem. walk standard section;
- (9) 1709 ft. 6x9x15-in. concr. monolithic curb and gutter (7-in., 8-in., by 2 ft.);
- (10) 5046 ft. do 7-in., 8-in., by 4 ft.);
- (11) 285 ft. do (7-in., 8-in., by 5 ft.);
- (12) 2923 ft. do (7-in., 10-in., by 12 ft.);
- (13) 24 ft. 6x10x18-in. do (7-in., 8-in. by 5 ft.);
- (14) 143 ft. do 7-in., 8-in., by 2 ft.);
- (15) 332 sq. ft. concr. gutter, 8-in. section;
- (16) 135 ft. concr. curb, 6x9x15-in.;
- (17) 382 ft. concr. curb, 6x10x18-in.;
- (18) 136.23 ft. curb armor.

Geo. W. Jones, County Road Commissioner. Mame B. Beatty, 501 Hall of Records, Clerk of the Board.

WHATCOM COUNTY, Wash.—Until August 31, 10 A. M., bids will be received by W. H. Lynch, District Engineer, U. S. Bureau of Public Roads, 316 New Post Office Bldg., Portland, to surface 11.0965 miles Baker River Project NR-24-A3, B2, C3, Mt. Baker National Forest, involving:

- (1) 3,000 cu. yds. unclass. excavation, borrow;
- (2) 32,000 sta. yds. overhaul, slides and borrow;
- (3) 4,000 cu. yds. subgrade reinf.;
- (4) 11.0965 miles fine grading, subgrade and shoulders;
- (5) 15,000 tons crushed run bottom course;
- (6) 15,600 tons crushed run top course
- (7) 1,000 tons supplemental crush. run top course;
- (8) 3,000 ml. yds. binder haul;
- (9) 1,000 M. gals. watering;
- (10) 2,000 cu. yds. binder;
- (11) 2 acres roadside cleanup.

Specifications obtainable from above office on deposit of \$10, returnable. Proposal guarantee, 5%.

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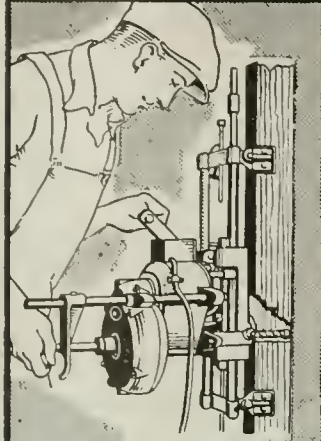
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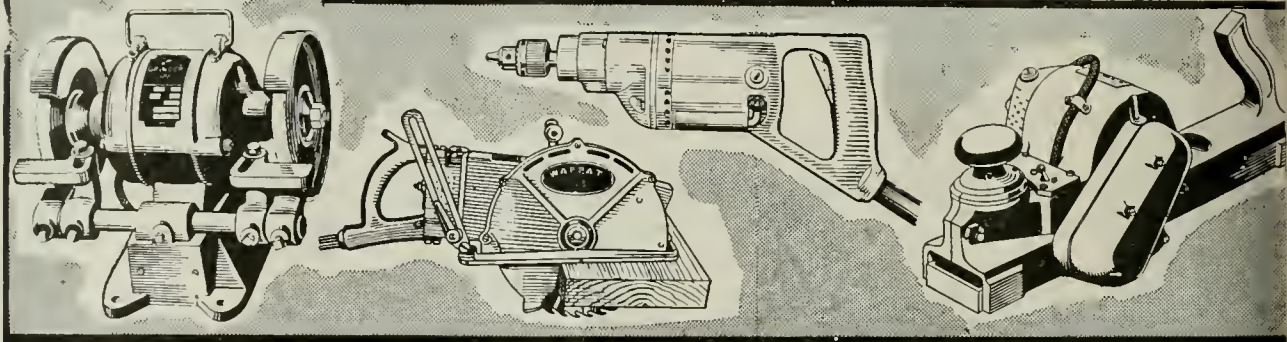
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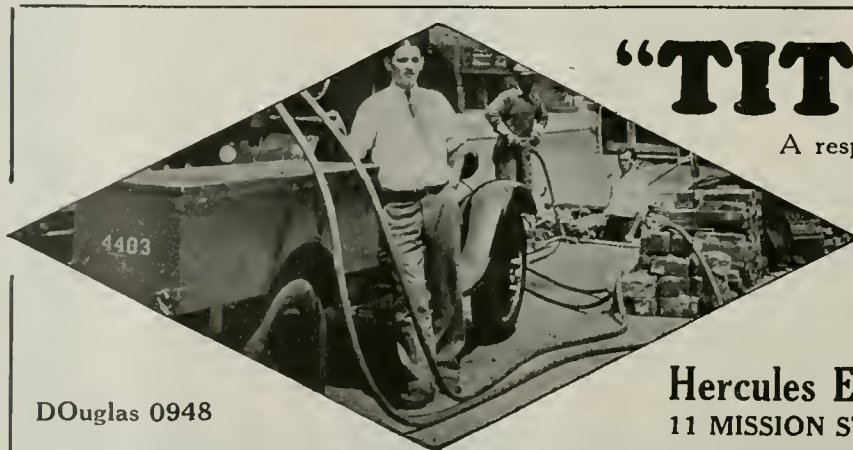
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SAN FRANCISCO, CALIF., AUGUST 26, 1933

No. 32

MATERIALS PRICE GAIN 6.4% IN MONTH OF JULY

Federal Bureau Reports Current Level Above 1932 Quotations

Building materials prices increased 6.4% during the month of July, according to the monthly index prepared by the United States Bureau of Labor Statistics.

Average prices of brick and tile, cement, lumber, paint and paint materials and miscellaneous building materials all moved upward. Structural steel showed no change during the month.

Metals and metal products, including plumbing fixtures also increased in comparison with June prices.

Building materials prices are now substantially higher than they were in the corresponding month last year, the index shows, the group average standing at 79.5 at the end of July, compared with 69.7 at the same time last year.

The upward trend continued thru the first two weeks of August, according to the weekly bulletin of the labor bureau for the week ending August 12, although there has been an increase of less than a point since July 29 and a decline of two-tenths of a point since August 5, when the rise reached a peak.

The index on August 12 stood at 80.7, compared with 80.9 on August 5 and 78.8 on July 15.

Following is the table of comparative prices prepared by the United States Bureau of Labor Statistics:

	July 1932	July 1933
Building materials	69.7	79.5
Brick and tile	75.9	78.2
Cement	77.3	88.2
Lumber	56.9	75.9
Paint & paint materials.....	66.8	77.9
Plumbing and heating.....	67.1	69.4
Structural steel	81.7	81.7
Other building materials.....	77.9	83.3

San Francisco prices remain unchanged from last week. Lumber was reported firm at the level established several weeks ago. Output has been somewhat curtailed by making effective the new national code and pending receipt of regional codes from Washington.

THE WEEK'S NEWS Highlights

HIGHWAY JOBS. Forty-one contracts on which bids will be received by the California State Highway Commission on three successive days commencing September 13 were advertised during the week. This is the first new construction to be undertaken in the new biennium.

The Highway Commission program contemplates award of \$10,000,000 in contracts before October 31, according to State Director of Public Works Earl Lee Kelly. Already being advertised are jobs estimated to cost in excess of \$4,000,000. (See Engineering Report Section this issue for complete estimates of construction quantities involved.)

STATE CODES. Sponsors of a competitive code for the California crushed stone, sand and gravel industry will present their case at a public hearing August 28, 10 A. M., the first hearing scheduled under the California Recovery Act. Other hearings on the calendar include: Furnace Dealers and Sheet Metal Contractors of Northern California, Inc., August 29, 10 A. M.; Retail Lumber and Lumber Building Material Industry, Sept. 7, 10 A. M.; Southern California Metal Weatherstrip Association, Aug. 28, 10 A. M. (Los Angeles).

Proposed construction code for the state filed by California State Builders' Exchange has been assigned to the Los Angeles office of the corporation commission for hearing, but no date announced.

FELONY NOW. New state legislation effective August 21 makes wage rebating to avoid payment of public works prevailing wage scales a felony. State Labor Commissioner Frank C. MacDonald announced his department would press prosecution of any complaints.

FIRST STATE CODE HEARING HERE MONDAY

Six Industry Regulatory Proposals on Corporation Commission Schedule

First public hearing on a state industrial code will be that of the crushed stone, sand and gravel industries, set for 10 a. m., Monday, according to a schedule announced yesterday by Commissioner of Corporations Edwin M. Daugherty.

Twenty proposed codes have been filed with the commission to date, including six of interest to the building industry. These are the codes offered by Furnace Dealers and Sheet Metal Contractors of Northern California, Inc.; Retail Lumber and Lumber Building Material Industry of California; Southern California Metalstrip Association; California State Builders Exchange; Furnace Dealers Association of Southern California; Crushed Stone, Sand and Gravel Industries.

The stone and gravel industry hearing has been assigned to Deputy Commissioner D. A. Pearce for hearing. All hearings in San Francisco will be in the corporation commission chambers of the state building.

Wage and hour provisions of the stone and gravel code are 36 to 40 hours per week for all labor, except clerical, emergency and employes on floating equipment; minimum wage of 40 cents an hour south of the Tehachapi, 50 cents an hour north of the Tehachapi, \$13 a week for employes on floating equipment in the south and \$14 for the same in the north. According to the sponsors of the code this will provide an increase of 15 percent in the pay of 2000 employes.

Furnace Dealers and Sheet Metal Contractors are asking for a 32-hour week and a maximum 8-hour day. Wage schedules for journeymen are fixed at \$1.18 per hour, appliance installers, \$0.75 an hour, apprentices from \$.35 to \$1.04 an hour.

The association asks for an enforcement of the code in Alameda, Contra Costa, San Mateo and Santa Clara counties and the city of Vallejo. Seventy-six contractors with 500 employes are represented, according to officials of the association. The hearing for this code is to be at 10 a. m., August 29.

WEBB RULING WILL GUIDE LABOR BUREAU

MacDonald Says His Dept. Plans to Use Bridge Pay Opinion in Enforcement

Frank C. MacDonald, state labor commissioner, yesterday declared his department would enforce the rulings given by Attorney-General U. S. Webb on wage scales to be paid for labor on the San Francisco-Oakland bridge and on structures appertaining to it. The attorney-general's opinion was given in response to an inquiry from Chief Engineer Chas. H. Purcell.

"Our attorney's analysis of the opinion makes it clear that work done off of the job site is included as part of the public work if the work consists of fabricating a part of the structure itself, according to plans and specifications set forth in the contract, instead of merely fabricating the materials which are to be used in the structure," said MacDonald.

"The work of fabricating the huge caissons at the Moore Dry Dock at Oakland, which caissons are later to be floated to the site of the San Francisco-Oakland Bay Bridge and to become a substantial part of the foundation to the bridge, was held to come under the law, whereas the work of manufacturing the pontoons and other materials which form the component parts of the caissons was held not to come under the law, the caissons being built according to specifications for this particular job and not being standard or stock material sold to the trade generally.

"In drawing the line at this point the attorney-general follows, in substance, the so-called Massachusetts rule which the Supreme Court of California has in two cases adopted as the rule of interpretation in this state, which rule is to the effect that 'where the seller is to furnish materials, and fashion them according to specifications furnished by the purchaser, or according to some model selected and when, without the special contract entered into by the parties, the thing furnished would never have been put in the particular shape or condition in which it was furnished, then the contract is essentially one for labor.' (Flynn vs. Dougherty, 91 Cal. 667, and United Iron Works vs. Standard Brass Casting Company, 69 Cal. App. 384, in which latter case a hearing was denied by the Supreme Court, thus making it a Supreme Court decision.)

U. C. EXTENSION COURSES RESUME

The University of California Extension Division, which now has the largest class department of any like institution in the world, is completing plans for the offering of close to 1500 courses of instruction in various cities and communities throughout the state during the year 1933-34.

An extensive program by which the Extension Division hopes to serve a greater number of adults than it ever has before, is being formulated at the present time, according to announcement of Prof. Leon J. Richardson, Extension Division head. New fall classes will start in August and September.

NEW ELECTRICAL CODE IN EFFECT

A new electrical ordinance is effective in Stockton, providing for licensing of all electrical contractors, shops and repair services. The annual fees are: General contractors, \$100; shops, \$25; repairmen, \$10. Registration of all mechanics is required.

Owners of homes and buildings are allowed to do their own wiring and electrical work on condition they obtain a permit from the office. All such work must be inspected by the department and approved under the code.

"Drawing the line at this point makes out enforcement problem simple and lays down a clear rule for the guidance of contractors generally in bidding upon public work, for the plans and specifications in the contract can be looked to for guidance as to whether or not a part of the structure is provided for or merely materials such as are ordinarily sold to the trade generally.

"Ready-mixed concrete prepared for the Bay Bridge at the bunkers of the Kaiser Paving Company at Oakland, for instance, was held by the attorney-general to be material to the manufacture of which the wage scale set forth in the contract would not apply. After the barges containing the ready-mixed concrete have been towed to the bridge site, however, the wage scale applies as the material is then considered as having been delivered.

"These simple rules will serve greatly to facilitate enforcement of the law and we are glad that the line has been clearly drawn for the guidance of all those interested."

DIRECTORS ASK \$3,000,000 FOR CITY SCHOOLS

Board To Make Further Structural Survey to Gauge Quake Hazards

A \$3,000,000 school building program has been recommended to Mayor Rossi by the San Francisco Board of Education, the board proposing that application be made for Federal funds to finance the work.

The proposed new schools are: Hassler Health School, Florida between 25th and 26th, \$150,000; Lawton School, 30th avenue and Lawton, no cost given; George Washington High School, 30th avenue and Geary, \$1,200,000; Marina Junior High School, Fillmore and Chestnut St., \$385,000; Sunshine School, Dolores and Dorland, \$115,000.

Alterations to 9 wooden school structures were included in the figure.

Construction of new schools is necessary to relieve overcrowding, officials said.

The Department of Public Works and consulting engineers were preparing today to make a new detailed survey of 19 steel frame school buildings to determine the work necessary to correct structural weaknesses and minimize earthquake hazard.

The Board of Education authorized immediate inspection of one school, to be named later, which will be taken as a type of the others.

Plans for the survey, which will supplement one made several months ago by the Bureau of Building Inspection, were worked out at a conference attended by John B. Leonard, chief building inspector, Ira W. Coburn, school director, Chas. Sawyer, city architect, S. J. Hester, chief deputy director of public works, and W. L. Huber, L. H. Nishkian, H. J. Brunnier and Earl Cope, structural engineers.

The conference decided that the total cost of the survey will be \$36,000. Examination of the buildings will cost \$10,000 and engineering services \$26,000.

Mayor Rossi yesterday approved an appropriation of \$5000 for a survey by building inspectors of balconies, cornices, parapet walls, and other earthquake hazards.

Chief Building Inspector John B. Leonard recommended the survey. Owners will be required to remove the hazards, Leonard said.

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Rock-Sand-Gravel-Plaster
Cement-Mixed Mortar-Stucco
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Consolidated Rock Products Co.

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Los Angeles, Calif.

PLAN SERVICE IS VIOLATION OF STATE ACT

Attorney-General Rules Architectural Statute Evaded By Draftsmen

Persons who do not hold state architects' certificates but advertise themselves as preparers of plans directly violate the Act to Regulate the Practice of Architecture, even though they do not call themselves architects, Attorney General U. S. Webb ruled yesterday in response to a query from the State Board of Architectural Examiners.

Webb's ruling affects hundreds of draftsmen doing architectural work throughout the state.

The board asked Webb's opinion on the legality of such advertisements as:

- (1) "J. J. Jones, Plan Service."
- (2) "Blank Construction Company, Plans."
- (3) "Brown & Black, using plans by _____"

Webb called attention to the section of the act which makes it unlawful for anyone not holding a state certificate to advertise to the public that he is an architect.

He quoted the definition of the term "architect" in Webster's dictionary:

"One who makes it his occupation to form plans and designs of and to draw up specifications for buildings, and to superintend their execution.

"A designer or maker."

Webb declared that the first two cases, "Plan Service" and "Blank Construction Company, Plans," were in direct violation of the act.

"They would indicate that the advertisers hold themselves as qualified to engage in the practice of architecture as that term is generally understood."

The third case, he said, was not clear. If the board meant "Brown and Black, using plans by John Jones," there would be no indication that Brown and Black were holding themselves qualified as architects. The phrase "Plans by Brown and Black" would be in violation of the law, he declared.

FEDERAL BUILDING FUND IS APPROVED

Money for the San Francisco Federal building is included in the appropriations finally approved yesterday by the PWA, according to news dispatches from Washington. The San Francisco appropriation is placed at \$2,689,089. Other appropriations for western buildings approved include Los Angeles quarantine station, \$63,000; Santa Cruz post office, \$99,000; Logan, Utah, post office, \$45,000.

Arthur Brown, Jr., is architect for the San Francisco federal building.

NRA MEMBERS ONLY MAY BID STOCKTON JOB

The city of Stockton will be among the first California municipalities to restrict bidders on public work to members of the NRA.

Proposals to be received August 28 for graveling areas in the vicinity of the Stockton port turning basin are to be restricted to firms operating under the President's employment agreement or under codes of fair competition acceptable to the NRA.

The bid call also incorporates a provision obligating the contractor to assume any sales tax on materials.

Following are the two new provisions quoted from the official advertising with which contractors soon will become familiar:

The contractor shall assume all taxes, including whatever taxes might have to be paid on account of the "Retail Sales Act of 1933."

Bidders must be members of, and purchase all materials from, members of NRA or operate under a code of Fair Competition adopted pursuant to National Industrial Recovery Act or Supplement to the California Industrial Recovery Act in Furtherance Thereof. (See subsection 1a under General Provisions of Specifications for full details concerning the same).

SAN MATEO ASKS SPECIAL SCHOOL BUILDING FUND

Strengthening of Two Structures Held Necessary by District Directors

Directors of the San Mateo union high school and junior college district have asked permission of the State Board of Equalization to levy an emergency tax of 31 cents this year for reconstruction of two school buildings to make them earthquake proof.

The special tax levy would produce \$66,000, it is estimated. This sum together with a surplus in the school district building fund would be used to strengthen Burlingame and San Mateo school buildings.

William H. Eddy, secretary of the school board, said unless the tax levy is permitted, it is probable that a bond issue will be necessary to finance the work.

STANDARD TRIM FOR SCHOOL BUSES

Standard color and trim for school busses have been specified in the new code of California school law applicable to all busses built or repainted after July 15. The law is not retroactive, however.

Following are the specifications, quoted from the new law:

"The body, fenders, hood and wheels of each school bus, the purchase of which is contracted for after July 15, 1933, and of each school bus repainted after said date, shall be painted medium chrome yellow, excepting that any molding thereon shall be black. All lettering placed upon a school bus so painted or repainted shall be unshaded and shall be black on a background of medium chrome yellow."

ASSOCIATION HAS BLUE EAGLE RULES

Interpretations of the rules for obtaining NRA emblems as they are issued by the administration are being cataloged by the Industrial Association of San Francisco. Mimeographed bulletins have been prepared on rulings issued to date.

FOR SALE...

15 — 1000-watt 16-inch Floodlights

5 — 500-watt 16-inch Floodlights

FOCUSING AND STANDARD

United Commercial Co., Inc.

SAN FRANCISCO

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234 Steuart St.

Move More Dirt Faster with LE TOURNEAU Equipment

A complete line of grading machinery — designed by a contractor — developed on actual construction jobs — built to stand continuous use under the worst conditions.

ENGINEER'S CONSULTATION FREE

R. G. LE TOURNEAU, INC.

Wilson Way at Roosevelt

Stockton, Calif.

INSPECTORS FOR TEN PWA REGIONS NAMED

**Frank Y. McLaughlin Assigned
to Local District Head-
quarters Here**

Local officials of the Public Works Advisory Board for District 6 are not acquainted with Frank Y. McLaughlin, appointed by Public Works Administrator Harold L. Ickes to be regional inspector for the PWA, it was said at the San Francisco headquarters yesterday.

McLaughlin is one of ten regional inspectors named at Washington to work directly under Lonis R. Glavis head of the division of investigations of the Department of the Interior.

The duties of these inspectors, according to the bulletin announcing their appointment will be to "see that there shall be no misuse in the expenditure of the \$3,300,000,000 public works fund."

"All of the regional inspectors are engineers familiar with the various types of construction to be undertaken in the public works program," says the announcement. "They will see to it that contract specifications are lived up to, that the government is not cheated and that government funds are disbursed as intended.

"Investigators in each region will investigate complaints filed with the regional inspector."

Regional inspectors' headquarters will be at Boston, New York, Chicago, Omaha, Portland, San Francisco, Fort Worth, Kansas City, Atlanta and Baltimore. The regional inspectors will receive their orders and report directly to the Public Works Division of Investigations in Washington.

Following are the appointees as announced:

Region 1. D. J. Barry, Young's Hotel, Boston, Mass. The region consists of Maine, Vermont, New Hampshire, Massachusetts, Rhode Island and Connecticut.

Region 2. Wharton Green, Federal Bldg., New York City. The region consists of New York, New Jersey and Pennsylvania.

Region 3. Chas. Allen, Old Post-office Bldg., Chicago, Ill. The region consists of Illinois, Indiana, Michigan, Ohio and Wisconsin.

Region 4. Robt. A. Radford, Post-office Bldg., Omaha, Neb. The region consists of North Dakota, South Dakota, Nebraska, Minnesota, Iowa and Wyoming.

Region 5. Roy F. Bessey, Post-office Bldg., Portland, Ore. The region consists of Montana, Idaho, Washington and Oregon.

Region 6. Frank Y. McLaughlin, Hughes Bldg., San Francisco. The region consists of California, Nevada, Utah and Arizona.

Region 7. G. L. Rodier, Old Post-office Bldg., Fort Worth, Tex. The region consists of Texas, Louisiana and New Mexico.

Region 8. F. W. Kassebaum, Post-office Bldg., Kansas City, Mo. The

PWA Contracts Require Employment Of All Labor Through U. S. Bureau

By Floyd O. Booe, Secretary-Mgr.,
Northern California Chapter, A.G.C.

One of the most important features in connection with the Federal Public Works construction program is that of the program of reemployment to be carried out under the direction of the National Re-employment Service affiliated with the U. S. Department of Labor. The contracts and specifications on all projects which are let will contain mandatory requirements that the contractor employ men only through this national re-employment service, and it is well for all contractors to thoroughly familiarize themselves with the requirements and the manner in which same will be carried out.

The reemployment program does not contemplate the mere placing back in employment of every charity case on the charity roll, but on the other hand is designed to make available to the employer a built up record of capable efficient men who are in need of employment and who can be relied upon to fill a proper place in a construction organization. In this respect the whole scheme is wholly different from that heretofore followed of community placement lists which were simply a list of men needing work, which list was given to the employer without segregation or distinction of the ability of the particular worker, and which have caused so much grief during the last year.

The Federal Employment Service program includes the complete card indexing of the experience and record of every man seeking employment and these records will be built up in every important community under the immediate supervision of a capable man appointed by the federal director. For the present at least it is intended that the Federal government will make use of existing agencies of the state employment service and in this respect these state agencies will become a branch of the Federal plan. In other communities where there are no state agencies a manager will be appointed by the federal director and he will work in direct cooperation with all local agencies, but will be responsible solely to the federal director of the state of California.

It is expected that the most satisfactory manner of procedure in

region consists of Colorado, Kansas, Oklahoma, Missouri and Arkansas.

Region 9. C. L. Homer Federal Bldg., Atlanta, Ga. The region consists of Mississippi, Alabama, Georgia, South Carolina and Florida.

Region 10. F. R. Keyes, Post-office Bldg., Baltimore, Md. The region consists of Tennessee, Kentucky, West Virginia, Maryland, Delaware, Virginia and North Carolina.

connection with the cooperation between the employer, the federal director and the public body awarding the contract will be for these three agencies to arrange a conference and work out a plan of procedure immediately in the beginning of every job, and all firms on public work in future are requested to keep this phase of the matter particularly in mind and be prepared to cooperate on this basis.

There will probably be many difficulties to be ironed out pending the smooth functioning of the whole program but it is believed the cooperative arrangement which will be set up should shortly be functioning in an efficient manner.

The Federal Reemployment Director for the State of California is Mr. J. A. Stellern, whose address is 613 State Building, San Francisco, and the supervisor in charge of the Southern California district will be Mr. Henry E. Walker, whose address is 302 State Building, Los Angeles.

MODESTO PAINTERS FORM ASSOCIATION

Twenty-two members joined the Modesto Master Painters' Association at the organization meeting.

A. J. Felt was elected president; E. Miller, vice-president, and G. L. Virgin, secretary-treasurer.

The association members have agreed to a seven-hour day and five-day week with minimum wages of 90 cents an hour.



In San Francisco

A welcoming room...an enterprising chef...a Union Square location (and that says volumes if you know your San Francisco) ...These are among the Plaza features that will brighten the days of your visit here + +

RATES: \$2 to \$4

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**HOTEL
PLAZA**
POST STREET AT STOCKTON
SAN FRANCISCO

U. S. REPORTS COAST GAIN IN BUILDING

**Improvement Over June Shown
Last Month in West; Na-
tional Total Drops**

Building permit reports collected by the Bureau of Labor Statistics from 776 identical cities over 10,000 population indicate a decrease of 10.6 percent in the number and 11.3 percent in total expenditures in July compared with June. Eighty-three cities of the mountain and Pacific group of states show a slight increase between the two months.

New residential buildings decreased 6.9 percent in number and 8.8 percent in indicated expenditures during this period.

New nonresidential buildings decreased 8.6 percent in number, while indicated expenditures for this type of building decreased 4.9 percent.

The number of additions, alterations and repairs decreased 11.7 percent, while indicated expenditures for this type of construction decreased 19.8 percent.

During July, 1933, 3,293 family-dwelling units were provided in new buildings. This is a decrease of 17.1 percent as compared with June.

Contracts awarded by the various agencies of the United States Government during July totaled only \$528,382. This compares with Government awards of over \$10,000,000 in July, 1932, and over \$1,000,000 in June, 1933.

Comparing permits issued in 345 identical cities having a population of 25,000 or over in July, 1933, and July, 1932, there was an increase of 30.1 percent in the number and an increase of 43.0 percent in indicated expenditures for new residential building.

New nonresidential buildings decreased 2.6 percent in number and 41.0 percent in estimated value.

The number of additions, alterations, and repairs increased 19.5 percent, while estimated expenditures for this type of building increased 18.8 percent.

The number of total building operations increased 15.3 percent. Indicated expenditures for total building construction, however, decreased 10.1 percent.

The number of family-dwelling units provided in new dwellings increased 31.6 per cent comparing July 1933 with July 1932. For three consecutive months there has been an increase in the number of family dwelling units as compared with the same month of the previous year.

Permits were issued during July 1933 for the following important buildings: In St. Louis, Mo., for a municipal auditorium to cost \$3,000,000; in Fort Worth, Texas, for a public-utilities building to cost \$400,000; in the Borough of Manhattan for additions, alterations, and repairs to cost nearly \$850,000;

BIDS ASKED ON COULEE DRILLING

SPECIAL TO DAILY PACIFIC BUILDER

SEATTLE, Wash., August 18. —Bids were asked today by Columbia Basin Commission on 21,000 feet core drilling and test excavation at the site of the Grand Coulee dam on the Columbia river. Proposals on the contract will be received Sept. 1 by the commission at its offices in Spokane.

Preliminary engineering on the dam is being financed by the state of Washington. Actual construction will be under the Reclamation Bureau with Frank E. Banks, engineer in charge.

The Federal Public Works Administration has authorized \$63,000,000 for initial construction, with an ultimate outlay of \$400,000,000 estimated.

CONTRACTORS ORGANIZE AT PALO ALTO MEET

Organization of a general contractors association for Northern Santa Clara and Southern San Mateo counties was effected at a special meeting held in Palo Alto Wednesday night.

Harry Dabinett, of Palo Alto was elected president of the new organization. Neal Darrah, of Mountain View was named vice president and Vance M. Brown, Palo Alto, secretary. The board of directors include the foregoing and Ralph Follmer, Ed Schmalung and Bert Tunberg, of Palo Alto; Len Follett, East Palo Alto; C. Lindholm, Mountain View and M. Klay, of Menlo Park.

The board of directors was assigned the task of preparing an NRA code to be presented at the next meeting.

COUNTY PAINTERS' ASSOCIATION ELECT

Officers of painters and decorators associations in two counties have been elected at meetings held recently.

A. R. Elliott is president of the San Mateo county association; W. L. Ball, vice-president; and Emil J. Moklofsky, secretary. The association has approved the state code for master painters.

J. J. Burdon, Jr., is temporary chairman of the Contra Costa county association and Charles A. Long, temporary secretary.

in Houston, Texas, for a school building to cost \$450,000, and in Portland, Oregon, for mercantile buildings to cost over \$500,000.

Following are the figures for various classes of building in the 83 cities of the mountain and Pacific group from which statistics were obtained:

	June	July
Residential	\$2,255,566	\$2,556,330
Non-residential	1,686,821	1,798,613

Total (including alterations, repairs) \$6,254,779 \$6,321,147

SURVEY REVEALS HOUSE SHORTAGE IN BIG CITIES

**Rapid Improvement in Real
Estate Market Reported
By Association**

Real estate activity is rising. The increased activity is measurable and well distributed. That is the outstanding fact shown by the twenty-first semi-annual survey of the real estate market made by the National Association of Real Estate Boards, according to a summary just released.

"This is the first time since June, 1927, in which this semi-annual survey has shown a predominating upward trend in market activity," says the Association report.

"The survey tabulates confidential reports from the association's member boards in the principal cities of the country. The current study covers 245 cities. Of the 245 cities, 39 percent report a more active real estate market than last year at this time, 34 percent report a less active market, 27 percent state that activity is approximately on last year's level.

"The picture is changing rapidly. The February survey of this year showed 65 percent of the cities with a market less active than the previous year, 24 percent in a stationary condition, and only 11 percent with increased activity. The low of the four year depression period from the point of view of market trends (though not from the point of view of price levels) came in July of 1932, when 69 percent of the cities reporting showed declining activity and only 9% showed increased activity.

"Recent gain is most general in the East South Central section, where 67 percent of the cities show a more active market and not a single city checks "less active." In the West South Central section 53 percent of the cities show an up movement; in the South Atlantic section, 50 percent; in the Pacific section 55 percent. Strongest pick-up so far has come in the group of cities of between 200,000 and 500,000 population, where 55 percent report rising activity.

In 33 per cent of the cities of over 500,000 population there is a shortage in single family dwellings. Not one of the cities in this group showed such a shortage six months ago. Undersupply of one-family houses is indicated in 12 percent of all the cities. This is 5 percent more cities than showed such a situation in February. Many cities report that with any return to normal buying power they would have a dwelling shortage. Where over-supply exists there is often at the same time an actual shortage of new, modern houses, the overstock being heaviest in large old houses.

PERMITS AND CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
No.	Owner	Contractor	Amt.
617	Cooper	Owner	2000
618	Finnila	Owner	5000
619	Janian	Sharman	4800
620	Shemanski	Malloch	4000
621	Murer	Murer	3500
622	Peterson	Owner	3500
623	Wilson	Owner	4000
624	Brown	Borsi	3800
625	Anderson	Owner	4000
626	Joyce	Pearson	1500
627	Depaoli	Lindsay	3948
628	Hadicke	Akard	12000

DWELLING

(617) W RHODE ISLAND 225 N 25th St. One-story and basement frame dwelling.
Owner—Mrs. L. Cooper, 2137 24th St., San Francisco.
Architect—Not Given. \$2000

BATH

(618) N MARKET 50 E Noe St. One-story frame public bath.
Owner—M. A. Finnila, 4032 17th St., San Francisco.
Engineer—W. Adrian, 417 Market St., San Francisco. \$5000

STORE & DWELLING

(619) E NINTH AVE. 225 S Irving; two-story and basement frame store and dwelling.
Owner—S. S. Janian, % 3700 Broderick Street.
Plans by B. K. Dobkowitz, 425 Monterey Blvd.
Contractor—T. R. Sharman, 3700 Broderick St. \$4800

STORE

(620) SE JUDAH ST. and 28th Ave.; one-story frame store.
Owner—L. Shemanski, 1017 Market St.
Contractor—J. S. Malloch, 666 Mission. \$4000

DWELLING

(621) N QUESADA AVE. 125 E Ingalls. One-story and basement frame dwelling.
Owner—L. Murer, 1815 Mason St., San Francisco.
Architect—Not Given.
Contractor—L. Murer, 1815 Mason St., San Francisco. \$3500

DWELLING

(622) S SENECA 145 E Delano St. One-story and basement frame dwelling.
Owner—A. R. Peterson, 60 Cotter St., San Francisco.
Architect—Not Given. \$3500

DWELLING

(623) N ALTON 100 E Ninth Avenue. Two-story and basement frame dwelling.
Owner—Dr. L. E. Wilson, 515 Central Ave., San Francisco.
Architect—Not Given. \$4000

DWELLING

(624) E HARRISON 150 N Twenty-second St. One-story and basement frame dwelling.
Owner—M. Brown, 148 Highland Ave., San Francisco.
Architect—Not Given.
Contractor—C. L. Borsi & Son, 1279 25th Ave., S. F. \$3800

DWELLING

(625) NW FIFTEENTH AVE AND Wawona St. One-story and basement frame dwelling.

Owner—S. R. Anderson, 1433 7th Ave., San Francisco.
Architect—F. F. Amandes, 1879 18th Ave., San Francisco. \$4000

ALTERATIONS

(626) SE FIFTH AND FOLSOM STS. Alter rooming house.
Owner—S. Joyce, 315 Fifth St., San Francisco.
Architect—Not Given.
Contractor—Pearson & Johnson, 2031 Bryant St., San Francisco. \$1500

DWELLING

(627) W ALEMANY 225 N Santa Rosa St. One-story and basement frame dwelling.
Owner—L. and J. Depaoli, 3289 Mission St., San Francisco.
Architect—Not Given.
Contractor—C. T. Lindsay, 140 DuBoce Ave., San Francisco. \$3948

DWELLING

(628) NE BAKER & NORTH POINT STS. Two-story and basement frame dwelling.
Owner—C. Hadicke, % Architect.
Architect—F. F. Amandes, 1879 18th Ave., San Francisco.
Contractor—W. C. Akard, 225 Cervantes St., S. F. \$12,000

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
No.	Owner	Contractor	Amt.
355	Spare	Norgrove	7559
356	Hepburn	Bunker	4500
357	Brasch	Owner	7400
358	Kilburn	Pickrell	2900
359	Lindgren	Monroe	7944
360	Crumb	Petersen	4750
361	Pacific	Yick	4885
362	Larson	Leekins	4000
363	Bowles	Swanstrom	4000
364	Key	Steel	14000
365	Roberts	Hubbard	4150
366	Smith	Monroe	1000

DWELLING

(355) NO. 1701 EUCLID AVE., BERKELEY. Two-story ten-room frame dwelling.
Owner—H. I. Spare, 2510 Bancroft Way, Berkeley.
Architect—Irwin M. Johnson, 2215 7th Ave., Oakland.
Contractor—C. M. Norgrove, 2220 Roosevelt Ave., Berkeley. \$7559

DWELLING

(356) 2247 MOUNTAIN BLVD., OAKLAND; two-story 6-room dwelling.
Owner—H. M. Hepburn, 6722 Sims Dr., Oakland.
Architect—F. H. Slocombe, 131 Monte Cresta Ave., Oakland.
Contractor—Glenn Bunker, 512 Central Bank Bldg., Oakland. \$4500

DWELLING

(357) 1600 MOUNTAIN BLVD., OAKLAND; two-story 6-room dwelling.
Owner & Builder—M. P. Brasch, 1795 Brandon St., Oakland.
Architect—Not Given. \$7400

ALTERATIONS

(358) 350 MOUNTAIN AVE., PIEDMONT; alterations.
Owner—Earl B. Kilburn, premises.
Architect—Not Given.
Contractor—J. H. Pickrell, 332 Santa Clara Ave. \$2900

RESIDENCE

(359) 25 WILDWOOD GARDENS, PIEDMONT; residence and garage

Owner—B. R. Lindgren.
Architect—Miller & Warnecke, Financial Center Bldg., Oakland.
Contractor—J. W. Monroe, 5538 Claremont Ave. \$7944

DWELLING

(360) NO. 1800 YOSEMITE AVE., BERKELEY. Two-story 8-room frame dwelling and garage.
Owner—Joseph Crumb, 1511 Posen St., Berkeley.
Plans by Owner.
Contractor—G. Petersen, 825 Evelyn Ave., Albany. \$4700

FACTORY

(361) NO. 130 FOURTH ST., OAKLAND. Two-story brick factory.
Owner—Pacific Cigar Box Co., 130 Fourth St., Oakland.
Architect—Not Given.
Contractor—Frank Yick, 300 8th St., Oakland. \$4885

DWELLING

(362) NO. 2922 SHEFFIELD AVE., OAKLAND. Two-story six-room dwelling.
Owner—Carl Larson, 4481 Moraga Ave., Oakland.
Architect—Not Given.
Contractor—C. W. Leekins, 4481 Moraga Ave., Oakland. \$4000

ALTERATIONS

(363) NO. 1717 BROADWAY, OAKLAND. Alterations.
Owner—Mary A. Bowles, % Architect.
Architect—Edward T. Foulkes, 357 12th St., Oakland.
Contractor—Geo. Swanstrom, 1615 78th Ave., Oakland. \$4000

BRIDGES

(364) KEY ROUTE PIER, OAKLAND Steel passenger bridges.
Owner—Key System Railway Co., 22nd and Grove Sts., Oakland.
Architect—Not Given.
Contractor—Steel Erectors Consolidated, Foot of 17th St., Oakland. \$14,000

DWELLING

(365) NO. 5919 DOVER ST., OAKLAND. One-story 5-room dwlg.
Owner—Ed. Roberts, 2901 Brookdale Ave., Oakland.
Architect—Not Given.
Contractor—J. F. Hubbard, 2901 Brookdale Ave., Oakland. \$4150

ALTERATIONS

(366) NO. 722 SANTA BARBARA ROAD, BERKELEY. Alterations and additions.
Owner—A. G. Smith, 722 Santa Barbara Road, Berkeley.
Architect—Not Given.
Contractor—J. W. Monroe, 5538 Claremont Ave., Berkeley. \$1000

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

131	Board of Trustees	Otis	12820
132	Easley	Leekins	5659
133	Morgan	Larsen	6554
134	Depaoli	Lindsay	3948

STAGE EQUIPMENT HOISTS

(131) TWO CITY BLOCKS bounded by Van Ness Ave., Franklin, McAllister and Grove Sts., including Fulton and Ash Sts. bet. Van Ness Ave. and Franklin and Birch Sts. which streets have been closed by city ordinance; to furnish and in-

stall in place complete the stage equipment hoists for the Opera House of the War Memorial of San Francisco.

Owner—The Board of Trustees of the War Memorial of San Francisco, 250 Bush Street.

Architect—Arthur Brown, Jr., and Albert Lansburgh, 251 Kearny St.
Contractor—Otis Elevator Co., I Beach Street.

Filed Aug. 18, '33. Dated Aug. 7, '33.
On or about 10th of each mo.....75%
Usual 35 days25%

TOTAL COST, \$12,820

Bond, \$6410. Sureties, National Surety Corp. Limit, 60 days. Plans and Specifications filed.

ALTERATIONS

(132) LOT 16 AND PTN LOT 17 BLK 6 Map Sub. No. 1, Clarendon Heights. All work for alterations to two-story frame and stucco residence and garage.

Owner—Julia M. Easley.
Architect—Miller & Warnecke, Financial Center Bldg., Oakland.

Contractor—C. W. Leekins, 1652 Hopkins St., Oakland.

Filed Aug. 22, '33. Dated Aug. 14, '33.
Frame up\$1414.92
Plaster finished 1414.92
When completed 1697.92
Usual 35 days 1131.94

TOTAL COST, \$5659.70

Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.

STORE BLDG.

(133) N FIFTEENTH ST. 25 E Minna 42x90 Mission Block 31. All work for concrete store building.

Owner—Hamilton Morgan, 2821 16th St., San Francisco.

Architect—Arnold Constable, 580 Market St., San Francisco.

Contractor—Larsen & Larsen, 629 Bryant St., San Francisco.

Filed Aug. 22, '33. Dated Aug. 21, '33.
On or before 10 of each month 75%
Usual 35 days 25%

TOTAL COST, \$6554

Bond, none. Limit, 60 days. Forfeit, none. Plans and specifications filed.

DWELLING

(134) LOT 29 BLK 6795C Alemany Terraces. All work for one-story and basement5-room and breakfast room and patio dwelling.

Owner—Josephine T. and L. Depaoli, 3289 Mission St., San Francisco.

Architect—T. E. Jensen.
Contractor—Claude T. Lindsay, 4363 26th St., San Francisco.

Filed Aug. 23, '33. Dated Aug. 21, '33.
Tar and gravel roof on\$ 900
Brown plaster on 950
When completed 950
Usual 35 days 1148

TOTAL COST, \$3948

Bond, none. Limit, 75 days. Forfeit, none. Plans and specifications filed.

ALAMEDA COUNTY

53 Starr	Dwight	400
54 Eliw	Daw	4340
55 U. of C.	Ransome	3519

SUPERVISION

(53) NORTH SIDE ROOSEVELT Dr. 40 ft. west of Regent St., Alameda; supervision on complete construction of 6-room residence.

Owner—Emily Starr, 315 15th St., San Francisco.

Architect—F. H. Slocombe, Oakland.
Contractor—Harry C. Dwight, 315 15th St., Oakland.

Filed Aug. 17, '33. Dated July 31, '33.
When rafters are on bldg.....\$100
Rough plastering completed..... 100
90 days after bldg. accepted..... 200

TOTAL COST, \$400

Limit, 75 days.

STORES

(54) PTN LOTS 17 and 20 BLK 1, map of Graves & Taylor Tract, Berkeley; two stores with living quarters.

Owner—George Eliw.
Architect—Not Given.
Contractor—Leslie C. Daw, Contra Costa Road.

Filed Aug. 17, '33. Dated Aug. 15, '33.
Present bldg. wrecked.....\$100.00
Second floor in place..... 848.00
Ready for plastering..... 848.00
Plastering completed 848.00
Completion 848.00
Usual 35 days 847.98

TOTAL COST, \$4339.98

Bond, \$4339.98. Sureties, American Employers Ins. Co. Limit, 90 days.

(55) UNIVERSITY OF CALIFORNIA Berkeley. All work for tennis courts.

Owner—Regents of University of California, Berkeley.
Architect—H. B. Foster, University of California, Berkeley.

Contractor—B. Ransome (as Ransome Co.), 4030 Hollis St., Emeryville.

Filed Aug. 23, '33. Dated Aug. 14, '33.
On completion 75%
Usual 35 days 25%

TOTAL COST, \$3519

Bonds, Labor and materials, \$2000; performance, \$2000. Surety, U. S. Fidelity & Guaranty Co. Limit, 30 days. Forfeit, \$25 per day. Plans and specifications filed.

SAN FRANCISCO UNDER \$1000

ALTER store, \$700; 27 Seventh St.; owner, J. D. Phelan Estate, % Architect; architect, C. Gelfuss, 1095 Market St.

REPAIR flats, \$180; 711 Naples St.; owner, A. Crudo, 711 Naples St.

BARBER pole, \$30; 43 Franklin St.; owner, J. Phillis, Premises.

ROOF over shed, \$100; San Jose Ave. and Niagara St.; owner, C. Blalnick, 687 Paris St.

STUCCO front of dwelling, \$450; 3200 Greenwich St.; owner, F. Gallard, 1432 Mason; contractor, J. Oliiva, 542 Vienna St.

ALTER private garage, \$375; 17 Boardman Place; owner, T. Asselana, 17 Boardman St.; contractor, G. Inoue, 804 Montgomery St.

SIGN, electric, \$300; 650 Market St.; owner, New York Hat Stores, 650 Market St.; contractor, Electric Products Corp., 255 Golden Gate.

SIGN, electric, \$—; 501 Hayes St.; owner, P. Abinanti, Premises; contractor, Apex Elec. Co.; 363 Fell St.

ALTER dwelling, \$750; 61 Waterville; owner, Steve, Premises; contractor W. Hummer, 5811 Mission St.

SIGN, electric, \$200; 65 Sutter St.; owner, Desk Exchange, Premises; contractor, Elec. Prods. Corp., 255 Golden Gate Ave.

SIGN, electric, \$95; 1901 Geary St.; owner, Scotty's, Premises; contractor, American Elec. Sign Co., 1740 Eddy St.

ALTER restaurant, \$200; 498 Fourth; owner, C./M. Stelling, 3570 18th.

STUCCO dwelling, \$135; 2483 Bryant St.; owner, F. Del Carlo, 2844 23rd St.; contractor, H. Gergert, 876 Treat Ave.

ALTER rooming house, \$50; 2029 Pierce St.; owner, J. Reid, 2029 Pine St.

ALTER beer parlor, \$100; 1232 Grant Ave.; owner, S. Demaria, 1329 Bay St.; contractor, Home Carpenter Shop, 1659 Powell St.

ALTER dwelling, \$125; 184 Belvedere St.; owner, A. Brown, Premises.

RETAINING wall, \$200; S 19th St. 155 E Noe St.; owner, A. Buschke, 542 Judah St.

SIGN, electric, \$150; 601 Turk St.; owner, Pacific Tire Sales, Prem;

contractor, Elec. Prods. Corp., 255 Golden Gate Ave.

ADD to dwelling, \$380; 1853 Church St.; owner, P. J. O'Neill, Premises contractor, H. Erickson, 972 Chenery St.

SIGN, electric, \$50; 551 Polk St.; owner, Pacific Tire Sales, Premises; contractor, Elec. Products Corp., 255 Golden Gate Ave.

ALTER beer parlor, \$500; 563 Sixth; owner, A. Marty, Premises.

ALAMEDA COUNTY UNDER \$1000

ALTERATIONS, \$200; 442 17th St., Oakland; owner, D. Elfers, 440 17th St.

ALTERATIONS, \$500; 3906 Lyon Ave., Oakland; owner, O. E. Lofgren, 1343 E-132nd St.

ALTERATIONS, \$36; 1120 Broadway, Oakland; owner, Harry Gross, 1120 Broadway.

ALTERATIONS, \$800; 1205 Washington St., Oakland; owner, Lerner Stores, Inc.; architect, Miller & Warnecke, Financial Center Bldg., contractor, Price Constr. Co., 1723 Webster St.

GARAGE, one-story, \$100; 19 Redding Place, Oakland; owner, W. Kay, 19 Redding Place.

ALTERATIONS, \$75; 194 7th St., Oakland; owner, Ong Fung Young, 662 12th St.

ADDITION, \$125; 3619 66th Ave., Oakland; owner, H. R. Gibson, 987 Sunnyside Road.

ADDITION, \$650; 6140 Colby St., Oakland; owner, M. Isola, 5232 Claremont Ave.; contractor, E. Campomenosi, 6401 Broadway Terrace.

ALTERATIONS, \$300; 2206 9th Ave., Oakland; owner, D. D. Banta, 2206 9th Ave.

ALTERATIONS, \$150; 35 Parkside Drive, Berkeley; owner, Walter Rohison, Premises.

RESHINGLING, \$115; 5220 Market St., Oakland; owner, P. Peruzzo, 5220 Market; contractor, J. H. Lamme, 902 Market St.

GARAGE, one-story, \$490; 838 Mandana Blvd., Oakland; owner, Jamieson-Towle-Willoughby Corp, 372 17th St.; contractor, Willis F. Lynn, 1037 Ashmount Ave.

ALTER for garage, \$150; 1615 22nd Ave., Oakland; owner, E. Engdahl, 1616 9th Ave.

ALTERATIONS, \$75; 2840-42 San Pablo Ave., Oakland; owner, J. A. Steele, 2842 San Pablo Ave.

SIGN, electric, \$200; 440 13th Street, Oakland; owner, Ben Pearl; contractor, Elec. Prod. Corp., 950 30th St.

GARAGE, private, \$175; 1001 Ashby Avenue, Berkeley; owner, Chas. L. Hughes Co.; contractor, E. T. Lesure, 87 Ross Circle, Oakland.

ALTERATIONS, \$98; 1021 Cedar St., Berkeley; owner, Mrs. Lemon, 1021 Cedar St.; contractor, Krafft & Patrick, 1895 San Juan Ave.

ALTERATIONS, \$114; 1615 Addison St., Berkeley; owner, C. W. Scanlon, 810 Contra Costa Ave.; contractor, Ideal Roof Co., Richmond.

ALTERATIONS, \$175; 1639 62nd St., Berkeley; owner, O. Turner, Prem. contractor, Crown Roof Co., 2609 E-14th St., Oakland.

ALTERATIONS, \$98; 3347 Grove St., Berkeley; owner, Bank of America 12th and Broadway, Oakland.

SIGN, electric, \$350; 477 14th St., Oakland; owner, Crescent Corset Shop; contractor, Elec. Prods. Corp., 950 30th St.

ADDITION, \$100; 2031 57th Ave., Oakland; owner, Antonio Peguero, 2031 57th Ave.

SIDEWALK repairs, \$75; NE 12th and Franklin Sts., Oakland; owner, St. Marks Hotel, Premises; contractor, T. J. Harvey, 5686 Ocean View Drive.

BUILDING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

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| 4.—Factories and Warehouses | 13.—Public Buildings, Fire Houses and Jails |
| 5.—Flats | 14.—Residences |
| 6.—Garages and Service Stations | 15.—Schools |
| 7.—Federal Buildings | 16.—Banks, Stores and Theatres |
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| 10.—Hotels | 20.—Misc. Supplies & Materials |

1—APARTMENTS

August 18, 1933

Contract Awarded.

APARTMENTS Cost, \$75,000
LOS ANGELES, Calif. 555 Rossmore Avenue.

Three-story reinforced concrete, frame and plaster apartments (59x133) 55 rooms, shingle roof, cast stone trim, ornamental iron, fire escapes, cast stone mantels, electric refrigeration, Class A basement garage, automatic sprinkler system, incinerator, ventilating system, etc.

Owner—S. F. Slusher.

Architect—Milton J. Black, 807 North Spaulding Ave., Los Angeles.

Contractor—Security Finance & Bldg. Co., Hollywood Guaranty Bldg., Los Angeles. 1

Owner Taking Segregated Bids.

APARTMENTS Cost, \$50,000
SAN FRANCISCO. W Pierce St. 110 N McAllister Street.

Three-story and basement frame and stucco apartments (15 2- and 3-room apts.) composition ten-year roof, 18-car garage, gas - steam heating plant, elevator, individual electric refrigeration, canvas walls hardwood floors, tiled baths and showers, electric ranges, etc.

Owner—Patrick Horgan, 930 Pierce.

Architect—Irvine and Ebbets (R. R. Irvine, architect) 2048 Market St.

Grading—Devincenzi Bros., 150 Collins Street.

Bids are being received on all portions of the work.

To Ask Bids Within One Week.

APARTMENTS Cost, \$15,000
VALLEJO, Solano Co., Calif. Marin Avenue.

Two-story and basement frame and stucco apartment building (four 4-room apts.) tile roof, gas hot air heating system, oak floors, wall beds, etc.

Owner—Withheld.

Architect—Chas. E. Perry, 514 Marin Ave., Vallejo.

Bids will be taken from a selected list of contractors.

Project Cancelled.

APARTMENTS Cost, \$20,000
SAN FRANCISCO. N Broadway East Hyde Street.

Three-story and basement frame and stucco apartments (six three-room apts.) composition roof, gas hot air heating system, hardwood floors, tiled baths, electric refrigeration, etc.

Owner—Jos. Vigil, 3110 Laguna St.

Architect—R. R. Irvine, 2048 Market.

3—CHURCHES

August 18, 1933

Commissioned To Prepare Plans.

REBUILD CHURCH Cost, \$100,000
LONG BEACH, Los Angeles Co., Calif. Fifth and Locust Ave.

Rebuild church building (new exterior walls of reinforced concrete construction, etc.)

Owner—First Christian Church.

Architect—W. H. Austin, 532 Chestnut Ave., Long Beach. 3

Preparing Working Drawings.

CHURCH Cost, \$15,000
CRESCENT CITY, Del Norte Co., Cal. One-story reinforced concrete church (to seat 275).

Owner—Roman Catholic Archbishop (Father Nolan, pastor) Crescent City.

Architect—Harry Devine, California State Life Bldg., Sacramento. Bids will be asked about Sept. 1.

Plans Being Prepared.

CHURCH Cost, \$6000
DUNSMUIR, Siskiyou Co., Cal.

One-story frame and stucco residence

Owner—Dunsmuir Church (Father M. J. O'Connell, Pastor), Dunsmuir.

Architect—Chester Cole, Chico.

Bids will be asked in one week.

4—FACTORIES & WAREHOUSES

Steel Contract Awarded.

FACTORY Cost, \$750,000
OAKLAND, Alameda Co., Cal. Foot of Adeline Street on the Estuary.

Steel frame and concrete cocoanut products factory (650x100 ft.) steel frame and reinforced concrete warehouse (40x146 ft.) pile foundations, flat slab roofing, corrugated iron roof and siding.

Owner—El Dorado Oil Works, Third and University Ave., Berkeley.

Engineers—Ellison & Russell, Pacific Bldg., San Francisco.

Steel—Independent Iron Works, Ltd., 1820 Chase St., Oakland.

Work involves furnishing, fabrication and erection.

Bids will be asked shortly on the placing of sheet metal by L. S. King, Premises.

Revised Plans Being Completed.

CREAMERY Cost, \$18,000
SAN FRANCISCO. Stockton St. and Card Alley.

Two-story and basement wood frame and stucco creamery (61x113 feet).

Owner—L. Giannone, 225 Columbus Ave., San Francisco.

Plans by Peter Canali, 65 Columbus Ave., San Francisco.

Lessee—Sonoma Mission Creamery.

Bids will be asked in about two weeks.

Contract Awarded.

FACTORY Cost, \$5000
OAKLAND., Alameda Co., Cal. 130 Fourth Street.

Two-story brick factory.

Owner—Pacific Cigar Box Co., 130 Fourth St., Oakland.

Architect—Not Given.

Contractor—Frank Yick, 300 Eighth St., Oakland.

Contract Awarded.

WAREHOUSE Cost, \$17,000
FRESNO, Fresno Co., Calif. Ventura Avenue and P Street.

One-story and basement warehouse (133x206 feet) brick walls, wood

trusses, mill construction, concrete floors, tar and gravel roof, automatic sprinkler system, steel sash, etc.

Owner—Wellman Peck & Co., 201 The Embarcadero, San Francisco.

Architects and Engineers—J. E. Kraft & Son, Phelan Bldg., San Francisco.

Contractor—T. C. Irwin, 260 N Fulton St., Fresno.

General contract does not include elevator, plumbing, heating, electric, electric light fixtures, interior partitions, vault doors and lining, painting and hardware. Bids on these portions of the work will be taken in 1 week.

Being Done By Day's Work.

IMPROVEMENTS Cost, \$50,000
CROCKETT, Contra Costa Co., Calif.

Improvements to building at refinery (reinforced concrete work, etc.)

Owner—California & Hawaiian Sugar Refining Corp., Crockett.

Engineer—Henry Dewell, 55 New Montgomery St., San Francisco.

Work is being done by day's labor by owner's own forces.

Sub-Contracts Awarded.

WINERY Cost, \$75,000

DELANO, Kern Co., Cal. Eleven-vat winery.

Owner—Walter J. Wallace (A. P. Minetti, Plant Mgr.)

Architect—Not Given.

Contractor—G. A. Graham, 613 19th St., Bakersfield.

Lumber—King Lumber Co., Bakersfield.

Cement—Yosemite Cement Co., Merced Rock—Bakersfield Rock & Gravel Co., Bakersfield.

Sand—C. W. Hartman, Bakersfield. Reinforcing Steel and Structural Steel—Kyle & Co., Fresno.

Roofing bids will be taken within one week.

Construction Under Way.

REBUILD CANNERY Cost, \$100,000
TAKU, Alaska.

Rebuild cannery recently destroyed by fire.

Owner—Libby, McNeil & Libby, P. O. Box 1902, Seattle, Wash.

Plans by Engineering Dept. of Owner.

Work is now being done by owner's forces. Foundations are being laid.

Grading Contract Awarded.

FOUNDRY Cost, \$50,000
SOUTH SAN FRANCISCO, San Mateo Co., Cal. Tanforan Avenue.

One-story mill type foundry (steel and corrugated iron roof, concrete foundations, etc.)

Owner—American Brake Shoe & Foundry Co., 74 New Montgomery St., San Francisco.

Engineer—K. Theill, 580 Market St., San Francisco.

Grading—J. S. Baker, 740 Farrington Lane, Burlingame.

Bids on concrete will be taken in ten days. Bids on steel sash, roofing, and steel doors, glass and glazing and railroad layout are in and will be awarded within a few days.

August 23, 1933

Contract Awarded.
WAREHOUSE Cost, \$15,000

SANTA CLARA, Santa Clara Co., Cal. One-story wood frame warehouse (concrete floors, built-up roof, etc.)

Owner—Pacific Redwood Casket Co., Santa Clara.

Architect—Henry Collins, Decker Oak Bldg., Palo Alto.

Contractor—Gny M. Latta, 157 Rhodes Court, San Jose.

Sub-Contracts Awarded.
PACKING PLANT Cont. Price, \$51,140
LINDSAY, Tulare Co., Cal.
 One-story, basement and mezzanine reinforced concrete packing plant (250x130 feet) concrete walls, steam heating system, ventilating equipment, concrete floors, wood roof, steel sash, sheet metal skylights, plaster partitions.
 Owner—Lindsay Farm Bureau Packing Company.
 Architect—W. W. Ache, 1616 Fourth Ave., Los Angeles.
 Contractor—Los Angeles Contracting Co., 4816 W. Pico St., Los Angeles.
Roof Trusses — Arch-Rib Truss Co., Los Angeles.
Roofing—Morrow Roofing Co., Los Angeles.
Steel Sash and Reinforcing Steel—Soule Steel Co., Los Angeles.
Lumber—W. R. Spaulding Lumber Co., Lindsay.
Steel-Forms — Steelform Contracting Co., 131 Perry St., San Francisco.
Electric Work—Geo. Delano Elec. Co., Lindsay.
Millwork—E. J. Foote Planing Mill, Lindsay.
Waterproofin — A. C. Horn Co., Los Angeles.
Ornamental and Miscellaneous Iron—Jackson Iron Works, Huntington Park.
Finish Hardware—Hammond Lumber Co., Los Angeles.
Rock — Pacific Coast Aggregates, 85 Second St., San Francisco.
Plumbing — City Plumbing & Sheet Metal Works, Lindsay.

Sub-Contracts Awarded.
PLANT Cost, \$120,000
SEATTLE, Wash. 615 Orchard St.
 Three-story fireproof plant (180x140 ft.) exterior concrete walls, brick facing, metal sash windows, freight elevator, etc.
 Owner—Continental Can Co., Inc., 815 Adams St., Seattle.
 Plans by Contractor.
 Contractor—Austin Co., Dexter Horton Bldg., Seattle.
 Tru-Mix concrete awarded to Pioneer Sand & Gravel Co.; electrical work to NePage-McKenny Co.; plumbing and heating to Rautman Plbg. & Htg. Co.; sprinkler system to Grinnel Co.; reinforcing steel to Pacific Coast Steel Co. and Northwest Steel Co.; elevators to Otis Elevator Co.; lumber to Elliott Bay Mill; brick to Builders' Brick Co. Excavation was done by the general contractor.

Planned.
CANNERY Cost, \$—
SANTA CRUZ, Santa Cruz Co., Cal.
 Mushroom cannery (five large sheds, etc.; capacity of 1000 lbs. per day).
 and James T. Young, Santa Cruz.
 Owner—C. W. Savery, Denver, Colo.,
 Architect—Not Given.

Still Contract Awarded.
ADDITION Cost, \$800,000
OLEUM, Contra Costa Co., Cal.
 Addition to lubricating plant.
 Owner — Union Oil Co., Mills Bldg., San Francisco.
 Plans by Engineering Dept. of Owner.
Stills—Consolidated Steel Corp., Balbor Bldg., San Francisco.
 As previously reported, grading awarded to U. E. Lee, 1059 Carpenter St., San Leandro; tanks to Berkeley Constr. Co., Second and Camelia Sts., Berkeley.
 Mr. Roy Heise, Oleum, is in charge of the construction.

Plans Being Prepared.
LA GRANDE, Oregon.
BREWERY Cost, \$50,000
 Remodel Roach brewery (new equipment, modernization of plant).
 Owner—Eastern Oregon Brewery, La Grande, Oregon (M. W. McIntoch

and George W. Singer, Officials).
 Architect—Not Given.
Reinforcing Steel Contract Awarded.
ALTERATIONS Cost, \$4000
EMERYVILLE, Alameda Co. Cal. 65th and Bay Streets.
 Alterations to warehouse.
 Owner—Peterson Tallow Co., 65th and Bay Sts., Oakland.
 Plans by Owner.
 Contractor—S. G. Johnson, 4652 Dolores St., Oakland.

Reinforcing Steel—McGrath Steel Co., 354 Hobart St., Oakland.
 As previously reported brick contract awarded to Herschel & Reinecke, 830 E 11th St., Oakland; concrete to J. H. Fitzmaurice, 354 Hobart Street, Oakland.

LOS ANGELES, Cal.—Architect E. C. Batty, 424 Pacific Electric Bldg., has completed working drawings for a factory building to be erected at 3600 Mines Ave., in the Union Pacific Industrial tract, for the Las Vegas Land & Water Co.; General Cable Corp., lessee. Bids will be taken by the owner at 424 Pacific Electric Bldg. in a week or ten days. The building will be a one-story Class D structure, 152x322 ft. in area; steel frame, brick and galvanized iron construction, composition monitor type roof, steel roof trusses, steel sash, plastered exterior, collapsible metal toilet partitions, gas radiators, steel lockers, etc. Estimated cost, \$55,000. General Cable Corp. has a contract for furnishing cable for the Los Angeles Water and Power Bureau's 271-mi. transmission line. 4

Sub-Contracts Awarded.
ALTERATIONS Cost, \$2000
SAN FRANCISCO. NE Spear and Folsom Streets.
 Alterations to one and two-story Class C warehouse (mill work, glass painting, etc.)
 Owner—San Francisco Warehouse Co. Premises.
 Architect—Not Given.
 Contractor—Clinton-Stephenson Construction Co., 550 Montgomery St., San Francisco.
Mill Work—Balboa Mill & Cabinet Co. 100 Havelock St.
Electroc — Smith Electric Co., 975 Howard St.
Steel—Star Ornamental Iron Works, 1271 Folsom St.
Underpinning — D. J. Sullivan, 1940 Folsom St.
Sheet Metal—Morrison & Co., 74 Duboce Ave.
Plastering—Vance Petersen, 185 Del Monte St.

Foundation and Footing Contract Awarded.
FACTORY Cost, \$50,000
BERKELEY, Alameda Co., Cal. Sixty third and Overland Sts.
 Two-story steel frame factory (120x140 ft.) brick walls, concrete work composition roofing, etc.
 Owner—Peterson Tallow Co., 65th and Bay Sts., Oakland.
 Engineer — E. W. Remnitz, 1594 63rd St., Oakland.
Foundations & Footings—S. G. Johnson, 4652 Dolores Ave., Oakland.
 Bids on the general contract will be taken about August 21.

As previously reported, structural steel awarded to Herrick Iron Works, 18th and Campbell Sts., Okaland. (2168) 1st report July 18; 2nd Aug.

Contract Awarded.
ALTERATIONS Cost, \$—
EMERYVILLE, Alameda Co., Cal. No. 4535 Horton Street.
 Alterations to present factory plant (75,000 sq. ft. floor space); new machinery and equipment, etc.
 Owner—Rheem Manufacturing Co.

Plans by Engineering Dept. of Owner.
 Lessee—California Containing Co., G. A. Vollmer in charge, California Hotel, Oakland.
 Contractor—P. M. Sanford, 301 Alta Vista Ave., Richmond.

5—FLATS

Sub-Bids Being Taken.
FLATS Cost, \$6000
SAN FRANCISCO. Sunset District.
 Two-story frame and stucco flats (2 5-room flats) tile and composition roof, gas steam heating system, tiled baths, separate toilets, hardwood floors, etc.
 Owner and Builder—Erick Dahlberg, 1075 Holloway Ave., San Francisco
 Plans by E. K. Dobkowitz, 425 Monterey Blvd., San Francisco.

6—GARAGES & SERVICE STATIONS

Plans Being Prepared.
SERVICE STATION Cost, \$10,000
NORTH BERKELEY. Alameda Co., Cal. (175x175 feet).
 Reinforced concrete super service station.
 Owner—Withheld.
 Architect — E. L. Snyder, 2101 Shattuck Ave., Berkeley.
 Bids will be asked in about ten days

Contracts Awarded.
SERVICE STATION Cost, \$—
BERKELEY, Alameda Co., Cal. SW Telegraph Ave. and Parker St.
 One-story brick service station; lift building with storage room, office building, pump stand, 3 tanks, concrete flooring, monolithic roofing, with tile, etc.
 Owner — Harry Bradshaw, 2500 Benvenue Ave., Berkeley.
 Architect—Not Given.
 Lessee—Shell Oil Co., Shell Bldg., San Francisco.
 Mgr. of Constr.—Ray Towers, 2508 Benvenue Ave., Berkeley.
Brick—A. Hallert & Neal, 2500 65th Ave., Oakland.
Pumps—Wayne Co., Boyle-Dayton Division, 415 Brannan St., Berkeley.
Reinforcing Steel — Soule Steel Co., 1750 Army St., San Francisco.
Electric—College Avenue Elec. Shop, 2917 College Ave., Berkeley.

Plans Completed.
GARAGE Cost, \$8000
SALINAS, Monterey Co., Cal.
 One-story reinforced concrete garage (50x116) concrete floors and walls, Summerbell trusses, steel sash, guarantee mineral roof, etc.
 Owner—Mrs. Nellie Muller, Salinas.
 Architect—Charles McKenzie, Twohy Bldg., San Jose.
 Bids will be taken by the owner from a selected list of local contractors.

Plans Being Figured—Bids Close Aug. 28.
SERVICE STATION Cost, \$6000
SAN FRANCISCO. Ocean Ave. and Miramar Street.
 Steel frame and brick service station.
 Owner—McKale's, Inc., Mission and 12th Sts., San Francisco.
 Plans by Engineering Dept. of Owner.

7—FEDERAL BUILDING

WASHINGTON, D. C. — Walter G. Warren Co., Chicago, at \$877.13 submitted low bid to Treasury Department for furnishing and installing interior lighting fixtures at the U. S. post office building at Beverly Hills. Following bids received:
 W. G. Warren Co., Chicago.....\$ 877.13
 H. A. Framburg, Chicago..... 1070.00
 E. F. Guth, Chicago..... 1076.00
 Bids held under advisement.

WASHINGTON, D. C.—Until Sept. 6 2 P. M., bids will be received by the Treasury Dept. for painting plaster surfaces in the U. S. Marine Hospital at Seattle, Wash. Plans and specifications available from Treasury Department and from Medical Officer in charge at the Hospital, Seattle.

Planned.

POST OFFICE Cost, \$99,000
SANTA CRUZ, Santa Cruz Co., Cal.
Post Office building.
Owner—United States Government.
Architect—Not Given.
Public Works administration allocated \$99,000 for the construction.

Plans Awaiting Approval.

POST OFFICE Cost, \$175,000
SALINAS, Monterey Co., Cal. Block bounded by Lincoln, Church, Howard and Allisal Streets.
One-story and basement Class B concrete and brick Post Office Building (60x160 feet).
Owner—United States Government.
Architect—O'Brien Bros. and W. D. Peugh, 333 Montgomery St., San Francisco.

Structural Engineer—F. W. Kellberg, 320 Market St., San Francisco.
Mechanical Engrs.—Leland & Haley, 53 Sutter St., San Francisco.

Plans forty per cent completed, have been forwarded to Washington for approval.

WASHINGTON, D. C. — Treasury Department has withdrawn the call for bids in connection with the painting of the plaster at Boulder, Colorado. Bids were scheduled to be opened September 5.

Preliminary Plans Completed.
POST OFFICE Cost, \$120,000
REDDING, Shasta Co., Cal.
One-story and basement steel frame post office, terra cotta and brick exterior, tile roof, etc.
Owner—United States Government.
Architect—Albert F. Roller, Crocker First National Bank Bldg., San Francisco.

Mr. Roller is leaving for Washington, to have the preliminary plans approved.

WASHINGTON, D. C.—Until Sept. 5, 2 P. M., bids will be received by the Treasury Department for furnishing and laying linoleum floor covering in the U. S. post office and court house at Albuquerque, N. M. Specifications may be obtained from the Custodian at the Building or at the office of the Supervising Architect, Treasury Department, Washington, D. C.

WASHINGTON, D. C.—The following have procured plans for the purpose of submitting bids to the Treasury Department on Sept. 5 for furnishing and laying linoleum floor covering in the U. S. post office and court house at Albuquerque, N. M.:
F. A. Kamp Flooring Co., Cincinnati, Ohio.

Highbridge - International Co., Morris Heights Station, New York City.
Baker Cork & Tile Co., Inc., 1700 I St. N. W., Washington, D. C.
Certainteed Products Corp., 100 E 42nd St., New York City.
Batavia Mills, Inc., 73 Worth St., New York City.

Congoleum Nairn Co., Kearney, N. J.
Armstrong Cork Co., Lancaster, Pa.
Quaker City Linoleum Co., 601 F St. N. W., Washington, D. C.
Superior Linoleum Co., 926 H St. N. W., Washington, D. C.
W. & J. Sloane, 711 12th St. N. W., Washington, D. C.
W. B. Moses Sons, 11th and F Sts., N. W., Washington, D. C.
Wooster Products, Inc., Wooster, O.

Alexander Equip. Co., 151 Fifth Ave. New York City.

David E. Kennedy, 16 E 52nd St., New York City.

C. McCormick Rug Co., Topeka, Kansas.

Thos. E. Maddock Co., 207 W Monroe St., Chicago.

8—CLUB BUILDINGS

Preliminary Plans Approved.
LODGE & OFFICE Cost, \$200,000
SACRAMENTO, Sacramento Co., Cal. Ninth and K Streets.

New lodge and office building (10 stories, steel and concrete, terra cotta exterior, 50 offices in ten-story tower; 5-story lodge rooms; stores on first floor; lodge assembly and club rooms, library, banquet hall, kitchen, auditorium seating 800, gymnasium; automatic heating & cooling system, high-speed elevator.

Owner—J. O. O. F. (C. O. Busick, G. Carstensen, W. Trapper, building committee of board of directors).
Architect—Starks & Flanders, Forum Bldg., Sacramento.

WASCO, Kern Co., Cal.—Steve Mitchell, Wasco, has been awarded a contract and has started work of enlarging the Odd Fellows hall at Wasco. The building will be widened, roof trusses and a new kitchen installed, and the structure repainted inside and out.

OAKLAND, Calif.—Mark A. Miller, 3664 Madrone Ave., Oakland, awarded contract by Masonic Temple Association for painting the interior of the building at 12th and Washington Sts., Oakland.

9—HOSPITALS

Preparing Preliminary Sketches.
CHILDREN'S HOME Cost, \$100,000
INGLEWOOD, Los Angeles Co., Cal. Victoria Ave., bet. 76th and 78th. Children's Home.

Owner — Baptist Denomination of Southern California.
Architect—Marsh, Smith & Powell, 816 E. 5th St., Los Angeles.

Sub-Contracts Awarded.
ADDITION Cost, \$35,000
JUNEAU, Alaska.

Three-story reinforced concrete addition to hospital (78x40) X-ray laboratory, surgery rooms, ultra-violet ray laboratory, etc.

Owner—Sisters of St. Anns, Juneau.
Architect—F. A. Naramore and C. J. Brady, associated, Central Bldg., Seattle.

Contractor—Warrack Const. Co., McDowell Bldg., Seattle.

Cement awarded to Superior Portland Cement, Inc.; reinforcing steel to Pacific Coast Steel Co.; metal trim to S. W. R. Dally; insulation to Tourtelotte & Bradley; millwork to Guarantee Millwork Co.; linoleum to Juneau-Young Hardware Co.; heating and sheet metal to Rice-Ahlers, Juneau; plumbing to Harri Machine Works, Juneau; ornamental iron to Rainier Orn. Iron Works; marble to Art Marble Co.; tile to University Brick & Tile Co.; terrazzo to Michelotti Terrazzo Co.; electric wiring to Alaska Light & Power Co.; rolling doors to D. E. Fryer Co.; lumber to Juneau Lumber Mills, and vault door to Dando Equip. Co.

LOS ANGELES, Cal.—The following firms submitted bids to the Los Angeles county supervisors on August 21 for furnishing X-ray equipment for the General Hospital; Westinghouse X-ray Co., \$62,078; General Electric Co., \$64,780.45; Bush Electric Corp., unit prices; Brandmeyer X-Ray Supply Co.,

partial bid; Booth Engr. Co.; Standard X-Ray Co., unit bids; National Corncorn Works, and X-Ray Tube Co.

10—HOTELS

Planned.
HOTEL Cost, \$—
SAN RAFAEL, Marin Co., Calif. Site of Hotel Rafael.
New hotel building (100 rooms).
Owner—Group of San Francisco financiers.
Architect—Not Selected.

Contract Awarded.
ALTERATIONS Cost, \$1500
SAN FRANCISCO, SE Fifth and Folsom Streets.
Alterations to rooming house.
Owner—S. Joyce, 315 Fifth St., San Francisco.
Architect—Not Given.
Contractor—Pearson & Johnson, 2031 Bryant St., San Francisco.

12—POWER PLANTS

LOS ANGELES, Cal.—E. C. Nickel, 912 Micheltorina St., Los Angeles, at \$15,450 submitted low bid to Metropolitan Water District to construct electric power transmission line, Spec. No. 40. 35 ml. 60,000 volt transmission line between the Southern California Edison Company's substation at Colton and the District's substation at Cabazon, in San Bernardino and Riverside Counties. H. H. Walker Inc., Los Angeles, second low at \$19,957; Osborn & Co. and Fritz Ziebarth, Los Angeles, third low at \$20,662. Bids taken under advisement. 12

BOULDER CANYON, Nev.—General Electric Co. at \$1,240,000 submitted low bid on item (1) to U. S. Bureau of Reclamation, Denver, Colo., to furnish and install two or four 82,500 k.v.a. and one 40,000 k.v.a. vertical shaft, alternating current generators, each complete with main exciter, pilot exciter, thrust and guide bearings and surface coolers, for the Boulder power plant, Boulder Canyon Project, Arizona-California-Nevada; plant located at Boulder Dam, under alternate propositions.

Westinghouse Electric & Mfg. Co. low at \$1,285,000 on item 2.
Allis Chalmers at \$299,850 low for item No. 3.
Complete bids will be published in an early issue.

PASADENA, Calif.—C. Bongiovanni Const. Co., 2561 Canyon Dr., Los Angeles, submitted low bid on general contract to Pasadena city directors at \$36,666, and L. E. Dimit, 50 W Walnut St., Pasadena, was low on the plumbing at \$2198, for construction of a substation on Santa Anita Avenue; between the Santa Fe tracks and E Foothill Blvd., Lamanda Park, for the Pasadena Municipal Light & Power Department. If the alternate for omitting Lockstone facing is used, Wm. T. Loesch & Son, 119 E Union Street, Pasadena, will be the low bidder at \$35,973. Bids referred to light department for tabulation and report. Plans by Architect Rohrt. E. Ainsworth, Central Bldg., Pasadena. Will be a one-and part two-story structure containing caretaker's quarters on the second floor; on the first floor will be offices with counters and cashier's cages, repair shop, stock rooms, control rooms; full basement for storage space. Dimensions 50x100 ft., reinforced concrete construction, tile and composition roofing, steel sash, wrought iron, concrete and wood floors, tile work, structural steel, metal covered doors.

TRACY, San Joaquin Co., Cal.—City council considers purchase of P. G. & E. Co. distribution system to be op-

erated as a municipal system. E. K. Hussey Engr. Corp., Syndicate Bldg., Oakland, engineer on the project.

SAN JOSE, Santa Clara Co., Cal.—San Jose Wrecking & Builders' Supply Co., 184 Stockton Ave., San Jose, awarded contract by City Council for wrecking of the Park Hotel, located on the west side of Market Street, between Park Ave. and San Carlos St. They will pay the city \$759.50. Only other bid was submitted by the San Jose Commercial Company, who wanted the city to pay \$1388.

BOULDER CANYON, Nev.—As previously reported, following bids to furnish and install generators for the Boulder Canyon Power Project submitted to the U. S. Bureau of Reclamation, Denver, August 18, were:

- (1) 2 82,500-kva, 150/180-rpm. vert. A. C. generators;
- (2) 2 do;
- (3) 1 40,000-kva., 257 1/7-rpm. do.

The bids were taken under advisement by R. F. Walter, chief engineer. The complete bids were:

General Electric Co., Schenectady, N. Y., (1) \$1,240,000; (2) \$1,327,500; (3) \$245,000.

Westinghouse E. & M. Co., East Pittsburgh, Pa., (1) \$1,285,000; (2) \$1,285,000; (3) \$241,000.

Allis-Chalmers Mfg. Co., Milwaukee, (1) \$1,270,000; (2) \$1,340,000; (3) \$229,850.

LODI, San Joaquin Co., Calif.—City council will consider municipal power plant on the Mokelumne river. Nelson A. Eckart, Walter L. Huber and Fred C. Herrman are consulting engineers on the project.

LAMANDA PARK, Los Angeles Co., Cal.—Wm. T. Loesch & Sons, 119 E. Union St., Pasadena, were awarded the contract by the Pasadena City Directors August 22 at \$35,973, omitting the Lockstone facing alternate, for constructing the Lamanda Park substation.

L. E. Dimit, 50 W. Walnut Street, Pasadena, was awarded the plumbing at \$2198.

The proposed structure will be located on Santa Anita Ave., between the Santa Fe tracks and East Foot-hill Blvd., Lamanda Park, for the Pasadena Municipal Light and Power Department. Plans were prepared by Architect Robert H. Ainsworth, Central Bldg., Pasadena. The building will be a one and part two-story structure containing caretaker's quarters on the second floor; on the first floor will be offices with counters and cashiers' cages, repair shop, stock rooms, control rooms; full basement for storage space. Dimensions 50x100 feet, reinforced concrete construction, tile and composition roofing, steel sash, wrought iron, concrete and wood floors, tile work, structural steel, metal-covered doors, etc.

**13—PUBLIC BUILDINGS
FIRE HOUSES & JAILS**

AUBURN, Placer Co., Cal.—Until September 5, 10 A. M., bids will be received by A. S. Fleming, Clerk of the Placer County Board of Supervisors, for repair and replacement of certain portions of the Court House heating plant. Plans and specifications prepared by J. A. Shields, County Surveyor, and may be secured from the Clerk's Office upon deposit of \$2.50.

All bids must be accompanied by a certified check on some solvent bank of California, made payable to the County of Placer for at least ten per cent (10%) of the amount bid.

Contract Awarded.
ADDITION Cost, \$90,000
SAN MARINO, Los Angeles Co., Cal.
Steel frame and reinforced concrete addition to library (45x90) metal lath and plaster, guniting work, wood sash, glass and tile roofing, cork and linoleum covered floors.
Owner—City of San Marino.
Architect—Myron Hunt and H. C. Chambers, 408 S Spring St., Los Angeles.
Contractor—Wm. C. Crowell, 495 So. Broadway, Pasadena.

CALIFORNIA.—Requests for Federal aid, approved by the State Finance Department, include the following:
Department of Institutions, \$15,947,231;
Teachers' colleges & special schools, \$5,727,500.
Prisons, \$2,000,000.
Veterans' homes, \$1,316,000.
National Guard buildings, \$770,000.

LOS ANGELES, Cal.—Los Angeles County Board of Supervisors has entered into a contract with Architects Edwin Bergstrom, Myron Hunt, Sumner P. Hunt, Pierpont Davis and Wm. Richards for all professional services required to design, supervise and superintend the erection and construction of all building projects undertaken by the county during the next ten years. The period of time stipulated in the contract would probably include those buildings for which the county expects to receive funds under provisions of the National Recovery Act. The Los Angeles county public works program, recently proposed by Supervisor Quinn, contemplates thirty-six building projects estimated to cost approximately \$17,000,000, including \$12,000,000 for the proposed new county courts building.

SAN FRANCISCO.—M. E. Vukicevich, 666 Mission St., at \$5,743 submitted low bid for general work, and Thomas Skelly, 1344 9th Ave., at \$2,218 submitted low bid for plumbing and mechanical work to the Department of Public Works in connection with the remodeling of the Adams School on Ellis St. bet. Van Ness Ave. and Polk St. for the Van Ness Ave. police station. Following bids received

General Work	
M. E. Vukicevich	\$5,743
Val Franz	5,981
Leo Epp	6,070
*D. W. Ross	6,109
F. C. Amoroso & Son	6,444
Clinton Stephenson Const. Co.	6,487
P. F. Reilly & John Grace	6,500
Alfred H. Vogt	6,819
C. J. Wold	6,878
J. Harold Johnson	6,989
Jacks & Irvine	7,034
O. Monson	7,085
H. L. Petersen	7,573
N. H. Sjoberg & Son	7,729
Anderson & Ringrose	7,836
B. A. Howkins	7,993
Wm. Spivock	8,202
Commercial Const. Co.	8,520
*Invalid, check for 1% in place of 10%.	

Plumbing and Mechanical Work	
Thomas Skelly	\$2,218
Anderson & Rowe	2,285
Oscar Aaron	2,335
Herman Lawson	2,490
Scott Company	2,563
F. W. Snook	3,084
Bids held under advisement.	

MARTINEZ, Cal.—Until Sept. 5, 11 A. M., bids will be received by S. C. Wells, Clerk of the Board of Supervisors, Hall of Records, Martinez, for removal and remodeling of two buildings in rear of Court House. Plans and specifications on file in the office of the County Clerk, Hall of Records,

and may be obtained upon deposit of \$25. All bids must be accompanied by certified check equal to 10% of the amount bid.

14—RESIDENCES

Contract Awarded.
RESIDENCE Cost, \$4000
SAN FRANCISCO. E Harrison St. 150 N Twenty-second St.
One-story and basement frame and stucco residence.
Owner—M. Brown, 148 Highland Ave., San Francisco.
Architect—Not Given.
Contractor—C. L. Borsl & Son, 1279 25th Ave., San Francisco.

To Be Done By Day's Work.
RESIDENCE Cost, \$5000
SAN FRANCISCO. NW Fifteenth Ave. and Wawona St.
One-story and basement frame and stucco residence (6 rooms); tile roof, hardwood floors, gas heating system, tile bath, etc.
Owner and Builder—S. R. Anderson, 1433 7th Ave., San Francisco.
Architect—F. F. Amandes, 1879 18th Ave., San Francisco.

Contract Awarded.
RESIDENCE Cost, \$5000
SACRAMENTO, Sacramento Co., Cal. No. 2948 26th Street.
One-story and basement frame and stucco residence (6 rooms).
Owner—G. A. Atherton.
Architect—Not Given.
Contractor—C. C. Ruby, 4800 T St., Sacramento.

Correction in Roofing Award.
RESIDENCE Cost, \$—
WALNUT CREEK, Contra Costa Co., Cal. Dewing Way.
One-story frame residence (10 rooms), hot air gas heating system, steel sash, ornamental iron, tile roofing, stucco walls, hardwood floors, etc.
Owner—Withheld.
Architect — Keith E. Ponsford, 900 Creed Road, Oakland.
Roofing—W. L. Saxby, 4638 Fleming Ave., Oakland.

Previously reported as being awarded to the California Pottery Company, which was in error. California Pottery Company's tile is being used.

Contract Awarded.
RESIDENCE Cost, \$4000
SAN FRANCISCO. W Alemany Blvd. 225 N Santa Rosa.
One-story and basement frame and stucco residence.
Owner—L. & J. Depauli, 3289 Mission.
Architect—Not Given.
Contractor—C. T. Lindsay, 140 Duboce Avenue.

Contract Awarded.
RESIDENCE Cost, \$5000
OAKLAND, Alameda Co., Cal. No. 5919 Dover Street.
One-story and basement frame and stucco residence (5 rooms).
Owner—Ed. Roberts, 2901 Brookdale Ave., Oakland.
Architect—Not Given.
Contractor — J. F. Hubbard, 2901 Brookdale Ave., Oakland.

Sub-B'ds Being Taken.
RESIDENCE Cost, \$—
SAN FRANCISCO. Thirty-seventh Avenue S Balboa Street.
One-story and basement frame and stucco residence (five rooms) tile and composition roof, gas heat, colored tile bath, canvas walls, hardwood floors, etc.
Owner—L. Sangiacomo, 759 37th Ave. Plans by L. Dallars, 32 Jansen St.
Contractor —A Sangiacomo 422 Ninth Avenue.
Excavation—Devincerzi Co., 148 Blake Street.

Contract Awarded.
RESIDENCE Cost, \$5000
OAKLAND, Alameda Co., Cal. No. 2922 Sheffield Avenue.
Two-story frame and stucco residence (6 rooms).
Owner—Carl Larson, 4481 Moraga Ave., Oakland.
Architect—Not Given.
Contractor—C. W. Leekins, 4481 Moraga Ave., Oakland.

Plans Being Prepared.
RESIDENCE
STOCKTON, San Joaquin Co., Cal.
Two-story and basement frame and brick veneer residence (9 rooms, and 3 baths) shingle roof, wood sash, gas heating system, electric refrigeration, etc.
Owner—Dr. George H. Sanderson, Medico-Dental Bldg., Stockton.
Architect—W. W. Wurster, 260 California St., San Francisco.

Construction To Start Shortly.
RESIDENCE Cost, \$—
BERKELEY, Alameda Co., Cal. Euclid Ave. N Marin.
One-story and basement frame and stucco residence (6 rooms); tile roof, gas hot air heating system, ornamental iron, hardwood floors, etc.
Owner and Builder—A. Hammarberg, 3240 Le Conte Ave., Berkeley.
Plans by Owner.

Plans Completed.
RESIDENCE Cost, \$5000
OAKLAND, Alameda Co., Cal. Rockridge District.
One-story and basement frame and stucco residence (6 rooms) shingle roof, gas heating system, hardwood floors, canvas walls, tiled baths, steel sash, etc.
Owner—Dr. D. A. Torrano, 5816 Ocean View Drive, Oakland.
Architect—William & Wastell, 374 17th St., Oakland.
Contractor—Selected (Withheld).

Prospective Bidders.
RESIDENCE Cost, \$—
BERKELEY, Alameda Co., Cal. Tamalpais Road.
Two-story and basement frame, brick veneer and stucco residence (12 rooms and 3 baths) terra cotta tile roof, gas hot air heating system, colored tiled baths, steel sash, hardwood floors, etc.
Owner—Frederick Benner, 220 Montgomery St., San Francisco.
Architect—William Wilson Wurster, 260 California St., San Francisco.
Following will submit bids. Bids open August 31.
Willbur Cone, 1744 Broadway, Oakland.
E. Tranmal, 483 Crescent St., Oakland.
F. A. Kurtz, 364 41st St., Oakland.
F. J. Westlund, 625 40th St., Oakland.
Walter Sorenson, 2940 Piedmont Ave., Berkeley.

Plans Being Completed.
RESIDENCE Cost, \$15,000
SAN FRANCISCO, Marina District.
Two-story and basement frame, stucco and brick veneer residence (eight rooms and 3 baths).
Owner—Withheld.
Architect—Clarence Tantau, 210 Post St., San Francisco.
Bids will be asked in about ten days

Contract Awarded.
ROSS, Marin Co., Cal.
One-story and basement frame and brick veneer residence (6 rooms) redwood shake roof, oil hot air heating system, hardwood floors, bath, etc.
Owner—Victor E. Kleven.

Architect—W. W. Wurster, 260 California St., San Francisco.
Contractor—Young & Horstmeyer, 461 Market St., San Francisco.

14—RESIDENCES

Preparing Preliminary Plans.
RESIDENCE Cost, \$12,000
SAN FRANCISCO, Casa Way.
Two-story and basement frame and stucco residence (10 rooms and 3 baths).
Owner—Withheld.
Architect—Harvey E. Harris, 38 San Fernando Way, San Francisco.

Plans Being Prepared.
ADDITION Cost, \$—
LOS ALTOS, Santa Clara Co., Cal.
Alterations and additions to frame residence (add 3 rooms, covered veranda, etc.) Early California Style.
Owner—Mr. Grant.
Architect—Harvey E. Harris, 38 San Fernando Way, San Francisco.

Sub-Contracts Awarded.
RESIDENCE Cost, \$3000
BERKELEY, Alameda Co., Cal. Berkeley Way and West St.
One-story frame and stucco residence (five rooms).
Owner—C. Ponsetti.
Architect—Not Given.
Contractor—Chas. Marietti, 1201 Stannage Ave., Berkeley.
Plumbing—Wm. Lahr, 534 Wesley Avenue, Oakland.
Plastering—Giachetto & Marietti, 1209 Derby St., Berkeley.
Sheet Metal—Aarvaks Heating Appliance Co., 2313 Valley St., Berkeley
Electric—Jas. W. Anderson, 2421 23rd Ave., Oakland.
Fixtures—Voorhees & Maschio, 2141 Broadway, Oakland.
Flooring—Walter Gander, 1535 Hearst Ave., Berkeley.
Millwork—Iaramount Built-In Fixture Co., 1807 E 12th St., Oakland.

Contract Awarded.
RESIDENCE Cost, \$6000
OAKLAND, Alameda Co., Cal. Idora Tract.
Two-story frame and stucco residence (8 rooms) tile roof, coal furnace, iron work, wood sash, etc.
Owner—A. Lagorio.
Architect—Not Given.
Contractor—Joe Benasini, 1357 Addison St., Berkeley.
Sub-bids will be taken on electric fixtures, roofing, brick work, wood and coal furnace, plastering, wiring, etc.

Sub-contracts Awarded.
RESIDENCE Cont. Price, \$8195
PIEDMONT, Alameda Co., Cal. Wildwood Avenue.
Two-story and basement frame and stucco residence (8 rooms); tile roof, hot air heating system, wood sash, hardwood floors, etc.
Owner—Lew Cook.
Architect—Miller & Warnecke, Financial Center Bldg. Oakland,
Contractor—J. R. Armstrong, 1131 Fleet Road, Oakland.
Lumber—Sunset Lumber Co., 400 High St., Oakland.
Roofing—General Roofing Co., 3935 Beach St., Oakland.

Contract Awarded.
RESIDENCE Cont. Price, \$17,833
MENLO HEIGHTS, San Mateo Co.
Two-story and basement frame and stucco residence (12 rooms) redwood exterior, oak floors, linoleum floors and "Lino-Wall" wall covering in baths, oil furnace hot air heating system, hardwood trim, casement and double hung windows, sash, ornamental and sheet

metal, garage with servants' quarters, etc.
Owner—Hutton Webster.
Architect—Hunt & Chambers, Continental Bldg., Los Angeles.
Contractor—Arthur Payne, Box 274, Redwood City.
Septic Tank—Floyd Lee, Pasadena.
Painting bids will be taken at a later date.

Contracts Awarded.
RESIDENCE Cost, \$7000
SAN FRANCISCO, North Point St., bet. Buchanan and Webster Sts.
Two-story and basement frame and stucco residence (8 rooms and 2 baths); composition and slate or terra cotta tile roof, gas heating system, tiled baths, ornamental iron, canvas walls, oak floors, etc.
Owner—T. C. Ryan, 1915 Green St., San Francisco.
Plans by Paul A. Ryan, 1915 Green St., P. F. Amandes, 1879 18th Ave., Associate Architect.
Supt. of Constr.—Chas. E. Soules, 159 Brighton St., San Francisco.
Plumbing, Heating & Electric—Frank J. Klimm, 456 Ellis St.
Plastering—George Campbell Co., 3443 17th St.
Lumber—Greater City Lumber Co., 3123 Mission St.
Ornamental Iron—Michel & Pfeffer Iron Works, Harrison and Tenth Streets.
Painting—Dell P. Wilson, 553 Ramsell St.
Bids are being received on the site for roofing.

Bids Opened.
RESIDENCE Cost, \$4000
SAN JOSE, Santa Clara Co., Cal.
One-story and basement frame and stucco residence (6 rooms) shingle roof, gas heating system, hardwood floors, tiled baths, etc.
Owner—Withheld.
Architect—William Higgins, 19 North Second St., San Jose.
Low Bidder—M. W. Reese, 1210 Minnesota St., San Jose.
Following bids received:
M. W. Reese, San Jose.....\$4138
C. F. Keesling, San Jose..... 4420
Wm. Schwartz 4489
M. J. Nielsen 4518
Gibson & Wheeler..... 4600
Chas. Thomas 5475
F. Edman 5490
Wm. Caldwell 5528\$
Bids held under advisement.

Sub-Contracts Awarded.
RESIDENCE Cost, \$5000
BERKELEY, Alameda Co., Cal. No. 595 Vincente Street.
One-story and basement frame and stucco residence (7 rooms).
Owner—L. C. Weiland, 824 Curtis St., Berkeley.
Plans by W. W. Dixon, 1344 5th Ave., Oakland.
Contractor—Milton S. Bonds, 914 The Alameda, Berkeley.
Sheet Metal & Furnace—L. F. Witharm, 686 28th St., Oakland.
Concrete—East Bay Constr. Co., 3817 San Pablo Ave., Oakland.
Plumbing—Suenderman Plumbing Co., 921 University Ave., Berkeley.
Lumber, Frames and Millwork—Tilden Lumber Co., Foot of University Ave., Berkeley.

To Be Done By Day's Work.
RESIDENCE Cost, \$5000
SAN FRANCISCO, N Alton St. 100 E Ninth Ave.
Two-story and basement frame and stucco residence.
Owner—Dr. L. E. Wilson, 515 Central Ave., San Francisco.
Architect—Not Given.

Contract Awarded.
RESIDENCE Cost \$12,950
SAN FRANCISCO. North Point and Baker Sts.
 Two-story and basement frame and stucco residence (10 rooms and 4 baths) terra cotta and slate roof, gas or oil heating system, air conditioning system, hardwood floors and trim, canvas walls, wood sash, oak trim; 2-car garage.
 Owner—Withheld.
 Architect—F. F. Amandes, 1879 18th Ave.
 Contractor—Schultz Construction Co., (W. C. Akard, 255 Cervantes Blvd.)
 Following bids received:
 Schultz Const. Co., (W. C. Akard, San Francisco) \$13,125
 G. P. W. Jensen, San Francisco \$13,580
 Aetna Const. Co., San Francisco \$13,785
 Strehlow & La Voie, San Francisco \$13,998
 Clinton Stephenson Const. Co., San Francisco.....\$14,187
 H. H. Larsen, San Francisco.....\$14,788
 J. Harold Johnson, San Francisco\$15,142

Plans Being Prepared.
RESIDENCE Cost, \$10,000
SAN FRANCISCO. Marina Blvd. 100 E Webster St.
 Two-story and basement frame, stucco and stone residence (7 rooms and 3 baths) slate and flat roof, air conditioning system, tiled baths, hardwood floors and trim, etc.
 Owner — Dr. Bernard A. Cody, 350 Bush Street, San Francisco.
 Architect—Harvey E. Harris, 38 San Fernando Way, San Francisco.
 Bids will be asked about Sept. 15.

Sub-Contracts Awarded.
RESIDENCE Cost, \$3600
OAKLAND, Alameda Co., Cal. Contra Costa Road.
 1½-story frame and stucco residence (6 rooms) English type, shake roof, gas heating system, hardwood floors, tiled bath, etc.
 Owner—Wm. D. Shattuck.
 Architect—John E. Dinwiddie, 2815 Oak Knoll, Berkeley.
 Contractor—Frank Pennell, 2730 Buena Vista Way, Berkeley.
Lumber—Tilden Lumber Co., foot of University Ave., Berkeley.
Lumber—Tilden Lumber Co., foot of University Ave., Berkeley.
Concrete—Ensor Buel, 2927 Lorina St., Berkeley.
Plastering—Carl Spiken, 2315 9th Ave., Oakland.
Brick—Charles Shearer, 3629 13th Ave., Oakland.
Steel Sash—Michel & Pfeffer Iron Works, Inc., 10th and Harrison, San Francisco.
Hardwood Floors—Walter Kinne, 1113 Santa Fe Ave., Albany.
Roofing—W. L. Rideout, 641 Central Ave., Alameda.
 Sub-hids will be taken on millwork, tile work and sheet metal work. The owner will purchase the heating system.

Sub-Contracts Awarded.
RESIDENCE Cost, \$5000
OAKLAND, Alameda Co., Cal. No. 741 Beale Str.
 One-story and basement frame and stucco residence (6 rooms).
 Owner and Builder—F. S. Taylor, P. O. Box 95, Fruitvale.
 Architect—Not Given.
Plastering—C. O. and C. H. Farrer, 2406 Ransome Ave., Oakland.
Frames—Melrose Lumber & Supply Co., 1201 46th Ave., Oakland.
Electric—Dimond Electric Co., 2100 Hopkins St., Oakland.
Plumbing—W. P. Rouse, 3606 Ardley Ave., Oakland.
Shingles—Bay City Lumber Co., 43th Ave. and E. 12th St., Oakland.

Contracts Awarded.
RESIDENCE Cost, \$—
WALNUT CREEK, Contra Costa Co., Calif. Dewing Way.
 One-story frame residence (10 rooms), hot air gas heating system, steel sash, orn. iron, tile roofing, stucco walls, hardwood floors, etc.
 Owner—Name withheld.
 Architect—Keith E. Ponsford, 900 Creed Road, Oakland.
Concrete—G. T. Lewis, Concord.
Plastering—J. H. Witt, 882 56th St., Oakland.
Steel Sash—East Bay Glass Co., 621 6th St., Oakland.
Flooring—W. E. Gore, Box 46, Walnut Creek, Oakland.
Heating—Linford Heating Co., 1101 7th Ave., Oakland.
Ornamental Iron—James Eandi, 1336 61st St., Oakland.
Carpentry—A. McLeod, Lafayette.
Plumbing—Near & Walker, Walnut Creek.
Electric—H. M. Marshall, Box 332, Walnut Creek.
Brick—A. B. McMurtry, 6326 Broadway Terrace, Oakland.
 Bids are being received on ceramic tile and painting.

Sub-Contracts Awarded.
RESIDENCE Cost, \$10,000
BERKELEY, Alameda Co., Cal. Virginia and Euclid Ave.
 Two-story frame and stucco residence (11 rooms and 3 baths; doctor's offices), tile roof, gas heating system, hardwood floors, tiled baths.
 Owner—Dr. Horace Stare, 2510 Bancroft Way, Berkeley.
 Plans by Irwin M. Johnson, 2215 7th Ave., Oakland.
 Contractor—C. M. Norgrove, 2220 Roosevelt St., Berkeley.
Concrete—Schnoor Bros., 6016 Claremont Ave., Oakland.
Plastering—Herman Thorndyke, 2450 E. 21st St., Oakland.
Roofing—Guy Tyler, 1502 Cedar St., Berkeley.
Electric Wiring and Fixtures—Fred Schmits, 430 Moss Ave., Oakland.
Mill Work—Clinton Mill & Lumber Co., 701 4th Ave., Oakland.
Sheet Metal—Berkeley Sheet Metal Co., 829 Bancroft Way, Berkeley.
Plumbing—Golden Gate Plumbing Shop, 5904 San Pablo Ave., Oakland.
Ornamental Iron—The Oakland Ornamental Iron Works, 746 21st St., Oakland.
Brick—W. H. Wisheropp, 3749 Quigley St., Oakland.
Floors—Inlaid Floor Co., 4067 Watts St., Emeryville.
Stone Work—Geo. S. Pittock & Son, Ltd., Sacramento and Oregon, Berkeley.
Tile—Rigney Tile Co., 3012 Harrison St., Oakland.

To Be Done By Day's Work.
RESIDENCE Cost, \$9000
PALO ALTO, Santa Clara Co., Calif. 200 Southwood Drive.
 Two-story and basement frame and stucco residence.
 Owner and Builder—C. W. Kemper, 125 Bryant St., Palo Alto.
 Architect—Not Given.

LOS ANGELES, Cal.—Pacific System Homes, 5800 Boyle Ave., Los Angeles, submitted only regular bid to Metropolitan Water District of Southern California at \$15,306.90, for constructing cottages and garages at the power substation of the District, located near Desert Center and Granite Mountain, Riverside County, and Earp San Bernardino County.

Contract Awarded.
RESIDENCE Cont. Price, \$22,659
HILLSBOROUGH, San Mateo Co., Cal. Two-story and basement frame and

stucco residence (12 rooms and 4 baths) shingle roof, gas heating system, tiled baths, hardwood floors, etc.
 Owner—Thomas Fortune Ryan.
 Architect—Wills Polk Co., (Angus McSweeney, architect) 277 Pine St., San Francisco.
 Contractor—A. F. Matlock Co., 212 Clara St., San Francisco.

Sub-Contracts Awarded.
RESIDENCE Cost, \$5899
OAKLAND, Alameda Co., Cal. Piedmont Pines.
 Two-story frame and stucco residence
 Owner—Syndicate Idora Co., Ltd.
 Architect—Miller & Warnecke, Financial Center Bldg., Oakland.
 Contractor—C. W. Leekius, 1757 Sausal St., Oakland.
Plumbing—Albert Petitjean, 1649 11th Ave., Oakland.
Brick—A. B. McMurtry, 6326 Broadway Terrace, Oakland.
Painting—J. W. Timmis, 3327 35th Ave., Oakland.
Concrete—Allan MacDonald, 1539 39th Ave., Oakland.
Plastering—A. Springer Co., 620 17th St., Oakland.
Millwork—Eureka Mill & Lumber Co., 3615 E 14th St., Oakland.
Sash, Doors—Western Door & Sash Co., 5th and Cypress, Oakland.

Contract Awarded.
RESIDENCE Cost, \$3600
OAKLAND, Alameda Co., Cal. Contra Costa Road.
 1½-story frame and stucco residence (6 rooms) English type, shake roof, gas heating system, hardwood floors, tiled bath, etc.
 Owner—Wm. D. Shattuck.
 Architect—John E. Dinwiddie, 2815 Oak Knoll, Berkeley.
 Contractor—Frank Pennell, 2730 Buena Vista Way, Berkeley.

Plans Being Figured.
RESIDENCE Cost, \$10,000
SAN FRANCISCO. E San Pablo Ave. N Yerba Buena.
 Two-story and basement frame and stucco residence (8 rooms and 3 baths); slate roof, gas hot air heating system, tiled baths, hardwood floors, etc.
 Owner—John B. King.
 Architect—Martin Rist, Phelan Bldg., San Francisco.

Contract Awarded.
STORE & RESIDENCE \$5000
SAN FRANCISCO. E Ninth Ave. 225 S Irving St.
 Two-story and basement frame and stucco store and residence.
 Owner—S. S. Janian, % 3700 Broderick St., San Francisco.
 Plans by E. K. Dobkowitz, 425 Monterey Blvd., San Francisco.
 Contractor—T. R. Sharman, 3700 Broderick St., San Francisco.

Plans Being Revised.
STABLES & GARAGE Cost, \$—
WOODSIDE, San Mateo Co., Cal.
 Brick veneer stables and garage (tile roof, tile work in lavatories, etc., all oak interior finish).
 Owner—George Whittell Jr.
 Architect—Gardner Dailey, 210 Post St., San Francisco.
 Bids will be asked in about two weeks.

Plans Being Prepared.
RESIDENCE Cost, \$—
LAFAYETTE, Contra Costa Co., Cal. One-story and basement frame and stucco residence (6 rooms) Spanish style, tile roof, gas heating system, hardwood floors, etc.
 Owner—Withheld.
 Architect—Miller & Warnecke, Financial Center Bldg., Oakland.

Owner Taking Bids.

RESIDENCE Cost, \$—
SAN MATEO, San Mateo Co., Cal.
 One and one-half-story frame and stucco residence (7 rooms and 2 baths); shingle roof, gas hot air heating system, tiled baths, steel sash, hardwood floors, etc.
 Owner—Francis A. Finneran, 1129 Cambridge Road, Burlingame.
 Architect—E. M. Sharpe, 525 Market St., San Francisco.

Contract Awarded.

RESIDENCE Cost, \$5000
OAKLAND, Alameda Co., Calif. 2247 Mountain Blvd.
 Two-story frame and stucco residence (six rooms).
 Owner—H. M. Hepburn, 622 Sims Dr., Oakland.
 Architect—F. H. Slocombe, 131 Monte Vista Ave., Oakland.
 Contractor—Glenn Bunker, Central

Contract Awarded.

RESIDENCE Cost, \$7000
PALO ALTO, Santa Clara Co., Calif. 2002 Tasso Street.
 Two-story frame and stucco residence (7 rooms, 2 baths) shingle roof, gas heating system, hardwood floor, canvas walls, tiled baths, etc.
 Owner—Dr. Chas. E. Shepard, 539 Lincoln Ave., Palo Alto.
 Architect—Chas. K. Sumner, Decker-oak Bldg., Palo Alto.
 Contractor—E. J. Schmaling, 863 Melville Ave., Palo Alto.

Contract Awarded.

RESIDENCE Cost, \$—
SAN JOSE, Santa Clara Co., Calif. Shortridge Ave. near 30th St.
 One-story and basement frame and stucco residence (5 rooms).
 Owner—Miss Lena Gatto, 702 N 13th St., San Jose.
 Architect—Not Given.
 Contractor—Sal Guardino, 690 Mission St., San Jose.

To Be Done By Day's Work.

RESIDENCE Cost, \$7500
OAKLAND, Alameda Co., Calif. 1600 Mountain Blvd.
 Two-story frame and stucco residence (six rooms).
 Owner & Builder—M. P. Brasch, 1735 Brandon St., Oakland.
 Architect—Not Given.

Contract Awarded.

RESIDENCE Cost, \$6300
SAN JOSE, Santa Clara Co., Calif. Second St. near Mission.
 One-story and basement frame and stucco residence (6 rooms).
 Owner—Salvatore Giansracusa, 807 N 2nd St., San Jose.
 Architect—Not Given.
 Contractor—E. Scotti, 483 N 7th St., San Jose.

Contract Awarded.

RESIDENCE Cost, \$5000
SAN JOSE, Santa Clara Co., Calif. 126 George Street.
 Two-story frame and stucco residence (7 rooms).
 Owner—Miss Hazel I. Macauley, 93 Hobson St., San Jose.
 Architect—Not Given.
 Contractor—W. F. Balkelee, 112 George St., San Jose.

Owner Taking Bids.

RESIDENCE Cost, \$4500
SAN FRANCISCO, Silver Terrace.
 One-story frame and stucco residence (5 rooms, 2 basements) tile roof, wrought iron railing, gas heating system, hardwood floors and trim, tiled bath, etc.
 Owner—M. Guglielmo, % architect.
 Architect—Mario Corbett, 683 Sutter St., San Francisco.

Plans Being Prepared.

RESIDENCE Cost, \$3250
CROCKETT, Contra Costa Co., Cal.
 One-story and basement frame and stucco residence (five rooms) detached garage, English style, shake roof, gas heating system, pine floors, etc.
 Owner—Glen L. Markeley.
 Architect—Mario Corbett, 683 Sutter St., San Francisco.
 Bids will be asked in about 2 weeks.

Plans Being Prepared.

RESIDENCE Cost, \$6600
SAN FRANCISCO, Marina District.
 Two-story and basement frame and stucco residence (5 rooms and 3 baths, pent house) tile roof, air conditioning system, hardwood floors, pine trim, tiled baths, special kitchen equipment, etc.
 Owner—Withheld.
 Architect—Mario Corbett, 683 Sutter St., San Francisco.
 Bids will not be asked for at least 60 days.

Sub-Contracts Awarded.

RESIDENCE Cost, \$—
BERKELEY, Alameda Co., Cal. Yosemite St. and The Alameda.
 One-story and basement brick veneer residence (5-rooms) shingle roof, gas heating system, hardwood floors, tiled baths, steel sash, etc.
 Owner—Gerald C. Marsh, 1410 Spring Way, Berkeley.
 Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.
 Contractor—J. M. Walker, 1709 Grove St., Berkeley.
 Lumber—Tilden Lumber Co., Foot of University Ave., Berkeley.
 Steel Sash—Michel & Pfeffer Iron Works, Harrison & 10th Sts., S. F.
 Sheet Metal—M. C. Henry, 1183 23rd St., Oakland.
 Wiring—E. L. Reed, Berkeley
 Shingle Roofing—Tilden Lumber Co., Foot of University Ave., Berkeley.

Sub Bids Being Taken

RESIDENCE Cost, \$6000
BERKELEY, Alameda Co., Cal. Miller Avenue.
 One and one-story stucco and rustic residence (6 rooms) shingle roof, gas hot air heating system, hardwood and tile floors, electric refrigeration, steel sash, hollow tile entrance, hall floors, knotty pine interior throughout.
 Owner—Dr. H. Dana Carey, American Trust Co. Bldg., Berkeley.
 Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.
 Contractor—J. M. Walker, 1709 Grove St., Berkeley.

Sub-Bids Wanted.

RESIDENCE Cost, \$6500
CONTRA COSTA CO., Cal. Woodmont
 One-story and basement frame and stucco residence (6 rooms) shingle roof, gas heating system, metal sash, hardwood floors, etc.
 Owner—John Ross.
 Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.
 Contractor—J. M. Walker, 1709 Grove St., Berkeley.
 Sub-bids are wanted on brick work, roofing and sewerage disposal system.

Excavation Contract Awarded.

RESIDENCE Cost, \$9500
OAKLAND, Alameda Co., Calif. Lelmert Blvd.
 Two-story and basement frame and stucco residence (9 rooms) Spanish type, tile roof, gas heating system, orn. iron, sheet metal, brick veneer, etc.
 Owner—Not Given.
 Plans by W. W. Dixon, 1844 6th Ave., Oakland.
 Contractor—Willmer Wright, 1198 98th Ave., Oakland.

Excavation—Ariess-Knapp Co., 961 41st St., Oakland.
 Sub-bids are being taken on concrete work, brick work, plumbing and electric wiring.

15—SCHOOLS

August 18, 1933

Completing Plans.

SCHOOL Cost, \$100,000
WHITTIER, Los Angeles Co., Cal.
 Two-story Class A reinforced concrete school building (floor and roof slabs, composition roofing, stucco exterior, steel sash, steam heat).
 Owner—Whittier Union High School District.
 Architect—R. L. Warren, Emporium Bldg., Whittier.

COMPTON, Los Angeles Co., Cal.—Architects Marsh, Smith & Powell, 816 W 5th St., are completing working drawings for repairing the main buildings at the Willowbrook and Clearwater junior high schools for the Compton High School and Junior College District. The work contemplated will include the reduction of the buildings to one-story structures, replacing existing masonry walls with frame and stucco, etc. The erection of additional one-story buildings to compensate for room lost by removal of second stories is contemplated for the near future.

Plans Approved.

ADDITION Cost, \$3500
MORGAN HILL, Santa Clara Co., Cal.
 Frame and stucco addition to Morgan Hill Grammar School (add one classroom, revise toilet rooms, etc)
 Owner—Morgan Hill Grammar School District (Mr. Dickerson, Pres.)
 Architect—W. H. Weeks, 525 Market St., San Francisco.
 Final plans have been approved by the Department of Architecture at Sacramento and bids will be asked in about three weeks.

SAN FRANCISCO—Anderson & Ringrose, 320 Market St. awarded the following sub-contracts in connection with the repairing of the fire damage at the Fremont School. Cost, \$8192.
Roofing—J. W. Bender Roofing Co., 18th and Eryant Sts.
Painting—H. Ankers, 22 Lexington Avenue.
Blackboards—American Seating Co., 650 Second St.

LONG BEACH, Cal.—Chas. Nielsen, 4150 Chestnut Avenue, Long Beach, awarded contract by the Long Beach board of education at \$24,606.90, for the construction of 110 tent bungalows on various Long Beach school sites. The contract calls for 50 bungalows 24x24 feet, five 24x32 feet, 48 24x36 feet and one 24x72 feet. The bids were opened August 14.

ALAMEDA, Alameda Co., Calif.—Plans for a \$550,000 school building program are under consideration by the Alameda School Department authorities. Plans tentatively considered include a proposal to finance the building program by a bond issue and it is believed that a loan of \$150,000 could be obtained from the Federal government.

BERKELEY, Alameda Co., Calif.—University of California will seek Federal aid in the amount of \$1,468,000 to finance improvements on seven campuses of the University. Work involved includes:
 \$260,000 for a new law school at Berkeley;
 \$100,000 for new book stacks for the Berkeley Law Library;
 \$100,000 for medical school building

additions in San Francisco;
Smaller sums for various improvements at Lick Observatory, Davils, Los Angeles, Riverside and LaJolla.

Contract Awarded.
GYMNASIUM Cont. Price, \$2109
SALINAS, Monterey Co., Cal.
One - story frame gymnasium (25x40) composition roofing, maple floors.
Owner—Salinas City School District.
Architect—Chas. Butner, Glikbarg Bldg., Salinas.
Contractor—G. F. Kraus, Salinas.
Following bids received:
G. F. Kraus, Salinas.....\$2,109
Albert Staton, Pacific Grove..... 2,037
Coolidge & Hughes, Salinas..... 2,200
O. M. Hansen, Salinas..... 2,250
H. Geyer, Pacific Grove..... 2,343
W. E. Greene, Salinas..... 2,427
E. F. Reese, Salinas..... 2,436
F. C. Carlsen, Salinas..... 2,475
E. L. Kenville, Salinas..... 2,564

Sub-Contracts Awarded.
SCHOOL ADDN. Cont. Price, \$3983
REDWOOD CITY, San Mateo Co., Cal.
Alterations and additions to elementary school (frame and stucco construction) add two classrooms.
Owner—Redwood City School District (C. G. Uhlenberg, Clerk).
Architect—Martin Rist, Phelan Bldg., San Francisco.
Contractor—H. H. Larsen, 64 South Park, San Francisco.
Glass and Glazing—W. P. Fuller and Co., 301 Mission St., San Francisco.
Finish Hardware—E. M. Hundley, 662 Mission St., San Francisco.
Ornamental Iron—Sullivan Iron W'ks, 780 Brannan St., San Francisco.

LONG BEACH, Calif.—The Long Beach Board of Education reports that tentative allocations for rehabilitation of schools, for which a bond issue will be voted on Aug. 29 are as follows: Jane Addams, \$80,000; Atlantic Ave., \$98,000; Bryant, \$30,000; Burbank, \$84,000; Burnett, \$109,000; Edison Elementary, \$69,000; Edison Junior High, \$112,000; Fremont, \$78,000; Garfield, \$60,000; U. S. Grant, \$84,000; Starr-King, \$11,000; Lincoln, \$84,000; Lafayette, \$19,000; Longfellow, \$73,000; Los Cerritos, \$30,000; Lowell, \$99,000; Horace Mann, \$64,000; McKinley, \$13,000; John Muir, \$74,000; Roosevelt, \$67,000; Naples, \$10,000; Seaside, \$13,000; Temple, \$98,000; Washington, \$224,000; Whittier, \$89,000; Willard, \$113,000; Franklin Junior High, \$360,000; Jefferson Junior Hi, \$329,000; Belmont Junior High, \$90,000; administration, \$20,000; shop, \$11,000, and reserves, \$305,000.

High school allotments which include \$150,000 for the first unit of a senior high school in North Long Beach and \$100,000 for a combined continuation high school and John Dewey Vocational Education School to be erected at Pine Ave. and Willow St. on a site owned by the school district are tentatively fixed as follows:
Polytechnic High, \$738,000; Woodrow Wilson High, \$183,000; Lindbergh Junior High, \$76,000; Hamilton Junior High, \$389,000; Signal Hill, \$33,000; reserves, \$161,000.

Bids Opened.
SCHOOL Cost, \$4500
EMIGRANT GAP, Placer Co., Cal.
One-story wood frame grammar school building (1 classroom) rustic exterior, shingle roof, maple floors, etc.
Owner—Emigrant Gap School District
Architect—W. E. Coffman, Forum Bldg., Sacramento.
Low Bidder—A. Frederick Anderson, Sacramento.
Following bids received:
A. Frederick Anderson, Sacto.....\$3542

Charles Petersen, Sacramento..... 3595
J. R. Wohler, Truckee..... 4065
Davles & Reese, Sacramento..... 4250
Chas. McLeod, Auburn..... 4342
Bids ran high and will probably be rejected.

SAN BRUNO, San Mateo Co., Cal.—
E. P. Hickey, South San Francisco, at \$418 awarded contract by San Bruno School District for installing gas heaters in the Edgemont School Annex.

Sub-Contracts Awarded.
ADDITION Cost, \$4900
ALVISO, Santa Clara Co., Cal.
Addition to school.
Owner—Alviso School Dist. (Mrs. Elsie Madruga, principal).
Architect—Miller & Warnecke, Financial Center Bldg., Oakland.
Contractor—R. A. Griffin, San Jose Road, Irvington.
Plumbing & Sheet Metal—George Coit, Centerville.
Electric Wiring—Bierx Bros., Niles.
Lumber & Mill Work—P. C. Harsen Lumber Co., Centerville.
Roofing—McFarland Roofing Co., Hayward.
Painting—G. E. Stinhever, Centerville.
Plastering—Hill & Janeiro, Hayward.

Sub-Contracts Awarded.
REPAIRS Cont. Price, \$14,030
ALBANY, Alameda Co., Cal. Marin Avenue.
Repairs to grammar school (add auditorium, alter classrooms, frame construction, reinforced concrete walls with steel columns, concrete and steel trusses, addition to steam heating system, maple flooring, composition roof, etc.)
Owner—Albany City School District.
Architect—P. L. Dragon and C. R. Schmidts, 3016 Telegraph Avenue, Berkeley.

Contractor—C. M. Norgrove, 2220 Roosevelt St., Berkeley.
Concrete—Schnoor Bros., 6016 Claremont Ave., Oakland.
Plastering—Herman Thorndyke, 2450 E. 21st St., Oakland.
Roofing—Guy Tyler, 1502 Cedar St., Berkeley.
Electric Wiring, Fixtures—Fred Schmits, 430 Moss Ave., Oakland.
Millwork—Clinton Mill & Lumber Co., 701 4th Ave., Oakland.
Sheet Metal—Berkeley Sheet Metal Works, 829 Bancroft Way, Berkeley.
Steel Sash—East Bay Glass Co., 621 6th St., Oakland.
Structural Steel, Miscellaneous Iron Work—Herrick Iron Works, 18th and Campbell, Oakland.
Lumber—E. K. Wood Lumber Co., Frederick and King Sts., Oakland.
Reinforcing Steel—McGrath Steel Co., 354 Hohart St., Oakland.
Heating—R. W. Timmons, Richmond.
Painting—R. C. McRice, 2604 26th St., Oakland.
Maple Floors—Inlaid Floor Co., 4067 Watts St., Oakland.
Other awards reported August 22.

To Be Done By Day's Work.
ADDITION Cost, \$—
AMBROSE, Contra Costa Co., Cal. (Four miles west of Pittsburg).
One room addition to school building (frame and stucco construction).
Owner—Ambrose School District.
Architect—James Narbett, 466 31st St., Richmond.

16—BANKS, STORES AND OFFICES

Heating Contract Awarded.
ALTERATIONS Cost, \$50,000
SAN FRANCISCO. No. 867-871 Market Street.
Alterations to four-story and base-

ment store (130,000 sq. ft. floor space).
Owner—Lincoln Realty Co., Mills Bldg., San Francisco.
Architect—E. M. Sharpe, 525 Market St., San Francisco.
Engineer—A. P. Fisher, 111 Sutter St., San Francisco.
Lessee—J. C. Penny Co., 330 W. 34th St., New York City.
Contractor—J. B. Oswald, Mills Bldg., and 433 California St., S. F.
Heating—James A. Nelson, Tenth and Howard Sts., San Francisco.
Other awards reported July 13.

Window Sash Contract Awarded.
STORE Cost, \$50,000
SAN FRANCISCO. 1041 Market St. Seven-story Class C steel and concrete store.
Owner—Weinstein Co. (Isidor Weinstein, President), 1041 Market St.
Architect—Hyman & Appleton, 68 Post St., San Francisco.
Engineer—H. Rosenthal, 821 Market St., San Francisco.
Contractor—Jacks & Irvine, Call Bldg. San Francisco.
Window Sash—Soule Steel Co., 1750 Army St., San Francisco.

OAKLAND, Calif.—Mark A. Miller, 3664 Madrone Ave., Oakland, awarded contract by the Oakland Builders Exchange for painting the exterior of the building at 354 Hobart St., Oakland. 16
Contract Awarded.
MARKET Cost, \$7500
SAN FRANCISCO. SE 28th Ave. and Judah St.
One-story frame and stucco market (35x80) composition roof, concrete floors, etc.
Owner—Withheld.
Architect—S. Heiman, 605 Market St.
Lessee—Safeway Stores.
Contractor—J. S. Malloch, 666 Mission Street.

Rubber Tile Floor Contract Awarded.
ALTERATIONS Cost, \$15,000
SAN FRANCISCO. Montgomery and Bush Streets.
Remodel ground floor of Mills Building for brokerage office (30 foot frontage) partitions, floor covering, wiring, painting, stock boards.
Owner—McKinley Bissinger and Jesse Lillenthal.
Architect—S. Heiman, 605 Market St.
Rubber Tile Floors—Malott & Peterson, 20th and Harrison Streets.
As previously reported, lighting trough awarded to Frink & Co., 557 Market St.; interior fixtures, woodwork, etc., to Seymour Show Case & Fixture Co., 604 Mission St., wiring to Frank J. Klimm, 465 Ellis St.

Plans Being Figured—Bids Close Aug. Sub-Bids Being Taken.
ALTERATIONS Cost, \$—
SAN FRANCISCO. No. 114 Sansome Street.
Alterations to building (cabinet work, etc.)
Owner—Adam Grant Building, 114 Sansome St. (Mr. Leavitt, in charge, Premises).
Architect—Not Given.
Work is being done under the owner's supervision.

Contract Awarded.
MARKET Cost, \$14,000
BERKELEY, Alameda Co., Cal. Solano and Colusa Aves.
One-story and mezzanine floor brick and steel frame market (75x100 feet); composition roof, etc.
Owner—Romie & Gage.
Designing Engr.—H. C. Britt, 366 17th St., Oakland.
Lessee—Henslee Corporation, 366 17th St., Oakland.
Contractor—E. Lea Const. Co., 830 11th St., Oakland.

Plans Being Prepared.
OFFICES Cost, \$—
YREKA, Siskiyou Co., Cal.
 Office building and shop.
 Owner—California-Oregon Power Co.,
 Yreka.
 Plans by Engineering Dept. of Owner.

Contract Awarded.
ALTERATIONS Cost, \$—
SAN FRANCISCO, No. 114 Sansome
 Street.

Alterations to building (cabinet work,
 etc.)
 Owner — Adam Grant Building, 114
 Sansome Street (Mr. Leavitt, in
 charge), Premises.
 Architect—Not Given.
Cabinet Work—Weber Showcase and
 Fixture Co., 938 Mission St.
Store Fronts—Federal Ornamental
 Iron & Bronze Co., 16th St. and
 San Bruno Ave.
Sidewalks—Phoenix Simpton Co., 520
 Sixth St.

Bids are being received by Mr.
 Leavitt on other portions of the work.

Planned.
HEADQUARTERS BLDG. \$50,000
STOCKTON, San Joaquin Co., Cal.
 Site Not Selected.
 Headquarters building and shops.
 Owner—State of California.
 Plans by Division of Architecture,
 Sacramento.

August 24, 1933

Contract Awarded.
ALTERATIONS Cost, \$5000
OAKLAND, Alameda Co., Cal. No.
 1717 Broadway.
 Alterations to store.
 Owner—Mary A. Bowles.
 Architect — Edward T. Foulkes, 357
 12th St., Oakland.
 Contractor—George Swanstrom, 1615
 78th Ave., Oakland.

Contract Awarded.
MARKET Cost, \$10,500
SACRAMENTO, Sacramento Co., Cal.
 North B and 16th Streets.
 Two one-story Class C concrete and
 wood frame market buildings (30x
 300ft.) and (60x150 ft.) concrete
 floors, composition roofing, load-
 ing platform.
 Owner—Wright & Kimbrough Co., 817
 J St., Sacramento.
 Architect — W. E. Coffman, Forum
 Bldg., Sacramento.
 Contractor—Chas. S. Mabrey, Forum
 Bldg., Sacramento.

Plans Being Figured.
STORES AND LOFTS \$20,000
SAN JOSE, Santa Clara Co., Cal. Mar-
 ket and San Fernando Sts.
 Two-story steel frame and concrete
 store and loft building (60x75 ft.)
 Owner—Robert F. Benson, 89 S-Mar-
 ket St., San Jose.
 Architect—Binder & Curtis, 35 W-San
 Carlos St., San Jose.
 Following will submit bids:
 E. Nommensen, 28 N-First St., San
 Jose.
 H. A. Bridges, 1398 Lincoln St., San
 Jose.
 Megna & Newell, Bank of America
 Bldg., San Jose.
 Chas. A. Thomas, 127 Clayton Ave.,
 San Jose.
 Paul Anderson, 1210 Lincoln Ave.,
 San Jose.

Plans Being Prepared.
BUILDING, ETC. Cost, \$10,000
MONTEREY, Monterey Co., Cal. Car-
 mel Hill.
 Information office building, gas sta-
 tion, etc.
 Owner — Del Monte Properties Com-
 pany (Jack Beaumont, Secy.) Del
 Monte Hotel, Monterey.
 Architect—W. C. Raiguel, Del Monte
 Hotel, Monterey.

Contract Awarded.
REMODEL STORE Cost, \$2000
STOCKTON, San Joaquin Co., Cal.
 No. 420 E-Main St.
 Remodel store building.
 Owner—Della W. Meigs.
 Architect—Not Given.
 Contractor—Crescent Showcase & Fix-
 ture Co., Taylor and San Joaquin
 Sts., Stockton.

LONG BEACH, Cal.—C. M. Dobyns,
 264 Roycroft Ave., Long Beach, con-
 templates the erection of a new radio
 broadcasting station on the east side
 of Oregon Ave. bet. 48th and 49th Sts.,
 Long Beach. Mr. Dobyns has made
 application to the Long Beach Plan-
 ning Commission to rezone the prop-
 erty. The estimated cost is \$20,000.

Plans Being Prepared.
ALTERATIONS Cost, \$7500
OAKLAND, Alameda Co., Calif. Tele-
 graph Ave. near Bancroft.
 Alterations to interior of store build-
 ing (new store fixtures, flooring,
 decorating, etc.)
 Owner—Anna B. Weeks.
 Architect—A. R. Williams, Humboldt
 Bank Bldg., San Francisco.
 Lessee—Roos Brothers.
 Bids will be taken in about 2 weeks.

Sub Contracts Awarded.
STORE Cost, \$5000
SACRAMENTO, Sacramento Co., Cal.
 No. 1431 L Street.

One-story brick store building.
 Owner—D. D. Sulli an.
 Architect—Not Given.
 Contractor—Julius Johnson, 1923 17th
 St., Sacramento.

Cement Work—Angelo & Frank, 1214
 30th St., Sacramento.

Iron Work—Palm Iron Works, 15th
 and S Sts., Sacramento.

Steel Sash—Fenestra Co., 111 Sutter
 St., San Francisco.

Roofing—F. Clark, Fruitridge, Sacra-
 mento.

Brick Work—Harry Johnson, 818 26th
 St., Sacramento.

Electric Work—J. Thomas, 3216 L St.,
 Sacramento.

Plumbing—Scott Plumbing Co., 1900
 M St., Sacramento.

Plastering—V. Norclo, 3120 5th Ave.,
 Sacramento.

Painting—E. H. Sprague, 2020 H St.,
 Sacramento.

Sheet Metal—F. Z. Ahl, 1615 21st St.,
 Sacramento.

Mill Work—Burnett & Sons, 11th and
 C Sts., Sacramento.

Sub-Contracts Awarded.
STORES Cost, \$11,500
SAN FRANCISCO, W Ninth Street
 166 S Mission Street.

One-story and mezzanine floor Class
 C reinforced concrete store build-
 ing (tar and gravel roof, concrete
 and wood floors, etc.)

Owner—L. Meyers, 63 Post St., San
 Francisco.

Architect—Hyman & Appleton, 63 Post
 St., San Francisco.

Contractor—Jacks & Irvine, Call Bldg.
 San Francisco.

Plumbing—E. Sugarman, 3624 Geary
 St., San Francisco.

Roofing—United Roofing Co., Ltd., 142
 Stillman St., San Francisco.

As previously reported, glass award-
 ed to W. P. Fuller & Co., 301 Mission
 St.; plastering to J. H. Martineil;
 steel sash and reinforcing bars to
 Truscon Steel Co., Call Bldg.

Plans Being Figured—Bids Close Aug.
 29, 12 Noon.

STORE Cost, \$80,000
REDWOOD CITY, San Mateo Co., Cal.
 Broadway and Hamilton Aves.
 One-story, mezzanine floor and base-
 ment steel and brick or reinforced
 concrete store (60x150 ft.)

Owner—David J. Davis, 500 Chelms-
 ford Road, Hillsborough.
 Plans by Engineering Dept. of Lessee
 Supervising Architect — G. Albert
 Lansburgh, 140 Montgomery St.,
 San Francisco.
 Lessee—Montgomery Ward Co., Chi-
 cago, Illinois.

Following will submit bids:
 Lindgren & Swinerton, Inc., 225
 Bush St., San Francisco.

Dinwiddie Constr. Co., Crocker Bldg.
 San Francisco.

Cahill Bros., 206 Sansome St., San
 Francisco.

H. H. Larsen, 64 South Park, San
 Francisco.

G. W. Williams Co., Ltd., 315 Prim-
 rose St., Burlingame.

17—THEATRES

Decorating Contract Awarded.
ALTE? THEATRE Cost, \$75,000
SEATTLE, Wash. 513-515-517 Pike St.
 Alterations to theatre (to seat 750).

Owner—S. & A. Manheimer, Bigelow
 Bldg., Seattle.

Architect—Henry Bittman, Securites
 Bldg., Seattle.

Contractor—J. W. Bailey Const. Co.,
 1621 Boren Ave., Seattle.

Decorating—A. Weissenborn Decorat-
 ing Co., 516 Westlake, Seattle.

Contract Awarded.
REPAIR THEATRE Cost, \$3329
SAN JOSE, Santa Clara Co., Calif. S
 San Pedro, S Market Street.

Repair fire damage to theatre.
 Owner—Liberty Amusement Co., 60 S
 San Pedro St., San Jose.

Plans by F. W. Moore, 1132 Glen Ave.,
 San Jose.

Contractor—H. A. Bridges, 1398 Lin-
 coln, San Jose.

18—WHARVES & DOCKS

STOCKTON, San Joaquin Co., Cal.
 —C. A. Lauritzen, Antioch, at \$1725
 awarded contract by City Port Com-
 mission to furnish and install float-
 ing fenders for Wharves 2, 3 and 4,
 Stockton Deep Water Development.

Low bid was submitted August 14
 by Geo. W. Jacobs, Stockton, at \$1-
 184.20 but no certified check was en-
 closed, so contract was awarded to
 second low bidder.

OAKLAND, Calif.—Architects Kent
 & Hass, 525 Market St., San Fran-
 cisco, awarded the painting contract
 to Raphael Co., 270 Tehama St., San
 Francisco, and the finish hardware to
 the Palace Hardware Co., 581 Market
 St., San Francisco, in connection with
 the construction of the new boat and
 train concourse for the Key Terminal
 Railway Co., Ltd., Oakland.

OAKLAND, Calif.—Steel Erectors
 Consolidated, foot of 17th St., Oak-
 land, at approximately \$15,000 award-
 ed contract by Key System Railway
 Co., 22nd and Grove Sts., Oakland, for
 steel passenger bridges in connection
 with the construction of the new Key
 Route Pier, Oakland. Kent and Hass,
 525 Market St., San Francisco, archi-
 tects.

19—MISC. CONSTRUCTION

Plans Being Prepared.
MAUSOLEUM Cost, \$800,000
PORTLAND, Ore. Valkyrie Memorial
 Park Cemetery.

Reinforced concrete masoleum.

Owner—Valkyrie Memorial Park Cem-
 etery Assn. (M. L. Munger, Ameri-
 can Bank Bldg., Portland).

Architect—Roald & Schneider, Spald-
 ing Bldg., Portland.

Sub-Contracts Awarded.
RECREATION CENTER Cost, \$5000
RICHMOND, Contra Costa Co., Calif.
 Nichol Park.

Two one-story frame and stucco recreation buildings (men's unit, 27x55 ft.; women's unit, 21x27.6 ft.) locker and shower rooms, toilets, etc.; tile roof, concrete floors (Spanish style).

Owner—City of Richmond.
 Plans by City Building Inspector.
 Contractor—Tandy & Theis, 1937 Garvin Ave., Richmond, \$3,710.60.

Brick Work—James Walker, 3001 Barrett Ave., Richmond.

Concrete—Lavggi Bros., 2339 Downer St., Richmond.

Sheet Metal—Spiersch Bros., 322 13th St., Richmond.

Lumber—Hill Lumber Co., 47th and Railroad, Richmond.

Plumbing—Richmond Plbg. Co., 451 33rd St., Richmond.

Electric Wiring—Pacific Elec. Co., 1120 Macdonald Ave., Richmond.

Plastering—C. Jackson, 846 33rd St., Richmond.

Roofing—Master Craft & Tile Co., 1 20th St., Richmond.

Carpentry—Tandy & Theis, 1937 Garvin, Richmond.

Painting—Lamble & Lamble, 533 Barrett, Richmond.

LONG BEACH, Cal.—Until 4 P. M., August 28, bids will be received by the Long Beach board of education for a cafeteria hand-out stand. Specifications may be obtained at the office of the business manager, corner of 25th and Chestnut Ave., Long Beach.

SAN FRANCISCO.—Dunham, Carrigan & Hayden, Kansas and Division Streets, awarded contract by City Purchasing Department for door closers for the School Department. Bid read \$6.32 each with an alternate bid of \$6.24 each. Complete bids published July 17.

PORTLAND, Oregon.—Ground for a \$600,000 cemetery for Portland has been broken at Valkyrie Memorial Pk. where an \$800,000 community mausoleum is contemplated. M. L. Monger, president. Tentative plans have been prepared.

BERKELEY, Alameda Co., Cal.—Ransome Co., 1450 Harrison St., Oakland, at \$3519 awarded contract by Regents of the University of California for constructing three tennis courts on the University of California Campus, Berkeley.

Low Bidder.
ROOF DECK Cost, \$6000
OAKLAND, Alameda Co., Cal. Seventh and Kirkham Streets.

Steel frame and concrete roof deck over open driveway.

Owner—Golden West Brewery Co.
 Architect—A. R. Williams, Humboldt Bank Bldg., San Francisco.

Engineer—W. Adrian, 417 Market St., San Francisco.

Low Bidder—S. Rasori, 74 New Montgomery St., San Francisco.

Bids held under advisement.

Plans Being Figured—Bids Close Aug. 30, 12 Noon.

RECREATION BLDG. Cost, \$6500
SAN FRANCISCO. 229 Minna Street. Recreation building for St. Patrick's Shelter (steel frame Class C brick construction).

Owner—St. Patrick's Shelter (Mon. Ryan in charge).

Architect—Arnold Constable, 580 Market Street.

Bids are being received from a selected list of contractors.

Grading Contract Awarded.
BATH Cost, \$5000
SAN FRANCISCO. N Market Street 50 E Noe Street.

One-story frame public bath house.

Owner—Mrs. M. A. Finnilla, 4132 17th Street.

Engineer—W. Adrian, 417 Market St.

Grading—L. Devincenzi, 148 Blake St.

Work is being done by day's labor under the owner's supervision.

MESA, Ariz.—Col. Fred Cardway, 37 N Country Club Drive, Phoenix, has had plans prepared for improvements, including a ranch house, at Rancho del Vaquero, ten miles east of Mesa. The owner will supervise construction. The house will be an adobe brick structure, containing 20 rooms and 10 bathrooms. Other improvements will include corrals, stable, swimming pool servants' quarters, garages, and landscaping.

ARCADIA, Los Angeles Co., Cal.—Architects A. R. Walker and P. A. Eisen, Ltd., 507 Signal Oil Bldg., Los Angeles, have completed working drawings for the stables, grandstand and clubhouse to be erected on the Santa Anita Rancho, Arcadia, for the Los Angeles Jockey Club. Plans for the paddock and executive buildings, together with the landscaping and exterior entrances, are nearing completion. The general grading for the track is finished, foundations for the clubhouse and six stable constructed and super-structures for 3 stables built. Work on the plant will be resumed when permits for race meets have been issued by the State Racing Commission. Lindgren and Svinerton, Inc., 523 W 6th St., Los Angeles, and R. Westcott Co., 536 S Broadway, Pasadena, are associated as general contractors for the work.

20—MISC. SUPPLIES AND MATERIALS

REDDING, Shasta Co., Cal.—James L. Hall, Mills Bldg., San Francisco, at \$594.70, 2% 10 days, awarded contract by city council to furnish cedar poles f.o.b. cars Redding as follows:
 (1) 10 9-in. top 50-ft. cedar poles;
 (2) 35 9-in. top 45-ft. cedar poles;
 (3) 10 9-in. top 40-ft. cedar poles.

Western Red Cedar, butts creosoted one-half inch guaranteed penetration. Complete bids follow:

James L. Hall, S. F.	\$594.70
Chas. R. McCormick, S. F.	594.70
Maydwell & Hartzell, S. F.	618.75
Graybar Elec. Co., S. F.	620.00
J. A. Baxter Co., S. F.	687.50
Diamond Match Co., Redding	687.50
Neidermeyer Martin Lumber Co. Portland, Oregon	689.45
Nestos Pole Co., Seattle	706.25
General Electric Supply Co., San Francisco	761.00

BREMERTON, Wash.—Until Aug. 31, 10 A. M., D.S.T., under Req. No. 103 NSA, bids will be received by Supply Officer, Puget Sound Navy Yard, to furnish 23,000 lbs. boiler compound, feed-water-boiler, Navy Standard, in 50-55 lb. drums. Specifications obtainable from above office. Delivery Sept. 15 f.o.b. above or f.o.b. carrier at or near contractor's works.

LOS ANGELES, Calif.—Until 11 A. M., Sept. 8, bids will be received by A. J. Holm, city purchasing agent, 107 City Hall, for furnishing and delivering to Water and Power Department f.o.b. trucks, department's warehouse, 257 E 3rd St., Los Angeles, or f.o.b. cars, Davies Extension spur, S. P. delivery, or f.o.b. cars, bidder's designated shipping point with full freight allowed to 257 E 3rd St., Los Angeles, 750,000 C. M., 35,000-volt, 3-conductor, lead covered, paper insulated cable on

reels under Spec. No. 3190. The bids will be taken as follows:

(1) 18,663 ft. cable (for number of reels, reel numberings and lengths per reel under this item, see specifications on file in the office of Los Angeles city purchasing agent).

(2) 18,653 ft. cable (for number of reels, reel numberings and lengths per reel under this item, see specifications on file in the office of Los Angeles city purchasing agent).

LOS ANGELES, Calif.—California Portland Cement Co. awarded contract at \$617.25 mill; \$232.75 freight; \$850 delivered, by Saul A. Joseph, Purchasing Agent of the Metropolitan Water District, Aug. 17 for furnishing portland cement f.o.b. cars at mill under Bid No. 14216. The award was based on total delivered cost.

LOS ANGELES, Cal.—Union Hardware & Metal Co. was awarded contract by H. E. Russell, County Purchasing Agent, 524 N Spring St., for brass nipples and couplings under Specifications No. 6243.

LOS ANGELES, Cal.—Mell O. Haldemann Corp. awarded contract by H. E. Russell, County Purchasing Agent, for brass couplings, tees, elbows, etc. Specification No. 6248.

SAN FRANCISCO—Moran Plumbing Supply Co., 323 11th St., Oakland, at \$14,790.96 submitted low bid to U. S. Forest Service, for:

- (1) 122 bath tubs;
- (2) 80 lavatories;
- (3) 124 water closets;
- (4) 185 sinks;
- (5) 148 laundry trays;
- (6) 159 hot water boilers, 30 gallons;
- (7) 26 hot water boilers, 40 gallons;
- (8) 26 showers;
- (9) 26 urinals.

Bid read as follows:

	Each
(1)	\$30.30
(2)	9.64
(3)	17.37
(4)	20.98
(5)	11.27
(6)	10.34
(7)	18.23
(8)	10.38
(9)	15.35

*Crane Co. submitted second low bid at \$15,260.81.

Identical bids were submitted by the following:

- Tay Holbrook Co., San Francisco.
- Pacific Plumbing & Heating Co., San Francisco.
- California Pipe & Supply Co., San Francisco.
- P. E. O'Hair & Co., San Francisco.
- M. O. Haldemann Corp.
- Richmond Sanitary Co., Richmond.
- Grinnell Co., San Francisco.
- Auburn Lumber Co., Auburn.
- Dalziel Moller Co.
- United Pipe & Supply Co., San Francisco.
- West Coast Sanitary Co., San Francisco.
- Dahlman Supply Co.
- Griffith Pipe & Supply Co.
- Olson & Heffernan, San Francisco.

Bids read as follows:

	Each
(1)	\$31.25
(2)	10.01
(3)	17.83
(4)	21.52
(5)	11.88
(6)	10.63
(7)	18.78
(8)	10.97
(9)	15.98

*Crane Company's bid was identical with the above with the exception of item 9, their bids reading \$13.98 each.

ENGINEERING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

- | | |
|-------------------------------------|-------------------------------------|
| 21.—Bridges | 30.—Reservoirs and Dams |
| 22.—Dredging, Harbor Works, Excava. | 31.—Pipe Lines and Wells |
| 23.—Irrigation Proj. | 32.—Sewers & Sewage Disposal Plants |
| 24.—St. Light. Systems | 33.—Water Works |
| 25.—Machinery and Equipment | 34.—Parks & Playgrounds |
| 26.—Railroads | 35.—Tunnels |
| 27.—Fire Alarm Sys. | |
| 28.—Fire Equipment | |
| 29.—Streets & Highways | |

21—BRIDGES

VENTURA, Cal.—Until 11 A. M., Sept. 2, bids will be received by the directors of Joint Highway District No. 6, Ventura, for constructing a timber trestle bridge on the route of the Maricopa-Ventura Highway across the Cuyama River, in Ventura County, about 40 miles from Maricopa. The bridge will be 350 ft. in length, 24 ft. wide. The plans may be obtained from the Chief Engineer, C. W. Petit, Court House, Ventura, upon payment of \$2, not returnable. Certified check or bond, 10%. The quantities are:

- 71 timber piles, 32 ft. in length;
- 10.5 cu. yds. class A reinf. concrete;
- 6,800 cu. yds. earthwork grading;
- 74,000 ft. B. M. redwood, dense select structural;
- 20,000 ft. B. M. redwood select structural;
- 7,600 sq. ft. asphalt macadam wearing surface.

Alternate bids will be taken on all creosoted Douglas fir timber.

MENDOCINO CO., Cal.—Until Sept. 13, 2 P. M., bids will be received by State Highway Commission, Sacramento, to construct a bridge across Feliz Creek at Hopland, consisting of nine 33 ft. steel stringer spans with concrete decks on concrete pile bents, involving:

- (1) 300 cu. yds. struc. excav.;
- (2) 1410 lin. ft. furnish reinf. conc. piles (incl. test piles);
- (3) 54 drive reinf. conc. piles (incl. test piles);
- (4) 402 cu. yds. class A Port. cement concrete;
- (5) 60,000 lbs. bar reinf. steel;
- (6) 289,000 lbs. struc. steel;
- (7) 1750 lbs. cast steel;
- (8) 1 lot misc. items of work.

BUTTE, CO., Cal.—Until Sept. 13, 2 P. M., bids will be received by State Highway Commission, Sacramento, to construct a reinforced concrete bridge across west branch of Feather River about 14 mi. north of Oroville consisting of one 155-ft. open spandrel arch span, three 40-ft. concrete girder spans and six 38-ft. concrete girder spans, involving:

- (1) 2000 cu. yds. struc. excav.;
- (2) 1345 cu. yds. class A Port. cem. conc. (struc.);
- (3) 265 cu. yds. do (arch and rib);
- (4) 39.5 cu. yds. do (ralling);
- (5) 300,000 lbs. mar reinf. steel;
- (6) 512 lbs. bronze expansion plates;
- (7) 1 lot miscellaneous items of work.

Specifications obtainable from above office.

ELKO COUNTY, Nev.—Until Sept. 6, S. C. Durkee, State Highway Engi-

neer, Carson City, to construct overpass over the Western Pacific Railway near Silver Zone, Rt. 1, Sec. G-2, 0.04 mile, involving:

- (1) 200 cu. yds. rdwy. excav.;
- (2) 500 cu. yds. excav., struc.;
- (3) 130 cu. yds. Class A concrete;
- (4) 200 cu. yds. Class D concrete;
- (5) 36,000 lbs. structure steel;
- (6) 58,000 lbs. reinf. steel;
- (7) surface approaches (lump sum);
- (8) 0.04 mile finish roadway.

Specifications obtainable from the above office on deposit of \$5, \$2.50 of which \$2.50 is returnable. Certified check 5% required with bid.

ARIZONA STATE — Bids will be asked shortly by State Highway Commission, Phoenix, to construct overhead railroad crossing and approaches on the Flagstaff-Williams Highway, involving:

- (1) 2250 cu. yds. unclass. excav.;
- (2) 2663 cu. yds. drainage excav.;
- (3) 150 cu. yds. slides and over-breakage;
- (4) 320 cu. yds. unclass. excav., struc.;
- (5) 21,224 cu. yds. unclass. borrow excav.;
- (6) 877 sta. yds. earthwork overhaul;
- (7) 1004 sta. yds. select borrow;
- (8) 1305 select borrow haul (cu. yd. mi.);
- (9) 788 cu. yds. agg. base course;
- (10) 2530 cu. yd. mi. do, haul;
- (11) 8 cu. yds. class A-4 concrete;
- (12) 467 cu. yds. class do;
- (13) 62,542 lbs. reinf. steel bars;
- (14) 75,250 lbs. struc. steel;
- (15) 4 blast plates;
- (16) 40 lin. ft. 36-in. corru. metal pipe
- (17) 63 lin. ft. riprap;
- (18) 2010 lin. ft. cable road guard;
- (19) 1110 lin. ft. standard line fence;
- (20) 250 hours rolling fill;
- (21) 6 corru. metal catchbasins.

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PLUMAS COUNTY, Cal.—Until September 14, 2 P. M., bids will be received by State Highway Commission, Sacramento, to construct a bridge across North Fork of Feather River at Howells, consisting of an 130-foot through steel arch span with concrete deck, involving:

- (1) 133 cu. yds. Class "A" Port. cem. concrete;
- (2) 16,550 lbs. bar reinf. steel;
- (3) 246,170 lbs. struc. steel;
- (4) 4,708 lbs. cast bearings;
- (5) 1 lot misc. items of work.

LOS ANGELES, Cal.—Until 2 P. M., September 11, bids will be received by County Supervisors to construct wood and steel frame bridge on New York Ave., over Eaton Wash. Bids will be taken on two types, viz: (1)

Redwood with Douglas Fir, and (2) using all Redwood. The proposed bridge will consist of four spans 33-ft. each, with 20-ft. roadway. The estimates of quantities follow:

- 4,653 B. M. Redwood with Douglas Fir;
 - 46,184 B. M. creosoted Douglas Fir;
 - 50,837 B. M. total (OR);
 - 53,180 B. M. all Redwood;
 - 2,321 lbs. structural steel;
 - 1,843 lbs. truss rods;
 - 1,178 lbs. lateral rods;
 - Bolts, and lag screws; etc.;
 - 743 cu. yds. excavation;
 - 46 cu. yds. class D concrete.
- W. D. Armstrong, County Bridge Engineer.

SACRAMENTO CO., Cal. — Until Sept. 15, 2 P. M., bids will be received by State Highway Commission, Sacramento, to widen eight reinforced concrete slab bridges and one culvert from 24-ft. roadway to 34-ft. roadway, at points between Sacramento and McConnell, involving:

- (1) 700 cu. yds. struc. excav.;
- (2) 120 cu. yds. exist. conc. to be removed;
- (3) 690 cu. yds. class A Port. cem. concrete;
- (4) 64,500 lbs. bar. reinf. steel;
- (5) 1275 lin. ft. solid timber railing;
- (6) 1 lot temporary timber guard-rail;
- (7) 1 lot misc. items of work.

LOS ANGELES, Cal.—Until 2 P. M., Sept. 11, bids will be received by County Supervisors to construct reinforced concrete rigid frame bridge to be built on Muscatel Ave., over Eaton Wash. The proposed bridge will be 120 ft. in width with a 40 ft. clear span. The quantities are:

- 1,310 lbs. No. 5 wire;
- 866 cu. yds. class E conc.;
- 96 cu. yds. class D conc.;
- 2,500 cu. yds. excavation;
- 19,670 sq. ft. form area;
- 346 sq. ft. 5/8-in. asph. felt;
- 160 sq. ft. 1/2-in. asph. felt;
- 124 lin. ft. galvanized iron hand rail;
- 246,545 lbs. reinforcing steel;
- 180 cu ft. grade F asphalt.

Note: Add cost of moving existing 24-in. corrugated metal pipe.

W. D. Armstrong, county bridge engineer.

LOS ANGELES, Calif.—Atlas Const. Co., 39 Congress St., Pasadena, submitted low bid to county supervisors August 21 at \$8100, for constructing a concrete and steel bridge to be built on Camp Baldy Road over San Antonio Creek. The proposed bridge will consist of two spans, 32 1/2 ft. each, with a 20-ft. roadway, concrete abutments, steel girders and conc. slab.

MENDOCINO COUNTY, Cal.—Until Sept. 15, 2 P. M., bids will be received by State Highway Commission, Sacramento, to construct a bridge across the Russian river two miles south of Hopland, consisting of one 247-ft. 7-in. through steel truss span on concrete piers and twenty-one steel beam spans having a total length of approximately 889 ft., and supported by reinforced concrete pile bents and two concrete abutments, involving:

- (1) 1100 cu. yds. struc. excavation;
- (2) 4040 lin. ft. furnish reinf. conc. piles inc. test piles;
- (3) 114 drive reinf. conc. piles inc. test piles;
- (4) 270 cu. yds. Class A Port. cem. conc. (footing blocks);

CAPITAL CITY TITLE COMPANY

J. C. PALEN,
Manager

914 Seventh Street
Sacramento :: California

- (5) 1535 cu. yds. do(struc.);
- (6) 213,000 lbs. bar reinf. steel;
- (7) 1,283,000 lbs. struc. steel;
- (8) 77,800 lbs. struc. steel (railing);
- (9) 11,200 lbs. cast steel;
- (10) 80 lin. ft. 8-in. corru. metal pipe;
- (11) 1 lot misc. items of work.

MADERA CO., Cal.—Until Sept. 14, 2 P. M., bids will be received by State Highway Commission, Sacramento, to construct a timber bridge across Ash Slough 0.5 mi. north of Chowchilla, consisting of thirty-four 10-ft. spans on pile bents, involving:

- (1) 80 cu. yds. struc. excav. ;
- (2) 400 cu. yds. rdwy. excav. unclass.
- (3) 1 only exist. bridge remove;
- (4) 5580 lin. ft. furnish redwood piles incl. test pile;
- (5) 218 drive redwood piles incl. test piles;
- (6) 157 MFBM redwood timber, dense select all-heart struc. grade;
- (7) 87 MFBM redwood timber, select all-heart struc. grade;
- (8) 380 cu. yds. Class "A" Port. cem. conc. (deck slab);
- (9) 110 cu. yds. do (pave wlden);
- (10) 58,000 lbs. bar reinf. steel (pave and struc.);
- (11) 1 lot misc. items of work.

MARIN AND SONOMA CO., Cal.—Until Sept. 14, 2 P. M., bids will be received by State Highway Commission, Sacramento, to repair east timber trestle approach to a bridge across Petaluma Creek at Green Point, consisting of replacing defective stringers and bracing and reconstructing floor and railing and paving with asphalt concrete, involving:

- (1) 145 M. ft. B. M. old timber, remove and dispose of;
- (2) 48 M. ft. B. M. Douglas fir timber, sel. struc. grade (stringers, bridging and bracing);
- (3) 127 M. ft. B. M. Douglas fir timber, sel. struc. grade (lam. floor, floor plank and headers);
- (4) 40 M. ft. B. M. redwood timber, dense sel. all-heart struc. grade;
- (5) 7 M. ft. B. M. redwood timber, sel. do;
- (6) 220 tons asph. conc. surf.;
- (7) 9600 lbs. struc. metal;
- (8) 1125 lin. ft. temporary timber guardrail;
- (9) 1 lot misc. items of work.

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LOS ANGELES, Cal.—Parish Bros., 1222 N. Grower St., awarded contract by County Board of Supervisors Aug. 21 at \$13,590 for constructing a reinforced concrete bridge to be built on Alameda St., over Compton Creek. The proposed bridge will consist of two spans, 30 ft. each, with a 50-ft. roadway and with creosoted piling foundation.

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22—DREDGING, HARBOR WORKS, EXCAVATION

SEATTLE, Wash.—As previously reported, Puget Sound Bridge and Dredging Co., 2929 16th Ave. S. W., Seattle, at \$54,795 submitted low bid to U. S. Engineer Office, Seattle, to dredge 281,000 cu. yds. material from Duwamish Waterway, Seattle Harbor. Only other bid submitted by the General Const. Co., Seattle, at \$60,415.

LONG BEACH, Cal.—City Council has appropriated \$100,000 from gasoline tax funds toward the cost of constructing a seawall along the ocean front at Alamitos Bay in the Naples district. The estimated cost is \$300,000. The balance, or \$200,000, will probably be financed by an assessment district in the event that an NRA application for \$333,300 is not granted. One of the two plans which the engineers have before them is an alter-

native plan calling for filling of the Naples Canal and the Rivo Alto Canal and paving these waterways. The other plan provides for a bulkhead along the entire front. Plans are under the direct supervision of E. H. Harnett, 502 City Hall, city engineer's office, and call for the following:

- 11,000 lin. ft. concrete sheet piling;
- Concrete coping;
- Pipe railing;
- Cement concrete sidewalk.

SPOKANE, Wash.—Until Sept. 1st, bids will be received by Columbia Basin Commission, Spokane, for 21,000 ft. core drilling and examination excavation at dam site, in connection with \$63,000,000 Grand Coulee Project. Estimated cost of survey, \$150,000.

LONG BEACH, Los Angeles Co., Cal.—Applications for NRA funds for harbor projects to be financed by the Federal Public Works Administration have been filed with the Federal Emergency Administrator. The list totals, \$3,450,000, segregated as follows:

- Pier Ave.—paving Pier A and const. of transit shed, \$568,826.03.
- Extension of west mole in outer harbor, \$1,034,957.86.
- Pier B constr. of pave., wharf and retaining walls at Berth 12, \$531,574.73.
- Dry and cold storage shed at Berth 12, \$243,979.55.
- Administration building and appurtenances, \$25,778.25.
- Wharf and open storage for lumber on property bound by channel 34, slip 5, \$623,947.05.
- Pier 1 constr. of transit shed at Berth 48, \$70,100.52.
- Belt line connection at Water and Tulare Sts., and various connections, \$338,482.97.
- Misc. paving Santa Clara Ave., pave. Mitchell Ave., aids to navigation, \$12,353.04.

SANTA BARBARA, Calif.—Detailed quantities for the proposed groyne to be built on E Cabrillo Blvd. for which bids will be received by city council August 31 (previously noted), as announced by E. B. Brown, city engineer, are:

Alternate "A"—Timber Groyne

Consists of 200 ft. groyne constructed from 6x12-in. x 18-ft. grooved creosoted sheet piling with 1 1/4 x 2 3/4-in. creosoted splines, double 6x8-in. creosoted wales and staggered round piles along the side. Approximate quantities:

- 25 MBF. of creosoted timber;
- 15 creosoted round piles, 30-ft. long;
- 9 creosoted round piles, 35-ft. long;
- 11 creosoted round piles, 40-ft. long.

Alternate "B"—Steel Groyne

200 lin. ft. of steel sheet piling every fifth pile driven to extra depth; Lackawanna pile No. D P 166 or equal; two 8-in. by 18.75 lb. channel wales and 6x18-in. creosoted timber cap.

Approximate quantities:

- 118 18 ft. piles;
- 10 40-ft. piles;
- 8 35-ft. piles;
- 14 30-ft. piles;
- 400 lin. ft. 8x18.75 lb. channels; (approximately 74.5 tons);
- 1.8 MBF. creosoted timber;

and necessary hardware. Copies of specifications, plans and proposals obtainable from city engineer on deposit of \$5, returnable.

SAN FRANCISCO.—No bids received by U. S. Engineer Office to dredge 6750 cu. yds. material in the channel at the mouth of Noyo River, near Fort Bragg, Calif.

SACRAMENTO, Calif.—All bids rejected by U. S. Engineer Office, Sac-

ramento, to construct new levee and raise old levee along the northeasterly side of Hass Slough from near its junction with Cache Slough to its junction with Reclamation District No. 2968 canal, and on the easterly side of said canal to near the pumping plant, total length of levee 16,400 ft., and new bids will be called shortly.

23—IRRIGATION PROJ.

PHOENIX, Ariz.—The Arizona State Advisory Board has before it a proposal to grant the State of Arizona a loan of \$20,836,500 for the construction of the Parker-Gila Reclamation Project on the Colorado River. The project contemplates the reclamation of 266,000 acres by the 2,800,000 acre feet of Colorado water allocated to the state. W. W. Lane is chairman of the State Advisory Board.

25—MACHINERY AND EQUIPMENT

SANTA ANA, Orange Co., Calif.—Bids for furnishing the city a motor-driven street sweeper, complete, opened by the city council August 14 were taken under advisement, as follows:

- Concrete Machinery & Supply Co.—Austin, \$6900; allowance on used equipment, \$500; 2%, 30 days.
- Kinney Mfg. Co., Kinney-Springfield, \$6835 net, f.o.b. Boston; freight allowed to Santa Ana.
- Elgin Corp.—Elgin, \$7250; allowance \$565; 4 1/2% 30 days.

LOS ANGELES, Cal.—Contracts for furnishing gas generating plants, space heaters and appurtenances, water heaters and appurtenances and gas fuel under Spec. No. 3144 awarded by A. J. Holm, City Purchasing Agent, August 18 as follows: Items (1) and (4) to Parkhill Ware, Inc., at \$18,783.20 (estimated total); items (2) and (3) to Pacific Gas Radiator Co. at \$5980.72 (estimated total). The bids were opened July 17.

MARYSVILLE, Yuba Co., Cal.—A. H. Holtman, Marysville, at \$1882.93 awarded contract by Marysville Union High School District to furnish one chassis for school bus; Patchetts and Carstensen, Newman, at \$1583.55 was awarded contract for bus body.

SAN FRANCISCO.—Associated Equipment Co., Ltd., 355 Fremont St., at \$4766.25 submitted low bid to T. A. Brooks, City Purchasing Agent, under Bid No. 1063, to furnish one caterpillar maintenance unit for Department of Public Works. Complete bids follow:

- Associated Equip. Co.\$4766.25
- Robinson Tractor Co. 5120.00
- Eby Machinery Co. 5585.00
- Austin-Western Road Mach..... 5599.00
- J. D. Adams Co. 5928.50
- Jenison Machinery Corp..... 6103.88

Bids held under advisement.

LOS ALTOS, Santa Clara Co., Cal.—Until Sept. 5, 4 P. M., bids will be received by Frank Evans, Clerk, Los Altos Elementary School District, to furnish one school bus, 40-passenger capacity. Further specifications obtainable from above office.

LOS ANGELES, Cal.—Stephens-Adamson Mfg. Co. awarded contract at \$2185, Los Angeles; \$2230 Indio, by Saul A. Joseph, Purchasing Agent of the Metropolitan Water District, Aug. 17, for furnishing portable screening plant under Bid No. 13749.

OAKLAND, Cal.—Until Aug. 30, 5:30 P. M., bids will be received by John H. Kimball, Secretary, East Bay Municipal Utility District, 512 16th Street,

Oakland, to furnish one 22,000 lbs. 4-wheel trailer under Spec. LS-492, obtainable from above office.

OAKLAND, Cal.—Until Aug. 30, 5:30 P. M., bids will be received by John H. Kimball, Secretary, East Bay Municipal Utility District, 512 16th Street, Oakland, to furnish one 22,000 pound truck under Spec. LS-491, obtainable from above office.

OAKLAND, Cal.—Until Aug. 30, 5:30 P. M., bids will be received by John H. Kimball, Secretary, East Bay Municipal Utility District, 512 16th Street, Oakland, to furnish one gasoline motor-driven roller, not over eight tons, under Spec. LS-490, obtainable from above office.

FAIRMED, Madera Co., Cal.—The Logan Auto Co., Fresno, at \$2261.40 awarded contract by the Fairmead Grammar School District, for one bus chassis with factory standard wheel base of 164 inches, full floating rear axle, six cylinder L-head motor and equipped with a custom built 42 passenger grammar school body.

Two low bids submitted by Frank E. Beckett, Inc., and the White Co., both of Fresno, were not considered as they did not comply with specifications.

SAN FRANCISCO—Rix Co., Inc., 400 4th St., at \$170 each awarded contract by U. S. Forest Service to furnish 10 rock drills. Ingersoll-Rand Co., at \$170 each awarded contract to furnish 6 rock drills.

SAN FRANCISCO—A. L. Young Machinery Corp., Inc., 26 Fremont St., at \$59.60 with an alternate of \$68.50 submitted low bid to U. S. Forest Service to furnish one gasoline engine, 3½-h.p. rating, horizontal, hopper-cooled type. Complete bids follow:

A. L. Young Machy. Corp.	\$ 59.60
Alternate	68.50
Woodin & Little	78.00
Brown-Bevls, Los Angeles	80.00
Fairbanks-Morse Co.	101.55
Kratz & McClelland	107.50
Jenison Mfg. Co.	110.00
Alternate	75.00

Bids held under advisement.

LOS ANGELES, Calif.—Until 11 A. M., Sept. 12, bids will be received by A. J. Holm, City Purchasing Agent, 107 City Hall, to furnish supervisory control equipment for the control and supervision of the Palisades Del Rey Distribution Stations, with options to purchase additional equipment of the same type for the Reseda and Owensmouth Distributing Stations within a period of six months after date of contract. Specifications No. 3099.

SANTA ANA, Orange Co., Calif.—All bids for furnishing a motor-driven street sweeper, opened August 14, rejected by city council August 21. The city auditor, L. M. Banks, was ordered to buy in the open market.

PASADENA, Cal.—Kelman Electric & Mfg. Co., 1650 Naud St., Los Angeles, submitted low bid to city board of directors August 22 at \$19,390 to furnish metal-clad switch gear and appurtenances and certain spare parts for the Lamanda Park substation. Bids taken under advisement.

NORTH HOLLYWOOD, Los Angeles Co., Cal.—Bids for furnishing one 35' gasoline powered tracklaying type tractor, Reg. No. 6200 f.o.b. North Hollywood, were opened by the State Purchasing Agent, Sacramento, Aug. 21. The bids were:

B. Hayman Co., Bates, \$2495 net.
Shepherd Tractor & Equip Co., Caterpillar, \$2765; 2% 30 days.

Crook Co., Allis-Chalmers, \$2765; 2 percent 30 days.

J. D. Adams Co., McCormick-Deering, \$2804; less 14% 30 days.

SAN FRANCISCO—All bids rejected by U. S. Engineer Office to overhaul two Hall-Scott marine engines, and new bids will be called to open probably Aug. 29, 3 P. M.

LAS VEGAS, Nev.—Until 10 A. M., Sept. 2, bids will be received by the Las Vegas Union School District for one school bus; capacity not less than 60 high school pupils. Bidders will specify type of seating, upholstery, shatter-proof glass, driver controlled doors, etc., in addition to engine specifications and type and size of tires. O. K. Adcock, president.

30—RESERVOIRS & DAMS

POMONA, Los Angeles Co., Cal.—All bids for drilling a 20-in. water well for water department, opened by the city council August 1, were rejected August 15

ST. HELENA, Napa Co., Calif.—Town council considers construction of spillway at the Upper Reservoir. Estimated cost \$7500, to be financed by Federal funds through the NRA. E. R. Palmer, town clerk.

SANTA CLARA, Santa Clara Co., Cal.—Until Sept. 5, 10 A. M., bids will be received by Santa Clara Valley Water Conservation District, Auzeais Bldg., San Jose, Leroy Anderson, Secretary, to construct Coyote Perocla-tion Dam near Coyote, Santa Clara county, involving:

- (1) 1200 cu. yds. excavation;
- (2) 1000 cu. yds. backfill, embank.;
- (3) 335 cu. yds. reinf. concrete;
- (4) 3060 sq. ft. steel sheet piles;
- (5) 5000 sq. ft. conc. block mattress;
- (6) 300 cu. yds. rip-rap;
- (7) 2 metal radial gates;
- (8) 23 moveable crest panels;
- (9) derricks, cables, etc.

Specifications obtainable from above office or from office of Fred H. Tibbetts, Engineer of the District, 1320 Alaska Commercial Bldg., San Francisco, on \$5 deposit, returnable. Certified check 5% required with bid. Estimated cost, \$30,000. California Industrial Recovery Act requirements.

UPLAND, San Bernardino Co., Cal.—R. C. Manley, city service manager has completed preliminary plans for a new reservoir to be constructed on E 15th St. near the present reservoir. The proposed reservoir will be of reinforced concrete construction, 400x200 ft., with a capacity of 5,000,000 gals. Application has been made for NRA funds, the city having applied for \$75,000 to cover the reservoir cost and water mains to be built on Mountain Ave. and other streets.

31—PIPE LINES & WELLS

PASADENA, Los Angeles Co., Cal.—Consolidated Steel Corp., 6500 E. Slauson Ave., Los Angeles, at \$654,894.35 tentative awarded contract by city directors Aug. 22 to construct an all-steel pipe line (Schedule No. 6), 18.5 mi. in length from Pine Canyon Dam in San Gabriel Canyon to the Sunset Reservoir in Pasadena. The line will consist of 18.5 mi. 36-in. I.D. gravity pipe line of 24.7 cu. ft. per second.

Directors will meet Thursday morning, Aug. 24, 9 A. M., to confirm award, which only awaits approval of the NRA.

SAN BERNARDINO, Calif.—Until 7:30 P. M., Sept. 5, bids will be received by board of water commission-

ers, 416 3rd St., San Bernardino, to construct two wells. One well will be drilled in Lytle Creek Park and the other at Mill and D Sts. They will be 16-in. diameter, and vary in depth from 200 to 1000 ft. The contractor is to furnish and install casing. Certified check, 10%.

SAN FRANCISCO—Until Aug. 31, 3 P. M., bids will be received by Public Utilities Commission, Felton Taylor, Secretary, Room 225, City Hall, to construct Early Intake Tall Race Pipe Line (H.H.W.S. Contract No. 145), involving:

- (1) 885 ft. furnish and lay 60-in. steel pipe 5/16-in. plate;
- (2) 230 ft. do ¾-in. plate;
- (3) 1000 sq. ft. mortar covering on steel pipe;
- (4) 13,000 sq. ft. fela wrapping on do;
- (5) 1 expansion joint;
- (6) 2 manholes;
- (7) 300 lbs. steel saddle nozzles;
- (8) 1000 lbs. steel frames and covers for valve and manhole boxes;
- (9) 200 lbs. steel bolts, nuts, washers
- (10) connection to power house (lump sum);
- (11) connection in tunnel (lump sum);
- (12) construct standpipe (lump sum);
- (13) 100 lin. ft. overflow pipe from standpipe;
- (14) 300 lbs. misc. steel work;
- (15) 300 lbs. install fittings furnished by city;
- (16) 10,000 lbs. install valves (do);
- (17) 1000 lbs. install misc. metal work (do);
- (18) 1300 cu. yds. common excav., east of Sta. 2+45;
- (19) 300 cu. yds. rock excav., do;
- (20) 200 cu. yds. common excav. west of St. 2+45;
- (21) 500 cu. yds. rock excav. do;
- (22) remove conc. bukhead in tunnel (lump sum);
- (23) 330 cu. yds. concrete, class A;
- (24) 25 cu. yds. conc. class C;
- (25) 35,000 lbs. reinf. steel;
- (26) 250 lin. ft. dowel holes in exist. concrete;
- (27) 20 bbls. extra cement;
- (28) 3 MFMB wood construction;
- (29) 2000 lbs. corr. sheet metal work;

Specifications obtainable from Room 609, S. F. Water Dept. Bldg., 425 Mason St., San Francisco, on deposit of \$20. Certified check 10% payable to City and County of San Francisco required with bid.

PHOENIX, Ariz.—The Bechtel-Kaiser Co., Ltd., and Henry J. Kaiser Co., 155 Sansome St., San Francisco, and Boulder City, Nev., awarded contract by the Western Gas Co. of El Paso, Texas, for the construction of a natural gas pipe line from Douglas to Phoenix, via Tucson. The total cost is approx. \$2,200,000. The proposed line will involve:

- 215 miles of 10½-in. steel pipe (15,000 tons);
- 1,698,000 lbs. pipe paint;
- 6,450 gallons primer;
- 127 gate valves.

The line will be electrically welded and tested at a pressure of 600 lbs. per square inch. The line will have a capacity of 15,000,000 cu. ft. per day. The Western Gas Co. will establish offices in Phoenix. H. G. Frost, vice-president. A loan granted by the Reconstruction Finance Corp. provides the funds for this project. The above contractors constructed the company's pipe line from El Paso to Douglas and Bisbee, Ariz., and Cananea, Sonora, Mexico.

32—SEWERS & SEWAGE DISPOSAL PLANTS

PETALUMA, Sonoma Co., Cal.—City of Petaluma preparing preliminary report on proposed sewage disposal system, involving pumping plant, filter-

ing plant, pipe lines, etc.; estimated cost, \$150,000. L. H. Nishkian, 525 Market St., and Prof. Chas. Hyde, University of California, Berkeley, project engineers. Project will be financed by federal funds through the NRA.

LOS ANGELES, Calif.—Until 10 A. M., Sept. 6, bids will be received by board of public works for the construction of sewers in the Bundy Dr. and Chalon Road Sewer Dist. The work involves:
2666.1 lin. ft. 8-in. cement pipe, inc.
105 8x6 wyes;
11 manholes "B";
1 junction chamber;
12 manhole frame and cover sets.

REDWOOD CITY, San Mateo Co., Cal.—County Purchasing Agent E. A. Werder purchases 700 feet of concrete sewer pipe from Redwood Material Co. All bids from selected list of bidders for vitrified pipe rejected.

SAN RAFAEL, Marin Co., Cal.—J. J. Ongaro, 50 Winship Ave., Ross, at \$935.55 awarded contract by San Rafael Board of Education, to construct storm drain on the grounds of the San Rafael High School, involving 63 cu. yds. concrete. Complete bids follow:
J. J. Ondero, Ross.....\$14.85
John Carcano, San Rafael..... 15.25
James Garrattl, San Rafael..... 16.95
Louis Lambretti, Mill Valley..... 17.85
F. J. Nain, San Anselmo..... 18.00
Harry E. Connor..... 23.00
Bottini Bros., San Rafael..... 25.82
G. M. Gest, Oakland..... 27.50

LOS ANGELES, Cal.—Ordinance of intention has been adopted by the city council to construct sewers in the 112th St. and Hoover St. Sewer District. The work will involve:
(1) main sewer complete (2010 ft. 8-in. pipe);
(2) 300 ft. 6-in. house connections;
(3) 79,400 sq. ft. Class A resurfacing;
(4) 94 sq. ft. Class D do.
Hearing has been set for Sept. 15.

LOS ANGELES, Cal.—Vernon Tool Co. submitted lowest regular bid to A. J. Holm, City Purchasing Agent, August 22 at \$4150 net, to furnish and install two automatic rake and cleaner units for 1-in. spaced bar screens at Hyperion north screening plant for Bureau of Engineering under Specifications No. 3193.

33—WATER WORKS

SELMA, Fresno Co., Calif.—City council considers municipal water system, estimated cost \$66,709.70, to be financed by federal funds through the NRA. Project would involve construction of a 300,000-gal. storage tank transmission line to four pumps; and drilling of a well. E. K. Hussey Engineering Corp., Syndicate Bldg., Oakland, project engineer.

LODI, San Joaquin Co., Cal.—City plans erection of 1,000,000-gal. water tank. W. L. Huber, project engineer, preparing plans. Funds will be obtained through the NRA.

SEBASTOPOL, Sonoma Co., Cal.—John Bean Mfg. Co., at \$1644 awarded contract by city council to furnish deep-well pump for city water works system. Other bids submitted were:
Layne & Bowler Corp.....\$1546.70
Sterling Pump Works..... 1570.00
Fairbanks Morse Co..... 1595.83
Byron-Jackson Co. 1746.00
Pelton Water Wheel Co..... 1755.00
Wilkinson & Co., N. Monterey Blvd., Gilroy, at \$2 per lin. ft. for drilling and \$2.07 for casing, awarded contract to drill water well equal to ca-

capacity of present well; which is 263 feet deep.

Other bid submitted by Fred H. Bante, Santa Rosa, at \$1.50 lin. ft. for drilling and \$1.45 for casing.

All bids rejected for cast iron pipe as location of well was changed, and the small quantity of pipe required will be purchased in the open market. The following bids were submitted:

California Corrugated Culvert Co., Berkeley, lump sum, \$335.07 for 8-in. 12-ga. steel pipe and fittings.

American Cast Iron Pipe Co., \$526.53 for 420 ft. 8-in. cast iron pipe and fittings.

Ipameco Pipe Corp., 400 to 600 ft. 8-in. cast iron pipe, \$.75 per ft. Fittings, \$.04 per lb. 33

SAN FRANCISCO—Until Aug. 30, 3 P. M., bids will be received by Public Utilities Commission, Felton Taylor, Secretary, to lay 6- and 8-in. cast iron pipe in Alemany Blvd., between San Jose and Naglee (Section 1 and between Ocean Ave. and Seneca St. (Section 2), involving:

Section 1

- (1) 5050 lin. ft. excav. and backfill trench;
- (2) 40 cu. yds. add. excav. and backfill;
- (3) 50 sq. ft. add. pavement, remove and replace;
- (4) 105 tons install pipe and fittings;
- (5) 1010 ft. minerlead joints;
- (6) 20 bolted joints;
- (7) 400 sq. ft. repave street openings with asphalt concrete;
- (8) 300 sq. ft. repave sidewalk openings.

Section 2

- (1) 4100 lin. ft. excav. and backfill trench;
- (2) 40 cu. yds. add. exvac. and backfill;
- (3) 50 sq. ft. add. pave., remove and replace;
- (4) 110 tons install pipe and fittings;
- (5) 900 ft. minerlead joints;
- (6) 20 joints, bolted;
- (7) 200 sq. ft. repave street openings with asphalt concrete;
- (8) 100 sq. ft. repave sidewalk openings.

Specifications obtainable from Room 605, S. F. Water Department, 425 Mason St. Certified check 10% required with bid. 33

LOMPOC, Santa Barbara Co., Calif.—The City of Lompoc has applied to the Federal Emergency Administration of Public Works for \$15,000 to finance improvements and replacements to the municipal water works system. The application was made through the Santa Barbara county committee, the members of which are: Harvey T. Nielson, mayor of Santa Barbara, and County Supervisors Ronald M. Adam and C. L. Preister. L. Deming Tilton is secretary of the committee. 33

GARDEN GROVE, Orange Co., Cal.—Johason Pump Co. awarded contract by county supervisors, Santa Ana, at \$1330 net (\$1400, less 5%) for furnishing a pump for Orange County Water District No. 3at plant on Huntington St., Garden Grove. The bids were taken through the office of the county purchasing agent. 33

OAKLAND, Cal.—United States Pipe & Foundry Co., Monadnock Bldg. San Francisco, at \$74,950 (lump sum bid) awarded contract by East Bay Municipal Utility District to furnish cast iron pipe. 33

LOS ANGELES, Cal.—Contracts for furnishing pumps under Bid No. 13, 550 awarded by Saul A. Joseph, Purchasing Agent, Metropolitan Water District, as follows: Item 1, 2 and 5

to Petroleum Equip. Co. at \$7296 and items 3 and 4 to Herberts Machinery Co., Ltd, at \$4296.32.

SAN FRANCISCO.—Until Aug. 19, 11:30 A. M., bids will be received by U. S. Forest Service, Ferry Bldg., to furnish corrugated metal pipe culverts to be in accordance with U. S. Dept. of Agriculture Circular No. 331 (with revisions of June 1, 1928), pipe and couplings f.o.b. plant Fresno, Porterville, Auburn, Blairsden, Oroville, Quincy, Hornbrook, Hillt, Truckee, Del Rosa, Shasta, Westwood, Los Angeles, Berkeley, Oakland and San Francisco. Sizes of pipe as follows:

- 12-in. diameter pipe;
 - 18-in. do;
 - 24-in. do;
 - 36-in. do;
- and band couplers for above pipe.

HEBER, Imperial Co., Cal.—Until 7:30 P. M., Sept. 1, bids will be received by the Board of Directors of the Heber Public Utility District, to construct, erect, install and complete waterworks improvements in accordance with the plans and specifications on file in the office of the District Engineer at the City Hall, El Centro, Calif., or with Clerk of Board of Directors, Southern Pacific Co. depot, Heber.

The approximate amount of work to be done is as follows:

- (1) 4584 cu. yds. earth embank. settling basin levees.
- (2) 400 lin. ft. service ditches lined with cem. plaster and 850 lin. ft. earthen do, incl. check gates and delivery boxes.
- (3) 4 basin connections, 140 lin. ft. 12-in. C. I. pipe, 4 12-in. orchard valves, 4 12-in. slide gates, 4 12-in. standpipes six feet in height and 4 wooden walkways 2 ft. 6 in. by 13 ft., incl. bolts, anchors, nails, etc.
- (4) One tank 14 ft. dia. x 14 ft. high capacity 16,000 gals., erected on wooden tower 65 ft. 4-in. high, incl. pipes, valves, connections, etc.
- (5) One pump house, 20 ft. x 24 ft., wood frame, 26 ga. corr. metal, concrete floor, motor and pump foundations, reservoirs, pump sump, etc.
- (6) Electric wiring incl. lights, switches, electrical fittings, etc.
- (7) Two pumping units, 300 G.P.M. each, total head 85 ft. One operated by gasoline motor, incl. valves, gauges couplings, pipe and fittings.
- (8) Furnish and install:
1460 lin. ft. of 6-in. C. I. pipe;
2340 lin. ft. of 4-in. C. I. pipe;
1540 lin. ft. of 3-in. C. I. pipe;
5455 lin. ft. of 2-in. C. I. pipe, incl. all valves and fittings.
- (9) House service connections, 3/4 in. and 1 in.

Certified check 10% required with bid. All proposals subject to the sale of \$15,000 District bonds and receipt of funds from the R. F. C. for this improvement.

Specifications obtainable from Philip W. Knights, District Engineer, El Centro, Calif., on deposit of \$5.00 returnable. R. D. Jones, Clerk.

35—TUNNELS

BEVERLY HILLS, Los Angeles Co., Cal.—W. R. Metz, city engineer, is preparing plans for a pedestrian tunnel to be built at the Wilshire Blvd.-Santa Monica Blvd. intersection. The cost is estimated at \$38,750. Application will be made for NRA funds.

29—STREETS AND HIGHWAYS

TULARE COUNTY, Cal.—Until September 5, 2 P. M., bids will be received by E. E. Wallace, District En-

gineer, State Highway Commission, State Highway Bldg., Fresno, to apply a bituminous seal coat to the shoulders on each side of the existing pavement over 46 miles between the southerly boundary and Kingsburg.

Specifications obtainable from above office. Certified check 10% required with bid.

KINGS COUNTY, Calif.—Until September 5, 2 P. M., bids will be received by E. E. Wallace, District Engineer, State Highway Commission, State Highway Bldg., Fresno, to apply retread surface treatment to existing pavement over 2.7 miles near Lemoore.

Specifications obtainable from above office. Certified check 10% required with bid.

HUMBOLDT COUNTY, Cal.—Hemstreet & Bell, 501 11th St., Marysville, at \$47,525 awarded contract by U. S. Bureau of Public Roads, San Francisco, for 13,748 miles of crushed gravel base course on California Federal Lands Project No. 1, Hoopa Valley Indian Reservation.

NYE COUNTY, Nev.—Dodge Const., Inc., Fallon, at \$67,744.03 awarded the contract by State Highway Commission to construct 20.21 miles of highway between 22 miles and 2 miles south of Beatty, Rt. 5, Sec. E2, F and G1.

VALLEJO, Solano Co., Cal.—Hearing will be held Sept. 15 on paving of Butte St. from Tennessee to Alabama. T. D. Kilkenny, city engineer.

KERN COUNTY, Cal.—Until Sept. 5, 2 P. M., bids will be received by E. E. Wallace, District Engineer, State Highway Commission, State Highway Bldg., Fresno, to apply retread surface treatment to two miles of existing pavement between 6.2 miles and 10.4 miles east of Bakersfield. Specifications obtainable from above office. Certified check 10% required with bid.

LOS ANGELES CO., Cal.—Until September 2, 2 P. M., bids will be received by State Highway Commission, San Bernardino District Office, for 6 miles earth shoulders treating with fuel oil.

LOS ANGELES CO., Cal.—Until Sept. 5, 2 P. M., bids will be received by State Highway Commission, Los Angeles district office, for 1.8 miles bituminous surface treatment of highway between Vasques Rock and 2 miles east and for 0.2 miles grading and surfacing with water bound macadam base and bituminous macadam surface.

SAN BERNARDINO CO., Cal.—Until Sept. 2, 2 P. M., bids will be received by State Highway Commission, San Bernardino District Office for 14.3 miles bituminous surface treatment between Needles and Colorado River bridge, near Topock.

LOS ANGELES COUNTY, Cal.—Until Sept. 13, 2 P. M., bids will be received by State Highway Commission Sacramento, to grade and pave with Portland cement concrete 3.8 miles between Orange Ave. and Barranca St., involving:

- (1) 200 sta. clear and grub right of way;
- (2) 24,000 cu. yds. rdwy. excav., unclass.;
- (3) 270,000 sta. yds. overhaul;
- (4) 3,000 cu. yds. imp. borrow;
- (5) 2360 cu. yds. struc. excav.;
- (6) 67,000 sq. yds. subgrade (pave.);
- (7) 14,200 cu. yds. Class A Port. cem. conc. (pave.);
- (8) 840 cu. yds. do. (struc.);

- (9) 300 cu. yds. do. (curbs);
- (10) 333,000 lbs. bar reinf. steel (pave. and struc.);
- (11) 17,000 lbs. misc. iron and steel (struc.);
- (12) 6 1/2 in. 18-in. corr. metal pipe;
- (13) 170 lin. ft. 24-in. do;
- (14) 78 lin. ft. 30-in. do;
- (15) 286 lin. ft. 30-in. std. reinf. conc. pipe;
- (16) 1150 cu. yds. salvage macadam;
- (17) 800 tons broken stone bit. macadam surf.;
- (18) 70 tons grade "E" asph. bit. macadam surf.;
- (19) 1550 bbls. heavy fuel oil (shoulders);
- (20) 1 bridge, remove and dispose of;
- (21) 800 M. gals. water;
- (22) 24 culvert markers;
- (23) 200 sta. finish roadway;
- (24) 42 monuments complete in place.

SANTA CRUZ COUNTY, Cal.—Until Sept. 13, 2 P. M., bids will be received by State Highway Commission, Sacramento, to grade about 0.8 mile between one mile north of Inspiration Point and Inspiration Point, involving:

- (1) 250,500 cu. yds. rdwy. excav., unclass.;
- (2) 730,000 sta. yds. overhaul;
- (3) 1500 M. gals. water;
- (4) 1520 cu. yds. struc. excav.;
- (5) 10 cu. yds. Class A Port. cem. conc. (struc.);
- (6) 650 lbs. bar reinf. steel (struc.);
- (7) 590 lin. ft. 8-in. corr. metal pipe
- (8) 1278 lin. ft. 18-in. do;
- (9) 280 lin. ft. 24-in. do;
- (10) 1290 lin. ft. 8-in. perf. metal pipe (underdrain);
- (11) 2 miles new property fence;
- (12) 6 gates complete in place;
- (13) 1200 tons crushed run base;
- (14) 5 tons emulsi. asph. road oil;
- (15) 250 natural rock asphalt;
- (16) 1000 lin. ft. lam. timber guard rail;
- (17) 60 cu. yds. Port. cem. conc. remove from existing pavement;
- (18) 41 sta. finish roadway.

ARIZONA STATE — Bids will be asked shortly by State Highway Commission, Phoenix, for 14.7 mi. oiling on the Flagstaff-Williams Highway, Coconino Co., N.R.H. 24-A and N.R.M. 24-A, involving:

- (1) 14,000 cu. yds. stripping pits;
- (2) 240,747 sq. yds. reshape road surf.
- (3) 347 M gals. sprinkling;
- (4) 10,085 cu. yds. agg. base course;
- (5) 46,326 cu. yd. mi. agg. base course haul;
- (6) 6104 cu. yds. shoulder material;
- (7) 29,012 cu. yd. mi. shoulder matl. haul;
- (8) 27,088 tons plant mix;
- (9) 130,024 ton ml. plant mix haul;
- (10) 1571 tons cut-back asphalt;
- (11) 14,675 mi. place plant mix;
- (12) 1261 cu. yds. screenings;
- (13) 429 sq. yds. place intersections.

IMPERIAL CO. Cal.—Until Sept. 14, 2 P. M., bids will be received by State Highway Commission, Sacramento, to surface with bituminous treated crushed gravel or stone 10.1 mi. between El Centro and Calexico, involving:

- (1) 11,980 tons bit. tr. cru. gravel or stone surf.;
- (2) 55 tons emul. asph.

MENDOCINO CO. Cal.—Until Sept. 15, 2 P. M., bids will be received by State Highway Commission, Sacramento, to apply bituminous surface treatment over 9.5 mi. between Ukiah and Hopland, involving:

- (1) 9200 tons coarse rock and screenings;
- (2) 250 tons emul. asph. road oil Type A;
- (3) 300 tons do, Type B;
- (4) 3000 cu. yds. screened gravel (shoulders);
- (5) 600 bbls. fuel oil (shoulders);

COCONINO CO., Ariz.—All bids rejected by U. S. Bureau of Public Roads and new bids will be received until Sept. 7, 10 A. M., by C. H. Sweetser, District Engineer, 802 Title & Trust Bldg., Phoenix, for grading 9.688 mi. Section G, Rt. 7, the Oak Creek National Forest Highway, Coconino National Forest, involving:

- (1) 50 acres clearing;
- (2) 88,000 cu. yds. unclass. excav.;
- (3) 2027 cu. yds: unclass. excav., struc.;
- (4) 26,000 cu. yds. unclass. excav., borrow;
- (5) 50,000 sta. yds. overhaul;
- (6) 9,677 ml. finish earth graded road;
- (7) 18,700 cu. yds. ml. haul borrow;
- (8) 1063 cu. yds. concrete;
- (9) 82,500 lbs. reinf. steel;
- (10) 2082 lin. ft. corr. metal pipe;
- (11) 25 cu. yds. hand laid riprap;
- (12) 72 right-of-way monuments;
- (13) 18,200 lin. ft. fence;
- (14) 4 cattle guards;
- (15) 29,500 lin. ft. protection ditch;
- (16) 6424 lin. ft. wood guard rail;
- (17) 2500 M. gals. watering.

Specifications obtainable from above office on deposit of \$10, certified check payable to Regional Fiscal Agent, U. S. Forest Service.

Skousen Bros., Albuquerque, N. M., submitted low bid Aug. 10 at \$159,878.10.

Complete bids published in issue of August 16.

MERCED CO. Cal.—Until Sept. 15, 2 P. M., bids will be received by State Highway Commission, Sacramento, to apply bituminous surface treatment over 6.2 mi. between the north boundary and Livingston, involving:

- (1) 5700 tons screenings;
- (2) 360 tons emul. asph. road oil.

TULARE CO., Cal.—Until Sept. 15, 2 P. M., bids will be received by State Highway Commission, Sacramento, to grade and pave with asphaltic concrete 5 mi. between the western boundary and 2 mi. south of Plaza Garage, involving:

- (1) 650 cu. yds. rdwy. excav., unclass.;
- (2) 29,600 cu. yds. imp. borrow;
- (3) 1550 cu. yds. struc. excav.;
- (4) 9800 sq. yds. subgrade for pave;
- (5) 17,800 tons asph. conc.;
- (6) 155 cu. yds. class A Port. cem. conc. (struc.);
- (7) 8550 lbs. bar reinf. steel (struc.);
- (8) 174 lin. ft. 18-in. corr. metal pipe
- (9) 76 lin. ft. 36-in. do;
- (10) 208 lin. ft. 42-in. do;
- (11) 60 lin. ft. 54-in. do;
- (12) 9 conc. joints (pipe culverts);
- (13) 5450 tons cru. run base;
- (14) 49,750 sq. yds. a sph. paint binder
- (15) 360 cu. yds. conc. to be removed from exist. pave and struc.;
- (16) 2100 M gal. water;
- (17) 4930 bbl. fuel oil;
- (18) 0.24 mi. move and reset property fence;
- (19) 24 culvert markers;
- (20) 32 timber guide posts;
- (21) 267 sta. finish roadway;
- (22) 24 monuments complete in place.

RIVERSIDE COUNTY, Calif.—Until Sept. 15, 2 P. M., bids will be received by State Highway Commission, Sacramento, to treat shoulders with fuel oil over 41.6 miles between Corona and the south boundary, involving:

- (1) 21,400 bbls. heavy fuel oil;
- (2) 41.6 miles finish roadway.

RIVERSIDE COUNTY, Cal.—Until Sept. 15, 2 P. M., bids will be received by State Highway Commission, Sacramento, to treat shoulders with fuel oil over 25.1 miles between Riverside and Elsinore, involving:

- (1) 12,900 bbls. heavy fuel oil;
- (2) 25.1 miles finish roadway.

RIVERSIDE AND IMPERIAL COS., Cal.—Until Sept. 15, 2 P. M., bids will be received by State Highway Commission, Sacramento, to treat shoulders with fuel oil over 21.7 miles between Avenue 62 and Riverside-Imperial county line, and between three miles and ten miles south of the Riverside-Imperial county line, involving:

- (1) 11,000 bbls. heavy fuel oil;
- (2) 21.7 miles finish roadway.

SAN BERNARDINO COUNTY, Cal.—Until Sept. 15, 2 P. M., bids will be received by State Highway Commission, Sacramento, to grade and pave with Portland cement concrete, 0.2 mile at Mt. Vernon Ave. crossing in San Bernardino, involving:

- (1) 700 cu. yds. rdwy. excav., unclass.;
- (2) 9800 cu. yds. imp. borrow;
- (3) 390 cu. yds. struc. excav.;
- (4) 5500 sq. yds. subgrade for pave.;
- (5) 1250 cu. yds. Class A Port. cem. conc. (pave.);
- (6) 2 cu. yds. do (struc.);
- (7) 96 cu. yds. do (curbs and gutters)
- (8) 70 cu. yds. Class A Port. cem. conc. (sidewalks);
- (9) 30,500 lbs. bar reinf. steel (pave and struc.);
- (10) 24 lin. ft. 24-in. corr. metal pipe
- (11) 204 lin. ft. 48-in. do;
- (12) 455 cu. yds. conc. to be removed from existing pave. and struc.;
- (13) 10 sta. finish rdwy.

State will furnish corrugated metal pipe.

LOS ANGELES COUNTY, Cal.—Until Sept. 14, 2 P. M., bids will be received by State Highway Commission, Sacramento, to grade and pave with Portland cement concrete and asphalt concrete 5.1 miles between Santa Clara River and Castaic School, involving:

- (1) 272 sta. clear and grub right of way;
- (2) 29,000 cu. yds. rdwy. excav., unclass.;
- (3) 230,000 sta. yds. overhaul;
- (4) 15,500 cu. yds. imp. borrow;
- (5) 160 cu. yds. struc. excav.;
- (6) 41,700 sq. yds. subgrade for pave.
- (7) 3,100 cu. yds. Class "A" Portland cem. conc. (pave.);
- (8) 8 cu. yds. do (struc.);
- (9) 69,000 lbs. bar reinf. steel (pave. and struc.);
- (10) 21,100 tons asph. conc.;
- (11) 36,250 sq. yds. asph. paint binder;
- (12) 134 lin. ft. 18-in. corr. metal pipe
- (13) 72 lin. ft. 24-in. do;
- (14) 10 lin. ft. 30-in. do;
- (15) 2,000 M. gals. water;
- (16) 7 culvert markers;
- (17) 2,300 bbls. heavy fuel oil;
- (18) 1.7 miles move and reset property fence;
- (19) 272 sta. finish roadway;
- (20) 40 monuments complete in place.

INYO COUNTY, Cal.—Until Sept. 15 2 P. M., bids will be received by State Highway Commission, Sacramento, to grade, surface with selected material and a bituminous treatment applied over 3.5 miles between Bishop and Owens River Canal, involving:

- (1) 650 cu. yds. rdwy. excav., unclass.
- (2) 8200 cu. yds. imp. borrow;
- (3) 45 cu. yds. struc. excav.;
- (4) 525 M gals. water;
- (5) 8 cu. yds. Class A Port. cement concrete (struc.);
- (6) 200 lbs. bar reinf. steel (struc.);
- (7) 6,500 lbs. struc. steel;
- (8) 1700 cu. yds. binder for salvaged base;
- (9) 3.65 miles scarify, salvage and re-lay base;
- (10) 5000 cu. yds. sel. surf. material;
- (11) 360 tons cut-back asph. road oil;
- (12) 3.64 miles mix bituminous binder and surface material;

- (13) 900 bbls. light fuel oil;
- (14) 26 lin. ft. 18-in. corr. metal pipe;
- (15) 1.75 MFBM redwood timber dense select all-heart struc. grade;
- (16) 193 sta. finish roadway.

State will furnish corr. metal pipe.

LOS ANGELES COUNTY, Cal.—Until Sept. 14, 2 P. M., bids will be received by State Highway Commission, Sacramento, to grade and pave with asphalt concrete 0.6 mile between Foothill Blvd. and Alosta Ave., involving:

- (1) clear and grub right of way;
- (2) 3,500 cu. yds. rdwy. excav., unclass.;
- (3) 12,000 cu. yds. imp. borrow;
- (4) 600 cu. yds. struc. excav.;
- (5) 14,350 sq. yds. subgrade for pave.
- (6) 800 sq. yds. asph. paint binder;
- (7) 6,200 tons asph. concrete;
- (8) 232 cu. yds. salvage macadam;
- (9) 160 tons broken stone (bit. mac.)
- (10) 14 tons grade "E" asph. (bit. macadam);
- (11) 500 bbls. fuel oil;
- (12) 220 cu. yds. Class "A" Port. cem. conc. (struc.);
- (13) 215 cu. yds. do (curbs);
- (14) 20,000 lbs. bar reinf. steel (struc.)
- (15) 2,500 lbs. misc. iron and steel (struc.);
- (16) 16 lin. ft. 8-in. corr. metal pipe;
- (17) 510 lin. ft. 18-in. corr. metal pipe
- (18) 100 lin. ft. solid timber guard rail
- (19) 32 sta. finish roadway.

GLENN, Placer and Colusa Counties, Cal.—Until Sept. 5, 2:30 P. M., bids will be received by C. H. Whitmore, District Engineer, State Highway Commission, Public Works Bldg., Sacramento, to apply 14.2 miles bituminous surface treatment. Specifications obtainable from above office. Certified check 10% required with bid.

See call for bids under official proposal section in this issue.

ARIZONA STATE.—Bids will be asked shortly by State Highway Commission, Phoenix, for 3,302 miles of grading, draining and aggregate base course on the Holbrook-Lupton Highway, Navajo county, N.R.H. 83-G, involving:

- (1) 9837 cu. yds. rdwy. excav., unclass.;
- (2) 849 cu. yds. drainage;
- (3) 110 cu. yds. slides and overbreakage;
- (4) 242 cu. yds. struc. excav., unclass.
- (5) 17,232 cu. yds. borrow, unclass.;
- (6) 8,044 sta. yds. earthwork overhaul;
- (7) 3000 cu. yds. stripping pits;
- (8) 12,206 cu. yds. agg. base course;
- (9) 10,827 cu. yd. mile do, haul;
- (10) 70 cu. yds. Class A concrete;
- (11) 4920 lbs. reinf. steel;
- (12) 74 lin. ft. 24-in. corr. metal pipe;
- (13) 140 lin. ft. 30-in. do;
- (14) 114 lin. ft. 36-in. do;
- (15) 34,875 lin. ft. std. line fence;
- (16) 26 right of way markers.

MONTEREY COUNTY, Cal.—Until Sept. 13, 2 P. M., bids will be received by State Highway Commission, Sacramento, to apply bituminous surface treatment over 7.4 miles at various locations between San Ardo and King City, involving:

- (1) 6500 tons screenings;
- (2) 215 tons emulsified asph. road oil;
- (3) 520 bbls. heavy fuel oil.

29

IMPERIAL COUNTY, Calif.—Until Sept. 13, 2 P. M., bids will be received by State Highway Commission, Sacramento, to pave with asphalt concrete 23.7 miles between East Highline Canal and Sand Hills, involving:

- (1) 278,000 sq. yds. asph. paint binder;
- (2) 50,000 tons asph. concrete;
- (3) 400 timber guide posts;

- (4) 48.4 MFBM Douglas fir timber;
- (5) place timber mats;
- (6) 1109 sta. finish roadway;
- (7) 316 monuments complete in place.

MONO COUNTY, Calif.—Until Sept. 13, 2 P. M., bids will be received by State Highway Commission, Sacramento, to grade, surface with selected material, and apply a bituminous treatment over 3.7 ml. between Sherwin Hill Summit and Whiskey Canyon, involving:

- (1) 63,200 cu. yds. rdwy. excav., unclass.;
- (2) 65,000 sta. yds. overhaul;
- (3) 10 cu. yds. struc. excav.;
- (4) 4400 cu. yds. sel. surf. material;
- (5) 3.67 ml. mix bit. binder and surf. material;
- (6) 110 bbls. light fuel oil;
- (7) 290 tons cut-back asph. road oil;
- (8) 470 lin. ft., H type surf. culvert;
- (9) 75 remove and reset guide posts;
- (10) 700 M. gals. water;
- (11) 8.35 MFBM redwood timber select all-heart struc. grade;
- (12) 194 sta. finish roadway.

SANTA BARBARA CO., Cal.—Until Sept. 13, 2 P. M., bids will be received by State Highway Commission, Sacramento, to grade and pave with Portland cement concrete 0.8 mile Ellwood overhead approaches, involving:

- (1) 86,800 cu. yds. rdwy. excav., unclass.;
- (2) 760,000 sta. yds. overhaul;
- (3) 210 tons crushed run base;
- (4) 225 cu. yds. struc. excav.;
- (5) 9725 sq. yds. subgrade for pave.;
- (6) 2085 cu. yds. Class A Port. cem. conc. (pave.);
- (7) 64 cu. yds. do (struc.);
- (8) 57,500 lbs. bar reinf. steel (pave. and struc.);
- (9) 364 lin. ft. 8-in. corr. metal pipe
- (10) 108 lin. ft. 18-in. do;
- (11) 78 lin. ft. corr. metal pipe, clean and relay;
- (12) 670 cu. yds. conc. remove from exist. pave. and struc.;
- (13) 11 sq. yds. paved spillway inlet apron;
- (14) 4000 M. gals. water;
- (15) 950 bbls. fuel oil;
- (16) 850 lin. ft. move and reset exist. guard rail;
- (17) 1 exist. overhead structure to be removed;
- (18) 8 culvert markers;
- (19) 0.9 mile new property fence;
- (20) 0.3 mile exist. fence to be removed and reset;
- (21) 6 fence gates;
- (22) 46 sta. finish roadway;
- (23) 28 monuments complete in place.

29

ELKO CO., Nev.—Until Sept. 6, 3:15 P. M., bids will be received by S. C. Durkee, State Highway Engineer, Carson City, to construct cement concrete pavement within the City of Elko, between west city limits and 13th St., Rt. 1, Sec. A-3, 1.21 mi., involving:

- (1) 4920 cu. yds. rdwy. excav.;
- (2) 1240 sta. yds. overhaul;
- (3) 3773 cu. yds. select borrow;
- (4) 460 cu. yds. excav., struc.;
- (5) 14,200 sq. yds. subgrade for pavement;
- (6) 2950 cu. yds. cement conc. surface
- (7) 21 cu. yds. class A concrete;
- (8) 140 cu. yds. class do;
- (9) 56,400 lbs. reinf. steel;
- (10) 114 lin. ft. 18-in. corr. metal pipe;
- (11) 74 lin. ft. remove pipe culverts;
- (12) 74 lin. ft. relay culvert pipe;
- (13) 2 move pipe culvert headwalls;
- (14) 202 lin. ft. remove fence;
- (15) 202 lin. ft. reconstruct fence;
- (16) 1.21 ml. finish roadway.

Specifications obtainable from above office on deposit of \$15, \$10 returnable. Certified check 5% required with bid.

UKIAH, Mendocino Co., Calif.—As previously reported, until August 26, bids will be received by Mendocino county supervisors for highway construction as follows:

Surface 3.3 miles road between Noyo and Willitts, involving 8000 cu. yds. crushed or broken rock surface.

Re-align 600 ft. Hardy Creek-Hockport road, involving 5000 cu. yds. unclassified excavation.

Specifications obtainable from above office. H. M. Burke, county clerk; E. H. Smith, county surveyor.

29

LYON COUNTY, Nev.—Until Sept. 6, 2:30 P. M., bids will be received by S. C. Durkee, State Highway Engineer, Carson City, for oiling between 12 miles and two miles west of Labontan, Route 2A, Sec. C2, 9.99 miles, involving:

- (1) 226,122 gals. asph. road material, type SC-2;
- (2) 16,540 gals. do, type MC-2;
- (3) 10.14 miles road mix;
- (4) 9.99 miles finish roadway.

Specifications obtainable from the above office on deposit of \$5, \$2.50 of which \$2.50 is returnable. Certified check 5% required with bid.

29

LYON COUNTY, Nev.—Until Sept. 6, 2:15 P. M., bids will be received by S. C. Durkee, State Highway Engineer, Carson City, to oil 12.94 miles between two miles east of Mound House and nine miles east of Dayton, Route 2A, Sec. A2 and B, involving:

- (1) 800 cu. yds. structure excavation;
- (2) 132 lin. ft. 1-in. water pipe;
- (3) 1,073 lin. ft. 1½-in. do;
- (4) 42 lin. ft. 2½-in. do;
- (5) 1,727 lin. ft. 5-in. do;
- (6) 276,609 gals. asph. road material, type SC-2;
- (7) 20,339 gals. do, type MC-2;
- (8) 12.94 miles road mix;
- (9) 12.94 miles finish roadway.

Specifications obtainable from the above on deposit of \$15, of which \$10 is returnable. Certified check 5%.

MINERAL CO., Nev.—Until Sept. 6, 2:15 P. M., bids will be received by S. C. Durkee, State Highway Engineer, Carson City, to oil 22.22 mi. bet. Dutch Creek and Schurz, involving:

- (1) 8865 cu. yds. rdwy., excav., channel;
- (2) 27,000 sta. yds. overhaul;
- (3) 110 cu. yds. excav., struc.;
- (4) 107 cu. yds. class A concrete;
- (5) 11,000 lbs. reinf. steel;
- (6) 2 remove culvert headwalls;
- (7) 46 lin. ft. remove culvert pipe;
- (8) 150 cu. yds. hand-laid riprap;
- (9) 439,970 gals. asph. rd. matl., type SC-3;
- (10) 32,591 gals. do, type MC-2;
- (11) 22.22 mi. roadmix;
- (12) 22.22 mi. finish roadway.

Specifications obtainable from above office on deposit of \$5, \$2.50 returnable. Certified check 5% required with bid.

SAN FRANCISCO—Eaton & Smith, 715 Ocean Ave., awarded contract by Joint Highway District No. 10 to construct Junipero Serra Blvd, Extension through Colma between School St. and the Edgeman Road, ⅔-mi. to be graded and paved with macadam and asphalt wearing surface, and involving construction of a reinforced concrete bridge over the Boulevard at Washington St.

ST. HELENA, Napa Co., Calif.—Lone bid submitted by Harold Smith, 1427 Kearny St., St. Helena, at \$2520 to pave one mile of Spring St. bet. Oak Ave. and the Cemetery, rejected by own council, and project will be done by day labor.

SOLANO AND NAPA COS., Cal.—Until Sept. 14, 2 P. M., bids will be received by State Highway Commission, Sacramento, to grade 10.3 mi. between Carquinez Bridge and Cordelia, involving:

- (1) 223 remove and dispose of trees;
- (2) 1,166,000 cu. yds. rdwy. excav. unclass.;
- (3) 14,000,000 sta. yds. overhaul;
- (4) 10,800 cu. yds. struc. excav.;
- (5) 650 cu. yds. Class "A" Port. cem. conc. (struct.);
- (6) 35,500 lbs. bar reinf. steel (struc);
- (7) 702 lin. ft. 8-in. corr. metal pipe; 16 ga.;
- (8) 3710 lin. ft. 18-in. do;
- (9) 1710 lin. ft. 24-in. do, 14 g.;
- (10) 846 lin. ft. 30-in. do;
- (11) 178 lin. ft. 36-in. do, 12 ga.;
- (12) 246 lin. ft. 42-in. do, 10 ga.;
- (13) 394 lin. ft. 48-in. do, 9 ga.;
- (14) 168 lin. ft. 60-in. do, 10 ga.;
- (15) 152 lin. ft. 66-in. do;
- (16) 118 lin. ft. 66-in. do, 8 ga.;
- (17) 110 lin. ft. 84-in. do;
- (18) 232 lin. ft. 96-in. do;
- (19) 168 lin. ft. corr. metal pipe, clean and relay;
- (20) 413 lin. ft. salvage exist. culverts
- (21) 18,600 M gal. water;
- (22) 1,950 tons untreated crush. gravel or stone surf.;
- (23) 0.4 mile move and reset fences;
- (24) 20.5 miles new property fence;
- (25) 80 fence gates;
- (26) 1,350 lin. ft. solid timber guard rail;
- (27) 544 sta. finish roadway;
- (28) 170 monuments complete in place
- (29) 120 MFBM redwood timber, dense select all-heart struc. grade;
- (30) 128 MFBM redwood timber, select all-heart struc. grade.

LOS ANGELES, Calif.—Until 10 A. M., Sept. 6, bids will be received by board of public works to improve the Coldwater Canyon Drive bet. Mulholland Highway and Eden Court (center line 3143 ft.) Cash contract, involving:

- (1) grading;
- (2) 93,573 sq. ft. 7-in. compr. concrete pavement;
- (3) 1760 sq. ft. 6-in. asph. conc. pave.;
- (4) 114 ft. heavy unplas. curb;
- (5) 6192 ft. reinf. integral curb;
- (6) storm drain;
- (7) reset one manhole.

LOS ANGELES, Cal.—L. A. Paving Co., 3200 E. Vernon Ave., awarded contract by county supervisors August 21 at \$20,874.88 for paving First Street in Norwalk, from its intersection with Pioneer Blvd. and Rosecrans Ave. at Five Points, northerly to Imperial Highway, 6300 lin. ft. or 1.21 miles; Cash Contract No. 444.

LOS ANGELES, Cal.—Mundo Engr. Co., 1026 N. McCadden Place, submitted low bid to county supervisors, August 21 at \$23,342.64, for paving Slauson Ave. in Maywood, from Mayflower to Riverside Drive, 2615 lin. ft. or 0.50 mile, under cash contract.

SHASTA CO., Cal.—Until Sept. 13, 2 P. M., bids will be received by State Highway Commission, Sacramento, to grade and surface with bituminous treated crushed gravel or stone about 9.1 mi. between Boulder Creek and 1.5 mi. east of Bella Vista, involving:

- (1) 60 acres clear and grub right-of-way;
- (2) 275,500 cu. yds. rdwy. excav., unclass.;
- (3) 839,000 sta. yds. overhaul;
- (4) 4323 cu. yds. struc. excav.;
- (5) 31,100 tons cru. rub base;
- (6) 17,000 tons cru. gravel or stone (bit. tr. surf.);
- (7) 925 tons cut-back asph.;
- (8) 395 cu. yds. class A Port. cem. conc. (struc.);

- (9) 274 cu. yds. class B do (struc);
- (10) 39,000 lbs. bar reinf. steel (struc);
- (11) 5000 lbs. struc. metal;
- (12) 57 drive timber piles (incl. test piles);
- (13) 70 MFBM redwood timber dense select all-heart struc. grade;
- (14) 66 MFBM redwood timber select all-heart struc. grade;
- (15) 2000 lin. ft. furnish redwood piles incl. test piles;
- (16) 2388 lin. ft. 18-in. corr. metal pipe;
- (17) 692 lin. ft. 24-in. do;
- (18) 288 lin. ft. 36-in. do;
- (19) 296 lin. ft. 48-in. do;
- (20) 695 bbls. light fuel oil;
- (21) 7070 M gals. water;
- (22) 136 culvert markers;
- (23) 476 sta. finish roadway;
- (24) 89 monuments complete in place.

MARIPOSA COUNTY, Calif.—Until Sept. 13, 2 P. M., bids will be received by State Highway Commission, Sacramento, to surface with crushed gravel or stone and bituminous seal coat 15.1 miles between Orange Hill School and Mariposa, involving:

- (1) 35,000 cu. yds. rdwy. borrow excavation, unclass.;
- (2) 350 cu. yds. struc. excav.;
- (3) 176,700 sq. yds. subgrade surf.;
- (4) 87,009 tons crush. gravel or stone surface;
- (5) 1600 bbls. light fuel oil;
- (6) 280 tons asph. road oil;
- (7) 3200 tons rock screenings;
- (8) 6 cu. yds. Class A Port. cement concrete (struc.);
- (9) 250 lbs. bar reinf. steel (struc.);
- (10) 756 lin. ft. 8-in. corr. metal pipe
- (11) 30 lin. ft. 12-in. do;
- (12) 120 lin. ft. 18-in. do;
- (13) 700 lin. ft. 8-in. perf. metal pipe underdrain;
- (14) 8000 lin. ft. lam. timber guard rail;
- (15) 700 timber guide posts;
- (16) 50 culv. markers;
- (17) 3550 M. gals. water;
- (18) 796 sta. finish roadway.

RIVERSIDE CO., Cal.—Until Sept. 14, 2 P. M., bids will be received by State Highway Commission, Sacramento, to grade and surface with oil treated crushed gravel or stone 9.2 mi. between Black Butte and Elythe, involving:

- (1) 9000 cu. yds. rdwy. ex. unclass.;
- (2) 15,000 cu. yds. imp. borrow;
- (3) 19,800 tons cru. gravel or stone surf.;
- (4) 700 cu. yds. screenings (seal coat)
- (5) 5410 bbls. fuel oil;
- (6) 9.15 mil. paint traffic stripe;
- (7) 484 sta. finish roadway.

State will furnish lacquer for painting traffic stripe.

IMPERIAL COUNTY, Calif.—Until Sept. 14, 2 P. M., bids will be received by State Highway Commission, Sacramento, to construct oil treated crushed gravel or stone borders, 25.6 miles, between the northerly boundary and Trifolium Canal, involving:

- (1) 31,250 tons crushed gravel or stone (borders);
- (2) 7,810 lbs. heavy fuel oil (borders);
- (3) 25.6 miles finish roadway.

ORANGE & LOS ANGELES COS., Cal.—Until Sept. 14, 2 P. M., bids will be received by State Highway Commission, Sacramento, to oil treat 31.0 miles of existing roadbed shoulders between Doheny Park and Galivan, 7.8 miles; between Fullerton and Los Angeles-Orange county line, 4.7 mi.; between Arroyo Ave. and Pomona, 6.1 miles; between the Coast Blvd. and Newport, 1.3 miles; between Newport and Laguna, 7.2 miles, and between Laguna and Dana Point, 3.9 miles, involving: 12,700 lbs. heavy fuel oil.

PLACER & NEVADA COS., Cal.—Until Sept. 15, 2 P. M., bids will be received by State Highway Commission, Sacramento, to grade and surface with crusher run base and bituminous treated crushed gravel or stone 4.2 miles between Drum Canal and Rt. 37 near Yuba Pass, involving:

- (1) 35 acres clear and grub right of way;
- (2) 170,000 cu. yds. rdwy. excav., unclass.;
- (3) 612,000 sta. yds. overhaul;
- (4) 5400 cu. yds. struc. excav.;
- (5) 8100 cu. yds. sel. material;
- (6) 15,400 tons crusher run base;
- (7) 8,560 tons crushed gravel or stone (bit. treated surface);
- (8) 400 tons cut-back asphalt;
- (9) 400 bbls. light fuel oil (prime coat);
- (10) 325 cu. yds. rock backfill under-drain;
- (11) 400 cu. yds. Class A Port. cem. conc. (struc.);
- (12) 33,000 lbs. bar reinf. steel (struc.);
- (13) 132 lin. ft. 12-in. corru. metal pipe
- (14) 2442 lin. ft. 18-in. do;
- (15) 480 lin. ft. 24-in. do;
- (16) 176 lin. ft. 30-in. do;
- (17) 212 lin. ft. 36-in. do;
- (18) 65 lin. ft. 120-in. multiplate metal pipe;
- (19) 1694 lin. ft. 8-in. perf. metal pipe;
- (20) 8 lin. ft. 3-in. wrought iron pipe;
- (21) 140 cu. yds. rubble masonry;
- (22) 45 lin. ft. rubble masonry parapet
- (23) 3600 M gals. water;
- (24) 6.5 miles new property fence;
- (25) 85 cu. yds. conc. and rubble masonry in exist. struc. to be removed;
- (26) 9 gates;
- (27) 90 lin. ft. pipe handrail;
- (28) 222 sta. finish roadway;
- (29) 92 monuments complete in place.

NAPA CO., Cal.—Until Sept. 14, 2 P. M., bids will be received by State Highway Commission, Sacramento, to surface with bituminous treated crushed gravel or stone 8.2 ml. bet. easterly boundary and Napa Wye; and between Napa Wye and southerly boundary, involving:

- (1) 108,600 sq. yds. asph. paint binder;
- (2) 8800 tons cru. gravel or stone (bit. tr. surf.);
- (3) 550 tons cut-back asph. (surf. and seal coat);
- (4) 1100 tons screenings (seal coat);
- (5) 2300 tons cru. run base (shoulders)

CONTRA COSTA COUNTY, Calif.—Until Sept. 14, 2 P. M., bids will be received by State Highway Commission, Sacramento, to grade and pave with asphalt concrete 0.2 mile in Valona, involving:

- (1) 1 lot readjust private improvements, Group ((A));
- (2) 1 lot do, Group "B";
- (3) 1 lot do, Group "C";
- (4) 24,500 cu. yds. rdwy. excav., unclass.;
- (5) 357,000 sta. yds. overhaul;
- (6) 50 cu. yds. struc. excav.;
- (7) 760 cu. yds. crushed conc. (base and shoulders);
- (8) 1,340 sq. yds. exist. bit. macadam, remove;
- (9) 560 cu. yds. conc. remove from existing pave. and struc.;
- (10) 740 tons asph. concrete;
- (11) 200 sq. yds. subgrade for pave. (2nd Ave.);
- (12) 35 cu. yds. Class "A" Port. cem. conc. (pave.);
- (13) 15 cu. yds. Class "A" do (curbs, gutters and sidewalks);
- (14) 40 cu. yds. Class "A" do (struc.);
- (15) 4,500 lbs. bar reinf. steel (struc.);
- (16) 5 tons cut-back asphalt;
- (17) 13 tons screenings;
- (18) 1 foot bridge, remove;
- (19) 80 lin. ft. 8-in. corru. metal pipe;
- (20) 3 catchbasins, complete in place;
- (21) 920 lin. ft. solid timber guard rail

(22) 8 stations finish roadway;

(23) 4 monuments complete in place.

PLACER CO., Cal.—Until Sept. 14, 2 P. M., bids will be received by State Highway Commission, Sacramento, to grade and pave with Portland cement concrete and asphalt concrete 5.2 ml. between Loomis and Newcastle, involving:

- (1) 50 acres clear and grub right-of-way;
- (2) 148,000 cu. yds. rdwy. excav., unclass.;
- (3) 744,000 sta. yds. overhaul;
- (4) 5800 cu. yds. struc. excav.;
- (5) 59,000 sq. yds. subgrade for pave.;
- (6) 3850 cu. yds. class A Port. cem. conc. (pave.);
- (7) 145 cu. yds. do (struc.);
- (8) 95,000 lbs. bar. reinf. steel (pave. and struc.);
- (9) 600 pavement tie bars;
- (10) 17,000 tons asph. conc.;
- (11) 2450 tons cur. gravel or stone (bit. tr. surf.);
- (12) 125 tons cut-back asph.;
- (13) 6500 tons cru. gravel or stone (borders, road appr. and detours)
- (14) 30 tons asph. road oil (bit surf. tr.);
- (15) 310 bbls. heavy fuel oil (detours)
- (16) 0.9 mi. road mix. detour surf.;
- (17) 310 bbls. light fuel oil (borders and dust oil);
- (18) 650 tons screenings;
- (19) 2600 M gals. water;
- (20) 624 lin. ft. 8-in. pref. metal pipe underdrains;
- (21) 1278 lin. ft. 12-in. corru. metal pipe (close riveted & soldered);
- (22) 1826 lin. ft. 12-in. do;
- (23) 2326 lin. ft. 18-in. do;
- (24) 576 lin. ft. 24-in. do;
- (25) 334 lin. ft. 30-in. do;
- (26) 550 lin. ft. 2-in. wrought Iron water pipe; ,
- (27) 550 lin. ft. 3-in. do;
- (28) 1700 lin. ft. 4-in. do;
- (29) 1250 lin. ft. 5-in. do;
- (30) 1850 lin. ft. 6-in. do;
- (31) 103 cu. yds. rubble masonry;
- (32) 124 lin. ft. exist. culv. remove and salvage;
- (33) 2450 lin. ft. exist. water pipes. remove and salvage;
- (34) 715 cu. yds. conc. exist. pave. and struc. remove and dispose of;
- (35) 150 lin. ft. exist. 8-in. tile drain and rock backfill remove and salvage;
- (36) 9 ml. new property fence;
- (37) 57 drive gates;
- (38) 3 walk gates;
- (39) 200 lin. ft. lam. timber guard rail
- (40) 318 sta. finish rdwy.;
- (41) 100 monuments.

VENTURA & LOS ANGELES COS., Cal.—Until Sept. 15, 2 P. M., bids will be received by State Highway Commission, Sacramento, to apply bituminous seal coat to existing shoulders over 40.3 miles between Ventura and Castaic Junction, involving:

- (1) 440 tons asphalt road oil;
- (2) 3880 tons screenings;
- (3) 1260 bbls. heavy fuel oil.

KERN COUNTY, Cal.—Until Sept. 13, 2 P. M., bids will be received by State Highway Commission, Sacramento, to grade and pave with asphalt concrete 2.1 miles bet. Pierce Road and Tank Farm, involving:

- (1) 33,000 cu. yds. rdwy. excav., unclass.;
- (2) 662,000 sta. yds. overhaul;
- (3) 98,700 cu. yds. imp. borrow;
- (4) 1850 cu. yds. struc. excav.;
- (5) 36,000 cu. yds. subgrade for pave.;
- (6) 15,850 cu. yds. asph. concrete;
- (7) 80 cu. yds. Class A Port. cem. conc. (struc.);
- (8) 1,000 lbs. reinf. steel (struc.);
- (9) 174 lin. ft. 8-in. corru. metal pipe
- (10) 654 lin. ft. 18-in. do;
- (11) 386 lin. ft. 24-in. do;
- (12) 18 ea. conc. joints comp. in place

(13) 280 lin. ft. 24-in. plain conc. pipe;

(14) 260 lin. ft. 12-in. std. reinf. conc. pipe;

(15) 46 lin. ft. 24-in. do;

(16) 20 cu. yds. drainage sumps;

(17) 70 tons crusher run base;

(18) 2800 tons gravel or stone (bit. treated surf.);

(19) 125 tons cut-back asphalt;

(20) 11,150 M. gals. water;

(21) 150 bbls. fuel oil, penetr. method;

(22) 900 bbls. fuel oil mix. method;

(23) 0.5 mile property fences, remove and dispose of;

(24) 2.5 miles new property fences;

(25) 9 each gates complete in place;

(26) 3675 lin. ft. lam. timber guard rail;

(27) 20 lin. ft. erect timber rail and wheel guard;

(28) 14 each timber culvert markers;

(29) 111 sta. finish roadway;

(30) 30 each monuments complete in place.

IMPERIAL COUNTY, Calif.—Until Sept. 13, 2 P. M., bids will be received by State Highway Commission, Sacramento, to construct oil treated crushed gravel or stone borders over 6.9 miles between Holtville and East Highline Canal, involving:

- (1) 6500 tons crushed gravel or stone (borders);
- (2) 1620 bbls. heavy fuel oil (borders).

SONOMA & MENDOCINO COUNTIES, Cal.—Until Sept. 13, 2 P. M., bids will be received by State Highway Commission, Sacramento, to surface with gravel base 13.9 miles between Cloverdale and Hopland, involving:

- (1) 150,000 cu. yds. slope excav. (unclass.);
- (2) 2,000,000 sta. yds. overhaul;
- (3) 123,000 tons gravel base;
- (4) 500 bbls. asph. road oil.

LOS ANGELES COUNTY, Calif.—Until Sept. 15, 2 P. M., bids will be received by State Highway Commission, Sacramento, to grade 4 miles between Colby Canyon and Mt. Wilson, involving:

- (1) 914,000 cu. yds. rdwy. excav., unclass.;
- (2) 5,000,000 sta. yds. overhaul;
- (3) 5870 cu. yds. struc. excav.;
- (4) 150 cu. yds. Class A Port. cem. conc. (struc.);
- (5) 12,100 lbs. bar reinf. steel (struc.);
- (6) 1900 lin. ft. 8-in. corru. metal pipe
- (7) 4780 lin. ft. 24-in. do;
- (8) 240 lin. ft. 30-in. do;
- (9) 260 lin. ft. 36-in. do;
- (10) 112 lin. ft. 84-in. do;
- (11) 310 lin. ft. 90-in. multiplate metal pipe;
- (12) 162 lin. ft. 105-in. do;
- (13) 208 lin. ft. 135-in. do;
- (14) 500 lin. ft. lam. timber guard rail
- (15) 2950 bbls. fuel oil;
- (16) 130 culvert markers;
- (17) 209 sta. finish roadway.

SAN LUIS OBISPO, MONTEREY AND SAN BENITO CO., Cal.—Until Sept. 14, 2 P. M., bids will be received by State Highway Commission, Sacramento, to oil treat 17.2 ml. existing roadbed shoulders north and south of Cuesta Grade, 4.8 ml.; north and south of Bradley Bridge, 0.5 ml.; southerly from San Juan Bautista, 1.9 ml.; and between San Juan Bautista and 3.2 ml. north of Hollister, 10 ml. involving:

- (1) 2150 bbls. heavy fuel oil (Loc. A);
- (2) 360 bbls. do (Loc. B);
- (3) 6620 bbls. do (Loc. C).

LINCOLN COUNTY, Nevada.—Until Sept. 6, 2 P. M., bids will be received by S. C. Durkee, State Highway Engineer, Carson City, for oiling between the junction of the Alamo-Delmar rd. and Caliente, Rt. 7, Sec. B-2, 13.13 miles, involving:

- (1) 288,943 gals. asph. road material, type SC-2;
- (2) 21,189 gals. do, type MC-2;
- (3) 13.13 miles road mix;
- (4) 13.13 miles finish roadway.

Specifications obtainable from above office on deposit of \$5, \$2.50 returnable. Certified check 5% required with bid.

LINN COUNTY, Ore.—Until Sept. 7, 10 A. M., bids will be received by U. S. Bureau of Public Roads, W. H. Lynch, District Engineer, 316 New Post Office Bldg., Portland, to construct 6.337 ml. North Santiam Clearing Project E-24-F, Willamette National Forest, involving 74 acres clearing. Specifications obtainable from above office on deposit of \$10; proposal guarantee 5%.

EL SEGUNDO, Los Angeles Co., Cal.—Until 7:15 P. M., Sept. 6, bids will be received by city council to improve Arizona Drive (State Highway No. 60) under the Municipal Improvement Act of 1927, in accordance with plans and specifications obtainable from the city clerk or city engineer, on deposit of \$5, returnable. Certified or cashier's check or bidder's bond, 10%. The engineer's estimate of quantities follows: clear right of way; 90,000 cu. yds. earth work excav.; 431,965 sq. ft. subgrade; 431,965 sq. ft. 7-in. full penetration 2-course asph. mac. pave.; 1131 lin. ft. 18-in. corr. iron drainage pipes; headwalls, catchbasins; 3000 bbls. heavy fuel oil.

Victor D. McCarthy, city clerk. R. T. Hutchins, city engineer.

RIVERSIDE COUNTY, Cal.—Kovacevich & Price, Inc., Southgate, at \$44,085, submitted low bid to the Directors of Joint Highway District No. 15 for constructing road mix, oil treated surface on Sections C, D, E and F, and a portion of Section B. Ortega Highway in Joint Highway District No. 15, V. R. Dennis, San Diego, second low bidder at \$48,044. Match Bros., Elnore, and George Gardner and Sons, Redlands, third low bidder at \$50,987. Bids were taken under advisement for two weeks.

EL DORADO COUNTY, Cal.—Until Sept. 1, 2:30 P. M., bids will be received by C. H. Whitmore, District Engineer, State Highway Commission 502 State Office Bldg., Sacramento, to construct a timber bridge across Greenwood Creek 12 miles northwest of Placerville, consisting of four 19-ft. spans on frame bents and roadway approaches to be graded and surfaced with selected material. Specifications obtainable from above office. Certified check 10% required with bid.

NEVADA STATE—U. S. Forest Service will call bids shortly to construct Lake Tahoe roads, Incline-Spooners section, estimated cost \$100,000; Glenbrook highway, south to California State line, \$38,300; grade and asphalt surface Mt. Rose Reno-Carson highway intersection as far as Galena Creek, estimated cost \$29,000.

LOS ANGELES, Calif.—Until 10 A. M., Sept. 13, bids will be received by the board of public works to improve Beaudry Ave. bet. Figueroa St. and Alpine St. under the 1911 act, involving: grading; 14,084 sq. ft. 4-in. rock and oil rdwy.; 2245 ft. unplas. light curb; 1587 sq. ft. 1-course walk; driveway, gutter, storm drain.

COLUSA & GLENN COS., Calif.—Until Sept. 15, 2 P. M., bids will be received by State Highway Commission, Sacramento, to grade and surface with gravel about 7.1 miles between Maxwell and Norman, involving:

- (1) 160 sta. clear and grub;
- (2) 105,000 cu. yds. rdwy. excav., unclass.;
- (3) 997,000 sta. yds. overhaul;
- (4) 2300 cu. yds. struc. excav.;
- (5) 665 cu. yds. Class A Port. cem. conc. (struc.);
- (6) 6 cu. yds. do. (ralling);
- (7) 880 lin. ft. furnish reinf. concrete piles (inc. test piles);
- (8) 25 drive reinf. concrete piles (inc. test piles);
- (9) 77,000 lbs. bar reinf. steel (struc.);
- (10) 61,000 cu. yds. gravel base;
- (11) 6 tons bit. treated crushed stone or gravel surf.;
- (12) 176 lin. ft. 8-in. corr. metal pipe
- (13) 320 lin. ft. 12-in. do;
- (14) 368 lin. ft. 18-in. do;
- (15) 58 lin. ft. 24-in. do;
- (16) 300 lin. ft. 30-in. do;
- (17) 45 lin. ft. 42-in. corr. metal pipe siphon;
- (18) 82 lin. ft. 24-in. do;
- (19) 5 8-in. corr. metal pipe inlets;
- (20) 200 lin. ft. pipe culvert removed and salvaged;
- (21) 2800 M gals. water;
- (22) 40 cu. yds. concrete remove from exist. pave. and struc. and dispose of;
- (23) 1 conc. headwall, remove and reset;
- (24) 0.5 miles new property fence;
- (25) 2 miles special property fence;
- (26) 1.75 miles remove and dispose of property fences;
- (27) 3.5 miles move and reset property fences;
- (28) 25 drive gates;
- (29) 5 walk gates;
- (30) 400 lin. ft. existing guard rail, remove and salvage;
- (31) 210 bbl. light fuel oil;
- (32) 210 bbl. heavy fuel oil;
- (33) 380 sta. finish roadway;
- (34) 19 monuments, move and reset;
- (35) 59 monuments complete in place.

LOS ANGELES, Calif.—Until 10 A. M., August 30, bids will be received by board of public works for the improvement of Kincardine Avenue bet. Canfield and Durango Aves., in Kincardine Ave. and Canfield Imp. Dist., under cash contract. The quantities are:

- grading, including drainage ditch (483 cu. yds. cut, 282 cu. yds. fill);
 11,681 sq. ft. 4-in. rock and oil rdwy.;
 628 lin. ft. light unplastered curb;
 3,128 sq. ft. 1-course sidewalk;
 629 sq. ft. concrete gutter, 6-in. thick;
 storm drain complete, including bulkhead and guard rail;
 91 lin. ft. 96-in. galv. corr. metal pipe
 2 wooden bulkheads, including guard rail;
 2,561 ft. b.m. timber;
 9 rods (217 lbs.);
 18 steel plates (78 lbs.);
 9 special washers;
 13 nuts.
 200 spikes.

PHOENIX, Ariz.—Specifications for two highway jobs coming under the national recovery act were sent to the San Francisco, office, U. S. bureau of public roads, with recommendations for approval.

Both projects will be advertised for bids as soon as they are approved. The two jobs are continuous. One is an overpass about six miles west of Flagstaff and the other is oil surfacing of U. S. Highway 66 between Flagstaff and the present oil surfacing job east of Williams.

WHITMAN COUNTY, Wash.—Until Sept. 12, 10 A. M., bids will be received by L. V. Murrow, State Director of Highways, Olympia, to pave with portland cement concrete 10 ml. State Road No. 3, Pullman to Parvin Road, N.R.H. Pro. No. 152-B. Specifications obtainable from above office on deposit of \$2, certified check 5% required with bid.

LOS ANGELES, Calif.—Griffith Co., Los Angeles Railway Bldg., submitted low bid to harbor department on Aug. 16, at \$49,130, for paving miscellaneous streets, transit shed floors and wharf decks; Spec. No. 918. Bids were taken as follows:

- (1) 7000 tons asph. conc. base material
 - (2) 7000 tons asph. conc. wear. surf., No. 2;
 - (3) 3000 tons fine sheet asph. or course sheet asph. wearing surface.
- Griffith Co., (1) \$2.89 (2) \$2.89 (3) \$2.89; total, \$49,130.
 L. A. Paving Co., (1) \$2.99 (2) \$3.19 (3) \$3.19; total, \$52,830.
 Sully-Miller Const. Co., (1) \$3.30 (2) \$3.38 (3) \$3.48; total, \$57,200.

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TUCSON, Ariz.—Paul Fernald, city engineer, authorized by city council to prepare plans for paving of 3.5 mi. of streets with hard-surface pavement in the district bounded by N Stone Ave., Drachman St., Park Ave. and Speedway. The council plans to include this project in its NRA program.

BERKELEY, Alameda Co., Calif.—Until Sept. 6, 8 P. M., bids will be received by Board of Education, Clara F. Andrews, Secretary, for grading, paving, and fencing at the Burbank School, University Ave. and Curtis St., Berkeley.

LONG BEACH, Cal.—G. G. Fisher Equipment Co., 1143 Junipero St., was awarded contract by city council Aug. 18 at \$1497.86 for improving portions of 11th St. from Redondo Avenue to Loma Ave., and Newport Ave. from 10th to Anaheim St., Long Beach.

LOS ANGELES, Cal.—Hearing on the improvement of Chautauqua Blvd. between Vance St. and Malibu Road, 1086 ft. center line, continued by city council until Nov. 17. The work involves:

- grading;
 36,526 sq. ft. 6-in. conc. pave.;
 5842 sq. ft. 6-in. asph. conc. pave.;
 188 sq. ft. 8-in. conc. pave.;
 1430 ft. light unplastered curb;
 1232 sq. ft. 1-course sidewalk;
 wooden guard rail, concrete gutter;
 storm drain, sanitary sewer;
 water system complete.
 Engineer's estimate, \$14,821.94.

CLARK COUNTY, Idaho.—Northwestern Engr. Co., Rapid City, S. D., at \$85,769.56 (wire cable guard rail) awarded contract by U. S. Bureau of Public Roads for 1.044 miles Dubois-Monida Forest Road Project E-33-A4, Targhee National Forest.

PHOENIX, Ariz.—City Manager S. McN. Johnson, has announced that the city will start work shortly on the improvement of Grand Ave. between Roosevelt St. and Six Points, 0.66 mile, by paving 38 ft. with concrete, making full width of 56 ft., and constructing curbs. The cost is estimated by City Engineer W. C. Lefebvre at \$40,000. The funds have been apportioned from National Recovery Act funds.

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

JUNIPERO SERRA BLVD. EXTENSION—BIDS OPENED

SAN FRANCISCO.—Eaton & Smith, 715 Ocean Ave., at \$96,540 submitted low bid to Joint Highway District No. 10 to construct Junipero Serra Blvd. Extension through Colma between School St. and the Edgemar Road, 3/4 mile to be graded and paved with macadam and asphalt wearing surface, and involving construction of a reinforced concrete bridge over the Boulevard at Washington St., involving:

- (1) 80,000 cu. yds. excavation;
- (2) 250,000 sq. ft. 8-in. mac. base and 2 1/2-in. asph. wearing surface;
- (3) 50,000 sq. ft. do, 2-in. wear. surf.;
- (4) 20,000 sq. ft. 4-in. do, 2-in. do;
- (5) 15,000 sq. ft. resurface 2-in. asph. wearing surface;
- (6) 6,000 gal. emulsified asph. (extra)
- (7) 30,000 sq. ft. mac. shoulders;
- (8) 15,000 sq. ft. do, emulsified asph. treated;
- (9) 24,000 sq. ft. macadam walk;
- (10) 3,500 lin. ft. redwood curb;
- (11) 14,000 sq. ft. 2x8-in. redwood headers
- (12) 6,400 ft. 2x4-in. do;
- (13) 3,400 ft. concrete gutter;
- (14) 1,000 ft. emulsified asph. gutter;
- (15) 1,600 ft. unarmored conc. curb;
- (16) 3,500 sq. ft. conc. walk;
- (17) 1,600 ft. 10-in. V.C.P. culvert;

- (18) 2,600 ft. 12-in. V.C.P. sewer;
- (19) 1,000 ft. 18-in. V.C.P. sewer;
- (20) 910 ft. 21-in. do;
- (21) 250 ft. 18-in. metal storm sewer;
- (22) 1050 ft. 36-in. conc. storm sewer;
- (23) 20 brick manholes;
- (24) 2 concrete manholes, c.l. frames;
- (25) 40 concrete drop inlets, cast steel grating;
- (26) 600 cu. yds. Class A Port. cement in structures;
- (27) 80,000 lbs. bar reinf. steel;
- (28) 250 lin. ft. concrete hand rail;
- (29) 1 wooden stairway;
- (30) 3,500 sq. ft. 1 1/2-in. asph. wearing surface;
- (31) 6,200 lin. ft. wood fence;
- (32) 1,600 ft. timber guard rail;
- (33) 10 concrete survey monuments;
- (34) 3,500 ft. painted traffic line 6-in. wide.
- (35) 10,000 ft. do, 4-in. wide.

Complete bids follow:

(A) Eaton & Smith.....\$ 96,540
 (B) Fay Improvement Co..... 99,143
 (C) Granfield, Farrar & Carlin 100,529
 (D) Pacific States Const. Co..... 101,586
 (E) A. J. Raisch 107,536
 (F) Chas. L. Harney..... 110,865
 (G) MacDonald & Kahn 120,985

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
(1)	.22	.225	.22	.265	.23	.21	.297
(2)	.106	.095	.10	.095	.12	.125	.104
(3)	.075	.0865	.08	.075	.08	.11	.104
(4)	.07	.082	.06	.065	.07	.0975	.085
(5)	.055	.06	.05	.058	.06	.06	.061
(6)	.20	.095	.12	.14	.10	.08	.097
(7)	.025	.0265	.03	.025	.03	.04	.063
(8)	.05	.053	.04	.04	.05	.07	.06
(9)	.045	.053	.04	.04	.05	.07	.056
(10)	.25	.16	.15	.21	.30	.25	.18
(11)	.10	.093	.10	.12	.10	.15	.11
(12)	.06	.066	.06	.05	.06	.05	.096
(13)	.70	.80	.80	.70	.90	.75	.06
(14)	.30	.255	.40	.31	.50	.40	.98
(15)	.50	.60	.50	.60	.65	.75	.36
(16)	.12	.12	.12	.13	.12	.13	.76
(17)	.70	.92	.80	.80	.80	.60	.12
(18)	1.00	.90	1.00	.95	1.00	1.00	1.12
(19)	2.00	1.90	2.00	1.75	1.75	2.50	1.45
(20)	2.00	2.25	2.50	2.45	2.50	3.00	3.04
(21)	2.00	1.80	2.50	2.20	2.00	2.00	2.75
(22)	5.60	7.40	6.50	7.00	7.50	6.00	2.15
(23)	80.00	67.00	75.00	90.00	60.00	70.00	11.05
(24)	175.00	205.00	200.00	220.00	150.00	250.00	102.00
(25)	50.00	50.00	60.00	52.00	45.00	60.00	314.00
(26)	16.00	16.85	16.50	17.75	19.60	17.00	78.00
(27)	.04	.04	.04	.0425	.04	.039	20.04
(28)	4.00	5.00	6.00	6.90	5.00	12.00	.047
(29)	100.00	75.00	300.00	75.00	150.00	100.00	2.30
(30)	.08	.09	.09	.09	.09	.10	133.00
(31)	.40	.60	.80	.45	.60	.50	.50
(32)	.70	.96	1.00	.80	.80	1.00	.82
(33)	8.00	10.50	5.00	9.75	9.00	20.00	12.00
(34)	.015	.022	.03	.02	.04	.01	.036
(35)	.01	.02	.02	.015	.003	.01	.034

SIGNAL HILL, Los Angeles Co. Cal. —Bids for furnishing cast iron water pipe and fittings opened by city council August 14 follow:

- (1) 10,875 ft. 6-in. cast iron pipe;
- (2) 4,700 ft. 12-in. do;
- (3) 825 ft. 16-in. do;
- (4) 1 16x16x12-in. tee (all bell);
- (5) 1 16x16x16-in. do;
- (6) 3 12x6x16-in. do;
- (7) 22 6x6x6-in. do;
- (8) 2 12x12x6x6-in. crosses;
- (9) one 12x12x12-in. cross (all bell);
- (10) 5 6x6-in. cross (all bell);
- (11) 3 12x8-in. bell and spigot reducers
- (12) 2 16x12-in. do;
- (13) 4 16-in. 45-deg. bell and spigot bends;
- (14) 12 6-in. plugs.

- (15) one 16-in. hub end gate valve;
- (16) 5 12-in. do;
- (17) 21 6-in. do;
- (18) 15 6-in. fire hydrants with 4x2 1/2-in. outlets.

The bids were:

Central Foundry Co.: (1) 55.9c (2) \$1.52 (3) \$2.43 (4) \$66.80 (5) \$73.50 (6) \$34 (7) \$10.32 (8) \$38.80 (9) \$49.60 (10) \$13.60 (11) \$13.60 (12) \$25.12 (13) 38.48 (14) \$2.16 (15) \$150.15 (16) \$65.85 (17) \$20.02 (18) \$55; total \$17,884.34.

Reliable Iron Foundry: (4) to (7) inclusive, \$342.18 (8) to (10) inc., \$131.94 (11) and (12) \$67.64 (13) \$106.02 (14) \$7.56; total \$655.34.

Viking Automatic Sprinkler Co.: (15) \$126.50 (16) \$313.50 (17) \$420.42 (18) \$748.50.

National Cast Iron Pipe Co. (1) 61.5c (2) \$1.57 (3) \$2.63.

Hercules Foundries, Inc.: (4) to (7) inc. \$297.45 (8) to (10) inc., \$114.75 (11) and (12) \$66.82 (13) \$106.02 (14) \$7.56; total, \$592.60.

U. S. Pipe & Foundry Co. (totals of each item): (1) \$65.25 (2) \$70.50 (3) \$2062.50 (4) to (7) inc., \$355 (8) to (10) \$138 (11) and (12) \$71.50 (13) \$112 (14) \$8.00.

Long Beach Iron Works: (4) to (7), inc., \$342.18 (8) to (10) inc., \$131.94 (11) and (12) \$67.64 (13) \$106.02 (14) \$7.56 (18) \$870; total \$1525.34.

Pacific States C. I. Pipe Co.: Bid irregular.

Alhambra Foundry Co.: (4) to (7) inc., \$342.18 (8) to (10) inc., \$131.94 (11) and (12) \$67.64 (13) \$106.02 (14) \$7.56.

Rensselaer Valve Co.: (15) \$143 (16) \$62.70 (17) \$20.02 (18) \$50; total \$1,626.72.

R. D. Wood & Co.: (1) 57.8c (2) \$1.486 (3) \$2.49 (15) \$143 (16) \$68.75 (17) \$22.83 (18) \$43.

Crane Co.: (4) to (7) inc., \$342.18 (8) to (10) inc., \$131.94 (11) and (12) \$67.64 (13) \$106.02 (14) \$7.56; total \$2,371.52.

American C. I. Pipe Co. (totals): (1) \$6198.75 (2) \$6862 (3) \$2021.25 (4) to (7) inc., \$342.18 (8) to (10) inc., \$131.94 (11) and (12) \$67.64 (13) \$106.02 (14) \$7.56; total \$15,737.34.

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SAN FRANCISCO.—Following bids received August 18 by T. A. Brooks, City Purchasing Agent, under Bid No. 1062, to haul approximately 1700 tons cast iron pipe for San Francisco Water Department, as follows:

Schedule (1a): Haul 35 tons (2000 lbs.) 6- and 8-in. pipe, including bolts and washers, from Pier 31 to yard at 639 Bryant St.;

Schedule (1b): Haul 36 tons 6- and 8-in. pipe, including bolts and washers, from Pier 54 to yard at 639 Bryant Street;

Schedule (1c): Haul 815 tons 6- and 8-in. pipe, including bolts and washers, from Pier 31 to storage lot at Ocean and Phelan Avenues;

Schedule (1d): Haul 815 tons 6- and 8-in. pipe, including bolts and washers, from Pier 54 to storage lot at Ocean and Phelan Avenues;

If awarded contract for all items together, the prices shall be as follows:

Schedule (2a): Haul 35 tons do from Pier 31 to yard at 639 Bryant St.;

Schedule (2b): Same as (1b);

Schedule (2c): Same as (1c);

Schedule (2d): Same as (1d).

Bids were as follows (bid by schedule only):

Overland Freight Transit, Schedule (1) \$1414; Schedule (2) \$1414.

J. H. Krumlinde, (1) \$1498.42; (2) \$1498.42.

King & Co., (1) \$1795.22; (2) \$1,795.22.

John McCarthy & Son, (1) \$2008.50 (2) \$1999.00.

J. A. Clark Draying, (1) \$2086.50.

Farnsworth & Ruggles, (1) \$2107.50; (2) \$1896.76.

N. Giorgi, (1) \$2252.75; (2) \$2252.75.

Meyer Rosenberg, (1) \$2267.75; (2) \$2267.75.

Jos. D. Sheedy, (1) \$3365.00; (2) \$3,365.00.

Daniel Gallagher T. M. & R. Co. bid by units as follows: (1a) 95c; (1b) 95c; (1c) \$1.45; (1d) \$1.45; (2a) 95c; (2b) 95c; (2c) \$1.45; (2d) \$1.45.

Bids held under advisement.

LOS ANGELES, Cal.—Bids for furnishing and delivering to Water and Power Department f.e.b. department's warehouse, 410 Ducommun St., double disc, round bottom, hub end gate valves under Spec. No. 3186, were opened by A. J. Holm, city purchasing agent, August 15. The items were:

- (1) 150 12-in. valves;
- (2) 1 24-in. valve with extended grease case;
- (2a) 1 24-in. do except without extended grease case and with Alemite lubricating fittings.

The bids were:

Rennselaer Valve Co.: (1) \$58 (2) \$412 (2a) \$372. Terms net.

Rich Mfg. Co.: (1) \$60.70 (2 and 2a) no bid. Terms 2% 30 days.

Water Works Supply Co.: (1) \$61.47 (2) \$471.10 (2a) \$413.50. Terms net.

A. H. Coates Co.: (1) \$62.50 (2) \$452 (2a) \$402. Terms net.

Columbian Iron Works: (1) \$64.26 (2) \$414.62 (2a) \$399.62. Terms 2% 30 days. Delivery, 10 weeks.

Ludlow Valve & Mfg. Co.: (1) \$69.50 (2) \$490 (2a) \$440. Terms net.

Viking Automatic Sprinkler Co.: (1) \$65.31 (2) \$515.65 (2a) \$496.72. Terms 2% 10th prox. after date of invoice.

Griffith Pipe & Supply Co.: Submitted same prices as Viking Automatic Sprinkler Co., above.

Ohio Injector Co.: (1) \$66.16 (2) no bid (2a) no bid. Terms 2½% 25 days.

Chapman Valve Mfg. Co.: (1) \$73.60 (2) \$532 (2a) \$494. Terms net. Delivery, 45 days.

R. D. Wood & Co.: (1) \$73.67 (2) and (2a) no bid. Terms, ½ of 1% 10 days. Delivery one-half of requirements in 8 or 9 days, balance 14 or 15 weeks. Deduct 50c per valve % delivery.

Crane Co.: (1) \$80 (2) \$800 (2a) \$575. Terms, 2% 30 days.

Warren & Bailey Co.: (1) \$87 (2) \$669.28 (2a) \$630.93. Terms, 2% 30 days. 33

ARIZONA STATE.—J. A. Casson, Westward Ho Hotel, Phoenix, and 344 High Street, Oakland, Calif., awarded contract by State Highway Commission, Phoenix, August 14 at \$96,992.36 for highway construction on the St. Johns-Springerville Highway, Project E-60 and E-68-A. The work, which begins at a point about 11½ miles south of St. Johns and extends southeasterly approx. 8½ miles toward Springerville, consists of grading and draining about ½ of a mile of roadway, the placing of subgrade stabilizer and the oil processing of the entire length by the road mix method, involving:

Federal Aid Project No. E-60

- (1) 21,871 cu. yds. rdwy. excav., unclassified;
- (2) 40 cu. yds. struc. excav., unclass.
- (3) 521 cu. yds. drainage excav., unclassified;
- (4) 41 cu. yds. borrow excav., unclassified;
- (5) 20,074 sta. yds. earthwork overhaul;
- (6) 300 hours rolling (except oil cake, seal coat and shoulders);
- (7) 7 cu. yds. Class B concrete, including cement;
- (8) 10 lbs. reinf. steel (bars C.I.P.);
- (9) 44 lin. ft. 36-in. C.M.P. (C.I.P., inc. bds. but except excavation);
- (10) 800 lin. ft. cable road guard (C. I. P.);
- (11) 50 M. gals. water applied to roadway (C.I.P.);
- (12) 522 cu. yds. subgrade stabilizer;
- (13) 3317 cu. yd mi. sugrade stabilizer haul;
- (14) 199 cu. yds. mineral aggregate;
- (15) 54 cu. yd. ml. do haul;
- (16) 3576 gals. asph. road oil (C.I.P. on road);
- (17) 0.176 ml. mix, lay and finish;
- (18) 2 tons cutback asph. cement for seal coat (C.I.P. on road);

- (19) 15 cu. yds. screenings for seal coat (C.I.P.);
- (20) 16 cu. yds. shoulder material;
- (21) 99 cu. yd. mi. do, haul;
- (21a) 2000 cu. yds. stripping pits;

Federal Aid Project No. E-68-A

- (22) 7463 cu. yds. rdwy. excav., unclassified;
- (23) 7 cu. yds. structural do;
- (24) 176 cu. yds. drainage do;
- (25) 10 hours rolling (except oil cake seal coat and shoulders);
- (26) 3 cu. yds. Class B concrete, including cement;
- (27) 10 lbs. reinf. steel (bars C.I.P.);
- (28) 36 lin. ft. 24-in. C.M.P. (C.I.P., inc. bands but except excav.);
- (29) 1222 sq. yds. grading dips;
- (30) 25,648 cu. yds. subgrade stabilizer
- (31) 70,993 cu. yd. mi. subgrade stabilizer haul;
- (32) 239 M. gals. water applied to roadway (C.I.P.);
- (33) 9717 cu. yds. mineral aggregate;
- (34) 25,334 cu. yd. mi. mineral aggregate haul;
- (35) 174,906 gals. asph. road oil (C. I. P. on road);
- (36) 8,501 miles mix, lay and finish;
- (37) 102 tons cutback asph. cement for seal coat (C.I.P. on road);
- (38) 727 cu. yds. screenings for seal coat (C.I.P.);
- (39) 749 cu. yds. shoulder material;
- (40) 2080 cu. yd. mi. do haul;
- (41) 13,000 cu. yds. stripping pits;

Non-Federal Aid Work

- (42) 170 cu. yds. special mineral aggregate for stockpile (C.I.P.).
- The total bids were:
- (A) J. A. Casson, Westward Ho Hotel, Phoenix, \$96,992.36.
 - (B) All Arizona Engr. & Const. Co., Clifton, Ariz., \$99,870.79.
 - (C) Pleasant-Hasler Const. Co., Phoenix, \$104,106.86.

The unit bids were:

	(A)	(B)	(C)
(1).....	\$.55	\$.60	\$.65
(2).....	2.50	1.50	1.00
(3).....	.80	.60	.50
(4).....	.80	.60	.35
(5).....	.05	.03	.02
(6).....	4.00	4.50	4.00
(7).....	40.00	35.00	35.00
(8).....	.20	.10	.10
(9).....	6.80	6.50	4.00
(10).....	.90	1.00	.75
(11).....	2.30	5.00	3.50
(12).....	.68	.65	.77
(13).....	.13	.11	.14
(14).....	.80	1.00	1.00
(15).....	.13	.11	.14
(16).....	.115	.12	.10
(17).....	600.00	550.00	700.00
(18).....	35.00	40.00	42.00
(19).....	5.00	5.00	4.00
(20).....	.80	.75	.77
(21).....	.13	.10	.14
(21a).....	.15	.20	.25
(22).....	.55	.60	.65
(23).....	2.50	1.50	1.00
(24).....	.80	.60	.50
(25).....	4.00	4.50	4.00
(26).....	40.00	35.00	35.00
(27).....	.20	.10	.10
(28).....	5.50	5.50	3.00
(29).....	.50	.30	.25
(30).....	.68	.65	.77
(31).....	.13	.11	.14
(32).....	2.30	5.00	3.50
(33).....	.80	1.00	1.00
(34).....	.13	.11	.14
(35).....	.115	.12	.10
(36).....	600.00	550.00	700.00
(37).....	35.00	40.00	42.00
(38).....	5.00	5.00	4.00
(39).....	.80	.80	.77
(40).....	.13	.11	.14
(41).....	.15	.20	.25
(42).....	3.00	3.00	3.00

LOS ANGELES, Calif.—Los Angeles Paving Co., 3200 E Vernon Avenue, submitted low bid to county supervisors August 14 at \$20,874.88 for paving First St. in Norwalk, from its intersection with Pioneer Blvd. and Rosecrans Ave. at Five Points, northerly to Imperial Highway, 6300 lin. ft.

or 1.21 miles, cash contract No. 444, involving:

- (1) 194,040 sq. ft. 2-in. A.C. wearing surface;
- (2) 193,320 sq. ft. 4-in. A.C. base;
- (3) 300 tons variable A.C. wear. surf.;
- (4) 223,327 sq. ft. preparation of disintegrated rock or earth subgrade.

Grading and other work has been done by force account. Geo. W. Jones, county road commissioner. The bidders were:

- (A) Los Angeles Paving Co., Inc.
- (B) Oswald Brothers.
- (C) Griffith Company.
- (D) W. E. Hall Company.
- (E) P. J. Akmadzich.
- (F) Southwest Paving Co.

	(1)	(2)	(3)	(4)	Total
(A).....	\$.034	\$.064	\$2.50	\$.005	\$20,847.88
(B).....	.032	.066	2.46	.0075	21,420.95
(C).....	.033	.065	2.70	.012	22,498.04
(D).....	.037	.069	2.85	.0145	24,429.87
(E).....	.0354	.07	3.00	.015	24,693.33
(F).....	.045	.091	3.69	.01	29,718.79

FRESNO, Cal.—Pacific States C. I. Pipe Co., Rialto Bldg., San Francisco, at \$18,450 awarded contract by city council to furnish:

- (1) 5000 ft. 6-in. cast iron b & s class 200 water pipe;
- (2) 12,000 ft. 8-in. do;
- (3) 4,000 ft. 10-in. do;

Complete bids follow:

- (A) Pacific States C. I. Pipe Co., \$18,450.
- (B) Utilities Supply Co., no total.
- (C) Jos. Greenspon's, St. Louis, Mo., irregular.
- (D) American C. I. Pipe Co., no total.
- (E) United States Pipe Corp., \$18,850.

All f.o.b. Fresno.

Unit bids follow:

	(1)	(2)	(3)
(A).....	\$.584	\$.8875	\$1.22
(B).....	.627	.929	1.278
(D).....	.60	.885	1.24
(E).....	.61	.90	1.25

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SUSANVILLE, Lassen Co., Cal.—

As previously reported, Robert B. McNair, 3745 Rhoda Ave., Oakland, at \$17,738 awarded contract by Lassen-Modoc Joint Highway District No. 14, Susanville, for 2.89 miles excavation, grading, graveling and placing culvert pipes; also hauling and spreading gravel at intervals over about five miles of road now in use between Eagle Lake and Willow Creek Valley, about 35 miles north of Susanville, involving:

- (1) 8500 cu. yds. excav.;
- (2) 15,000 cu. yds. overhaul;
- (3) 5770 cu. yds. gravel;
- (4) 650 ft. culvert placing.

Complete bids follow:

- (A) Robt. B. McNair, Oakland, \$17,738
- (B) H. A. Anderson, Chico, \$19,250.

Unit bids follow:

	(A)	(B)
(1).....	\$1.50	\$1.60
(2).....	.05	.06
(3).....	.65	.75
(4).....	.75	.65

LOS ANGELES, Cal.—Parish Bros., 1222 N. Grower St., submitted low bid to County Board of Supervisors, Aug. 14, at \$13,590, for constructing a reinforced concrete bridge to be built on Alameda St. over Compton Creek.

The proposed bridge will consist of two spans, 30 ft. each, with a 50-ft. roadway and with creosoted piling foundation. The engineer's estimate of quantities follow:

- 435 cu. yds. class "B" concrete;
- 199 cu. yds. class "A" concrete;
- 3,100 lin. ft. wood pile;
- 3,514 lbs. rocker and bearing plates
- 39,446 lbs. reinforcing steel;
- 40 pieces tile;
- 131 lin. ft. hand rail;
- 2,213 cu. yds. excavation;
- 8 4-in. x 8-in. x 18-in., 16 gauge

galvanized drain;
14,996 sq. ft. form area;
392 sq. ft. expansion material.
W. D. Armstrong, county bridge engineer.
Bids were taken as follows:
(1) Lump sum;
(2) Price per yd. for additional "B" concrete;
(3) Price per lb. for additional reinf. steel;
(4) Price per lin. ft. for additional piling for every foot over 25 ft. in length.

- The bids were:
(A) Parish Brothers.
(B) John Strona.
(C) Willard Lutz.
(D) Dimmitt & Taylor.
(E) C. Bongiovanni Constr. Co.
(F) Johnson Constr. Co.
(G) Oscar Oberg.
(H) George Hess.
(I) J. E. McIntosh.
(J) E. G. Perham.
(K) R. R. Bishop.
(L) John Oberg.
(M) H. M. Baruch Corp., Ltd.
(N) Eyerts & Dunn.
(O) Merritt-Chapman & Scott.
(P) Winter Constr. Co.
(Q) Lynch-Cannon Engrs. Co.
(R) Contracting Engrs. Inc.
(S) Associated Constructors.

	(1)	(2)	(3)	(4)
(A).....	\$13,590	\$20.00	\$.06	\$.95
(B).....	13,990	11.25	.05	1.00
(C).....	14,000	15.00	.05	.55
(D).....	14,200	14.00	.045	.90
(E).....	14,444	10.00	.05	.95
(F).....	14,642	10.50	.05	.85
(G).....	14,743	13.00	.04	1.00
(H).....	14,890	10.00	.04	1.00
(I).....	14,894	10.00	.04	2.00
(J).....	14,948	20.00	.05	.80
(K).....	15,322	16.00	.04	1.00
(L).....	15,334	20.00	.05	.95
(M).....	15,992	12.50	.0425	.80
(N).....	16,470	80.00	.04	1.35
(O).....	16,988	12.00	.04	.75
(P).....	17,100	18.00	.0475	1.45
(Q).....	17,300	12.50	.045	1.25
(R).....	17,480	12.00	.04	.90
(S).....	18,368	8.81	.043	.99

WESTERN STATES—Following is the approved Public Roads program (forest Highways) on the basis of \$15,000,000 appropriation:

ARIZONA—\$980,996

7 miles construction Payson-Colcord Mountain, R11-A, \$55,000.
15.5 miles oil surfacing Ashfork-Flagstaff-Angell, R4-Bc, \$145,000.
Grading and drainage, Globe-Holbrook, R12-H, \$11,000.
Base Course Surface Fredona-House-rock Valley, R28, \$79,000.
Survey, \$40,000.
Total, \$330,000.

CALIFORNIA—\$2,351,000

Drainage 0.939 mi. Douglas City-Peanut, R5-A1, \$8100.
4.503 mi. subgrade and reinforcing Douglas City - Peanut, R5 - A2, \$15,000.
Grading 1.75 mi. Douglas City-Peanut, R5-C, \$48,900.
4 to 5 ml. Grading Douglas City-Peanut, R5-D, \$100,000.
10.01 mi. base course surface, Oakhurst Highway, R47-C1D1, \$81,000
Grading 13.189 mi. Mt. Shasta-Mt. Lassen, R77-F, \$147,500.
Grading 3.575 mi. Hoopa Forest Highway, R51-B, \$375,000.
Subgrade, reinforcement Deer Creek Meadows, R21-A1B1C1D1E, \$25,000
Grading 6.24 mi. Sonora Pass, R38-C, \$235,000.
Survey, \$50,000.
Total, \$746,000.

IDAHO, \$1,710,825

0.2 mi. Grading, Surfacing, Bridge, North and South Highway, R1-C, \$36,000.
Surfacing North Pacific Highway, R7-A8B2C2D3, \$114,000.
Locating Survey, \$5000.
Construction 13 mi. Warren Wagon

Road, R21-E, \$25,000.
Construction 10 mi. Ketchum-Clayton, R-26-1., \$207,000.
1.041 mi. Grading, Surfacing, Bridge, Dubois-Monida, R33-A, \$20,000.
19 mi. Surfacing and Oiling, Warm River-Yellowstone, R34-A9, \$110,000.
Locating Survey, \$10,000.
Total, \$524,000.

UTAH, \$559,047

5.3 mi. Grading and Surfacing Alpine Scenic Highway, R6-Cld, \$86,000.
7.6 mi. Reconstruction and Surfacing Sevier Summit, \$88,000.
3.07 mi. Grading and Surfacing Cedar-Long Valley, R-20-A3, \$6000.
Survey, \$10,000.
Total, \$190,000.

WASHINGTON, \$1,207,246

7.8 mi. Surfacing, Mt. Baker, R6-A6 C3, \$70,000.
Surfacing 4.2 mi. South Fork Stillaguamish, 74-A1, \$25,000.
Surfacing and guard rail, 11.4 mi. Sunset Highway, 79-A6, \$35,000.
Grading 5 mi. Randle-Yakima, R13-N \$50,000.
Bridge, 4124 ft., Randle-Yakima, R13-13 (Cortright Creek Bridge), \$70,000.
Grading 3 mi. St. Helens Highway, R-15-A2, \$50,000.
Grading 2 mi. Republic-Kettle Falls, R20-B, \$50,000.
Surfacing 11.1 mi. Baker River Highway, R25-A3B2C3, \$50,000.
Grading, 2 mi. Loup Loup Highway, R28-B, \$50,000.
Surfacing 2.3 mi. Randle-Yakima West Side, R13-H31 4K1, \$25,000.
Surfacing 2.8 mi. Chanapechosh Highway, R-26-A, \$25,000.
Grading, 4 mi. Randle-Yakima East Side, R13-L2-B, \$50,000.
Grading 2 mi. Republic-Kettle Falls, R20-6, \$50,000.
Grading 2.5 mi. South Fork-Stillaguamish, R71B, \$50,000.
Grading 4 mi. Stevens Pass, R8-A3, \$100,000.
Grading 2 mi. St. Helens Highway, R15-A3, \$45,000.
Surveys, \$25,000.
Total, \$820,000.

OREGON

Grading and Bridge on 8 mi. Tiller Trail, R16-F2 (Bridge R16-F3), \$75,000.
Underpass, Siuslaw Highway, R-7-G2, \$25,000.
Grading 1.8 mi. Willamette, R21-F1F, \$50,000.
Clearing and Grading 10 mi. Santiam Highway, R23-H, \$25,000.
Grading and Bridge on 6 mi. North Santiam, R24-F2, \$40,000.
Grading 4.5 mi. West Elgen, R37-D1, \$59,000.
Grading 1 mi. Tiller Trail, R16-F2, \$50,000.
Surfacing 3 mi. Pendleton-John Day, R33-E1F1, \$30,000.
Grading 2 mi. Willamette, R21-F1, \$115,000.
Oiling Canyon City, R35-F2H2I2, \$3000
Survey, \$40,000.
Total, \$503,000.

NEVADA

Grading 1.3 mi. Lake Tahoe, R1-A, \$14,200.
Base Course Surfacing 5.5 mi. Lake Tahoe, R1-R2 C1D2, \$11,500.
Asphalt Top, 5.5 mi. Lake Tahoe, R1-B3 C-D3, \$19,400.
Asphalt Top 9.67 mi. Glenbrook Highway, R3-C3D3E2, \$36,800.
Asphalt Top, Lake Tahoe, R1-A6, G2, \$21,000.
Asphalt Top, Lake Tahoe, R1A2, \$35,400.
Surfacing Mt. Rose, \$10,500.
Asphalt Top, Mt. Rose, \$8000.
Maintenance, Mt. Rose, \$6000.
Surveys, \$29,000.
Total, \$201,800.

Service to furnish three portable drag saws, 7 ft. long, equipped with 2-cycle gasoline engine:

- H. W. Carter Co., \$103.70 f.o.b. San Francisco; \$109.95 f.o.b. Portland.
Associated Equip. Co., \$111.20 f.o.b. San Francisco.
Kratz & McClelland, \$121.57 f.o.b. San Francisco.
Garfield & Co., \$143.10 f.o.b. San Francisco.
Fred E. Barnett, \$107 f.o.b. Portland.
E. R. Bacon, \$115 f.o.b. Portland.
A. L. Young Machinery Co., \$145 f.o.b. Portland.
Harron-Rickard & McCone, \$169.57 f.o.b. Portland.
Bids held under advisement.

SAN FRANCISCO.—Following bids received by U. S. Forest Service for rental of compressors for one, two, three or four compressors:

Lindgren & Swinerton, \$145 for one compressor for one month; \$500 for 4 months; two compressors, \$290 and \$1000; three compressors, \$435 and \$1,500; four compressors, \$580 and \$2000.
Tieslau Bros., Berkeley, \$215 per month.

Ed. R. Bacon, \$200 for 1st month, \$185 for 2 or more months.

W. H. Cowen, San Francisco, \$250 for one month, 280 cu. ft. capacity, \$240 for two months, \$230 for three months; \$275 for one month for 310 cu. ft. capacity, \$265 for two months, \$255 for three months.

Western Machinery Co., \$200 for one month, \$185 for two months, \$175 thereafter.

Sutton & Gilman, San Francisco, \$200 for one month, 240 ft. capacity, \$185 for two months, and \$175 thereafter.

Bids held under advisement.

SAN FRANCISCO.—Following firms submitted identical bids at \$170 each to U. S. Forest Service, to furnish ten rock drills, air complete 50 to 59 lbs. weight f.o.b. Government Island or f. o. b. Los Angeles; Ed R. Bacon, Cochise Rock Drill Mfg. Co., Rix Co., Inc., Ingersoll-Rand, Gardner-Denver, Sullivan Machinery Co., and Chicago Pneumatic Tool Co. Bids held under advisement.

PERKELEY, Alameda Co., Calif.—Fabric Fire Hose Co., Financial Center Bldg., Oakland, at prices shown below, submitted low bid to the city council to furnish:

- (1) 1300 ft. 2½-in. cotton fabric rubber lined fire hose;
(2) 500 ft. 1½-in. double jacket do.

Bidders follow:

- (A) Fabric Fire Hose Co., Oakland.
(B) Pioneer Rubber Co.
(C) Goodrich Rubber Co.
(D) American Rubber Co.
(E) Quaker City Rubber Co.

Unit bids follow:

	(1)	(2)
(A) (per ft.)	\$.80	\$.50
(B)	.80	.55
(C)	.80	.55
(D)	.80	.55
(E)	.90	.60

SAN FRANCISCO.—Fay Imp. Co., Phelan Bldg., at \$873.95 submitted the low bid to Dept. of Public Works to improve 37th Ave. bet. Moraga and Noriega, sewer only, involving:

- (1) 593 ft. 8-in. VCP sewer;
(2) 26 Y branches;
(3) 2 brick manholes.

Complete bids follow:

- (A) Fay Imp. Co., \$ 873.95
(B) E. J. Treacy, 887.60
(C) Herman Lawson, 1121.37

Unit bids follow:

	(1)	(2)	(3)
(A)	\$1.15	\$2.00	\$70.00
(B)	1.20	1.00	75.00
(C)	1.43	3.63	89.50

SAN FRANCISCO.—Following bids received August 18 by U. S. Forest

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Permit No. 3064

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Contracts In Ninety Days**

**National Building Totals In July
Exceed 1932**

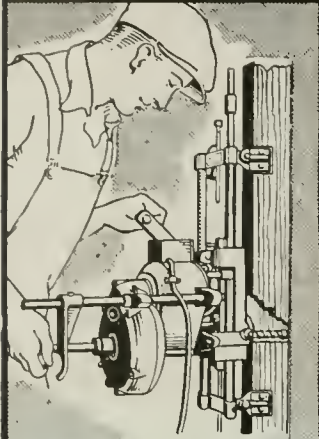
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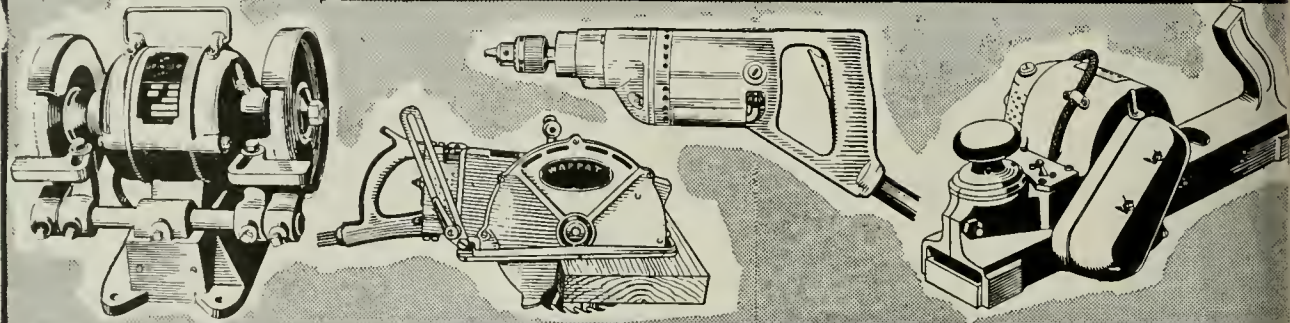
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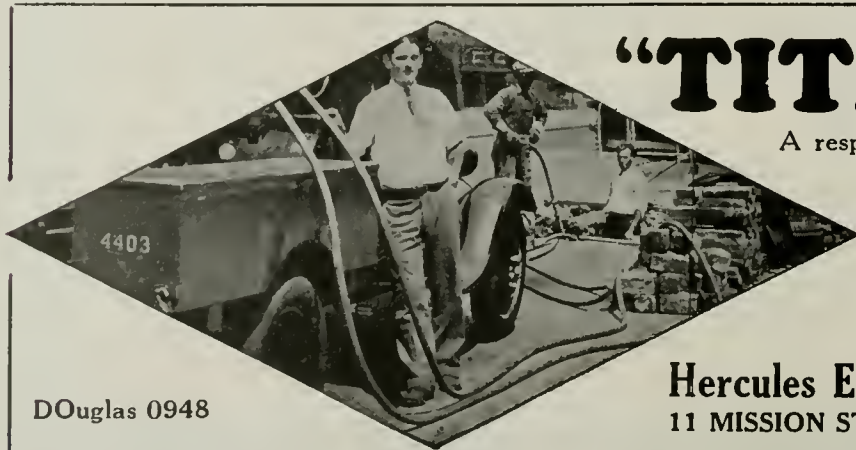
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SAN FRANCISCO, CALIF., SEPTEMBER 2, 1933

No. 33

WEBB DENIES PUBLIC WORKS TAX EXEMPTION

**Materials Sold to L. A. Projects
Held Subject to
State Levy**

The state sales tax should be assessed on material used in the Los Angeles Flood Control Project and the Metropolitan Water District project, Attorney General U. S. Webb advised the State Board of Equalization yesterday in response to an inquiry.

Though the terms of the law exempt "public works" from the tax, Webb held that projects such as irrigation, reclamation, and flood control districts, though public corporations, were not "public works" in the strict sense.

"In the absence of judicial ruling on the point," Webb said, "I am of the opinion that the term should be taken in the restricted sense."

He advised the board to levy the tax, and refund it later if a court decided that the broad meaning of "public works" should be applied. "The state must protect itself," he declared. "If the tax were not collected at the time of the sale, it would never be collected."

STEEL BOOKINGS STILL AT LOW LEVEL

Bookings of steel construction during July continued at the low rate established this year according to the final tabulation of returns. The shipments for the month were approximately 15 per cent below the average monthly shipments during the second quarter of this year and more nearly approximated the monthly shipments of the first quarter. The low record is due in large measure to the failure to date of the Federal Government to allow any credits for public works, says the Institute of Steel Construction monthly report.

KERN TO BUY ONLY FROM NRA DEALERS

Kern county has joined the list of public bodies requiring bidders on public contracts to conform to NRA requirements.

A resolution by the board of supervisors pledges the county to buy only from firms displaying the NRA emblem.

THE WEEK'S NEWS Highlights

STATE CODES.—Seven proposed codes for the construction industry and some of its many subdivisions are before administrators of the California Recovery Act this week.

Hearings held: Crushed Rock, Sand and Gravel Industry;

Hearings continued: Furnace Dealers and Sheet Metal Contractors of Northern California, Inc. (Tentatively adjourned to Saturday, September 2, 9 a. m.)

Hearings scheduled: California State Builders' Exchange basic contracting code, September 11, 10 a. m.; Retail Lumber and Lumber Building Material Industry of California, September 7, 10 a. m.

Hearings to be scheduled: Building Material Council of Northern California; California Reinforcing Steel Institute; Concrete Industry of Alameda and San Francisco; Water Heater and Gas Warm Air Heating Industry of California.

All hearings in San Francisco are held at the offices of the Corporation Commission, Room 219, State Building. Parties interested in attending hearings or wishing to file protests should address Commissioner of Corporations Edwin M. Daugherty.

NATIONAL CODES.—Hearings on the national construction industry basic code and supplemental codes are to start at Washington on September 6, according to latest information received in San Francisco by the Construction League of California. This is the state agency representing the Construction League of the United States, sponsors of a basic national code and supplemental codes reaching every branch of the industry, including architects and engineers.

BIDS ON FIRST FEDERAL WORK UNDER ESTIMATE

**Eleven Contractors Submit
Offers on National Forest
Grading Job**

Anticipated increases in road construction costs failed to materialize in contractors' bids submitted yesterday to the Bureau of Public Roads at the first local bid opening on a federal project since the "new deal" became fully operative.

The low bid, offered by George Pollock Company of Sacramento, at \$143,829 was more than twenty-five percent below the engineer's estimate of \$203,337 for the job of grading 6.2 miles of national forest road in Tuolumne county. Principal items include 275,000 cu. yds. unclassified excavation and 360,000 sta. yds. overhaul.

The four low bids were all under the estimated cost. Federal officials expressed surprise at the prices offered, pointing out that bids received on the first contracts advertised by the government in the neighboring states of Oregon and Nevada had been substantially in excess of the estimates.

Eleven bids were opened. They were submitted by contracting firms operating in both northern and southern California and by one Nevada company.

Following are the bids:

Geo. Pollock, Sacramento.....	\$143,829
Weymouth-Crowell Co., Los Angeles	185,317
Granfield, Farrar & Carlin, San Francisco	191,939
Fredrickson and Watson, Oakland	192,286
J. E. Haddock, Pasadena....	207,245
A. Teichert & Son., Sacto....	228,302
Mittry Bros., L. A.....	235,187
Isbell Const. Co., Carson City, Nevada	242,374
MacDonald & Kahn, S. F.....	242,906
Hass, Doughty & Jones, San Francisco	256,877
Hemstreet & Bell, Marysville	258,486
ENGINEER'S ESTIMATE..	203,337

U. S. READY TO AID MUNICIPAL UTILITY PLANTS

**Engineer Advised Government
Will Finance Proposed
Projects**

Funds for construction of public-ly-owned projects may be obtained from the Federal government, even though the planned development is to be in competition with existing privately-owned utilities, according to information received by Edward K. Hussey of the Hussey Engineering Corporation, Syndicate Building, Oakland.

A reply to an inquiry by Mr. Hussey was received from Philip B. Fleming, executive officer for Col. Waite, deputy administrator of public works.

The letter said:

"Public bodies are eligible for grants and loans for utilities projects even though there may be adequate existing private facilities.

"The President has not acted under Section 203 (d), other than to provide for leasing arrangements as indicated in Circular No. 1, Section 5, Page 3. Until he does, no opinion can be given as to its interpretation.

"The National Industrial Recovery Act provides that the United States Government must be reasonably secured. The kind of security public bodies have authority to give is a question of state law.

"Your attention is called to Article 5, Page 12, of Circular No. 1, which sets out various methods of financing public projects."

Mr. Hussey is consulting engineer on a number of proposed municipal utility projects in California, including a municipal water system in Selma. The Selma authorities are preparing an application for a federal loan of \$108,659 and a federal grant of \$46,568 for "construction, installation and completion of a complete up-to-date water system including wells, pumps, reservoirs and electric power transmission lines between pumping plants."

The present Selma water system is owned and operated by the San Joaquin Light & Power Corp.

HUMBOLDT COUNTY INCREASES WAGES

Humboldt county board of supervisors has adopted a wage scale for county labor, increasing wages an average of 8 percent, based on an 8-hour day and 44-hour week.

Following are the hourly rates: common labor, 43½c; truck driver, 55c; foreman, 68½c; man and team, \$1¼c.

ENGINEER NAMED TO AID TRASK ON PWA APPLICATIONS

Appointment of A. D. Wilder as northern California engineer for the state public works advisory board was announced yesterday at the offices of Justus Wardell, regional director of the works program.

Mr. Wilder will be the local representative of F. E. Trask of Los Angeles, state engineer for the public works administration. He probably will have offices at the State Building in San Francisco and applications for federal funds received from northern California agencies will be referred to him.

Mr. Trask is to be in San Francisco today for an informal conference with Mr. Wardell.

Mr. Trask is engineer for the state advisory committee who include Supervisor F. R. Havenner of San Francisco, E. F. Scattergood electrical engineer of the Los Angeles water and power board, and Hamilton H. Cotton, Los Angeles, chairman of the committee.

The conference will have to do with general administrative affairs and will not involve discussion of specific projects or possible allocation of funds, it was said.

FILING FEE FIXED FOR HOUSING PLANS

Applications to build housing projects under the Community Land Chest Act must be accompanied by a fee of one-half of one per cent of the estimated cost of the project, Attorney General U. S. Webb ruled yesterday in response to a query from Edwin M. Dougherty, Commissioner of Corporations

Dougherty, to whose office the fee is payable under the state law, asked Webb whether it was legal to collect the fee in advance, inasmuch as the applications of builders are often denied.

The act provides that plans and details of rentals and sale prices must be filed with the commissioner.

The commissioner, in considering the application, takes into account building ordinances, zoning laws, and everything which may affect the project.

Webb ruled that since the commissioner must do the same amount of work whether the job is approved or not, the fee must be collected at the time the plans are filed.

"The language of the act, which refers to the estimated cost of the project, clearly indicates that the fee is to be collected to advance," Webb declared.

NATIONAL TOTAL JULY BUILDING 8.6% OVER 1932

**Dun and Bradstreet Reports
Major Improvement In
Coast Cities**

Although building operations in July dropped 13.5 percent from June, they were 8.0 percent above those for July of last year. This followed a gain of 5.9 percent in June over the preceding year, the first such increase to be recorded in this series since April, 1929.

The total value of building permitted for, including new work and alterations, for 215 cities of the United States, as reported to Dun & Bradstreet, Inc., for the month of July, amounted to \$29,484,891, as compared with \$34,098,334 in June and \$27,150,469 for July of 1932.

New York city, five boroughs reporting, shows a total of \$4,512,233 during July, a decline of 56.2 percent from the preceding month's figure of \$10,304,501, but a rise of 27.9 percent over the \$3,528,000 recorded in July a year ago.

Omitting New York city it is found that building permit values were 5.5 percent higher than a year ago and 5 percent above the total for June. Last month's building permits for the 214 cities, excluding the metropolis, totalled \$24,972,563, as against \$23,793,833 during June and \$23,622,460 in July of last year.

The west central group of states showed the largest gain over a year ago, 114.7 percent, followed by a rise of 85.3 percent for the Pacific coast group. The south central group had an increase of 67.2 percent, mountain 18.8 percent and middle Atlantic 8.7 percent. As compared with the preceding month only three groups showed improvement, the south central, west central and Pacific groups.

EMPLOYMENT SERVICE TO OPEN OFFICES

Offices of the National Re-employment Service of the United States Department of Labor are to be opened in seven northern California counties shortly in addition to the offices in San Francisco, it was announced in Sacramento yesterday by Chas. W. Lyon, field representative of the service.

Counties to have offices are Yolo, Yuba, Amador, Calaveras, Tehama, Butte and Placer, according to Lyon. The Federal service will open offices only in counties where state offices are not operating, Lyon said.

Contractors on public works will be required to obtain labor from these bureaus.

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50,000 Men To Be Employed By Christmas On State Highway Work

California contractors will back the State Highway Commission to the limit in its program to have 50,000 men at work on highway construction and production of road building materials by Christmas.

Individual contractors and spokesmen for contracting groups yesterday declared the state's construction industry is ready to put men at work just as rapidly as contracts can be awarded. They made clear that there would be no obstacle within the industry to interrupt a steady flow of public money into the channels of trade through employment of labor and purchase of materials once the contracts are signed.

With \$6,000,000 worth of highway contracts now being advertised for opening the second and third weeks of September, State Director of Public Works Earl Lee Kelly has announced that he intends to award contracts for \$20,000,000 worth of highway work before December 25. This will involve advertising and letting of contracts at the rate of \$1,000,000 a week.

"The new program calls for opening of bids on \$4,380,000 worth of highway work September 13, 14 and 15; \$2,000,000 on September 20 and 21; \$2,000,000 on September 27, and \$1,000,000 a week thereafter until Christmas," Kelly stated.

Kelly declared 16,000 men will be given work directly on the highway construction. Allied industries, including cement, asphalt, machinery and others, will get work for 34,000 more from the highway millions, according to the director's estimates.

"Of every dollar spent, 90 cents will go directly or indirectly to labor," Kelly said. "In a \$20,000,000 program that means 4,500,000 man days of employment.

"Governor Rolph's purpose in speeding ahead highway work, instead of spreading it evenly over the 1933-35 biennium, is to provide labor with purchasing power necessary to make NRA successful.

"Public works is the most effective means of stimulating purchasing power. Every dollar earned by the laboring man goes for necessities. That keeps factories, food industries and other business going."

Under normal conditions California's \$34,000,000 highway construction program—including \$16,000,000 in federal funds—would be spread over a 24-month period. With the accelerated program announced by

Kelly only \$14,000,000 will be left for projects to be started in the 18 months beginning January 1.

Instructions were sent all district engineers to speed project surveys necessary before final specifications can be drawn in the Sacramento offices of the public works department.

As contracts are awarded and sent back to the districts for construction supervision, men laid off during recent months because of lack of work will be re-employed, Kelly said. Most of the thousands of jobs will come through contractors.

Emergency construction will be spread over all sections of the state. Fifty-two of 58 counties share in the budgeted work and this distribution will be adhered to. Contractors will be requested to employ men from local jobless ranks in the project area, the director declared. Such local employment is mandatory on projects financed from federal funds.

FIVE LICENSES SUSPENDED IN JULY

Licenses of five contractors were suspended during the month of July as a result of investigation of unethical practices, according to the report of Registrar Carlos Huntington.

A total of 55 cases were considered by the registrar. The complaints involved \$60,348.

The contractors' bureau filed 29 court complaints during the month and obtained convictions in 18 cases. Two cases were dismissed and nine are pending.

SCHOOL SURVEY TO BE EXTENDED BY S. F. BOARD

Directors to Order Examination of Three More Structures by Engineers

With a survey of the earthquake resistance of nineteen Class C school structures already in progress, the San Francisco Board of Education has decided to select three other schools of different structural types for inclusion in the survey.

The three schools selected will be typical of a number of others built on the same lines.

The survey was urged by Ira W. Coburn, chairman of the physical properties committee of the board, in order to determine as soon as possible the total amount of work necessary on San Francisco schools with a view to obtaining NRA funds.

The cost of the work necessary to make all buildings earthquake-proof has been roughly estimated at \$350,000.

The survey was originally begun by John B. Leonard, chief building inspector, at the order of the board following the Southern California earthquake.

Leonard, whose report covered the Adams School, taken as typical of the nineteen buildings now under examination, declared that the structures would not withstand severe horizontal shock, and recommended extensive strengthening of the frames.



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UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

6.237-MI. GRADING — SONORA PASS

TUOLUMNE COUNTY, Calif.—Geo. Pollock, P. O. Box 903, Sacramento, at \$143,829 submitted low bid to and recommended for award by U. S. Bureau of Public Roads, San Francisco, for grading 6.237 miles of Section C, Route 38, the Sonora Pass National Forest Highway, Stanislaus National Forest, involving:

- (1) 48 acres clearing;
- (2) 275,000 cu. yds. unclass. excav.;
- (3) 1,100 cu. yds. unclass. excavation, struc.;
- (4) 360,000 sta. yds. overhaul;
- (5) 6.237 miles finish earth graded rd.
- (6) 5,400 cu. yd. mi. haul backfill material;
- (7) 1 cu. yd. Class A concrete;

- (8) 36 cu. yds. Class B do;
- (9) 400 lbs. reinf. steel;
- (10) 178 lin. ft. 8-in. corr. metal pipe;
- (11) 150 lin. ft. 12-in. do;
- (12) 622 lin. ft. 18-in. do;
- (13) 2,212 lin. ft. 24-in. do;
- (14) 42 right of way monuments;
- (15) 7 type A spillway inlets;
- (16) 4 type-B do;
- (17) 7000 gals. liquid asph. road material;
- (18) extra work, \$200 lump sum.

Complete bids follow:
 (A) Geo. Pollock, Sacramento, \$143,829.00.
 (B) Weymouth-Crowell Co., Los Angeles, \$185,317.84.
 (C) Granfield, Farrar & Carlin, San Francisco, \$191,939.00.

- (D) Fredrickson & Watson, Oakland, \$192,286.30.
- (E) J. E. Haddock, Pasadena, \$207,245.30.
- (F) A. Teichert, Sacramento, \$228,302.75.
- (G) Mlitry Bros., Los Angeles, \$235,187.15.
- (H) Isbell Const. Co Carson City, \$242,374.70.
- (I) MacDonald & Kahn, San Francisco, \$242,906.95.
- (J) Hass, Doughty & Jones, S. F., \$256,877.10.
- (K) Hemstreet and Bell, Marysville, \$258,486.90.
- (L) Engineer's estimate, \$203,337.60.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)
(1)	\$430.00	\$470.00	\$200.00	\$3.00	\$375.00	\$250.00	\$350.00	\$300.00	\$320.00	\$300.00	\$350.00	\$400.00
(2)	.38	.53	.60	.57	.60	.72	.72	.75	.76	.80	.80	.60
(3)	1.00	2.00	1.50	2.00	1.50	2.00	1.50	1.50	2.00	1.20	2.00	1.50
(4)	.01	.01	.01	.02	.025	.01	.015	.02	.01	.02	.02	.015
(5)	500.00	320.00	300.00	200.00	500.00	250.00	650.00	300.00	350.00	300.00	300.00	300.00
(6)	.15	.08	.30	.15	.20	.15	.10	1.15	.12	.20	.25	.20
(7)	50.00	25.00	28.00	26.00	40.00	35.00	32.00	50.00	30.00	35.00	40.00	30.00
(8)	40.00	20.00	28.00	26.00	30.00	30.00	30.00	35.00	30.00	35.00	35.00	30.00
(9)	.07	.06	.07	.05	.06	.07	.06	.10	.07	.10	.08	.07
(10)	1.25	.80	.95	1.00	.85	1.25	1.20	1.25	1.00	1.00	1.00	1.00
(11)	1.50	1.00	1.20	1.25	1.15	1.40	1.50	1.50	1.40	1.25	1.30	1.20
(12)	2.00	1.70	1.50	1.80	1.70	2.00	1.75	1.85	2.00	1.75	1.60	1.75
(13)	2.50	2.60	2.15	2.65	2.55	2.75	2.25	2.70	2.50	3.00	2.30	2.50
(14)	3.00	3.00	3.00	2.50	3.00	3.00	4.00	4.00	3.00	3.00	3.00	3.50
(15)	25.00	12.00	20.00	15.00	15.00	15.00	35.00	15.00	20.00	15.00	20.00	15.00
(16)	30.00	20.00	30.00	25.00	25.00	25.00	35.00	25.00	25.00	25.00	28.00	20.00
(17)	.10	.06	.13	.12	.10	.10	.05	.10	.15	.15	.10	.07
(18)	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00

BRIDGES — GILA COUNTY, ARIZONA

GILA COUNTY, Ariz.—J. H. Corrigan and J. W. Trethewey, Miami, Ariz., at \$4801.60 awarded contract by U. S. Bureau of Public Roads, Phoenix, to construct two bridges on Sec. H, Rt. 12, Globe Holbrook National Forest Highway, Tonto National Forest, involving:

- (1) 231 cu. yds. unclass. excav., struc.;
- (2) 19.3 MFEM untr. timber;
- (3) 199 cu. yds. cem. rubble masonry;
- (4) 164 sq. yds. asph. seal coat (bridge floor);

Complete bids follow:

- (A) Corrigan & Trethewey, Miami, \$4801.60.
- (B) Paul Michaelson, Globe, \$4985.
- (C) Rogers & Ballard, Snowflake, \$5481.40.
- (D) Lee Frost, Joseph City, \$5606.55.
- (E) H. J. Hagen, Globe, \$5778.75.
- (F) H. J. Hagen, Globe, \$5778.75.
- (G) Ali Ariz. Eng. & Constr. Co., \$6533.50.
- (H) Lewis Bros., Phoenix, \$7691.
- (I) Engineer's Estimate, \$5433.85.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
(1)	\$ 2.00	\$ 1.25	\$ 2.00	\$ 2.00	\$ 4.00	\$ 2.00	\$ 2.00	\$ 7.00	1.25
(2)	72.00	60.00	90.00	48.50	63.00	100.00	75.00	100.00	60.00
(3)	14.00	16.75	16.00	19.50	17.75	19.00	22.00	20.00	19.50
(4)	1.00	1.25	.60	2.00	.65	.50	1.50	1.00	.65

GOLDEN GATE PARK ROADS — SAN FRANCISCO

SAN FRANCISCO — Pacific Pavements Co., 85 Barstow St., at \$26,796, submitted low bid to Department of Public Works to improve Golden Gate Park roads, involving:

- (1) 362,000 sq. ft. 2-inch asph. concrete wear. surf.;
- (2) 7000 sq. ft. 1½-in. do;
- (3) 5000 sq. ft. 8-in. waterbound macadam base;
- (4) 200 cu. yds. red rock;
- (5) 52 storm water inlets;

- (6) 5100 ft. 6-in V.C.P. culvert;
- (7) 5 seepage pits;
- (8) 1500 ft. 2-in. NEC conduit.

Complete bids follow:

- (A) Pacific Pavements Co., \$26,796.
- (B) A. G. Raisch, \$27,103.
- (C) Pacific States Constr. Co., \$27,429.
- (D) Fay Improv. Co., \$27,456.
- (E) C. L. Harney, \$28,384.
- (F) Eaton & Smith, \$29,320.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)
(1)	\$.06	\$.06	\$.0635	\$.0595	\$.062	\$.065
(2)	.05	.05	.055	.05	.06	.06
(3)	.04	.04	.03	.01	.04	.035
(4)	.90	1.00	1.00	1.65	1.50	1.00
(5)	23.00	30.00	22.00	32.00	35.00	35.00
(6)	.45	.48	.38	.53	.50	.50
(7)	6.00	5.00	5.00	5.00	10.00	5.00
(8)	.55	.40	.40	.53	.40	.40

SAN FRANCISCO. — Herman Lawson, 465 Tehama St., at \$2644.10 submitted low bid to Public Utilities Commission to lay 6- and 8-in. cast iron pipe in Alemany Boulevard between San Jose and Naglee (Section 1) and between Ocean Ave. and Seneca St. (Section 2), involving:

Section 1

- (1) 5050 lin. ft. excav. and backfill trench;
- (2) 40 cu. yds. add. excav. and backfill;
- (3) 50 sq. ft. add. pavement, remove and replace;
- (4) 105 tons install pipe and fittings;
- (5) 1010 ft. mlinerlead joints;
- (6) 20 bolted joints;
- (7) 400 sq. ft. repave street openings with asphalt concrete;
- (8) 300 sq. ft. repave sidewalk openings.

Section 2

- (1) 4100 lin. ft. excav. and backfill trench;
- (2) 40 cu. yds. add. exvac. and backfill;
- (3) 50 sq. ft. add. pave., remove and replace;
- (4) 110 tons install pipe and fittings;
- (5) 900 ft. mlinerlead joints;
- (6) 20 joints, bolted;
- (7) 200 sq. ft. repave street openings with asphalt concrete;
- (8) 100 sq. ft. repave sidewalk openings.

Complete bids follow:

- (A) Herman Lawson, (1) \$1440 (2) \$1204.10; total \$2644.10.
- (B) F. W. Snook, (1) \$1885.95 (2) \$1435.89; total \$3321.84.
- (C) E. J. Treacy, (1) \$2180.58 (2) \$1826; total \$4006.58.
- (D) S. F. Water Dept., (1) \$2368.00 (2) \$2005.50; total \$4373.50.
- (E) Fay Imp. Co., (1) \$2719.70 (2)

(Continued Col. 3, Page 7)

20.21-MI. HIGHWAY CONSTRUCTION - NYE CO., NEV.

NYE Co., Nev.—As previously reported, Dodge Construction, Inc., Fallon, at \$67,741.03, awarded contract by State Highway Dept. to construct 20.21 miles highway between 22 miles and 2 miles south of Beatty, Rt. 5, Sections B2, F & G, involving.

- (1) 52,500 cu. yds. rdwy. excav.;
(2) 27,011 sta. yds. overhaul;
(3) 4348 cu. yds. select borrow;
(4) 1590 cu. yds. struc. excav.;
(5) 16.72 ml. subgrade 18-ft. wide;
(6) 3.49 ml. subgrade 20 ft. wide;
(7) 5 cu. yds. remove concrete foundation;
(8) 49,200 cu. yds. cru. gravel or stone surf.;
(9) 141 cu. yds. class B concrete;
(10) 2690 lbs. reinf. steel;
(11) 128 lin. ft. 18-in. corr. metal pipe;

Table with 7 columns (A-G) and 16 rows of bid amounts for various construction items.

BUTTERFLY VALVES — BOULDER, CANYON, NEV.

BOULDER CANYON, Nevada—Bids for furnishing butterfly valves for the Boulder Power Plant, Boulder Canyon Project, Spec. No. 544, opened by Bureau of Reclamation, Denver, Aug. 25, as follows:

- SCHEDULE NO. 1
(1) one 120-in. dia. butterfly valve;
(2) four 168-in. do;
SCHEDULE NO. 2
(3) one 120-in. do, welded plate-steel;
(4) four 168-in. do;
SCHEDULE NO. 3
(5) one 120-in. do, comp. alloy cast-steel and welded steel-plate;
(6) four 168-in. do;
SCHEDULE NO. 4
(7) two 120-in. do, alloy cast-steel;
(8) four 168-in. do;
SCHEDULE NO. 5
(9) two 120-in. do, welded plate-steel;
(10) four 168-in. do;
SCHEDULE NO. 6
(11) two 120-in. do, comp. alloy cast-steel and welded plate-steel;

Table with 3 columns (A-C) and 18 rows of bid amounts for butterfly valves.

- (12) 1342 lin. ft. 24-in. do;
(13) 392 lin. ft. 30-in. do;
(14) 804 lin. ft. 36-in. do;
(15) 66 monuments;
(16) 20.21 ml. finish roadway.

- Complete bids follow:
(A) Dodge Constr., Inc., Fallon, \$67,741.03.
(B) A. Teichert & Son, Sacramento, Cal., \$79,106.12.
(C) Gibbons & Reed, Burbank, Cal., \$84,502.07.
(D) Jack Casson, Oakland, Cal., \$86,440.12.
(E) M. J. Bevanda, Stockton, Cal., \$98,077.74.
(F) Isbell Constr. Co., Carson City, \$104,519.35.
(G) Engineer's Estimate, \$75,703.73.

Table with 7 columns (A-G) and 16 rows of bid amounts for items 12-16.

- (12) four 168-in. do;
SCHEDULE NO. 7
(13) two 120-in. do, alloy cast-steel;
(14) 11 168-in. do;
SCHEDULE NO. 8
(15) two 120-in. do, welded plate-steel;
(16) 11 168-in. do;
SCHEDULE NO. 9
(17) two 120-in. do, comp. alloy cast-steel and welded plate-steel;
(18) 11 168-in. do.
Bidders follow:
(A) Hardie Tynes Mfg. Co., Birmingham, Ala.
(B) Bartlett Hayward Co., Baltimore.
(C) American Locomotive Co., Dunkirk, N. Y.
(D) Newport News Shipbuilding and Dry Dock Co., Newport News, Va.
(E) Lake Erie Engr. Corp., Buffalo.
(F) S. Morgan Smith Co., York, Pa.
(G) Baldwin Southwark Corp., Eddystone, Pa.

Table with 7 columns (A-G) and 18 rows of bid amounts for butterfly valves.

Table with 5 columns (A-E) and 8 rows of bid amounts for items 1-8.

LOS ANGELES, Cal.—As previously reported, Dravo Contracting Co., Dravo Bldg., Pittsburgh, Pa., submitted low bid to the Metropolitan Water District, Los Angeles, August 28, at \$967,827 to construct the East Eagle Mountain Tunnel and appurtenant works of the Colorado River Aqueduct, between Sta. 5879+31 and Sta. 5973+91. This tunnel is located in the Eagle Mountains about 43 miles easterly from Indio, in Riverside County, Calif. The work consists of the excavating and lining of a 16-ft. diameter water supply tunnel, approximately 1.79 miles, or 9460 ft., in length. The items are:

- (1) tunnel access works (lump sum);
(2) No. 12 in specifications;
(3) 103,900 cu. yds. exca. in tunnel;
(4) 50 cu. yds. excav. for tunnel enlargement;
(5) No item 5 in specifications;
(6) 27,000 cu. yds. conc. in tunnel;
(7) 200 M. ft. b.m. furnish and place permanent timbers in tunnel;
(8) 10 tons erect steel support in tunnel;
(9) 100 cu. yds. gunite coating of rock in tunnel;
(10) 40 conn. for grouting;
(11) 50 cu. yds. mix and place grout;
(12) 50,000 lbs. place reinf. steel;
(13) 10,000 cu. yd. mi. overhaul of concrete aggregates;
(14) 160 ton miles hauling steel.
(15) 305,000 ton miles hauling cement.

- The bids were:
(A) Dravo Contr. Co., Pittsburgh, Pa., \$967,827.
(B) Bates & Borland, Los Angeles, \$1,030,324.
(C) S. S. Magoffin Co., Inc., Adrian, Ore., \$1,116,240.

Table with 3 columns (A-C) and 15 rows of bid amounts for tunnel items.

SACRAMENTO, Calif.—A. Teichert & Son, P. O. Box 1118, Sacramento, at \$2488.80 submitted low bid to U. S. Engineer Office, Sacramento, to grade 642 lin. ft. subgrade and provide 1430 sq. yds. bituminous pavement to form a hard surfaced roadway over the hydraulic dredge fill near Capital Rice Mills on the west bank of the Sacramento river, 0.5 mile below the M St. bridge, involving:

- (1) 430 cu. yds. grading;
(2) 1430 cu. yds. bit. pave.;
(3) 1430 s. yds. sealcoat.
Complete bids follow:
(A) A. Teichert & Son, Sacto., \$2488.80
(B) J. R. Reeves, Sacto., 2596.19

PERMITS AND CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
629	Levin	Petersen	1000
630	Nelson	Owner	4000
631	Kuimellis	Owner	9500
632	Fialer	Commercial	1000
633	Nelson	Owner	4000
634	Morani	Owner	3000
635	Bartolini	Sbarboro	3000
636	Gravano	Quistad	2000
637	Rainier	Lindgren	16000
638	Allec	Bourdieu	1000
639	Bruce	Owner	1000
640	Allen	Nelson	1574
641	Bienfield	Owner	1000
642	Lyon	Owner	4000
643	Dahlberg	Owner	12000
644	Papenhausen	Owner	6000
645	Livingston	Ostlund	3000
646	Anza	Owner	3950
647	Burkhard	Bettancourt	8000
648	Cambridge	Burke	5000
649	Godin	Godin	3500
650	Nicholson	Jensen	1450
651	Godin	Godin	3500
652	Hills	Taylor	2000
653	Grahn	Owner	3000
654	Sangiaco	Owner	3000
655	Franceschi	Owner	4500
656	Easley	Leekins	5869
657	Jenkins	Owner	3000
658	Marvalle	Carasci	3000
659	Whitney	Owner	4500
660	Whitney	Owner	4500
661	MacClure	Anderson	1000

ALTERATIONS

(629) W POLK 137 N Broadway. Alter market. Owner—S. H. Levin, 25 Taylor St., San Francisco. Engineer—V. R. Gede. Contractor—H. L. Petersen, 731 Treat Ave., San Francisco. \$1000

DWELLING

(630) E TWENTY-FIRST AVE 400 N Ocean Ave. One-story and basement frame dwelling. Owner—F. Nelson & Sons, 2919 19th Ave., San Francisco. Architect—Not Given. \$4000

FLATS

(631) S UNION ST. 136 W Baker St. Two-story and basement frame (2) flats. Owner—L. Kuimellis, 2797 Union St., San Francisco. Architect—M. A. Sheldon, 681 Market St., San Francisco. \$9500

ALTERATIONS

(632) NO. 840 POST ST. Alter public garage. Owner—H. Fialer, 840 Post St., San Francisco. Architect—Not Given. Contractor—Commercial Constr. Co., 517 Call Bldg., San Francisco \$1000

DWELLING

(633) SE TWENTY-SECOND AND Ocean Aves. One-story and basement frame dwelling. Owner—F. Nelson & Sons, 2919 19th Ave., San Francisco. Architect—Not Given. \$4000

DWELLING

(634) S TWENTY-THIRD ST. 230 E Guerrero. One-story and basement frame dwelling. Owner—C. Morani, 3532 23rd St., San Francisco. Architect—Not Given. \$3000

DWELLING

(635) NE REVERE 250 SE Newhall. One-story and basement frame dwelling. Owner—L. Bartolini, 88 Cumberland

St., San Francisco. Architect—Not Given. Contractor—Sbarboro & Jorgensen, 207 Walnut St., San Francisco. \$3000

STORES

(636) N IRVING ST. 95 W 21st Ave.; one-story frame stores. Owner—P. Gravano. Architect—Not Given. Contractor—E. J. Quistad, 3666 22nd. \$2000

FOUNDATIONS

(637) NW BRYANT and Alameda; foundations for Class C malt house. Owner—Rainier Brewing Co., 1550 Bryant St. Engineer—L. Rosener, 233 Sansome. Contractor—Lindgren and Swinerton, Inc., 225 Bush St. \$16,000

ADDITION

(638) 1412 POLK ST.; addition to store and flat. Owner—J. Allec. Architect—Grimes and Schoening, 235 3rd Ave., San Mateo. Contractor—J. B. Bourdieu, 2625 20th. \$1000

ADDITION

(639) 1615 ULLOA ST.; addition to dwelling. Owner—Mrs. D. J. Bruce, 1615 Ulloa. Architect—Not Given. \$1000

REPAIRS

(640) 114 FAIROAKS; repair fire damage to dwelling. Owner—Mrs. G. Allen, Lakeview, Ore. Architect—Not Given. Contractor—A. Nelson, Inc., 242 Ocean Avenue. \$1574

ADDITION

(641) 530 18th AVENUE; addition to dwelling. Owner—D. A. Bienfeld, 666 Mission St. Architect—Not Given. \$1000

DWELLING

(642) W 25th AVE. 50 S Sloat; two-story and basement frame dwelling. Owner—A. R. Lyon, 401 Phelan Bldg. Architect—J. Anthony, Berkeley. \$4000

FLATS

(643) E WEST PORTAL 125 S Fourteenth Ave. Two two-story and basement frame (2) flats. Owner—E. Dahlberg, 1075 Holloway Ave., San Francisco. Architect—Not Given. \$6000 each

FLATS

(644) E WEST PORTAL 175 S Fourteenth Ave. Two-story and basement frame (2) flats. Owner—H. Papenhausen, 595 Victoria Ave., San Francisco. Architect—Not Given. \$6000

ALTERATIONS

(645) NO. 108 GRANT AVE. Alter beauty parlor. Owner—Livingston Bros., Premises. Architect—Not Given. Contractor—Ostlund & Johnson, 1901 Bryant St., San Francisco. \$3000

DWELLINGS

(646) E FORTY-SEVENTH AVE 103 S Geary St. Two one-story and basement frame dwellings. Owner—Anza Home Building Co., 631 47th Ave., San Francisco. Architect—Not Given. \$3950

DWELLING

(647) NE DARIEN WAY AND SAN Benito. Two-story and basement frame dwelling. Owner—Dr. W. G. Burkhard, % Contractor. Architect—C. Strothoff, 2274 15th St., San Francisco. Contractor—J. Bettancourt, 422 San Anselmo St., San Bruno. \$8000

DWELLING

(648) NE FORTY-EIGHTH AVE. & Judah St. One-story and basement frame dwelling. Owner—Ida Cambridge, 4620 Irving St., San Francisco. Architect—Not Given. Contractor—L. M. Bruce, 3553 Divisadero St., San Francisco. \$5000

DWELLING

(649) N VIRGINIA 79 W Coleridge. One-story and basement frame dwelling. Owner—Mrs. A. Godin, 586 Monterey Blvd., San Francisco. Architect—Not Given. Contractor—Geo. V. Godin, 586 Monterey Blvd. \$3500

ADDITION

(650) NO. 2841 VALLEJO ST. Addition to dwelling. Owner—D. V. Nicholson, Premises. Architect—F. H. Meyer and M. T. Jorgensen, 525 Market St., San Francisco. Contractor—G. P. Jenson, 320 Market St., San Francisco. \$1450

DWELLING

(651) N VIRGINIA 105 W Coleridge. One-story and basement frame dwelling. Owner—Mrs. A. Godin, 586 Monterey Blvd., San Francisco. Architect—Not Given. Contractor—Geo. V. Godin, 586 Monterey Blvd. \$3500

ELEVATOR

(652) NO. 2201 BRODERICK ST. Install elevator in dwelling. Owner—R. W. Hills, % Architect. Architect—G. W. Kelham, 315 Montgomery St., San Francisco. Contractor—Taylor & Jackson, 290 Tehama St., San Francisco. \$2000

DWELLING

(653) E TOCOLOMA ST. 186 N Blanken St. One-story and basement frame dwelling. Owner—W. H. Grahn, 2965 Mission St., San Francisco. Architect—Not Given. \$3000

DWELLING

(654) W THIRTY-SEVENTH AVE. — S Balboa St. One-story and basement frame dwelling. Owner—L. Sangiacomo, 759 37th Ave., San Francisco. Plans by L. Dallarso, 32 Jansen St., San Francisco. \$3000

DWELLING

(655) E CERVANTES BLVD. 90 N Avilla St. Two-story and basement frame dwelling. Owner—L. Franceschi, 100 Capra Way San Francisco. Architect—Not Given. \$4500

(656) N BELGRAVE 140 W Shrader; two-story and basement frame dwelling. Owner—C. C. Easley, % contractor. Architect—Miller & Warnecke, Financial Center Bldg., Oakland. Contractor—C. W. Leekins, 4481 Moraga, Oakland. \$5860

DWELLING
(657) E SHORT 55 S Market; one-story and basement frame dwelling.
Owner—R. J. Jenkins, 3133 Market St.
Architect—Not Given. \$3000

DWELLING
(658) W WOOL 50 N Eugenia; one-story and basement frame dwelling.
Owner—I. Marvalle, 34 Wool St.
Architect—C. S. McNally.
Contractor—V. Carasci, 2872 San Jose Avenue. \$3000

DWELLING
(559) SW THIRTY-FOURTH AVE. and Kirkham. One-story and basement frame dwelling.
Owner—Whitney Investment Co., Ltd. 36th Ave. and Kirkham Sts., San Francisco.
Architect—Not Given. \$4500

DWELLING
(660) NW THIRTY-FOURTH AVE. and Lawton St. One-story and basement frame dwelling.
Owner—Whitney Investment Co., Ltd. 36th Ave. and Kirkham Sts., San Francisco.
Architect—Not Given. \$4500

ADDITION
(661) NO. 847 THIRTY-THIRD AVE. Addition to dwelling.
Owner—A. MacClur, Premises.
Architect—Not Given.
Contractor—L. R. Andersen, 253 States St., San Francisco. \$1000

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
367	Perry	Rodger	2950
368	Associated	Peterson	2000
369	Oliver	Cederborg	15500
370	Gardner	Owner	1200
371	Cragmille	Owner	1000
372	Johnson	Hammarberg	4500
373	Cragmille	Owner	4000
374	Barthold	Baker	6174
375	Fox	Nunes	3250
316	Hastings	Owner	1400
317	Wright	Owner	8500
318	Lagorio	Benassini	5200
319	Cantador	Caskey	3000
320	Henteze	Sims	3500
321	Monez	Owner	2950

DWELLING
(367) NO. 1747 105TH AVE., OAKLAND. One-story 5-room dwelling.
Owner—R. E. Perry, 1753 105th Ave., Oakland.
Architect—Not Given.
Contractor—J. Carrol Rodger, 2012 38th Ave., Oakland. \$2950

STATION
(368) NO. 3498 FOOTHILL BLVD., OAKLAND. One-story steel service station.
Owner—Associated Oil Co., 2395 Webster St., Alameda.
Architect—Not Given.
Contractor—C. Norman Peterson, 1211 E-34th St., Oakland. \$2000

RESIDENCE
(369) NO. 44 KING AVE., PIEDMONT. Residence and garage.
Owner—E. L. Oliver, 60 King Ave., Piedmont.
Architect—Clarence Mayhem, 60 Acacia St., Piedmont.
Contractor—A. Cederborg, 1455 Excelsior Ave., Oakland. \$15,500

ALTERATIONS
(370) NO. 116 WILDWOOD GARDENS PIEDMONT. Alterations.
Owner—Wm. J. Gardner, Premises.
Architect—Noble and Archie Newsom. \$1200

GAS STATION
(371) 2990 SHATTUCK AVE., BERKELEY; brick gas station.
Owner and Builder—J. C. Cragmille, 2938 Shattuck Ave., Berkeley.
Architect—Ray F. Keefer, 770 Wesley Ave., Oakland. \$1000

DWELLING
(372) 810 EUCLID AVE., BERKELEY; 2-story 6-room frame dwelling and garage.
Owner—Carl Johnson, 2360 Cedar St., Berkeley.
Architect—Not Given.
Contractor—A. Hammarberg, 2340 Le Conte Ave., Berkeley. \$4500

GAS STATION
(373) 2996 SHATTUCK AVE., BERKELEY; super service gas station.
Owner and Builder—J. C. Cragmille, 2938 Shattuck Ave., Berkeley.
Architect—Ray F. Keefer, 770 Wesley St., Oakland. \$4000

DWELLING
(374) 534 ARLINGTON, BERKELEY; two-story 7-room frame dwelling and garage.
Owner—Roht. M. Barthold, 2501 Hildgard, Oakland.
Architect—Fabre & Hildebrand, San Francisco.
Contractor—W. J. Baker, 2255 Ransome Ave., Oakland. \$6174

DWELLING
(375) NO. 6224 CONTRA COSTA RD., OAKLAND. One-story five-room dwelling.
Owner—Geo. Fox, 3906 Fruitvale Ave., Oakland.
Architect—Not Given.
Contractor—G. W. Nunes, 5430 Diver St., Oakland. \$3250

ADDITIONS
(316) NO. 1806 EVERETT ST., ALAMEDA. Add two rooms and bath to frame dwelling.
Owner—Sam Hastings, Premises.
Architect—Not Given. \$1400

DWELLING
(317) NO. 1817 LEIMERT BLVD., OAKLAND. Two-story 9-room dwelling.
Owner—Wilmer Wright, 1110 98th Ave., Oakland.
Architect—Not Given. \$8500

DWELLING
(318) NO. 545 FIFTY-SEVENTH ST. OAKLAND. One-story eight-room dwelling.
Owner—A. Lagorio.
Architect—Not Given.
Contractor—Jos. Benassini, 1351 Addison St., Berkeley. \$5200

DWELLING
(319) NO. 4607-11 DAVENPORT AVE. OAKLAND. One-story six-room 2-family dwelling.
Owner—Mrs. M. Cantador, 3741 McClelland St., Oakland.
Architect—Not Given.
Contractor—H. T. Caskey, 4215 Carson St., Oakland. \$3000

BUILDING CONTRACTS

135 Burkhard Bettancourt 9775
136 Hadicke Akard 12950

DWELLING
(135) N DARIEN WAY and E San Benito Way N 52-50 E 100 S 24-749 SW 72-631 W 35 to beg ptn lot 4 blk 3255, map Balboa Terrace; all work on 2-story & basement frame residence.
Owner—Marie and Wm. G. Burkhard, 359 Fair Oaks St.
Architect—Charles F. Strothoff, 2274 15th Street.
Contractor—Jos. Bettancourt, 422 San

Anselmo Ave., San Bruno.
Filed Aug. 25, '33. Dated Aug. 25, '33.
When frame is complete..... \$2443.75
Brown coated 2443.75
When completed 2443.75
Usual 35 days 2443.75
TOTAL COST, \$9775
Bond, \$4887.50. Sureties, Chas. Monson & F. M. McNulty. Limit, 90 days. Plans and Spec. filed.

RESIDENCE
(136) NE BAKER & NORTH POINT Sts. All work for two-story and basement frame and stucco residence.
Owner—Charles G. and Mahel A. Hadicke, % Architect.
Architect—F. Frederic Amandes, 1879 18th Ave., San Francisco.
Contractor—W. C. Akard, 225 Cervantes St., San Francisco.
Filed Aug. 28, '33. Dated Aug. 22, '33.
2nd floor joists on..... \$1618.75
Composition roof on..... 1618.75
Brown coat plaster on..... 3237.50
Building completed 3237.50
Usual 35 days..... 3237.50
TOTAL COST, \$12,950.00
Bond, \$6500. Surety, American Surety Co. of New York. Limit, not later than Dec. 1, 1933. Forfeit, none. Plans and specifications filed.

ALAMEDA COUNTY

(56) Bowles Swanstrom 4984
57 Barthold Baker 6174

(56) W BROADWAY 50 N 17th St., Oakland. All work for additions and alterations.
Owner—Mary A. Bowles.
Architect—Edward T. Foulkes, 357 12th St., Oakland.
Contractor—Geo. Swanstrom, 1615 78th Ave., Oakland.
Filed Aug. 24, '33. Dated Aug. 23, '33.
On or before 10 of ea month.. 75%
When completed of cont. price 75%
Usual 35 days.....Balance
TOTAL COST, \$4984
Bond, \$2500. Surety, Fidelity & Deposit Co. Limit, Sept. 23, 1933. Forfeit, none. Plans and specifications filed.

DWELLING
(57) BEG at pt on Western line of Arlington Avenue northerly 596.13 from inter thereof with north line of San Antonio Ave thence north 30 deg 24 min east along western line of Arlington Ave. 50 ft. Oakland; all work on two-story and basement frame dwelling.
Owner—Robert M. Barthold.
Architect—Fabre and Hildebrand, 110 Sutter St., San Francisco.
Contractor—W. J. Baker, 2255 Ransome Ave., Oakland.
Filed Aug. 25, '33. Dated Aug 24, '33.
When sheathing is on..... \$1543
Rough coast plaster is on..... 1543
Completion 1544
Usual 35 days..... 1544
TOTAL COST, \$6171
Bond, \$3037. Sureties, S. Scammell & P. Breitkoff. Limit, 95 days. Plans and Spec. filed.

DWELLING
(323) NO. 615 SPRUCE ST., BERKELEY. One-story six-room frame dwelling.
Owner—Milton S. Bonds, 30 Halkin Lane, Berkeley.
Architect—Not Given. \$5000

DWELLING
(324) NO. 1806 YOSEMITE ST., BERKELEY. One-story five-room frame dwelling and garage.
Owner—C. E. Marsh, 1410 Spring Way, Berkeley.
Architect—F. L. Confer, 2312 Russell St., Berkeley.
Contractor—J. M. Walker, 1709 Grove St., Berkeley. \$4000

BUILDING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

1.—Apartments	Offices
2.—Bonds	11.—Ice and Cold Storage Plants
3.—Churches	12.—Power Plants
4.—Factories and Warehouses	13.—Public Buildings, Fire Houses and Jails
5.—Flats	14.—Residences
6.—Garages and Service Stations	15.—Schools
7.—Federal Buildings	16.—Banks, Stores and Theatres
8.—Club Buildings	17.—Wharves & Docks
9.—Hospitals	18.—Misc. Const.
10.—Hotels	19.—Misc. Supplies & Materials

1—APARTMENTS

Plans Being Figured—Bids Close Sept. 7th.

APARTMENTS Cost, \$20,000
VALLEJO, Solano Co., Calif. Marin Avenue.

Two-story and basement frame and stucco apartment building (four 4-room apts.) tile roof, gas hot air heating system, oak floors, wall beds, etc. and two-story detached residence (seven rooms) same construction as apartments.

Owner—Mr. O'Neal.

Architect—Chas. E. Perry, 514 Marin Ave., Vallejo.

Bids are being taken from a select list of contractors.

3—CHURCHES

HUNTINGTON PARK, Los Angeles Co., Cal.—Huntington Park voters defeated a \$95,000 bond issue at the August 22 election. Proceeds were to have been used for the construction of a new city hall. 2

Contract Awarded.

REBUILD CHURCH Cost, \$3500
OAKDALE, Stanislaus Co., Calif.
 Rebuild church (extend 25 ft.) rebuild old walls, stucco exterior, decorating, etc.)

Owner—St. Mary's Catholic Church.
 Architect—Not Given.

Contractor—Robertson & Doig, Oakdale.

SAN BERNARDINO, Cal.—Church of Jesus Christ of Latter Day Saints, 153 W Adams Blvd., Los Angeles, will probably proceed shortly with another unit to be added to their church plant at the NE corner of 9th and F Sts., San Bernardino. It will house a social hall and classrooms; reinforced concrete construction, stucco exterior, tile roof, etc. Estimated cost, \$75,000. Work will probably be handled by the owners. G. Y. Cannon, 1208 N Garfield, Pasadena, architect.

4—FACTORIES & WAREHOUSES

Additional Contracts Awarded.

FOUNDRY Cost, \$50,000
SOUTH SAN FRANCISCO, San Mateo Co., Cal. Tanforan Avenue.

One-story mill type foundry (steel and corrugated iron roof, concrete foundations, etc.)

Owner—American Brake Shoe and Foundry Co., 74 New Montgomery St., San Francisco.

Engineer—K. Thell, 580 Market St., San Francisco.

Sheet Metal—Forderer Cornice Works
 269 Potrero Ave., San Francisco.

Roofing—H. H. Robertson Co., 50 Hawthorne St., San Francisco.

Concrete bids will be taken in one week.

As previously reported, spur tracks awarded to A. D. Schrader, 234 Stuart St., San Francisco; steel sash and steel doors to Detroit Steel Products Co., 111 Sutter St., S. F.; glass and glazing to W. P. Fuller & Co., 301 Mission St., S. F.; grading to J. S. Baker, 740 Farrington Lane, Burlingame.

Contract Awarded.

WAREHOUSE Cost, \$10,000
STOCKTON, San Joaquin Co., Calif.
 West Weber Avenue.

Addition to warehouse (14,000 sq. ft.) wood frame, galv. iron, concrete floors, etc.

Owner—Schuler & O'Connell, 4 West Weber Ave., Stockton.

Plans by Owner.

Contractor—J. A. Allen, 22 S Sutter St., Stockton.

Planned.

REMODEL Cost, \$—
SALINAS, Monterey Co., Calif. North Main Street.

Remodel brewery (capacity of 250 barrels of beer per day).

Owner—Salinas Brewing Co. (William Voss in charge) Salinas.

Architect—Not Given.

Max Bayha, care Bayha Brewing Co., Los Angeles, and Geo. Silver, distributing agent in California for Nehi, are connected with the project. Further details will be announced at a later date.

LOS ANGELES, Calif.—Las Vegas Land & Water Co., 424 Pacific Electric Building, will start taking bids about Sept. 1 for the factory building to be erected at 3600 Mines Ave., in the Union Pacific Industrial tract, for the General Cable Corp., lessee. Bids will be opened about Sept. 10. E. C. Batty, architect, 424 Pacific Electric Bldg. Will be a one-story, Class D structure, 152x322 ft. in area; steel frame, brick and galvanized iron construction, composition monitor type roof, steel roof trusses, steel sash, plastered exterior, collapsible steel gates, steel rolling doors, cement floors, metal toilet partitions, gas radiators, steel lockers, etc. Cost, \$55,000. General Cable Corp. has a contract for furnishing cable for the Los Angeles Water and Power Bureau's 271-mile transmission line.

Contract Awarded.

WINERY Cost, \$25,000
RIPON, San Joaquin Co., Cal.

Brick winery (capacity of 250,000 gallons) brick walls, roof tile, concrete floors, insulation work, etc.

Owner—Franzia Bros., Yosemite Ave., Ripon.

Architect—Not Given.

Contractor—John Hackman, Borden Highway, Stockton.

Plans Being Completed.

BREW HOUSE Cost, \$100,000
STOCKTON, San Joaquin Co., Calif.
 626 N American Street.

Four- or five-story brick and steel brew house (40-ft. square, 90 ft. in height).

Owner—Eldorado Brewing Co. (A. D. Rothenbush), 626 N American St., Stockton.

Architect—Not Given.

Bids will be asked in about two weeks.

Sub-Contracts Awarded.

REPAIRS Cost, \$6000
OAKLAND, Alameda Co., Calif. 850 Forty-second Street.

Repair fire damage to plant.

Owner—Clorax Chemical Co., 850 42nd St., Oakland.

Contractor—C. Dudley DeVebiss, 354 Hobart St., Oakland.

Lumber and Mill Work—Loop Lumber Co., Broadway and Blanding, Alameda.

Plastering—J. D. Tyler.

Painting—N. V. Heathorn, 2059 Webster St., Oakland.

Electric—T. L. Rosenberg Co., 411 Webster St., Oakland.

Miscellaneous Iron—Herrick Iron Wks 18th and Campbell Sts., Oakland.

Shoring and Holding—H. B. Henderson, 224 Mountain Ave., Piedmont.

Painting Materials—Walter N. Boyser Co., 42nd and Linden, Oakland

Planned.

PLANT Cost, \$50,000
BREMERTON, Washington.

Rebuild lumber plant (replace one recently destroyed by fire).

Owner—Lofthus Lbr. Co. (Endre Loft-hus, owner) Bremerton,

Architect—Not Given.

Plans Being Completed.

BREWERY Cost, \$275,000
OAKLAND, Alameda Co., Cal. Location not given.

Reinforced concrete brewery (100,000 barrel capacity per year) 150 barrel kettles, etc.

Owner—Samarkand Brewing Co., 893 Folsom St., San Francisco.

Architect—O'Brien Bros. and W. D. Peugh, 333 Montgomery St., San Francisco.

Plans will be completed in about ten days.

Directors of the company include J. P. Rettenmayer, Paul L. Schmidt, Frank M. Kenny, Lee M. Olds, Philip H. Hess, L. A. Enge and Walter K. Olds, all of San Francisco.

STOCKTON, San Joaquin Co., Cal.—Consolidated Petroleum Distributors Co., 315 Montgomery St., San Francisco, applies for permit from San Joaquin Co. Board of Supervisors to construct a pipe line from Kettleman Hills to Stockton, estimated cost \$1,000,000. Project also involves construction of a \$1,500,000 refinery at Stockton on Rough and Ready Island.

Prospective Bidders.

FACTORY Cost, \$50,000
BERKELEY, Alameda Co., Cal. Sixty-third and Overland Sts.

Two-story steel frame factory (120x140 ft.) brick walls, concrete work, composition roofing, etc.

Owner—Peterson Tallow Co., 65th and Bay Sts., Oakland.

Engineer—E. W. Remnitz, 1594 63rd St., Oakland.

Following have procured plans:
 Geo. J. Maurer, 50 York Dr., Piedmont.

Fred J. Westlund, 625 40th St., Oakland.

S. G. Johnson, 4652 Dolores St., Oakland.

R. W. Littlefield, 337 17th St., Oakland.

Dinwiddie Const. Co., 2036 Shattuck Ave., Berkeley.

L. Price Const. Co., 1723 Webster St., Oakland.

Lindgren and Swinerton, Inc., 1723 Webster St., Oakland.

As previously reported, foundations and footings awarded S. G. Johnson.

4652 Dolores St., Oakland; structural steel to Herrick Iron Works, 18th and Campbell Sts., Oakland.

Bids Wanted—To Close Sept. 20, 2 P. M.

HEADQUARTERS BLDG \$—
SACRAMENTO, Sacramento Co., Cal. Addition to headquarters building (work involves excavation, concrete, masonry, carpentry, mill work, structural steel, sheet metal steel sash, roofing, painting, glazing, plumbing, and electrical installations).

Owner—State of California.
Architect—George B. McDougall, State Architect, Public Works Bldg., Sacramento.

Plans and specifications available from State Highway Engineer, Public Works Bldg., Sacramento, and may be seen at the Offices of the District Engineers at Los Angeles and San Francisco and at the Builders' Exchange, 420 E. 8th St., Los Angeles, and office of the Associated General Contractors 351 Balfour Bldg., San Francisco. Deposit of \$25 required for plans. Bids will be opened at the office of the State Highway Engineer, Public Works Bldg., Sacramento.

Preparing Plans.
BREWERY Cost, \$—
SANTA BARBARA, Cal. Anacapa St. Brewery (Spanish style).

Owner—Santa Barbara Brewing Co. Architect and Engineers—Edwards & Plunkett, 20 E. Figueroa St., Santa Barbara.

About two months will be required for preparation of the plans, following which bids will be taken. Directors of the corporation are Henning Bruhn Capt. W. C. Merkel, Jack W. Tarrant and B. C. Smith. A permit for the erection and operation of the plant was granted by the Santa Barbara city council on August 24.

Contract Awarded.
CANNERY Cost, \$15,000
SOQUEL, Santa Cruz Co., Cal.

Mushroom cannery (five mushroom buildings, each 36x104 feet); 19,000 square feet of bedding space each. Owner—Sierra Mushroom Co., Denver, Colorado (C. W. Savery and J. T. Young), Santa Cruz.

Plans by Owner.
Contractor—J. H. Broce, Rio Del Mar, California.

Additional Contracts Awarded.
FOUNDRY Cost, \$50,000
SOUTH SAN FRANCISCO, San Mateo Co., Cal. Tanforan Avenue.

One-story mill type foundry (steel and corrugated iron roof, concrete foundations, etc.)

Owner—American Brake Shoe & Foundry Co., 74 New Montgomery St., San Francisco.

Engineer—K. Theill, 580 Market St., San Francisco.

Spur Tracks—A. D. Schrader, 234 Stuart St., San Francisco.

Steel Sash and Steel Doors—Detroit Steel Products Co., 111 Sutter St., San Francisco.

Glass and Glazing—W. P. Fuller & Co., 301 Mission St., San Francisco

Bids will be taken on concrete in about eight days.

As previously reported, grading contract awarded to J. S. Baker, 740 Farrington Lane, Burlingame.

Planned.
BREWERY Cost, \$—
VALLEJO, Solano Co., Cal.

Improvements to building for brewery (1000 barrel capacity per day).

Owner—Vallejo Brewing Co. (Geo. J. Hatfield, 333 Montgomery St., San Francisco, in charge).
Architect—Not Given.

Articles of Incorporation were filed

with the State Corporation Commission and company capitalized for \$200,000.

Directors of the company are: Fred L. Esola, United States Marshal; Fred H. Heegler, Mayor of Vallejo; Fred B. Wood, chief counsel of the State Legislature; Herbert Waterman, former vice president of the Pacific National Bank and Frank Battaglin, Oakland business man.

Contracts Awarded.
FACTORY Cost, \$—
SAN FRANCISCO, Isalls Creek.

One-story corrugated iron factory (concrete foundations) approximately 200 feet in length.

Owner—George Windeler Co., Ltd., 8th and Hooper Sts., San Francisco.
Architect—Resing & McGuinness, 488 Pine St., San Francisco.

Concrete—Chas. Nelson & Sons.
Roofing—Malott & Peterson, 20th and Harrison Sts., San Francisco.

BERKELEY, Alameda Co., Calif.—H. J. Sattin, 2925 Hillegass Ave., Berkeley, awarded contract by Concrete Products Sales Co., Latham Square Bldg., Oakland, for the construction of bunkers and cement batching plant at the wharf under construction at Yerba Buena Island in connection with the Bay Bridge.

Plans Being Prepared.
BREWERY Cost, \$250,000
SAN FRANCISCO, Tenth and Bryant Streets.

Stock house, bottling house and enlarging of present brewery (Class A steel, concrete and brick construction).

Owner—Milwaukee Brewing Co., 490 Tenth St., San Francisco.
Engineer—Warren E. Murray, 908 Hayes St., San Francisco.

Bids will be asked in about two weeks.

Construction To Start Shortly.
PLANT Cost, \$50,000
SAN FRANCISCO, Washington St.

Two-story reinforced concrete printing plant.

Owner—Edward Barry Co., 32 Clay St., San Francisco.
Architect—H. A. Minton, 525 Market St., San Francisco.

Engineer—L. H. Nishkian, 525 Market St., San Francisco.

Contractor—David Paganini, 519 California St., San Francisco.
Sub-contracts will be awarded shortly.

As previously reported, piling awarded to M. B. McGowan, 74 New Montgomery St.; reinforcing steel to W. S. Wetenhall, 17th and Wisconsin Sts.

Plans To Be Prepared.
REBUILD PLANT Cost, \$—
NILES, Alameda Co., Cal. Fabrico.

Rebuild plant recently destroyed by fire.

Owner—Kraftile Co., Fabrico, Niles, (Clay Myers, Supt.)
Plans by Engineering Dept. of Owner.

Plans will be started when details arrive from Chicago office of owner.

CALIFORNIA.—It is proposed to construct three highway district headquarters buildings in Marysville, San Diego and Stockton in the near future. Buildings will cost approximately \$50,000 each. 4

Sub-Contracts Awarded.
FACTORY Cost, \$5000
OAKLAND, Alameda Co., Calif. 130 Fourth Street.

Two-story brick factory.
Owner—Pacific Cigar Box Co., 130 4th St., Oakland.

Architect—Not Given.

Contractor—Frank Vick, 300 8th St., Oakland.

Brick & Concrete—Rubenstein & Son, 668 8th St., Oakland.

Lumber—Sunset Lbr. Co., 400 High St., Oakland.

Steel Sash—East Bay Glass Co., 621 Sixth St., Oakland.

Glass—W. P. Fuller & Co., 259 10th St., Oakland.

5—FLATS

Contracts Awarded.
FLATS Cost, \$—
SAN FRANCISCO, Union St. 136 W Baker Street.

Two-story and basement frame and stucco flats (two 6-room flats) asphalt, gravel and terra cotta tile roof, steam heating, gas furnace, hardwood floors, canvas walls, hardwood trim, electric refrigeration, etc.)

Owner—Withheld.
Architect—Martin Sheldon, Monadnock Building.

Contractor—G. P. W. Jensen, 320 Market St., \$9,285.

Plumbing—Scott Co., 243 Minna St., \$1,220.

Electric—Decker Elec. Const. Co., 528 Bryant St., \$611.

Following bids received:
General Work

G. P. W. Jensen.....\$ 9,285
DeLuca & Son..... 9,685
J. Moriconi..... 10,124
Louie Sartoria..... 10,346

Plumbing
Scott Company\$1,220
M. Desiano 1,245
F. J. Klimm 1,339
Ernst & Sons \$1,339.50

Electric
Decker Elec. Co.\$611
Frank J. Klimm 627
B. J. Doherty 642
Strom & Smith 657
Radelfinger Bros. 672

To Be Done By Day's Work.
FLATS Cost, \$7000
SAN FRANCISCO, E West Portal 175 S 14th Ave.

Two-story and basement frame and stucco flats (2 flats).

Owner & Builder—H. Papenhausen, 955 Victoria St., San Francisco.
Architect—Not Given.

To Be Done By Day's Work.
FLATS Cost, \$6000 each
SAN FRANCISCO, E West Portal Ave. 125 S 14th Ave.

Two two-story and basement frame and stucco flats (2 flats).

Owner and Builder—E. Dahlberg, 1075 Holloway Ave., San Francisco.
Architect—Not Given.

6—GARAGES & SERVICE STATIONS

Contract Awarded.
SERVICE STATION Cost, \$5000
BERKELEY, Alameda Co., Cal. N.W. Shattuck Ave. and Ashy St.

Brick super-service station (terra cotta partition, part tile and composition roofing, etc.)

Owner—J. C. Cragmile, 2344 Webster St., Berkeley.

Plans by Ray Keefer, 770 Wesley St., Berkeley.
Contractor—Wiley T. Vaughn, 501 Weldon St., Oakland.

Contract Awarded.
SERVICE STATION Cost, \$2500
OAKLAND, Alameda Co., Calif. 3498 Foothill Blvd.

One-story steel service station.
Owner—Associated Oil Co., 2395 Webster St., Alameda.

Plans by Engineering Dept. of Owner.
Contractor—C. Norman Peterson, 1211 E 34th St., Oakland.

Electric Contract Awarded.
SERVICE STATION Cost, \$2500
OAKLAND, Alameda Co., Calif. 3498
Foothill Blvd.

One-story steel service station.
Owner—Associated Oil Co., 2395 Webster St., Alameda.

Plans by Engineering Dept. of Owner.
Contractor—C. Norman Peterson, 1211 E. 24th St., Oakland.

Electric—Kenyon Electric Co., 526 13th St., Oakland.

Owner Taking Bids.
GARAGE Cost, \$8000
SALINAS, Monterey Co., Cal.

One-story reinforced concrete garage 50x116 ft) concrete floors and walls, Summerbell trusses, steel sash, guarantee mineral roof, etc.
Owner—Mrs. Nellie Muller, Monterey Ave., Salinas.

Architect—Charles McKenzie, Twoby Bdg., San Jose.

Bids are being taken by the owner

7—FEDERAL BUILDING

WASHINGTON, D. C.—Until Sept. 11, 2 P. M., bids will be received by Treasury Department, for painting the plaster in the U. S. Post Office and Courthouse in Pocatello, Idaho. Specifications may be obtained from above office and from the Custodian at the building.

WASHINGTON, D. C.—Walter G. Warren & Co., Chicago, Ill., at \$545 submitted low bid to Treasury Department in connection with the furnishing and installing interior lighting fixtures at the U. S. Post Office at Yuma, Ariz. Following bids received: Walter G. Warren & Co., Chicago, \$545 Edwin F. Guth Co., St. Louis, Mo. 596 H. A. Framburg Co., Chicago, 612 C. F. Ferguson Elec Co., El Centro 670 Bids held under advisement.

Plans Completed.
POST OFFICE Cost, \$100,000
HAYWARD, Alameda Co., Cal. NE
Watkins and C Streets.

One-story and basement Class A concrete and brick Post Office.

Owner—United States Government.
Architect—Bliss & Fairweather, Balboa Bldg., San Francisco.

Final plans have been forwarded to Washington, D. C., for approval.

WASHINGTON, D. C.—H. J. McKinley, 9305 Burton Way, Beverly Hills, at \$975 awarded contract by Treasury Department for painting the plaster in the U. S. post office at Santa Ana, Calif. Complete bids published August 12.

SAN JOSE, Santa Clara Co., Calif.—Following equipment contracts approved by Treasury Department in connection with the construction of the U. S. Post Office Building at San Jose. W. J. Ochs, San Jose, general contractor:

Low-water cut-outs, Minneapolis-Honeywell Regulator Co.; gas water heater, Pittsburgh Water Heater Co.; boiler, Kewanee Boiler Co.; combination oil and gas burner, Ray Burner Company.

CALIFORNIA, Washington and Hawaii.—Public Works Administration has allotted funds in the amount of \$13,600,000 for Navy shore station work. Allotments include Mare Island Navy Yard to complete power plant, \$150,000; oil tank, submarine repair base, \$18,000. Naval Air Station, San Diego: Heating plant, \$160,000; improvement of water system, \$18,000; assembly shop, \$175,000; distributing and service lines, \$30,000. San Diego Naval Fuel Depot: Improvement of fuel storage tanks, \$40,000. Pearl Harbor, Hawaii: Naval station, \$4,500,000.

Puget Sound, Washington: Washington navy yard, \$1,455,000.

CALIFORNIA & NEVADA.—Funds have been allocated for public works in the Indian Service, with the following improvements contemplated:

California
Sacramento, Day school enlargement \$13,000
Hoopa Valley, Nurses' home..... 7,500
Physician's quarters 6,000
Johnson's day school..... 6,000
Mission day school addition..... 2,500

Alaska
Day school 60,000

Nevada
Walker River, hospital quarters and garage 15,000
Western Shoshone, cottage..... 3,500

SUNNYVALE, Santa Clara Co., Cal.—Bureau of Yards and Docks awarded the awning contract to Alameda Awning Shop, Santa Clara, at \$273.54 and the linoleum contract to D. N. & E. Walter, 562 Mission St., San Francisco, at \$481.70, in connection with the Naval Air Station, Sunnyvale; Spec. No. 7353.

Work includes the installation of awnings (canopy) an open terrace at Officers' Quarters "M" to "I", inclusive, and on linoleum flooring in kitchen, pantry, entry and closets in Officers' Quarters "A" to "I", inclusive.

8—CLUB BUILDINGS

Contract Awarded.
REMODELING Cost, \$—
HERCULES, Contra Costa Co., Cal.
Remodel Masonic Hall.
Owner—Pinole Lodge of Masons.
Architect—Not Given.
Contractor—Fred Haskins, Pinole.

Contract Awarded.
REMODEL HALL Cost, \$—
NICASIO, Marin Co., Calif.
Addition to hall building (addition to dance hall, dining room and kitchen)
Owner—Druid's Hall Association.
Architect—Not Given.
Contractor—Renatti Bros., Novato.

Preparing Working Drawings.
MEMORIAL Cost, \$54,000
WATSONVILLE, Santa Cruz Co., Cal.
Two-story reinforced concrete and structural steel Veterans' Memorial (90x170 ft.) will contain auditorium to seat 1500; club rooms, etc.; tile and composition roofing, hot air heating system, hardwood and tile floors, etc.
Owner—County of Santa Cruz.
Architect—A. W. Story, Pajaro Valley Bank Bldg., Watsonville.

Contract Awarded.
ALTERATIONS Cost, \$8000
CROCKETT, Contra Costa Co., Cal.
Second Ave. and Wanda St.
Alterations for lodge quarters.
Owner—J. D. E. S. Hall Association, Crockett.
Architect—Not Given.

Contractor—Karl S. Koller, Crockett.
Board of Trustees is composed of Antone Rose, Antonio Silva, B. R. Serpa, Manuel Serpa, J. J. Alvalar, Jerry Lunch and Thomas Hughes, all of Crockett.

9—HOSPITALS

To Seek Federal Aid.
HOSPITAL Cost, \$4,000,000
AGNEW, Santa Clara Co., Calif.
Ward buildings, treatment building, employees' building, etc.
Owner—State of California.
Architect—Not Given.
Agnew State Hospital's advisory board approved a hospital building program for which the Federal Government will be asked to contribute \$4,000,000.

10—HOTELS

Planned.
DECORATING HOTEL Cost, \$—
SACRAMENTO, Sacramento Co., Cal.
Fifth and J Streets.
Decorating and furnishing for hotel.
Owner—James L. Flanagan, Travelers Hotel, 5th and J Sts., Sacramento.
Architect—Not Selected.
Further details will be announced in thirty days.

11—ICE AND COLD STORAGE PLANTS

Sub-Contracts Awarded.
ICE DEPOT Cost, \$5500
GILROY, Santa Clara Co., Cal. Eighth and Monterey Streets.

One-story frame ice depot (insulated with Redwood Bark Fibre); 30x70 feet).

Owner—J. D. Johnston.
Plans by Engineering Dept. of Lessee.
Lessee—Union Ice Co., 354 Pine St., San Francisco.

Contractor—W. W. Williamson, 320 Market St., San Francisco.

Electric Wiring—Hollenbeck Electric Co., Gilroy.

Lumber and Miscellaneous Building Materials—Southern Pacific Milling Co., Gilroy.

Plumbing—Gilroy Hardware Company Gilroy.

12—POWER PLANTS

ANAHEIM, Orange Co., Cal.—City Council will apply for federal public works funds to aid in handing a new electrical distribution system in accordance with a survey prepared by Consulting Engineer J. E. Brown. The proposed lines will cost \$53,000, of which \$15,900 will be asked as a loan and the balance furnished from the general funds.

LOS ANGELES, Cal.—E. C. Nickel, 912 Micheltorena St., Los Angeles, awarded contract by the Metropolitan Water District, Aug. 26, at \$15,450, to construct an electric power transmission line. Spec. No. 40. The work to be contracted for consists of the construction of approximately 35 miles of 66,000-volt transmission line, located between the Southern California Edison Co.'s substation at Colton and the District's substation at Cabazon, in San Bernardino and Riverside Counties. Bids were opened Aug. 17.

13—PUBLIC BUILDINGS FIRE HOUSES & JAILS

SANTA PAULA, Ventura Co., Cal.—Santa Paula city council has given final approval to plans for the new city hall and the building to house the police and fire departments, to be constructed if the city's application for NRA funds is granted. The estimated cost of the city hall is \$42,250 and the other building, \$12,500. They will be reinforced concrete structures with tile roofing. R. S. Raymond, Box 545, Santa Paula, is the architect.

OCEANSIDE, San Diego Co., Cal.—Oceanside will make application at once for NRA funds with which to finance the proposed city hall and public library building to be built in Oceanside. Estimated cost of structure is \$26,000. Virgil Westbrook, San Clemente, architect. The city will also lay before government authorities designs for a proposed plunge and auditorium to cost \$60,000. Mr. Westbrook, in collaboration with Architect Wm. P. Lodge of San Diego, designed the plunge.

FILLMORE, Ventura Co., Cal.—The City of Fillmore has applied to the Federal Administration of Public Works for \$30,000 to finance the construction of a city hall. Robt. S. Raymond, Santa Paula, is the architect.

SACRAMENTO, Cal.—City of Sacramento will make application to NRA for \$150,000 public works program. Following projects are included in the program:
Construction of a \$70,000 addition to City Hall;
Construction of \$12,000 firehouse (Vallejo Way);
Installation of a \$200,000 fire alarm system.

CHULA VISTA, San Diego, Co., Cal.—Improvements outlined by the committee on public works of the Chula Vista Chamber of Commerce to be carried out under the national public works act, include a new city hall to cost \$25,000; addition of a wing to the library, \$10,000; recreation center, \$15,000, and a swimming pool, \$25,000.

Planned.
ARMORY Cost, \$—
SEATTLE, Wash. Site to be selected. New Armory.
Owner—City of Seattle.
Architect—Not Given.
A site for the new armory has been offered by Wm. A. Eastman & Co., on West Roy and West Mercer, Second and Third Aves., west comprising about 90,000 square feet. Cost, \$38,500.

Preparing Sketches.
MUSEUM & LIBRARY Cost, \$—
VENTURA, Ventura Co., Calif. County museum and library building.
Owner—County of Ventura.
Architect—Harold E. Burket, 455 East Main St., Ventura.

LOS ANGELES, Cal.—Los Angeles Playground and Recreation Department will submit plans soon to Mayor Shaw for the proposed auditorium to be erected in the civic center. The building would contain an auditorium to seat 15,000 persons, a convention hall with 125,000 sq. ft. of floor space, sports arena, and general recreational features. Cost of the structure is estimated at \$3,000,000. An application will be made for NRA funds with which to finance the project. Tentative plans were prepared by Architect Dwight Gibbs.

SAN JOSE, Santa Clara Co., Calif.—County of Santa Clara will make application to the Federal Administration of Public Works for \$469,363 to finance construction of a new county jail and additions at the county hospital and almshouse. Binder & Curtis, 35 W San Carlos St., San Jose, architects for the proposed county jail building.

SAN FRANCISCO—M. E. Vukicevich, 666 Mission St., at \$5743 for general work and Thomas Skelly, 1344 9th Ave., at \$2218 for plumbing and mechanical work awarded contract by Department of Public Works for remodeling the Adams School on Ellis street, between Van Ness Ave. and Polk St., for the Van Ness Avenue Police Station. Complete bids published August 24.

Site Selected.
CITY HALL Cost, \$20,000
MENLO PARK, San Mateo Co., Cal. Westerly Corner of Hoover St. and Oak Grove Ave. (100x130 ft.) One-story reinforced concrete city hall (wood interior, tile roof, concrete exterior walls, unit gas heating system, etc.)
Owner—City of Menlo Park (Fannie I. Kurtz, City Clerk).

Architect—A. A. Cantin, 557 Market St., and William Mooser, Monadnock Bldg., San Francisco, Associated.

Application for funds in the amount of \$20,000 has been made to the NRA.

14—RESIDENCES

To Be Done By Day's Work.
RESIDENCE Cost, \$5000
SAN FRANCISCO. SW 34th Avenue and Kirkham St.
One - story and basement frame and stucco residence.
Owner and Builder—Whitney Investment Co., Ltd., 36th Avenue and Kirkham Street.
Plans by Owner.

August 31, 1933

Contract Awarded.
RESIDENCE Cost, \$—
OAKLAND, Alameda Co., Calif. 6545 Liggett Drive.
One - story and basement frame and stucco residence (5 rooms).
Owner—Mr. Beery.
Architect—Not Given.
Contractor—W. A. Netherby, 3853 Lyman Road, Oakland.

Contract Awarded.
RESIDENCE Cost, \$4000
SACRAMENTO, Sacramento Co., Cal. 3980 Second Avenue.
One - story and basement frame and stucco residence (5 rooms).
Owner—Mrs. Harrison.
Architect—Not Given.
Contractor—J. D. Haworth, 2533 Burnett St., Sacramento.

Heating Contract Awarded.
RESIDENCE Cost, \$7600
OAKLAND, Alameda Co., Cal. Ocean View Drive.
Two-story and basement frame and stucco residence (8 rooms and 3 baths) Spanish type, tile and composition roof, gas heating system, tiled baths, hardwood floors, etc.
Owner—R. Lencioni.
Architect—W. E. Schirmer, Financial Center Bldg., Oakland.
Contractor—F. C. Stalte, 3449 Laguna St., Oakland.
Heating—M. C. Henry 1183 53rd St., Oakland.
Other awards previously reported. (1787) 1st rep. June 10, 1932. 7th rep. Aug. 11, 1933.

Contract Awarded.
ADDITION Cost, \$2000
SAN FRANCISCO. No. 2841 Vallejo Street.
Addition to frame residence (add 2 Owner—D. V. Nicholson, Premises.
Architect—F. H. Meyer and M. T. Jorgensen, 525 Market St., San Francisco.
Contractor—G. P. W. Jensen, 320 Market St., San Francisco.
Sub-bids will be taken within a few days.

Contract Awarded.
RESIDENCE Cost, \$5000
SAN FRANCISCO. NE Forty-eighth Ave. and Judah Street.
One-story and basement frame and stucco residence.
Owner—Ida Cambridge, 4620 Irving St., San Francisco.
Architect—Not Given.
Contractor—L. M. Bruce, 3553 Divisadero St., San Francisco.

Contract Awarded.
RESIDENCES Cost, \$4000 each
SAN FRANCISCO. N Virginia St. W Coleridge St.
Two one-story and basement frame and stucco residences.
Owner—Mrs. A. Godin, 586 Monterey Blvd., San Francisco.

Architect—Not Given.
Contractor—George V. Godin, 586 Monterey Blvd., San Francisco.

Plans Being Prepared.
RESIDENCE Cost, \$5000
EL CERRITO, Contra Costa Co., Cal. One-story and basement frame and stucco residence (4 rooms); cedar shake roof, gas heating system, hardwood floors, pine trim, etc.
Owner—Withheld.
Architect—Hardman & Russ, Berkeley Bank Bldg., Berkeley.
Bids will be asked in two or three weeks.

Plumbing Contract Awarded.
RESIDENCE Cost, \$10,000
SAN FRANCISCO. 19th Ave. 100 S Anza St.
Two - story and basement frame and stucco residence (11 rooms and 2 baths) tile roof, tiled baths and kitchen, hardwood floors and trim, hot water heating system or warm air fired boiler, etc.)
Owner—Withheld.
Architect—J. Lloyd Conrich, 214 9th Avenue.
Plumbing—Anderson & Rowe, 45 Belcher Street.

Sub-Contracts Awarded.
RESIDENCE Cost, \$6000
BERKELEY, Alameda Co., Cal. Arlington Avenue.
Two - story and basement frame and stucco residence (11 rooms and 2 baths) tile roof, gas heating system, hardwood floors, tiled baths, colored fixtures, etc.
Owner—R. Barthold, Jr.
Architect—Fabre and Hildebrand, 110 Sutter St., San Francisco.
Contractor—W. J. Baker, 2255 Ransome Ave., Oakland.
Lumber—Scammell Lbr. Co., foot of 9th Ave., Oakland.
Concrete—Allen MacDonald, 1539 39th Ave., Oakland.
Brick and Chimney Work—Paul Breitkopf, 2145 E 23rd St., Oakland.
Cabinet Work—L. J. Waistad, 2877 Hopkins St., Oakland.
Electric—E. L. Reed, 2541 Seminary Ave., Oakland.
Frames, Sash, Doors, Millwork—Clinton Mill & Lbr. Co., 701 4th Ave., Oakland.
Iron Work—Jas. Eandi, 1336 61st Ave., Oakland.
Plastering—W. B. Exline, 725 E 12th St., Oakland.
Plumbing—H. B. Carmichael, 1809 3rd Ave., Oakland.
Painting—J. T. Wall, 445 Athol Ave., Oakland.
Flooring—Chas. Josephson, 2140 Curtis St., Berkeley.
Tile—Meiring Tile Works, 1139 Addison St., Berkeley.

Sub-Contracts Awarded.
RESIDENCE Cost, \$5000
BERKELEY, Alameda Co., Cal. Santa Barbara Road and Arlington St.
One - story and basement frame and stucco residence (6 rooms) shingle roof, gas heating system, tiled bath, hardwood floors, canvas walls in bath and kitchen, etc.
Owner—Mrs. C. Mattison.
Plans by Mr. Confer.
Contractor—F. W. Confer, 5730 Keith St., Berkeley.
Lumber—Tilden Lumber Co., foot of University Ave., Berkeley.
Concrete—A. A. Johnson, 1280 Monterey Ave., Berkeley.
Steel Sash—Michel and Pfeffer Iron Works, Harrison and Tenth Sts., San Francisco.
Painting—Edward Lindorth, Berkeley.
Plastering—Harry L. Mortensen, 4060 E 18th St., Oakland.

To Be Done By Day's Work.
RESIDENCE Cost, \$5000
SAN FRANCISCO. E Cervantes Blvd.
90 N. Avilla.
Two - story and basement frame and
stucco residence.
Owner and Builder—L. Franceschi, 100
Capra Way.
Architect—Not Given.

Contract Awarded.
RESIDENCE Cost, \$5000
OAKLAND, Alameda Co., Calif. 901
35th Avenue.
One - story and basement frame and
stucco residence (6 rooms).
Owner—Mrs. Marie Hinteze, 902 35th
Ave., Oakland.
Architect—Not Given.
Contractor—H. F. Sims, 1939 Court-
land Ave., Oakland.

Sub-Bids Being Taken.
RESIDENCE Cost, \$9000
OAKLAND, Alameda Co., Calif. 1817
Leimert Blvd.
Two - story and basement frame and
brick veneer residence (9 rooms,
3 baths) tile roof, oil furnace, steel
sash, tile work, etc.

Owner and Builder—Wilmer Wright,
1110 98th Ave., Oakland.
Plans by W. W. Dixon, 1844 5th Ave.,
Oakland.

Rough carpentry is being done by
day's work. Concrete is to be poured
by Mr. Silvo, care owner. Sub-bids
are wanted on plumbing, electric wiring,
tile roof, oil furnace, steel sash,
etc.

Contract Awarded.
ELEVATOR Cost, \$2000
SAN FRANCISCO. No. 2201 Brod-
erick Street.
Installation of elevator in residence.
Owner—R. W. Hills, % Architect.
Architect—George W. Kelham, 315
Montgomery St., San Francisco.
Contractor—Taylor & Jackson, 290
Tehama St., San Francisco.

To Be Done By Day's Work By Owner
RESIDENCE Cost, \$—
Berkeley, Alameda Co., Cal. Crag-
mont District.
Two-story frame and stucco residence
(rustic exterior) (6 rooms); shingle
roof.
Owner—C. D. Pierce, % Architect.
Architect—E. L. Snyder, 2101 Shat-
tuck Ave., Berkeley.

Plans Being Figured.
RESIDENCE Cost, \$10,000
HILLSBOROUGH, San Mateo Co.,
Cal. Baileyna Road.
Two-story and basement frame and
stucco residence (8 rooms and 2
baths (shingle roof, gas heating
system, hardwood floors, tiled
baths, etc.
Owner—F. T. Covell.
Architect—E. L. Norberg, 407 Occl-
dental Ave., Burlingame.

Plans Being Completed.
RESIDENCE Cost, \$5500
BERKELEY, Alameda Co., Cal. Gold-
en Gate Avenue.
Two-story frame and stucco residence
(6 rooms) tile roof, gas heating
system, steel sash, hardwood floors
pine trim, etc.
Owner—Withheld.
Plans by F. W. Confer, 2812 Russe-
ll St., Berkeley.
Bids will be asked when financing
arrangements are completed.

Preparing Sketches.
RESIDENCES Cost, \$6000 each
BERKELEY, Alameda Co., Cal. Crag-
mont District.
Two two-story frame and stucco resi-
dences (6 rooms each) shake roof,
gas heating system, steel sash,
hardwood floors, pine trim, tiled
baths, etc.

Owner—Withheld.
Plans by F. W. Confer, 2812 Russell
St., Berkeley.

Preparing Sketches.
RESIDENCE Cost, \$6000
OAKLAND, Alameda Co., Cal. Oak-
more Highlands.

Two-story frame and stucco residence
(6 rooms) French style, shake
roof, gas heating system, hard-
wood floors, pine trim, steel sash
tiled baths, etc.

Owner—Withheld.
Plans by F. W. Confer, 2812 Russell
St., Berkeley.

Preparing Sketches.
RESIDENCE Cost, \$7000
OAKLAND, Alameda Co., Cal. Oak-
more Highlands.

Two-story frame and stucco residence
(7 rooms) (Spanish type) tile roof,
gas heating system, hardwood
floors, pine trim, steel sash, tiled
bath, etc.

Owner—Withheld.
Plans by F. W. Confer, 2812 Russell
St., Berkeley.

Preparing Sketches.
RESIDENCE Cost, \$4500
BERKELEY, Alameda Co., Cal. Rock-
ridge District.

One-story frame and stucco residence
(4 rooms) shake roof, gas heating
system, hardwood floors, tiled
baths, etc.

Owner—Withheld.
Plans by F. W. Confer, 2812 Russell
St., Berkeley.

Preparing Sketches.
RESIDENCE Cost, \$6500
OAKLAND, Alameda Co., Cal. Mer-
lewood District.

Two-story and basement frame and
stucco residence (6 rooms) French
style, brick veneer, steel sash,
hardwood floors, pine trim, steel
sash, etc.

Owner—Withheld.
Plans by F. W. Confer, 2812 Russell
St., Berkeley.

Sub-Contracts Awarded.
RESIDENCE Cost, \$7500
OAKLAND, Alameda Co., Cal. No.
1600 Mountain Blvd.

Two-story frame and stucco residence
(six rooms).

Owner & Builder—M. P. Brasch, 1795
Brandon St., Oakland.

Plans by W. W. Dixon, 1844 Fifth
Ave., Oakland.

Lumber—Scammell Lumber Co., Foot
of Ninth St., Oakland.

Millwork—Clinton Mill & Lumber Co.,
701 4th Ave., Oakland.

Electric—Diamond Electric Co., 2100
Hopkins St., Oakland.

Plumbing—P. H. Blake, 3400 Eden
Lane, Oakland.

Roofing—A. K. Goodmundson, 45th
Ave. at Clement St., Oakland.

Concrete—Frank Salamid, 5350 Ma-
nilla Ave., Oakland.

Plasetering—James D. Allison, 4130
Waterhouse Road, Oakland.

Owner Taking Bids.
RESIDENCE Cost, \$—
LIVERMORE, Alameda Co., Cal. SW
K and Seventh Sts.

One-story and basement frame and
stucco residence (5 rooms), com-
position and gravel roof, probably
gas furnace, hardwood floors,
mahogany trim, tiled bath, etc.

Owner—Harry Shenk, 142 East Ave.,
Livermore.

Plans by B. K. Dobkowitz, 425 Mont-
erey Blvd., San Francisco.

Sub-Bids Being Taken.
RESIDENCE Cost, \$—
HILLSBOROUGH, San Mateo Co.
Two-story and basement residence (10

rooms and 3 baths) shakes and
plaster exterior, shake roof, gas
heating system, hardwood floors,
etc.

Owner—Sydney Leibes.
Architect—William I. Garren, 233 Post
St., San Francisco.
Contractor—Moore & Roberts, 693
Mission St., San Francisco.

To Be Done By Day's Work.
RESIDENCE Cost, \$5000
SAN FRANCISCO. NW 34th Avenue
and Lawton Street.

One - story and basement frame and
stucco residence.

Owner and Builder—Whitney Invest-
ment Co., Ltd., 36th Avenue and
Kirkham Street.

Plans by Owner.

Contract Awarded.
RESIDENCE Cost, \$5000
BURLINGAME, San Mateo Co., Cal.
Oxford Road.

One-story and basement frame and
stucco residence.

Owner—H. B. Allen.
Architect—Not Given.

Contractor—Gordon Hess, 1446 Bur-
lingame Ave., Burlingame.

Sub-Bids Being Taken.
RESIDENCE Cost, \$6000
OAKLAND, Alameda Co., Cal. Idora
Tract.

Two-story frame and stucco residence
(8 rooms) tile roof, coal furnace,
iron work, wood sash, etc.

Owner—A. Lagorio.
Architect—Not Given.

Contractor—Joe Benasini, 1357 Addi-
son St., Berkeley.

Sub-bids are being taken on elec-
trical fixtures, wiring, brick work,
furnace, plastering and roofing.

Contract Awarded.
RESIDENCE Cost, \$7035
MOUNTAIN VIEW, Santa Clara Co.,
Calif. View and Church Sts.

Two-story frame and stucco residence
(9 rooms, 1 bath, 2 lavatories) tile
roof, steel sash, gas heating sys-
tem, tiled bath, hardwood floors
and trim, tile wainscoting, linole-
um floor in kitchen, tiled floors
in bath, etc.

Owner—C. Milani, 295 Castro Street,
Mountain View.

Architect—E. Reichel, 532 Emerson
St., Palo Alto.

Contractor—A. N. True, Mt. View.

Contract Awarded.
HEATING SYSTEM Cost, \$2000
LOS GATOS, Santa Clara Co., Cal.
Heating system for residence (B. T. S.
domestic water heater, steam
heating system, oil burner).

Owner—E. V. Ralsch.
Mechanical Engineer—Clarence H.
Bazille, 251 Kearny St., San Fran-
cisco.

Contractor—Fred Berryman, Santa
Cruz Ave., Los Gatos.

Contract Awarded.
RESIDENCE Cost, \$5000
WALNUT CREEK, Contra Costa Co.,
Cal. Walnut Blvd.

One-story frame residence (8 rooms,
1 bath, 3 showers) rustic siding,
shingle roof, individual heaters,
laundry, etc.

Owner—Mr. and Mrs. Reynolds.
Architect—Guy L. Brown, American
Bldg., Oakland.

Contractor—Mr. Waldrop, premises.

Contract Awarded.
RESIDENCE Cost, \$—
FAIRFIELD, Solano Co., Calif. Sac-
ramento and Suisun Streets.

Two-story frame and stucco residence
(5 rooms) English type.

Owner—Don Wilson, Fairfield.
Architect—Not Given.

Contractor—Sam Bingham, Fairfield.

Plans Being Prepared.
RESIDENCE Cost, \$8000
HEALDSBURG, Sonoma Co., Calif.
 1½-story frame and stucco residence
 (7 rooms, 2 baths) shingle tile
 roofing, wood furnace, wood sash,
 hardwood floor, pine trim, etc.
 Owner—Raford Jones.
 Architect—William Herbert Rosen-
 berg Bldg., Santa Rosa.
 Bids will be asked in about 2 weeks.

Contract Awarded.
RESIDENCE Cost, \$15,500
PIEDMONT, Alameda Co., Calif. 44
 King Avenue.
 Two-story and basement frame and
 stucco residence.
 Owner—E. L. Oliver, 60 King St., Oak-
 land.
 Architect—Clarence Mayhem, 60 Aca-
 cia, Oakland.
 Contractor—A. Cederborg, 1455 Ex-
 celsior, Oakland.

August 26, 1933

Sub-Contracts Awarded.
RESIDENCE Cost, \$—
BERKELEY, Alameda Co., Calif. 1800
 Yosemite Avenue.
 Two-story frame and stucco residence.
 Owner—Jos. Crumb, 1511 Posen Ave.,
 Berkeley.
 Architect—Not Given.
 Contractor—G. Petersen, 825 Evelyn
 Ave., Albany.
Lumber and Millwork—Sunset Lumber
 Co., 400 High St., Oakland.
Concrete—Axel A. Johnson, 1280 Mon-
 terey Ave., Berkeley.
Ornamental Iron—Ed Mueller's Orna-
 mental Iron Works, 1050 Folger St.
 Oakland.
Plumbing—Suendermann Plbg. Co. 921
 University Ave., Oakland.
Builders Finished Hardware—Sunset
 Hardware Co., 2104 Shattuck Ave.,
 Berkeley.
Brick—Paul Breitkopf, 2145 East 23rd
 St., Oakland.
Stone Work—Chas. Hanson, 1343 Hop-
 kins Court, Berkeley.
Hardwood floors—Charles Josephson,
 2140 Curtis St., Berkeley.
Painting—Pete Madsen, 2091 Califor-
 nia St., Berkeley.
Sheet Metal, Furnace—Ideal Heating
 Co., 5512 San Pablo Ave., Oakland.

Contract Awarded.
RESIDENCE Cost, \$5000
BURLINGAME, San Mateo Co., Cal.
 Bernal Avenue.
 One-story and basement frame and
 stucco residence (5 rooms) shingle
 roof, gas heating system, hard-
 wood floors, tiled bath, etc.
 Owner—M. S. Lyster.
 Architect—W. F. C. Gilliam, 1470
 Broadway, Burlingame.
 Contractor—R. A. White, 771 Edge-
 wood Road, San Mateo.

Sub-Contracts Awarded.
RESIDENCE Cost, \$8500
PIEDMONT, Alameda Co., Cal. Wild-
 wood Gardens.
 Two-story and basement frame and
 stucco residence (8 rooms) Span-
 ish type, tile roof, gas hot air
 heating system, hardwood floors,
 wood sash, etc.
 Owner—B. F. Lindgren.
 Architect—Miller & Warnecke, Finan-
 cial Bldg., Oakland.
 Contractor—J. W. Monroe, 5538 Clare-
 mont Ave., Oakland.
Lumber—Smith Lbr. Co. of Oakland,
 foot of 19th Ave., Oakland.
Plumbing—Ambrose Bros., 206 Chu-
 malia Ave., San Leandro.
Electric—W. E. Pabfield, 4159 Mas-
 terson St., Oakland.
Roofing—W. L. Saxby, 4538 Fleming
 Ave., Oakland.
Plastering—Herman Thorndyke, 2450
 E 21st St., Oakland.
Painting—Haynes Bros., 3025 Harper
 St., Berkeley.

Tile—Rigney Tile Co., 3012 Harrison
 St., Oakland.
Millwork—Sheehan - Ballard Planing
 Mill Co., 9th and Parker, Berke-
 ley.
Flooring—East Bay Hardwood Floor
 Co., 1822 Francisco St., Berkeley.
Rough Hardware—Maxwell Hardware
 Co., 1320 Washington St., Oakland
Sheet Metal, Furnace—M. C. Henry,
 1183 53rd St., Oakland.

Contract Awarded.
RESIDENCE Cost, \$—
SAN MARINO, Los Angeles Co., Cal.
 Oak Grove Avenue.
 Two-story and basement reinforced
 concrete residence (25 rooms; 77x
 150) reinforced concrete and tile
 construction, shake and shingle
 tile roof, cement plaster, concrete
 sub-floors, wrought iron, wood and
 metal sash, gas unit heating sys-
 tem, concrete tile garden wall,
 landscaping, etc.
 Owner—Dr. Mudd.
 Architect—R. D. Johnson, Architects'
 Bldg., Los Angeles.
 Contractor—Frank S. Hodge, Archi-
 tects Bldg., Los Angeles.

Contract Awarded.
RESIDENCE Cost, \$5000
BERKELEY, Alameda Co., Calif. 810
 Euclid Avenue.
 Two-story frame and stucco residence
 (6 rooms).
 Owner—Carl Johnson, 2360 Cedar St.,
 Oakland.
 Architect—Not Given.
 Contractor—A. Hammarberg, 2340 Le-
 Conte Ave., Berkeley.

Preparing Working Drawings.
RESIDENCE Cost, \$10,000
SAN FRANCISCO, Nineteenth Ave.
 100 S Anza St.
 Two-story and basement frame and
 stucco residence (9 rooms, 2 baths)
 tile roof, tiled baths and kitchen,
 hardwood floors and trim, hot wa-
 ter heating system or warm air
 fired boiler, etc.)
 Owner—Withheld.
 Architect—J. Lloyd Conrich, 214 9th
 Avenue.
 Owner will take plumbing bids.

Plans Completed.
RESIDENCE Cost, \$5000
SAN FRANCISCO, W 25th Avenue 50
 S Sloat Blvd.
 Two-story and basement frame and
 stucco residence.
 Owner—A. R. Lyon, 401 Phelan Bldg.
 Architect—J. Anthony, 1191 Oxford St.
 Berkeley.
 Architect—E. L. Snyder, 2101 Shattuck
 Ave., Berkeley.
 Contractor—J. M. Walker, 1709 Grove
 St., Berkeley.
Excavation—J. H. Harris, 2208 Roose-
 velt Ave., Berkeley.
Concrete—Axel Johnson, 1280 Monte-
 rey Ave., Berkeley.
Aggregates—Golden Gate Bldg. Ma-
 terials Co.
 Other awards reported Aug. 21.

Plans Being Completed.
RESIDENCE Cost, \$3250
CROCKETT, Contra Costa Co., Cal.
 One-story and basement frame and
 stucco residence (five rooms) de-
 tached garage, English style, shake
 roof, gas heating system, pine
 floors, etc.
 Owner—Glen L. Markeley.
 Architect—Mario Corbett, 683 Sutter
 St., San Francisco.
 Bids will be asked in about 1 week.

Contract Awarded.
RESIDENCE Cost, \$10,000
SAN FRANCISCO, Balboa Terrace,
 Darien Way and San Benito.
 Two-story and basement frame and
 stucco residence (8 rooms and 3
 baths) tile roof, gas heating sys-
 tem, canvas walls, hardwood floors

and trim, brick exterior, colored
 tiled baths, etc.)
 Owner—Dr. W. G. Burkhard, 359 Fair
 Oaks Street.
 Architect—Charles Strothoff, 2274 15th
 Street.
 Contractor—Joseph Bettancourt, 456
 Beach St., San Bruno.

Bids Opened.
RESIDENCE Cost, \$5000
BERKELEY, Alameda Co., Cal. Ber-
 keley Highland Terrace.
 Two-story frame and stucco residence
 (six rooms) English type, shingle
 roof, warm air gas heating sys-
 tem, hardwood floors, pine trim,
 steel sash, tile baths, etc.
 Owner—K. W. Archer.
 Architect—Hardman & Russ, Berkeley
 Bank Bldg., Berkeley.
 Low Bidder—W. Vernon Bernard, 3045
 Humboldt Ave., Oakland.
 Following bids received:
 W. V. Bernard, Oakland.....\$5489
 C. M. Norgrove, Berkeley..... 5990
 F. A. Kurtz, Oakland..... 6043
 Clarence Betz, Berkeley..... 6206
 David Nordstrom, Oakland..... 6622
 Conner & Conner, Berkeley..... 6668
 Bids held under advisement.

Contract Awarded.
RESIDENCE Cost, \$—
SAN FRANCISCO, NE Revere 250 S
 Newhall.
 One-story and basement frame and
 stucco residence.
 Owner—L. Bartolini, 88 Cumberland.
 Architect—Not Given.
 Contractor—Sbarboro & Jorgensen, 207
 Walnut Street.

Owner Taking Bids.
RESIDENCE Cost, \$4500
SAN FRANCISCO, Silver Terrace.
 One-story frame and stucco residence
 (5 rooms, 2 basements) tile roof,
 wrought iron railing, gas heating
 system, hardwood floors and trim,
 tiled baths, etc.
 Owner—M. Guglielmo, % architect.
 Architect—Mario Corbett, 633 Sutter
 Street.
 D. Delucchi & Sons, 3275 San Bruno
 Ave., is among the contractors figur-
 ing the plans.

Sub-Contracts Awarded.
RESIDENCE Cost, \$15,500
PIEDMONT, Alameda Co., Calif. 44
 King Avenue.
 Two-story and basement frame and
 stucco residence (9 rooms and 4
 baths) hand split shake roof, Ore-
 gon pine interior trim, gas hot air
 heating system, etc.
 Owner—E. L. Oliver, 60 King Street,
 Oakland.
 Architect—Clarence Mayhem, 60 Aca-
 cia, Oakland.
 Contractor—A. Cederborg, 1455 Ex-
 celsior, Oakland.
Lumber—Sunset Lbr. Co., 400 High
 St., Oakland.
Concrete—J. H. Fitzmaurice, 354 Ho-
 bart St., Oakland.
Excavating—Ariss-Knapp Co., 961 41st
 St., Oakland.
Plastering—Herman Thorndyke, 2450
 E 21st St., Oakland.
Plumbing—D. W. Durant, 492 Lake
 Park Ave., Oakland.

Sub-Contracts Awarded.
RESIDENCE Cost, \$6500
CONTRA COSTA CO., Cal. Woodmont
 One-story and basement frame and
 stucco residence (6 rooms) shingle
 roof, gas heating system, metal
 sash, hardwood floors, etc.
 Owner—T. K. Whipple, 904 Regal Rd.,
 Berkeley.
 Architect—E. L. Snyder, 2101 Shattuck
 Ave., Berkeley.
 Contractor—J. M. Walker, 1709 Grove
 St., Berkeley.
Excavation—J. H. Harris, 2208 Roose-
 velt Ave., Berkeley.

Lumber—Tilden Lbr. Co., foot of University Ave., Berkeley.

Concrete—Axel Johnson, 1280 Monterey Ave., Berkeley.

Aggregates—Golden Gate Bldg. Materials Co.

Grading Contract Awarded.

RESIDENCE Cost, \$10,000
SAN FRANCISCO. Balboa Terrace, Darien Way and San Benito.

Two-story and basement frame and stucco residence (8 rooms and 3 baths, tile roof, gas heating system, canvas walls, hardwood floors and trim, brick exterior, colored tiled baths, etc.)

Owner—Dr. W. G. Burkhard, 359 Fair Oaks St.

Architect—Charles Strothoff, 2274 15th Street.

Contractor—Joseph Bettancourt, 422 San Anselmo St., San Bruno.

Grading—L. Devenenzi & Co., 148 Blake St.

To Be Done By Day's Work.

RESIDENCES Cost, \$4000 each
SAN FRANCISCO. E Forty-seventh Ave. 103 S Geary St.

Two one-story and basement frame and stucco residences.

Owner and Builder—Anza Home Bldg. Co., 531 47th Ave., San Francisco.

Plans by Owner.

15—SCHOOLS

Contract Awarded.

SAN FRANCISCO—Empire Roofing Company, 4225 Army St., at \$46 awarded contract by Department of Public Works for five-ply tar and gravel roof over girls' shower in the Galileo High School.

SACRAMENTO, Cal.—Following bids received by the Sacramento Board of Education for the furniture for the school department:

(1) 145 oak side chairs, each;

(2) 155 Vienna chairs, each;

(3) 192 library side chairs, each.

F. E. Turner Co., San Francisco, (1) No. 85-NW, \$2.95, 12 days; (sample 1) \$2.95, 30 days; (290-NW) \$3.40. (2) No. 466AV, \$2.75, 12-20 days; (C-453A) \$2.60, 12-20 days; (Great Northern) \$2.75. (3) No. 85-1, \$2.95, 12 days; (sample 1) \$2.95, 30 days; (No. 290) \$3.40.

American Seating Co., Sacramento. (1) No. 85-1, \$2.95, 30 days, No. 290-1 \$3.40, 30 days; (2) No. 453 AV, \$2.60, 30 days, No. 466 AV, \$2.75, 30 days; (3) No. 85-1, \$2.95, 30 days, No. 290-1, \$3.40, 30 days.

Heywood Wakefield Co., San Francisco, (1) No. 290-1, \$3.40; (2) No. 453 AV, \$2.60, 30 days, No. 466 AV, \$2.75, 30 days; (3) No. 290-1, \$3.40, 30 days.

Rucker Fuller Co., San Francisco. (1) No. 85-1, \$2.95, 30 days, No. 417, \$3.40, 30 days; (2) No. 453 AV, \$2.60, 30 days, No. 366AV, \$2.75, 30 days; (3) No. 85-1, \$2.95, 30 days, No. 417, \$3.40, 30 days.

Munthe Equipment Co., San Francisco. (2) Great Northern - 801 - C or 113, \$2.75, 15 days.

Gill-Mann Co. (1) No. Standard 3563 \$3.30, 45 days; (2) Standard, \$3.25, 45 days; (3) Standard No. 5019, \$480, 45 days.

Bids held under advisement.

RENO, Nev.—Until Sept. 11, 7:30 P. M., bids will be received by J. D. Cameron, clerk, Reno School District, for repairing the South Side Grade School on South Center and Liberty Sts., Reno. Plans and specifications may be had at the office of the Superintendent of the high school buildings.

EXETER, Tulare Co., Calif.—Until Sept. 11, bids will be received by W. M. Smith, Principal, Exeter High

School, for reroofing bus garage at the high school.

WHITTIER, Los Angeles Co., Cal.—Until 12 o'clock noon, Sept. 16 (bids to be opened at 7:30 P. M., Sept. 18), bids will be received by the Whittier Union High School District for a new classroom and science building to be erected in Whittier in accordance with plans and specifications prepared by Architect R. L. Warren, Emporium Bldg., Whittier. Bids will be taken as follows:

(1) clearing of site, excavation and conc. work, waterproofing and damp-proofing and concrete foundation piles (2) steel joists; (3) miscellaneous and ornamental metal (4) roofing (5) sheet metal and skylights; (6) steel windows and operators; (7) carpentry (including alternate No. 2, page 42); (8) furring, lathing and plastering; (9) metal toilet partitions; (10) glass and glazing; (11) tile work; (12) painting; (13) acoustical treatment; (14) plumbing; (15) heating; (16) electrical work.

Certified, cashier's check or bidder's bond for 5% must accompany each bid. Bids are to be filed with the architect before noon, architect upon deposit of \$20. Marjorie L. McGregor, clerk. The building will be a 2-story, Class A structure, with reinforced concrete walls and floor and roof slabs, composition roofing, stucco exterior, steel sash, steam heat, etc. Estimated cost, \$100,000.

KENTFIELD, Marin Co., Cal.—Until Sept. 21, 8 P. M., bids will be received by Ada M. Fusselman, Secretary, Junior College Board, Marin Union College District, for a gas steam heating system in the Tamalpais Center Auditorium. Specifications available at the office of the President of the Marin Union Junior College at Kentfield.

BURLINGAME, San Mateo Co., Cal.—Bush Roofing Co., 359 B St., San Mateo, at \$684 awarded contract by San Mateo Union High School District for repairs to the roofs at the Burlingame High School. Following is a complete list of the bids:

Bush Roofing Co., San Mateo.....\$684.00
*Malott & Peterson, S. F..... 600 00
Ajax Roofing Co., Burlingame..... 692.70
Empire Roofing Co., S. F..... 698.50
Jack Johnson Roofing Co., S. F. 698.50
Knight Roofing Co., S. F..... 700.00
J. L. Montgomery & Son, San Mateo 711.17
Alta Roofing Co., S. F..... 746.80
Izmiriam Roofing Co. San Mateo 790.00
Bender Roofing Co., S. F..... 845.00
*Bid not according to specifications.

SANTA ROSA, Sonoma Co., Cal.—Standard Fence Co., 1940 San Bruno Ave., San Francisco, at \$2,468 awarded contract by Santa Rosa Junior College District for fencing the athletic field of the Santa Rosa Junior College.

Plans Completed.
SCHOOL Cost, \$20,000
RICHMOND, Contra Costa Co., Cal. Reinforcement of Roosevelt Junior High School.

Owner—Richmond Union High School District.
Architect—Louis Stone, 93 Ramona St., Piedmont.

Plans have been forwarded to Sacramento for approval.

16—BANKS, STORES AND OFFICES

Stair Contract Awarded.
STORES Cost, \$11,500
SAN FRANCISCO. W Ninth Street 166 S Mission Street.
One-story and mezzanine floor Class C reinforced concrete store build-

ing (tar and gravel roof, concrete and wood floors, etc.)

Owner—L. Meyers, 68 Post Street.

Architect—Hyman & Appleton, 69 Post Street.

Contractor—Jacks & Irvine, Call Bldg. Stairs—J. Di Cristina & Son, 3150 18th Street.

Other awards reported August 23.

Contracts Awarded.

ALTERATIONS Cost, \$—
OAKLAND, Alameda Co., Calif. 442 17th Street.

Alterations for beauty salon.
Owner—McCann Beauty Salon, 2030 Broadway, Oakland.

Architect—Not Given.
Electric—Kenyon Electric Co., 526 13th St., Oakland.

Plumbing—W. J. Mulgrew, 173 Santa Clara Ave., Oakland.

Sub-Contracts Awarded.

LIBRARY Cost, \$4500
OAKLAND, Alameda Co., Cal. No. 724 Fourteenth St.

One-story Class C library.
Owner—Oakland Jewish Federation, 724 14th St., Oakland.

Architect—Not Given.
Contractor—F. A. Muller, Syndicate Bldg., Oakland.

Window Frames—Universal Window Co., 950 Parker St., Berkeley.

Sheet Metal—Christensen & Grutsch, 444 Piedmont Ave., Oakland.

Plumbing—A. Feldhammer, 1004 Park St., Alameda.

Millwork—Lannon Bros., Planing Erick Co., 5th and Magnolia, Oakland.

Brick, Concrete—K. Rubenstein, 668 8th St., Oakland.

As previously reported:
Structural Steel—Judson-Pacific Co., Foot of Park Ave., Emeryville.

Reinforcing Steel—W. S. Wetenhall, 17th and Wisconsin Sts., S. F.

Plastering—Vincent Patta, 5558 Claremont Ave., Oakland.

Low Bidder.

STORES & OFFICES Cost, \$30,000
CROCKETT, Contra Costa Co., Cal.

Two-story and basement reinforced concrete and structural steel store and office building (composition roof, steel sash, steam heat, etc.)

Owner—L. Valli, Crockett.

Architect—Chas. E. Perry, 514 Marin Ave., Vallejo.

Low Bidder—David Paganini, 519 California St., San Francisco.

Contracts Awarded.

ALTERATIONS Cost, \$3000
SAN FRANCISCO. No. 108 Grant Avenue.

Alterations to beauty parlor in store.
Owner—Livingston Bros., 108 Grant Ave., San Francisco.

Architect—Not Given.

Contractor—Ostlund & Johnson, 1901 Bryant St., San Francisco.

Linoleum—Van Fleet Freear Co., 557 Howard St., San Francisco.

Electric Wiring—Victor Lemoge, 281 Natoma St., San Francisco.

Plumbing, Heating and Ventilating—O'Mara & Stewart, 218 Clara St., San Francisco.

Plastering—A. W. Cordes, 666 Mission St., San Francisco.

Plans Being Completed.

STORE Cost, \$50,000
EUREKA, Humboldt Co., Cal. Fourth and F Streets.

One-story, mezzanine floor and basement reinforced concrete store building (24,500 square feet of floor space).

Owner—Domingo A. Zanone.
Plans by Engineering Dept. of Montgomery Ward & Co., Chicago.

Lessee—Montgomery Ward & Co., Chicago.

Bids will be asked in about three weeks.

Plans Being Prepared.
REMODEL STORE Cost, \$—
SALINAS, Monterey Co., Cal. Main and Alisal Streets.
 Remodel store building, new fixtures and equipment, etc.)
 Owner—Not Given.
 Plans by Engineering Dept. of Lessee
 Lessee — Montgomery Ward & Co., Chicago, Ill.

Contract Awarded.
STORE Cost, \$2000
SAN FRANCISCO. N Irving St. 95 W 21st Ave.
 One-story frame store building.
 Owner—P. Gravano.
 Architect—Not Given.
 Contractor—E. J. Quistad, 3666 22nd Street.

August 25, 1933

Sub-Contracts Awarded.
STORE Cost, \$5000
SAN FRANCISCO. N Fifteenth St. 25 E Minna St.
 One-story Class C concrete store building (32x90 feet); composition roof, concrete floors, steel sash, miscellaneous iron, mill work, plumbing, electrical work, glass and glazing, etc.
 Owner—H. Morgan, 2821 16th St., San Francisco.
 Architect—Arnold Constable, 580 Market St., San Francisco.
 Engineer—S. Hodes, 536 Shrader St., San Francisco.
 Contractor — Larsen & Larsen, 629 Bryant St., San Francisco.
Steel Windows and Reinforcing Steel
 Soule Steel Co., 1750 Army St., San Francisco.
Plumbing—J. E. O'Mara, 218 Clara St., San Francisco.
 (2391) 1st report Aug. 9, 1933 16

August 25, 1933

Owner To Ask Lighting Fixture Bids.
ALTERATIONS Cost, \$5000
OAKLAND, Alameda Co., Cal. No. 3105-3107 E-14th Street.
 Alterations to building for cabaret (carpentry, partition work, fixtures, hardwood floors, linoleum, decorating, etc.)
 Owner — Sam Neider, 3927 Edgemore Place, Oakland.
 Plans by Unit Built Fixture Co. (Leo Roselyn), 963 Harrison Street, San Francisco.
 As previously reported, wood fixtures awarded to the Unit Built Fixture Co., 963 Harrison St., San Francisco, and carpentry work to Peterson & Son, Oakland.
 Owner will ask lighting fixture bids next week.
 (2861) 1st report Aug. 7, 1933. 16

August 25, 1933

Glass Contract Awarded.
STORE Cost, \$50,000
SAN FRANCISCO. No. 1041 Market Street.
 Seven-story Class C steel and concrete store.
 Owner—Weinsteln Co. (Isidor Weinsteln, President), 1041 Market St.
 Architect—Hymon & Appleton, 68 Post St., San Francisco.
 Engineer—H. Rosenthal, 821 Market St., San Francisco.
 Contractor—Jacks & Irvine, Call Bldg., San Francisco.
Glass—W. P. Fuller & Co., 301 Mission St., San Francisco.
 (1597) 1st report May 24; 11th Aug. 18, 1933. 16

Planned.
ALTER STORE Cost, \$6000
MODESTO, Stanislaus Co., Cal. Tenth Street, Bet. J and K Streets.
 Remodel store building (install elevator, new store fronts, decorating, painting, partition work, etc.)
 Owner—Rosenthal Building.

Architect—Not Given.
 Lessee—E. R. Hawke, 115 Magnolia St., Modesto.

Plans Being Completed.
REBUILD STORE Cost, \$15,000
TURLOCK, Stanislaus Co., Cal. Main and Center Streets.
 Rebuild one-story brick store (recently destroyed by fire).
 Owner—E. B. Osborne, Turlock.
 Architect—G. N. Hilburn, 1312 I St., Modesto.
 Bids will be taken in about 1 week.

Contract Awarded.
ADDITION Cost, \$1500
SAN FRANCISCO. 1412 Polk Street.
 Addition to store and flats.
 Owner—J. Allec.
 Plans by Grimes & Schoening, 235 3rd Ave., San Mateo.
 Contractor—J. B. Bourdieu, 2625 20th Street.

Low Bidder.
STUDIO Cost, \$8000
BERKELEY, Alameda Co., Cal. Telegraph Ave. S Parker St.
 One- and two-story frame and stucco studio (36x72 feet) tile and flat roof, oak and pine flooring, etc.
 Owner—Madame Sonia Poppic, 2283 Telegraph Ave., Berkeley.
 Architect—James Plachek, Mercantile Bank Bldg., Berkeley.
 Low Bidder—Walter Sorensen, 2940 Piedmont, Berkeley.

Plans Being Completed.
BUILDING Cost, \$15,000
FRESNO, Fresno Co., Cal. N Fulton St. near Sumner Ave.
 Two-story concrete, frame and stucco medical office building (70x80 ft.) 20 rooms and five-room apartment (flat composition roof, gas heating system, etc.)
 Owner—Dr. Roscoe F. Wallace, Fresno
 Architect—Chas. E. Butner, Cory Bldg. Fresno, and Glikbarg Bldg., Salinas.
 Bids will be asked in one week.

Additional Sub-Contracts Awarded.
MARKET Cost, \$17,000
SAN FRANCISCO. Polk Street 100 S Vallejo Street.
 One-story and mezzanine floor reinforced concrete market.
 Owner—Samuel Levin, 25, Taylor St.
 Engineer—H. C. Britt, care Henslee Corporation.
 Lessee—Henslee Corp., 366 17th Street, Oakland.
 Contractor—H. L. Petersen, 731 Treat Avenue.
Ornamental Iron—Frauneder Orn. Iron Works, 335 8th St., Oakland.
Mill Work—Herring and Nutting, 750 Florida Street.
 Other awards reported Aug. 12.

Sub-Bids Being Taken.
REMODEL CAFE Cost, \$18,000
SAN FRANCISCO. 2555 Great Highway.
 Remodel cafe (wiring, plumbing, plastering, painting, decorating, etc.)
 Tait's-at-the-Beach.
 Owner—Weissbein Bros., 582 Market.
 Architect—S. Heiman, 605 Market St.
 Contractor—Theo. Cohn, Russ Bldg.
Decorating—M. Cohn, premises.

Bids Opened.
STORES AND LOFTS Cost, \$—
SAN JOSE, Santa Clara Co., Cal. Market and San Fernando Sts.
 Two-story steel frame and concrete store and loft building (60x75 ft.)
 Owner—Robert F. Benson, 89 S-Market St., San Jose.
 Architect—Binder & Curtis, 35 W-San Carlos St., San Jose.
 Low Bidder—Chas. A. Thomas, 127 Clayton Ave., San Jose.
 Following bids received:

Chas. A. Thomas, San Jose.....\$16,990
 H. A. Bridges, San Jose..... 17,755
 Megna & Newell, San Jose..... 18,491
 Paul Anderson, San Jose..... 20,290
 Pacific Truck Service, S. J..... 20,942
 E. Nommensen, San Jose..... 21,565
 Bids held under advisement.

Contract Awarded.
ALTERATIONS Cost, \$3000
OAKLAND, Alameda Co., Cal. No. 1907 Broadway.
 Alterations to jewelry store.
 Owner—Albert M. Samuels, 1607 Grand Ave., Oakland.
 Architect—Albert J. Evers, 525 Market St., San Francisco.
 Agent—Coldwell, Cornwall & Banker, Financial Center Bldg., Oakland.
 Contractor—Wibur Cone, 1605 Jefferson St., Oakland.

SAN FRANCISCO—Pacific Elevator & Equipment Co., 45 Rausch St., at \$2134 submitted only bid to Department of Public Works for the installation of freight elevator in the Civic Auditorium.

Specifications being Written.
BUILDING Cost, \$15,000
FRESNO, Fresno Co., Cal. N Fulton St. near Sumner Ave.
 Two-story concrete, frame and stucco medical office building (70x80 ft.) 20 rooms and five-room apartment (flat composition roof, gas heating system, etc.)
 Owner—Dr. Roscoe F. Wallace, Fresno
 Architect—Chas. E. Butner, Cory Bldg. Fresno, and Glikbarg Bldg., Salinas.
 Bids will be asked within one week.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$5000
OAKLAND, Alameda Co., Cal. No. 1717 Broadway.
 Alterations to store.
 Owner—Mary A. Bowles.
 Architect — Edward T. Foulkes, 357 12th St., Oakland.
 Contractor—George Swanstrom, 1615 78th Ave., Oakland.
Plastering—Charles Burnett, 865 32nd St., Oakland.
Glass—W. P. Fuller & Co., 259 10th St., Oakland.
Millwork—California Mill & Lumber Co., 1829 Webster St., Alameda.
Plumbing—Scott Co., 113 Tenth St., Oakland.
Sheet Metal — E. W. Anderson Co., 3103 San Pablo Ave., Oakland.
Brick—W. H. Winsheropp, 3749 Quigley St., Oakland.
Tile—Rigney Tile Co., 3012 Harrison St., Oakland.
Electric—T. L. Rosenberg, 411 Webster St., Oakland.

Work Under Way.
ALTERATIONS Cost, \$15,000
SAN FRANCISCO. Montgomery and Bush Streets.
 Remodel ground floor of Mills Building for brokerage office (30-foot frontage) partitions, floor covering, wiring, painting, stock boards.
 Owner—McKinley Bissinger and Jesse Lillenthal.
 Architect—S. Heiman, 605 Market St.
 Rough carpentry, glass, painting and plastering will be done by day's labor.

As previously reported, rubber tile floors awarded to Malott & Peterson, 20th and Harrison Sts.; lighting trough to Frink & Co., 557 Market St.; interior fixtures, woodwork, etc., to Seymour Show Case & Fixture Co., 604 Mission St.; wiring to Frank J. Klimm, 465 Ellis St.

18—WHARVES & DOCKS

RICHMOND, Contra Costa Co., Cal.—City council plans to repair outer harbor dock, consisting of repair to fender system and dock substructure. Estimated cost, \$15,000. Plans will be prepared by city engineer.

LOS ANGELES, Cal.—Mayor Shaw has signed an application of the city of Los Angeles for NRA funds to be used for the proposed development of the Fifth street navy landing and the construction of three marine terminals at the harbor. Total expenditure for the improvements will be \$6,044,000. The city council has approved the plan.

PETALUMA, Sonoma Co., Calif.—Until Sept. 5, 7:30 P. M., bids will be received by Gladys V. Roberts, city clerk, to construct reinforcement of present Water Street wharf between Washington St. and Western Avenue, west bank, Petaluma River. Specifications obtainable from above office. Certified check 10% required with bid.

STOCKTON, Cal.—C. A. Lauritzen, Antioch, at \$1725 awarded contract by city council to furnish and install floating fenders for Wharves 2, 3 and 4, Stockton Deep Water Development.

19—MISC. CONSTRUCTION

Bronze Contract Awarded.
MAUSOLEUM Cost, \$9500
PETALUMA, Sonoma Co., Cal.
Concrete mausoleum (marble interior and exterior, bronze doors, art glass, etc.)
Owner—Mr. Maggetti.
Architect—S. Heiman, 605 Market St., San Francisco.
Contractor—Georgia Marble Co., 605 Market St., San Francisco.
Bronze—Louie De Rome, 1076 59th St., Oakland.
Art glass contract will be awarded within a few days.

WHITTIER, Los Angeles Co., Cal.—Until 7:30 P. M., Sept. 5, bids will be received by city council to furnish one hydraulic repair tower equipped with telescoping ladders and installed on a 1½-ton truck chassis furnished by the city. Surety company bond or certified check in the sum of 10 per cent. Mrs. Debbie E. Allen, city clerk.

Plans Being Prepared.
CROSS Cost, \$20,000
SAN FRANCISCO, Mt. Davidson.
Reinforced concrete cross.
Owner—Withheld.
Architect—George Kelham, 315 Montgomery St., San Francisco.
Engineer—H. J. Brunner, Sharon Bldg., San Francisco.

Contract To Be Awarded.
ROOF DECK Cost, \$6000
OAKLAND, Alameda Co., Cal. Seventh and Kirkham Streets.
Steel from and concrete roof deck over open driveway.
Owner—Golden West Brewery Co.
Architect—A. R. Williams, Humboldt Bank Bldg., San Francisco.
Engineer—W. Adrian, 417 Market St., San Francisco.
Contractor—S. Rasori, 74 New Montgomery St., San Francisco.

Bids Wanted—To Close Sept. 4, 4:30 P. M.
BUILDING Cost, \$1600
OAKLAND, Alameda Co., Calif. Municipal Airport.
Frame and glass exhibition building (40x40-ft.)

Owner—City of Oakland (Port Commission) Grove St. Pier, Oakland. Plans by Engineering Dept. of Owner. Building will be constructed largely of glass.

SAN FRANCISCO.—Until Sept. 5, 10 A. M., bids will be received by H. N. Krenkel, Material Officer, U. S. Marine Hospital, 14th Avenue and Lake Street, San Francisco, for laying approximately 252 square feet of light battleship linoleum. Linoleum, which will be furnished by the Government will be "A" grade, approximately ¼ inch thick (not less than 0.137 inch) and 72 inches wide. Specifications are available from above office.

SAN FRANCISCO.—D. C. McCabe, 74 New Montgomery St., at \$385.96 awarded contract by Department of Public Works for constructing concrete stairs on the south sidewalk of Waller St. bet. Buena Vista Ave. and Broderick St.

Complete bids published August 17.

MODESTO, Stanislaus Co., Calif.—City council plans construction of \$40,000 incinerator, to be financed by federal funds through the NRA.

Awaiting Permit.
ALTERATIONS Cost, \$4000
SAN FRANCISCO, 133 Powell Street
Alterations for gymnasium (4 handball courts, showers, toilets, lunch room, cigar counter) rough carpentry, canvas awnings, plumbing, wiring, flooring, cement work, partition work, etc.

Owner—Sam Shomer, % architect.
Architect—J. Loyd Conrich, 214 Ninth Avenue.

OCEANSIDE, San Diego Co., Cal.—The City of Oceanside has applied to the Federal Administration of Public Works for \$60,000 to finance the construction of a swimming plunge.

MODESTO, Stanislaus Co., Cal.—City council plans acquisition of municipal gas distributing system.

Art Glass Contract Awarded.
MAUSOLEUM Cost, \$9500
PETALUMA, Sonoma Co., Cal.
Concrete mausoleum (marble interior and exterior, bronze doors, art glass, etc.)
Owner—Mr. Maggetti.
Architect—S. Heiman, 605 Market St., San Francisco.
Contractor—Georgia Marble Co., 605 Market St., San Francisco.

Art Glass—Church Art Glass Co., 361 Waller St., San Francisco.

RACE TRACK Cost, \$700,000
OAKLAND, Alameda Co., Cal.
Horse race track (clubhouse, stables, etc.) Buildings of Monterey type of construction.
Owner—Oakland Jockey Club, Ltd. (Gene Normile, General Manager) Financial Center Bldg., Oakland.
Architect—Withheld.
Contractor—Selected—Withheld.

Articles of incorporation have been filed in Sacramento and further details will be announced shortly.

SAN FRANCISCO—U. S. Forest Service recommended awards to the following in connection with the 112 ready-cut houses of the Tower Type A.

Pacific Mfg. Co., Santa Clara (10), \$334.75 each.

McCormick Supply Co., San Francisco and Portland (100-102), \$310 each.

20—MISC. SUPPLIES AND MATERIALS

SAN FRANCISCO.—Following bids received by U. S. Forest Service to furnish:

(1) 24 8-ft. saws;
(2) 13 cant hooks.
Henry Disston & Sons, (1) \$273.60.
Simonds Saw & Steel Co., (1) \$273.60.
Dunham, Carrigan & Hayden, (1) \$273.60 (2) \$35.75.
Fred E. Barnett Co., (1) \$364.80.
Baker, Hamilton & Pacific Co., (1) \$364.80 (2) \$35.75.
Bids held under advisement.

BOULDER CANYON, Nevada.—Colorado Fuel & Iron products Co., Denver, at \$36,202 awarded contract by U. S. Bureau of Reclamation, Denver, to furnish reinforcing steel for Boulder Canyon Project, Schedule 1. Pacific Coast Steel Corp., Los Angeles, at \$105,091 awarded contract for Schedule 2.

LOS ANGELES, Cal.—Westinghouse Elec. & Supply Co. awarded contract by Saul A. Joseph, purchasing agent, Metropolitan Water District, August 29 at \$4600 to furnish insulators f.o.b. Colton under Bid No. 14145.

SAN FRANCISCO.—Following bids received Aug. 25 by U. S. Forest Service for:

(1) two 60-ft. troughs for watering sheep, constructed of galv. iron in 10-ft. sections;
(2) 160 ft. Lennon type flume of galv. iron;
(3) 20 ft. of 48-in. corrug. culvert;
(4) 2 hand couplers, 48-in. diameter.
W. R. Ames Co., 150 Hooper St., S. F., (1) \$114; (2) \$145.
California Corrug. Culvert Co., Berkeley, (1) \$124.20; (2) \$157.16; (3) \$316 (4) \$21.65.
Western Pipe & Steel Co., S. F. (3) \$337.92; (4) \$21.80.

SAN FRANCISCO—Roth-Maier, 2800 Third St., at \$4132.25 submitted low bid to City Purchasing Agent under Bid No. 1067 to furnish 100,000 bd. ft. lumber. Complete bids follow:
Roth - Maier \$4132.25
S. F. Lumber Co. 4185.69
South City Lbr. & Supply 4233.16
Christianson Lbr. Co. 4297.74
Loop Lumber Co. 4305.97
Hammond Lbr. Co. 4385.60
Acme Lbr. Co. 4387.00
Van Arsdale & Harris Lbr. Co. 4474.79
Allen & Dettman Lbr. Co. 4484.86
Bids held under advisement.

SAN FRANCISCO.—The following awarded contracts by U. S. Forest Service for furnishing:

(1) 122 bath tubs;
(2) 80 lavatories;
(3) 124 water closets;
(4) 185 sinks;
(5) 148 laundry trays;
(6) 159 hot water boilers, 30 gallons;
(7) 26 hot water boilers, 40 gallons;
(8) 26 showers;
(9) 26 urinals.
Moran Plumbing Supply Co., 323 11th St., Oakland.
Auburn Lumber Co., Auburn.
Crane Co., 301 Brannan Street, San Francisco.
Tay-Holbrook Co., Inc., 165 8th St., San Francisco.

The major portions of the work awarded to the Moran Plumbing Supply Co. Complete bids published Aug. 22nd.

OAKLAND, Cal.—Until Sept. 7, 9 P. M., bids will be received by W. W. Chappell, city clerk, for 6,000 ft. insulated cable.

ENGINEERING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

- | | |
|------------------------------------|-------------------------------------|
| 21.—Bridges | 30.—Reservoirs and Dams |
| 22.—Dredging, Harbor Works, Excav. | 31.—Pipe Lines and Wells |
| 23.—Irrigation Proj. | 32.—Sewers & Sewage Disposal Plants |
| 24.—St. Light. Systems | 33.—Water Works |
| 25.—Machinery and Equipment | 34.—Parks & Playgrounds |
| 26.—Railroads | 35.—Tunnels |
| 27.—Fire Alarm Sys. | |
| 28.—Fire Equipment | |
| 29.—Streets & Highways | |

21—BRIDGES

GILA COUNTY, Ariz.—Corrigan and Trethewey, Miami, Ariz., at \$4,801.60 submitted low bid to and recommended for award of contract by U. S. Bureau of Public Roads, Phoenix, to construct two bridges on Section H, Rt. 12, Globe-Holbrook National Forest Highway, Tonto National Forest. Nine bids in all were received.

PETALUMA, Sonoma Co., Calif.—Until Sept. 5, 7:30 P. M., bids will be received by Gladys V. Roberts, city clerk, to remove and restore wood work, repaint bridge railing, clean and paint steel work and rebuild in general all parts of Washington Street bridge. Specifications obtainable from above office. Certified check 10% required with bid.

PHOENIX, Ariz.—The city of Phoenix has applied to the Arizona State Advisory Board of Federal Emergency Administrator of Public Works for NRA funds to finance construction of an underpass at the Southern Pacific Railway tracks on S Central Ave.; estimated to cost, \$290,000.

YREKA, Siskiyou Co., Cal.—Until Sept. 5, 10 A. M., bids will be received by W. J. Neilon, Clerk, Board of Supervisors, to move steel bridge over Shasta River near the Ed. Hall place in Klamath Road District; bridge to be moved to and erected over the Shasta River south of Montague near the Salt Works, Montague-Grenada Road. Specifications obtainable from above office. Certified check 10% required with bid.

LOS ANGELES, Cal.—Atlas Const. Co., 39 Congress St., Pasadena, awarded contract by county supervisors August 28 at \$8100 to construct concrete and steel bridge on Camp Baldy Rd. over San Antonio Creek. Proposed bridge will consist of two spans, 32½ ft. each, with a 20-ft. roadway, concrete abutments, steel girders and concrete slab.

SONOMA CO. Cal.—Until Sept. 20, 2 P. M., bids will be received by State Highway Commission to construct a ridge over the Russian river at Preston consisting of one 150-ft. through steel truss span, two 38 ft. 3 in. steel beam spans and three 37-ft. steel beam spans, involving:
 (1) 1600 cu. yds. struc. excav.;
 (2) 285 cu. yds. class A Port. cem. conc. (footing blocks);
 (3) 1180 cu. yds. do (struc);
 (4) 134,300 lbs. bar reinf. steel;
 (5) 515,800 lbs. struc. steel;
 (6) 34,100 lbs. struc. steel (railing);
 (7) 5790 lbs. cast steel;
 (8) 20 cu. yds. gravel for sidewalk;

- (9) 1 exist. bridge to be removed;
- (10) 75 lin. ft. temporary guard rail;
- (11) 1 lot misc. items of work.

22—DREDGING, HARBOR WORKS, EXCAVATION

SACRAMENTO, Cal.—Until Sept. 8, 3 P. M., under Circular Pro. No. 34-13, Spec. No. 5692, bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, to construct stretches of new levee and raise stretches of old levee along north-easterly side of Haas Slough from near its junction with Cache Slough to its junction with Reclamation District No. 2068 canal, and on the easterly side of said canal to near the pumping plant, total length of levee 16,500 ft., involving 480,000 cu. yds. embankment in place. Specifications obtainable from above office.

PATTERSON, Stanislaus Co., Cal.—Patterson Water Co. will seek \$30,000 loan of federal funds through the R.F.C. to concrete seven miles of irrigation laterals. J. P. Sillerman, Mgr.

LOS ANGELES, Calif.—Shanahan Bros., 6181 Eastern Ave., Los Angeles, awarded contract by the U. S. Engineer Office, San Francisco, at \$12,440, for repairing and enrockment at Reservation Point, Los Angeles Outer Harbor, involving 4000 tons furnish and place stone in embankment (rock to meet requirements of 160 lbs. per cu. ft.)

SEATTLE, Wash.—War Department allots \$1,200,000 to complete repairs on the south jetty of the harbor at the mouth of the Columbia river, Oregon and Washington.

PORTLAND, Ore.—Until Sept. 13, 3 P. M., under Bid No. 34-73, bids will be received by U. S. Engineer Office, 306 Customhouse, Portland, to repair South Jetty at mouth of Columbia river, Oregon and Washington, involving:

- (1) 82,000 lin. ft. Douglas fir piling;
- (2) 1,280 MFBM Douglas fir lumber;
- (3) 33,000 lbs. drift bolts;
- (4) 42,000 lbs. machine bolts;
- (5) 44,000 lbs. ship and wire spikes;
- (6) 27,000 lbs. railroad spikes;
- (7) 285 tons 75-lb. relay steel rails;
- (8) 3 sets frogs and switches, complete;
- (9) 40,000 lin. ft. ½-in. dia. wire cable
- (10) 23,000 lbs. steel straps;
- (11) 2,650 metal pile shoes;
- (12) 10,000 anti-rail creepers;
- (13) 600,000 tons stone.

MONTEREY, Cal. — Plans for proposed 400-ft. extension to Monterey breakwater forwarded to Washington by City Manager. Estimated cost, \$240,000; to be financed by federal funds through the NRA.

23—IRRIGATION PROJ.

TURLOCK, Stanislaus Co., Calif.—Until Sept. 25, 2 P. M., bids will be received by Turlock Irrigation District, to line 4.5 miles of irrigation canals, involving 754,100 square feet concrete canal lining. Bids will be divided into six schedules as follows: Ceres Main Canal, laterals Nos. 1, 2 upper 2½, 4 and 7. Estimated cost, \$68,000.

WESTERN STATES.—Public Works Administration allots \$15,415,000 for construction work on irrigation projects in Arizona, Idaho, Nevada, New Mexico, Oregon and Utah.

25—MACHINERY AND EQUIPMENT

McFARLAND, Kern Co., Cal.—Delano Motor Co., at \$1511 awarded contract by McFarland Union Grammar School to furnish one school bus, equipped with oversize tires.

BOULDER CANYON, Nev. — Until 10 A. M., Sept. 12, bids will be received at the office of the Bureau of Reclamation, Denver, Colo., for furnishing station service generating units for Boulder power plant. Specifications No. 545. Bids will be taken on the following:

- (1) Two 3500-h.p., 300 r.p.m horizontal shaft, double overhung, impulse type, hydraulic turbines, including shut-off valves, shafts, bearings and spare parts complete.
- (2) Two governors with pumping equipment and spart parts for regulating the speed of the turbines under item 1 complete.
- (3) Two 3000-kva. r.p.m., 3-phase, 60-cycle, 2400-volt, horizontal, alternating current generators, without shafts and bearings, but including exciters, to be driven by the turbines under item 1, complete.
- (4) The rate per day for the services of erecting engineers and/or mechanics.

SANTA ANA, Orange Co., Cal.—Elgin Corp. awarded contract by City Auditor, L. M. Banks, at \$5984.19 to furnish an Elgin street sweeper for the city street department. The price was \$7250 with \$965 for 2 trade-ins, and \$3908 for cash payment.

OAKLAND, Cal.—Until Sept. 31, 9 P. M., bids will be received by W. W. Chappell, city clerk for:
 (1) six coupes, not to exceed \$685;
 (2) two canopy express body cars, not to exceed \$685;
 (3) one truck, not to exceed \$2,550.

SAN FRANCISCO.—Following bids received by U. S. Engineer Office to overhaul two Hall-Scott marine engines:
 Sansome-Pacific Garage, S. F. \$461.93
 Hall-Scott Motor Car Co., S. F. 620.96
 Crowley Launch & Tugboat Co., San Francisco 642.00
 Madden & Lewis, Sausalito 649.90
 Motor Parts Sales Co., S. F. 719.00
 Bids held under advisement.

CAPITAL CITY TITLE COMPANY

J. C. PALEN,
 Manager

914 Seventh Street
 Sacramento :: California

NEEDLES, Imperial Co., Cal.—Until 9 A. M., Sept. 9, bids will be received by the Needles High School District for purchase of a used school bus in accordance with specifications on file in the office of the district superintendent of schools at Needles. R. B. Lorimer, acting clerk.

SAN FRANCISCO.—Following bids received by U. S. Forest Service to furnish one 7 cu. ft. capacity tilting drum concrete mixer with power loader, 6-hp. radiator cooled gas engine, automatic water tank, all mounted on steel wheels:

Harron, Rickard & McCone, \$826.50; alt. \$756.60 (LeRoi Hopper cooled engine).

H. C. Wood Machinery Co., \$875.
Brown Bevis, \$650; Alt. \$500 (used).
E. R. Bacon, \$610.
Garfield & Co., \$410; Alt. \$460 (disc wheels).

Webber & Co., \$862.
Kratz & McClelland, \$746.60.

SAN FRANCISCO.—Following bids received by U. S. Forest Service to furnish:

- (1) 100 grader blades, 8-ft.;
50 do, 10-ft., in 2 sections;
100 do, 12-ft., in 2 sections;
- (2) 370 cuttings edges for trailbuilders for various tractors.

Bidders follow:

(A) Austin Western Road Machinery Co., \$1125 f.o.b. factory, Harvey, Ill., \$1,523.50 f.o.b. San Francisco.

(B) Solano Iron Works, \$1300 f.o.b. Berkeley.

(C) J. D. Adams, \$881 f.o.b. Indianapolis, \$1354 f.o.b. San Francisco.

Unit bids follow:

	(1)	(1); (2)	(2)
(A)	\$3.71	\$5.44	\$
	4.62	6.77	
	5.57	8.14	
(B)	4.16		1560.92
	5.20		
	6.24		
(C)	2.82	4.33	
	3.52	5.42	
	4.23	6.50	

Bids held under advisement.

OAKLAND, Cal.—Until Sept. 12, 4 P. M., bids will be received by John W. Edgemond, Secretary, Board of Education, Room 104, Administration Bldg., Oakland, to furnish one canopy delivery truck under Schedule No. 19. Specifications obtainable from above office. Certified check 10% required with bid.

ALMADEN, Santa Clara Co., Cal.—Until Sept. 11, 8 P. M., bids will be received by Thos. J. Armstrong, Clerk, Almaden Union School District, to furnish one bus chassis. Specifications obtainable from above office.

SAN FRANCISCO.—Until Sept. 6th, 2:00 P. M., bids will be received by U. S. Forest Service, Ferry Building, to furnish 14 detachable rock drill bit grinders.

28—FIRE EQUIPMENT

GUSTINE, Merced Co., Calif.—City council plans to purchase new fire engine, bids to be called in the near future.

STOCKTON, San Joaquin Co., Cal.—Until Sept. 11, 8 P. M., bids will be received by B. L. Trahern, city clerk, to furnish one combination pump, hose and ladder fire engine.

INGLEWOOD, Los Angeles Co., Cal.—Gamewell Co. awarded contract by city council August 29 at \$3114.73 to furnish and install traffic signals at

three intersections, viz.: Manchester and Market Sts., Market and Queen, and Commercial and Queen. The bids were opened Aug. 7.

29—STREETS AND HIGHWAYS

SAN FRANCISCO.—Until Sept. 6th, 2:30 P. M., bids will be received by Department of Public Works, S. J. Hester, Chief Deputy Director, to improve crossing of Innes and Mendell, involving:

- (1) 110 ft. unarmored concrete curb;
- (2) 880 sq. ft. 1-course conc. sidewalk
- (3) 3 brick catchbasins;
- (4) 100 ft. 10-in. V.C.P. culvert;
- (5) 4190 sq. ft. asph. cone. pave.

Estimated cost \$1560. Specifications obtainable from office of John J. Casey city engineer, 3rd floor, City Hall.

SAN FRANCISCO.—Fay Imp. Co., Phelan Bldg., at \$873.95 awarded contract by Department of Public Works to improve 37th Ave. bet. Moraga and Noriega, sewer only.

REDDING, Shasta Co., Cal.—Until Sept. 6, 2 P. M., bids will be received by Hiram R. Baker, Secretary, Joint Highway District No. 21, at the Shasta county court house, Redding, to grade from Sta. 7 plus 00 to 85 plus 80, Section No. 4, Redding-Mt. Lassen approach road, 2,227 miles, involving:

- (1) 1,985 acres clearing;
- (2) 11,839 cu. yds. unclass. excav.;
- (3) 130.4 cu. yds. do, strue.;
- (4) 30,650 sta. yds. overhaul;
- (5) 2,227 miles finish earth graded rd.
- (6) 90 lin. ft. 72-in. corr. metal pipe;
- (7) 48 lin. ft. 8-in. do;
- (8) 36 lin. ft. 18-in. do;
- (9) 172 lin. ft. 24-in. do.

Specifications obtainable from Engineer of the District, Redding. Certified check 10% required with bid.

SAN FRANCISCO.—Until Sept. 5, 2:30 P. M., bids will be received by Department of Public Works, S. J. Hester, Secretary, to improve Bruuswick from Allison to Concord, involving:

- (1) 3510 cu. yds. excavation;
- (2) 120 cu. yds. embankment.

Estimated cost \$2000. Specifications on file in the office of John J. Casey, city engineer, 3rd floor, City Hall.

SAN FRANCISCO.—Until Sept. 6, 2:30 P. M., bids will be received by Department of Public Works, S. J. Hester, Secretary, to construct sidewalks on Oneida Ave. from Otsego to Delano, et al. involving:

- (1) 6000 sq. ft. sidewalk.

Estimated cost, \$1000. Specifications on file in the office of John J. Casey, city engineer, 3rd floor, City Hall.

ARIZONA STATE.—Until 2 P. M., Sept. 12, bids will be received by T. S. O'Connell, State Highway Engineer, Phoenix, Ariz., for highway construction on the Flagstaff-Williams Highway, N.R.H.—24-B. The work, which is located approximately five (5) miles west of Flagstaff consists of the construction of an overpass and approaches with incidental grading and draining and is to be completed on or before February 15, 1934. The principal items are:

- 75,250 lbs. structural steel;
- 2,140 cu. yds. roadway excav.;
- 2,420 cu. yds. drainage excav.;
- 300 cu. yds. structural excav.;
- 18,450 cu. yds. borrow excav.;
- 900 cu. yds. selected borrow;
- 1,200 cu. yd. ml. selected borrow haul;
- 700 cu. yds. aggregate base course;
- 2,300 cu. yds. mile aggregate base course haul;
- 475 cu. yds. concrete;
- 62,500 lbs. reinforcing steel;
- 40 lin. ft. 36-in. C.M.P.;

- 1,700 lin. ft. cable guard fence;
- 1,100 lin. ft. standard line fence;
- 6 catchbasins and other incidental items.

Cash or certified check, 5%. The attention of bidders is directed to the Special Provisions covering subletting or assigning the contract and to the use of Domestic Materials. Labor lists shall be obtained from the Coconino County Re-employment Committee Chairman, Mr. P. J. Moran, Flagstaff, Arizona.

SKAGIT and Whatcom Cos., Wash.—Until Sept. 6, 10 A. M., bids will be received by L. V. Murrow, State Director of Highways, Olympia, to pave with Portland cement concrete 0.4 mi. State Road No. 1, Fisher's Slough to B. C. line paving gaps N. R. H. Pro. 30-A and 17, and N. R. M. Pro. 137-C and 137-E. Specifications obtainable from above office on deposit of \$2, returnable. Certified check 5% required with bid.

GLENN, Placer and Colusa Counties, Cal.—As previously reported, until Sept. 5, 2:30 P. M., bids will be received by C. H. Whitmore, District Engineer, State Highway Commission, Public Works Bldg., Sacramento, to apply 14.2 miles bituminous surface treatment, involving:

- (1) 44 tons asph. road oil, Loc. A;
- (2) 525 tons screenings do;
- (3) 75 tons asph. road oil, Loc. B;
- (4) 890 tons screenings do;
- (5) 40 tons asph. road oil, Loc. C;
- (6) 450 tons screenings do.

Specifications obtainable from above office. Certified check 10% required with bid. 29

KERN COUNTY, Cal.—As previously reported, until Sept. 5, 2 P. M., bids will be received by E. E. Wallace, District Engineer, State Highway Commission, State Highway Building, Fresno, to apply retread surface treatment to two miles of existing pavement between 6.2 miles and 10.4 miles of Bakersfield, involving:

- (1) 125 tons emul. asph. road oil;
- (2) 1630 tons screenings.

Specifications obtainable from above office. Certified check 10% required with bid. 29

KINGS COUNTY, Cal.—As previously reported, until Sept. 5, 2 P. M., bids will be received by E. E. Wallace, District Engineer, State Highway Commission, State Highway Building, Fresno, to apply retread surface treatment to existing pavement over 2.7 miles near Lemoore, involving:

- (1) 117 tons emul. asph. road oil;
- (2) 1764 tons screenings.

Specifications obtainable from above office. Certified check 10% required with bid. 29

TULARE CO., Calif.—As previously reported, until Sept. 5, 2 P. M., bids will be received by E. E. Wallace, District Engineer, State Highway Commission, State Highway Building, Fresno, to apply a bituminous seal coat to the shoulders on each side of the existing pavement over 46 miles between the southerly boundary and Kingsburg, involving:

- (1) 270 tons cut-back asph. in place;
- (2) 1500 tons sand in place.

Specifications obtainable from above office. Certified check 10% required with bid. 29

CONTRA COSTA COUNTY, Calif.—Bids to have been opened Sept. 14, 2 P. M., by State Highway Commission, Sacramento, cancelled; to grade and pave with asphalt concrete 0.2 mile in Valona.

LOS ANGELES CO., Cal.—Until Sept. 5, 2 P. M., bids will be received by S. V. Cortelyop, District Engineer, State Highway Commission, 808 State Office Bldg., Los Angeles, to apply bituminous surface treatment over 1.8 mi. between Vasquez Rock Road and 2 mi. easterly and to grade and surface with waterbound macadam base and bituminous macadam surface about 0.2 mi., involving:

- (1) Clear and grub right-of-way;
- (2) 6300 cu. yds. rdwy. excav., unclass;
- (3) 4550 ml. yds. overhaul;
- (4) 2425 sq. yds. subgrade waterbound mac. base;
- (5) 560 tons broken stone do;
- (6) 280 tons broken stone (bit. mac. surf.);
- (7) 1700 tons screenings do;
- (8) 90 tons asph. road oil;
- (9) 110 cu. yds. conc. remove from exist. pave.;
- (10) 11 sta. finish rdwy.;
- (11) 20,000 sq. yds. paint binder.

29

BERKELEY, Alameda Co., Calif.—The Regents of the University of California will construct one block of 6-ft. sidewalk at the University, Berkeley. Luther Nichols, comptroller.

ARIZONA STATE—Until 2:30 P. M., Sept. 12, bids will be received by T. S. O'Connell, State Highway Engineer, Phoenix, Ariz., for highway construction on N. R. M. 24-A and N. R. H. 24-A, Flagstaff - Williams Highway. The work begins about fifteen miles west of Flagstaff and extends easterly to the pavement at Flagstaff excepting Project 24-B, consists of additional base course material, a three (3") inch plant mix oil cake and is to be completed on or before January 31, 1934. The principal items are:

- 14,000 cu. yds. stripping pits;
- 240,000 sq. yds. reshaping road surf.;
- 1,436 M. gals. water for sprinkling;
- 10,000 cu. yds. aggregate base course;
- 64,300 cu. yds. mi. aggregate base course, haul;
- 5,800 cu. yds. shoulder material;
- 25,700 cu. yd. mi. shoulder material haul;
- 26,560 tons plant mix;
- 127,480 ton mi. plant mix haul;
- 1,560 tons cut-back asphalt;
- 14.7 mi. placing plant mix;
- 1,280 cu. yds. screenings;
- 420 sq. yds. intersection;
- 400 tons spl. plant mix for stockpiling;
- 300 cu. yds. aggregate for stockpile.

Cash or certified check 5%. The attention of bidders is directed to the Special Provisions covering subletting or assigning the contract and the use of Domestic Materials. Labor lists shall be obtained from the Coconino County Re-employment Committee Chairman, Mr. P. J. Moran, Flagstaff, Arizona.

LOS ANGELES COUNTY, Calif.—Bids to have been opened Sept. 15, 2 P. M., by State Highway Commission, Sacramento, cancelled; to grade four miles between Colby Canyon and Mt. Wilson.

STOCKTON, San Joaquin Co., Cal.—R. E. McCarthy, 603 Eastworth St., Stockton, at \$,895 ton submitted low bid to City Port Commission for graveling near the Deep Water Terminal at the lumber storage areas, 2-inch gravel to be land, involving 3000 tons road gravel. Complete bids follow:

- R. E. McCarthy, Stockton.....\$.895
- Willard, Biasotti, Lovatti, Stockton..... .94
- J. R. Reeves, Sacramento..... 1.09

Bids held under advisement.

29

CONTRA COSTA CO., Cal.—Until Sept. 15, 2 P. M., bids will be received by State Highway Commission, Sacramento, to grade and pave with asphaltic concrete 0.2 mi. in Valona, involving:

- (1) 1 lot readjust private improvements (Group 4);
- (2) 1 lot do, (Group B);
- (3) 1 lot do, (Group C);
- (4) 24,504 cu. yds. rdwy. excav., unclass;
- (5) 357,000 sta. yds. overhaul;
- (6) 50 cu. yds. struc. excav.;
- (7) 760 cu. yds. cru. conc. (base and shoulders);
- (8) 1340 sq. yds. exist. bit. mac. to be removed;
- (9) 560 cu. yds. conc. remove from exist. pave. and struc.;
- (10) 740 tons asph. conc.;
- (11) 200 sq. yds. subgrade for pave (2nd Ave.);
- (12) 35 cu. yds. class A Port. cem. conc. (pave);
- (13) 15 cu. yds. do (curbs, gutters and sidewalks);
- (14) 40 cu. yds. do (struc.);
- (15) 4500 lbs. bar reinf. steel (struc.);
- (16) 5 tons cut-back asph.;
- (17) 13 tons screenings;
- (18) 1 footbridge to be removed;
- (19) 80 lin. ft. 8-in. corr. metal pipe;
- (20) 3 catchbasins complete in place;
- (21) 920 lin. ft. solid timber guardrail;
- (22) 8 sta. finish rdwy.;
- (23) 4 monuments complete in place.

29

LOS ANGELES COUNTY, Cal.—Until Sept. 15, 2 P. M., bids will be received by State Highway Commission, Sacramento, to grade four miles between Colby Canyon and Mt. Wilson, involving:

- (1) 914,000 cu. yds. rdwy. excav., unclassified;
- (2) 5,000,000 sta. yds. overhaul;
- (3) 5870 cu. yds. struc. excav.;
- (4) 150 cu. yds. Class A Port. cem. conc. (struc.);
- (5) 12,100 lbs. bar reinf. steel (struc.);
- (6) 1900 lin. ft. 8-in. corr. metal pipe
- (7) 4780 lin. ft. 24-in. do;
- (8) 240 lin. ft. 30-in. do;
- (9) 260 lin. ft. 36-in. do;
- (10) 112 lin. ft. 84-in. do;
- (11) 310 lin. ft. 90-in. multiplate metal pipe;
- (12) 162 lin. ft. 105-in. do;
- (13) 208 lin. ft. 135-in. do;
- (14) 500 lin. ft. lam. timber guardrail;
- (15) 2950 bbls. fuel oil;
- (16) 130 culvert markers;
- (17) 209 ta. finish rdwy.

29

LOS ANGELES COUNTY, Cal.—Until Sept. 20, 2 P. M., bids will be received by State Highway Commission, Sacramento, to grade and pave with Portland cement concrete 0.8 mile in the city of Long Beach, between Anaheim St. and State St., involving:

- (1) 41 sta. clear and grub right-of-way;
- (2) 8000 cu. yds. rdwy. excav., unclass.;
- (3) 200 cu. yds. struc. excav.;
- (4) 17,500 sq. yds. subgrade for pave.;
- (5) 3700 cu. yds. Class A Port. cem. concrete (pave.);
- (6) 45 cu. yds. do, (struc.);
- (7) 86,000 lbs. bar reinf. steel (pave. and struc.);
- (8) 110 bbls. light fuel oil (subgrade treatment);
- (9) 29 tons asph. road oil (subgrade treatment);
- (10) 350 bbls. heavy fuel oil (shoulders);
- (11) 1.4 miles new property fence;
- (12) 8 fence gates complete in place;
- (13) 2 culvert markers complete, in place;
- (14) 16 monuments complete, in place;
- (15) 41 sta. finish rdwy.

SAN BERNARDINO COUNTY, Cal.—Until Sept. 21, 2 P. M., bids will be

received by State Highway Commission, Sacramento, to construct a reinforced concrete slab bridge across San Timoteo Creek about five miles west of Hedlands consisting of two 33-ft. spans on two 27-ft. spans on concrete pile bents and concrete abutments with wing walls on pile foundations, involving:

- (1) 1500 cu. yds. struc. excav.;
- (2) 7900 cu. yds. rdwy. excav., unclass.;
- (3) 2750 sq. yds. subgrade for pave.;
- (4) 143 cu. yds. remove and dispose of exist. pave.;
- (5) 1 existing bridge, remove and dispose of;
- (6) 3200 lin. ft. furnish creo. Douglas fir piles, incl. test piles;
- (7) 1050 lin. ft. furnish reinf. conc. piles, incl. test piles;
- (8) 139 drive creo. Douglas fir piles incl. test piles;
- (9) 30 drive reinf. conc. piles, incl. test piles;
- (10) 790 cu. yds. Class Port. cement concrete (struc.);
- (11) 9 cu. yds. do (railing);
- (12) 600 cu. yd. do, (paving);
- (13) 108 cu. yds. do (slope paving);
- (14) 105,000 lbs. bar reinf. steel;
- (15) 728 lbs. bronze expansion plates;
- (16) 1100 tons crushed gravel or stone surf. (detours and borders);
- (17) 260 bbls. heavy fuel oil (detours and borders);
- (18) 15 sta. finish rdwy.;
- (19) 1 lot misc. items of work.

29

ARIZONA STATE—Until 10 A. M., Sept. 13, bids will be received by T. S. O'Connell, State Highway Engineer, Phoenix, Ariz., for highway construction on the Flagstaff-Fredonia Highway, N.R.H. 95-E and N.R.P.L. 4-B. The work on these projects which begins approximately 9 miles southwest of the Grand Canyon Bridge and extends approximately 18.7 miles westerly consists of the grading, draining and placing of base course and is to be completed on or before July 30, 1934. The principal items are:

- 72,400 cu. yds. rdwy. excav.;
- 18,300 cu. yds. drainage excav.;
- 3,470 cu. yds. struc. excav.;
- 71,000 cu. yds. borrow excav.;
- 22,200 sta. yds. earthwork overhaul;
- 40,300 cu. yds. base course material;
- 64,300 cu. yds. mi. do haul;
- 2,600 cu. yds. conc.;
- 230,000 lbs. reinf. steel;
- 2,400 lin. ft. corr. metal pipe (various sizes);
- 12,400 lin. ft. type "A" cable guard;
- 11,000 lin. ft. grader ditches;
- 106,000 lbs. struc. steel;

ALTERNATE
12,400 lin. ft. type "C" steel plate guard and other incidental items
Proposal guarantee, 5%. 29

TEHAMA CO., Cal.—Until Sept. 20, 2 P. M., bids will be received by State Highway Commission, Sacramento, to grade 13.3 mi. between Red Bluff and 1.5 miles east of Dales, involving:

- (1) 15 acres clear and grub right-of-way;
- (2) 229,650 cu. yds. rdwy. excav., unclass.;
- (3) 4,201,000 sta. yds. overhaul;
- (4) 46,400 cu. yds. imp. borrow;
- (5) 5000 cu. yds. struc. excav.;
- (6) 4000 M gal. water;
- (7) 770 cu. yds. class A Port. cem. conc. (struc.);
- (8) 68,700 lbs. bar reinf. steel (struc.);
- (9) 180 lin. ft. 12-in. reinf. conc. pipe;
- (10) 3285 lin. ft. 18-in. do;
- (11) 348 lin. ft. 24-in. do;
- (12) 120 lin. ft. 30-in. do;
- (13) 279 lin. ft. 36-in. do;
- (14) 252 lin. ft. 48-in. do;
- (15) 160 culvert markers;
- (16) 705 sta. finish rdwy.;
- (17) 117 monuments complete in place.

DEL NORTE COUNTY, Cal.—Until Sept. 20, 2 P. M., bids will be received by State Highway Commission to grade and surface with crusher run base and untreated crushed gravel or stone surfacing 9.5 miles between Last Chance Slide and Flannigan's, involving:

- (1) 62 acres clear and grub right-of-way (Loc. A);
- (2) 13 acres do, (Loc. B);
- (3) 17 acres do, (Loc. C);
- (4) 80 remove and grub redwood trees, size 1;
- (5) 120 do, size 2;
- (6) 160 do, size 3;
- (7) 88 do, size 4;
- (8) 35 do, size 5;
- (9) 17 do, size 6;
- (10) 6 do, size 7;
- (11) 2 do, size 8;
- (12) 55 remove redwood trees, size 1;
- (13) 60 do, size 2;
- (14) 60 do, size 3;
- (15) 40 do, size 4;
- (16) 25 do, size 5;
- (17) 11 do, size 6 and larger;
- (18) 120 remove and grub spruce, fir and hemlock trees, size 1;
- (19) 185 do, size 2;
- (20) 65 do, size 3;
- (21) 9 do, size 4;
- (22) 2 do, size 5 and larger;
- (23) 60 remove spruce, fir and hemlock trees, size 1;
- (24) 110 do, size 2;
- (25) 30 do, size 3;
- (26) 6 do, size 4 and larger;
- (27) 34,000 sq. yds. seal surf. (log fills)
- (28) 670,500 cu. yds. rdwy. excav., unclass.;
- (29) 1,440,000 sta. yds. overhaul;
- (30) 16,400 cu. yds. imp. sel. matl.;
- (31) 9550 cu. yds. struc. excav.;
- (32) 95 cu. yds. Class A Port. cem. conc. (struc.);
- (33) 6300 lbs. bar reinf. steel (struc.);
- (34) 46,000 cu. yds. crusher run base;
- (35) 16,500 cu. yds. untreated crushed gravel or stone (surf.);
- (36) 5240 cu. yds. screenings;
- (37) 4750 M. gals. water;
- (38) 5400 lin. ft. 18-in. corr. metal pipe;
- (39) 800 lin. ft. 24-in. do;
- (40) 120 lin. ft. 30-in. do;
- (41) 450 lin. ft. 36-in. do;
- (42) 500 lin. ft. 42-in. do;
- (43) 60 lin. ft. 54-in. do;
- (44) 500 lin. ft. 8-in. perf. metal pipe;
- (45) 6 MFEM redwood timber dense sel. all-heart struc. grade (cattle passes);
- (46) 15.5 MFEM redwood timber sel. all-heart struc. grade (cattle passes);
- (47) 190 MFEM redwood timber sel. all-heart structural grade (cribs Types A and B);
- (48) 8300 horizontal redwood timber members (cribs Type C);
- (49) 590 timber guide posts and culvert markers complete in place;
- (50) 1.5 miles exist. property fence, remove and dispose of;
- (51) 4 miles new property fence;
- (52) 15 fence gates complete in place;
- (53) 510 sta. finish rdwy.;
- (54) 180 monuments complete in place.

29

NEVADA CO., Cal.—Until Sept. 20, 2 P. M., bids will be received by State Highway Commission, Sacramento, to surf. with bituminous treated crushed gravel or stone over 7.4 miles west of Washington Road and 0.5 mile east of Summit, involving:

- (1) 31,500 tons crusher run base;
- (2) 14,100 tons crushed gravel or stone (bit. treated surf.);
- (3) 1360 M. gals. water;
- (4) 540 bbls. light fuel oil (prime coat)
- (5) 635 tons cut-back asph. (bit. treated surface);
- (6) 36 tons cut-back asph. (seal coat);
- (7) 390 sta. finish rdwy.

29

IMPERIAL COUNTY, Calif.—Until Sept. 21, 2 P. M., bids will be received by State Highway Commission, Sacramento, to grade and place Portland cement concrete pavement and pavement widening strips on 3.2 miles between 4 miles west of Westmoreland and Trifolium Canal, involving:

- (1) 12,200 cu. yds. rdwy. excav., unclass.;
- (2) 52,000 sta. yds. overhaul;
- (3) 2330 cu. yds. struc. excav.;
- (4) 2600 sq. yds. subgrade for pave.;
- (5) 2400 cu. yds. Class A Port. cem. conc. (pave.);
- (6) 225 cu. yds. do (struc.);
- (7) 101,000 lbs. bar reinf. steel (pave. and struc.);
- (8) 505 cu. yds. Class A Concrete (slope paving);
- (9) 3100 sq. yds. reinf. steel (slope paving);
- (10) 246 lin. ft. 24-in. corr. metal pipe
- (11) 72 lin. ft. 30-in. do;
- (12) 62 lin. ft. 48-in. do;
- (13) 976 lin. ft. 4-in. tile underdrain;
- (14) 63 lin. ft. 24-in. vit. clay pipe;
- (15) 573 lin. ft. 36-in. do;
- (16) 3200 tons crushed gravel or stone (borders and detours);
- (17) 850 bbls. heavy fuel oil (borders and detours);
- (18) 443 cu. yds. Port. cem. conc., remove from existing pave. and struc.;
- (19) 169 sta. finish rdwy.;
- (20) 44 monuments complete in place.

29

MONTEKEY COUNTY, Calif.—Until Sept. 20, 2 P. M., bids will be received by State Highway Commission, Sacramento, to grade and surface with asphaltic concrete 6 miles between Gonzales and Chualar, involving:

- (1) 41,350 cu. yds. rdwy. excav., unclass.;
- (2) 461,000 sta. yds. overhaul;
- (3) 40,600 cu. yds. imp. borrow;
- (4) 1870 cu. yds. struc. excav.;
- (5) 34,000 sq. yds. subgrade for pave.
- (6) 28,100 sq. yds. asphalt binder
- (7) 25,700 tons asph. conc.;
- (8) 173 cu. yds. Class A Port. cem. conc. (struc.);
- (9) 12,700 lbs. bar reinf. steel (struc.)
- (10) 24 lin. ft. 8-in. corr. metal pipe;
- (11) 52 lin. ft. 12-in. do;
- (12) 792 lin. ft. 18-in. do;
- (13) 472 lin. ft. 24-in. do;
- (14) 216 lin. ft. 30-in. do;
- (15) 358 lin. ft. 36-in. do;
- (16) 640 lin. ft. corr. metal pipe (clean and relay);
- (17) 750 cu. yds. Port. cem. conc. in existing pave. and struc. to be removed and disposed of;
- (18) 3500 M. gals. water;
- (19) 6100 bbls. heavy fuel oil;
- (20) 46 timber guide posts;
- (21) 20 timber culvert markers;
- (22) 5.2 miles new property fence;
- (23) 36 fence gates;
- (24) 318 sta. finish rdwy.;
- (25) 34 monuments complete in place.

29

LINCOLN COUNTY, Nevada.—Until Sept. 12, 2:00 P. M., bids will be received by S. C. Durkee, State Highway Engineer, Carson City, to construct 14.37 miles between Maynard Lake and Alamo, Rt. 7, Sec. A-2, involving:

- (1) 187,500 cu. yds. rdwy. excav.;
- (2) 84 acres clear and grub;
- (3) 149,196 sta. yds. overhaul;
- (4) 24,453 cu. yds. select borrow;
- (5) 1570 cu. yds. struc. excav.;
- (6) 14.37 miles subgrade;
- (7) 34,000 cu. yds. crushed gravel or stone surf.;
- (8) 120 cu. yds. Class A concrete;
- (9) 200 cu. yds. Class B concrete;
- (10) 17,700 lbs. reinf. steel;
- (11) 28,607 lin. ft. remove fence;
- (12) 1064 lin. ft. 18-in. corr. metal pipe;

- (13) 1066 lin. ft. 24-in. do;
- (14) 114 lin. ft. 30-in. do;
- (15) 414 lin. ft. 36-in. do;
- (16) 160 lin. ft. 48-in. do;
- (17) 702.5 lin. ft. 18-in. vit. pipe;
- (18) 977.5 lin. ft. 24-in. do;
- (19) 522.5 lin. ft. 36-in. do;
- (20) 2482 lin. ft. reconstruct fence;
- (21) 47,731 lin. ft. construct fence;
- (22) 2900 cu. yds. handlaid riprap;
- (23) 240 monuments;
- (24) remove 4 buildings, lump sum;
- (25) 14.37 miles finish roadway.

Specifications obtainable from above office on deposit of \$15, \$10 returnable. Certified check 5% required with bid.

EUREKA COUNTY, Nevada.—Until Sept. 12, 2:15 P. M., bids will be received by S. C. Durkee, State Highway Engineer, Carson City, to reconstruct 10.15 miles Route 2, Sec. C-1, between Eureka and the East county line, involving:

- (1) 59,600 cu. yds. rdwy. excav.;
- (2) 62,518 sta. yds. overhaul;
- (3) 38,868 cu. yds. select borrow;
- (4) 1050 cu. yds. struc. excav.;
- (5) 10.15 miles subgrade;
- (6) 94 remove culvert headwalls;
- (7) 32,100 cu. yds. crushed gravel or stone surface;
- (8) 227 cu. yds. Class A concrete;
- (9) 74 cu. yds. Class B concrete;
- (10) 23,050 lbs. reinf. steel;
- (11) 222 lin. ft. 15-in. corr. metal pipe
- (12) 814 lin. ft. 18-in. do;
- (13) 146 lin. ft. 24-in. do;
- (14) 62 lin. ft. 30-in. do;
- (15) 38 lin. ft. 36-in. do;
- (16) 250 lin. ft. 8-in. perf. drain;
- (17) 242 lin. ft. remove culvert pipe;
- (18) 110 lin. ft. relay culvert pipe;
- (19) 37 cubic yards hand laid rip rap (grout);
- (20) 140 monuments;
- (21) 10.15 miles finish roadway;
- (22) 90 lin. ft. 4-in. water pipe;
- (23) 2,580 lin. ft. remove water pipe;
- (24) 820 lin. ft. relay water pipe;
- (25) 87 lin. ft. construct fence;
- (26) 1,837 lin. ft. remove fence;
- (27) 55 cu. yds. gravel backfill.

Specifications obtainable from above office on deposit of \$15, \$10 returnable. Certified check 5% required with bid.

MONO COUNTY, Calif.—Until Sept. 21, 2 P. M., bids will be received by the State Highway Commission, Sacramento, to grade and surface with bituminous treated crushed gravel or stone 6.2 miles between Point Ranch and Dressler's Corner, involving:

- (1) 33,400 cu. yds. rdwy. excav., unclass.;
- (2) 300,000 sta. yds. overhaul;
- (3) 51,000 cu. yds. imp. borrow;
- (4) 6300 cu. yds. ditch excav.;
- (5) 2450 cu. yds. struc. excav.;
- (6) 18,800 cu. yds. pit run gravel;
- (7) 34,000 tons screened gravel;
- (8) 12,000 tons crushed gravel or stone (bit. treat. surf.);
- (9) 670 tons cut-back asph.;
- (10) 380 tons screenings;
- (11) 470 bbls. light fuel oil;
- (12) 145 cu. yds. Class A Port. cem. concrete;
- (13) 75 cu. yds. Class B do (footings);
- (14) 16,100 lbs. bar reinf. steel;
- (15) 54 lin. ft. 8-in. corr. metal pipe;
- (16) 2130 lin. ft. 18-in. do;
- (17) 426 lin. ft. 24-in. do;
- (18) 626 lin. ft. 30-in. do;
- (19) 84 lin. ft. 36-in. do;
- (20) 506 lin. ft. 12-in. perf. metal pipe underdrain;
- (21) 14 lin. ft. corr. metal pipe, clean and relay;
- (22) 566 lin. ft. corr. metal pipe, remove and salvage;
- (23) 2500 M gals. water;
- (24) 30 cu. yds. light riprap;
- (25) 3.47 miles new property fence, type A;
- (26) .57 mile do, type B;
- (27) 3.4 miles do, type C;

- (28) 3 mile do, type D;
- (29) 28 fence gates;
- (30) 23 MFBM redwood timber dense sel. all-heart struc. grade;
- (31) 17 MFBM redwood timber sel. all-heart struc. grade;
- (32) 1 existing reinf. conc. bridge, remove and dispose of;
- (33) 6 timber guide posts;
- (34) 327 sta. finish rdwy.;
- (35) 95 monuments complete in place.

MARIN COUNTY, Calif.—Until Sept. 21, 2 P. M., bids will be received by the State Highway Commission, Sacramento, to grade and pave with asphaltic concrete 0.4 mi. between Napa St. and Water St. in Sausalito, involving:

- (1) 4500 cu. yds. rdwy. excav., unclass.;
- (2) 19,000 sta. yds. overhaul;
- (3) 9500 cu. yds. material from stockpile;
- (4) 1400 cu. yds. struc. excav.;
- (5) 4500 tons asph. conc.;
- (6) 5 cu. yds. Class A Port. cement conc., (struc.);
- (7) 28 cu. yds. Class A do (curbs and gutters);
- (8) 45 cu. yds. Class C do (sewer encasement);
- (9) 400 lbs. bar reinf. steel;
- (10) 3700 tons crusher run base;
- (11) 1140 tons crushed gravel or stone (oil treated surf.);
- (12) 11,255 sq. yds. asph. paint binder;
- (13) 315 lin. ft. 12-in. vit. clay pipe;
- (14) 705 lin. ft. 18-in. extra strength reinf. conc. pipe;
- (15) 168 lin. ft. 24-in. extra strength reinf. conc. pipe;
- (16) 380 bbls. fuel oil;
- (17) 40 tons screenings (seal coat);
- (18) 50 M. gals. water;
- (19) 340 cu. yds. existing concrete, remove and dispose of;
- (20) 1896 lin. ft. lam. timber guard rail;
- (21) 0.36 mile new property fence;
- (22) 13 catchbasins;
- (23) 21 sta. finish rdwy.;
- (24) 11 monuments in place.

YUBA COUNTY, Calif.—Until Sept. 21, 2 P. M., bids will be received by the State Highway Commission, Sacramento, to grade and pave with asphaltic concrete, 2.5 miles between Wheatland and Morrison Crossing, involving:

- (1) 4000 cu. yds. rdwy. excav., unclass.;
- (2) 10,000 sta. yds. overhaul;
- (3) 32,000 cu. yds. imp. borrow;
- (4) 20,000 cu. yds. pit run gravel;
- (5) 675 cu. yds. struc. excav.;
- (6) 17,100 sq. yds. subgrade for pave.
- (7) 12,000 sq. yds. asph. paint binder;
- (8) 11,500 tons asph. concrete;
- (9) 90 cu. yds. Class Port. cement conc., (struc.);
- (10) 7500 lbs. bar reinf. steel (struc.);
- (11) 240 lin. ft. 12-in. corr. metal pipe
- (12) 464 lin. ft. 18-in. do;
- (13) 64 lin. ft. 24-in. do;
- (14) 176 lin. ft. salvage exist. culverts
- (15) 12 culvert headwalls, remove and reset;
- (16) 40 cu. yds. Port. cem. conc. in exist. pave, and struc., remove and dispose of;
- (17) 1 timber spillway, remove and dispose of;
- (18) 260 lin. ft. timber guard rail, remove and reset;
- (19) 1.75 miles property fence, remove and dispose of;
- (20) 0.6 mile property fence, remove and reset;
- (21) 1.75 miles new property fence;
- (22) 10 fence gates;
- (23) 40 cu. yds. sack conc. riptap;
- (24) 1100 M. gals. water;
- (25) 1330 lin. ft. furnish redwood piles
- (26) 44 drive piles;
- (27) 36 MFBM redwood timber dense sel. all-heart struc. grade;
- (28) 7.5 MFBM redwood timber sel.

- all-heart struc. grade;
- (29) 3 miles shape detour road;
- (30) 745 bbls. light fuel oil;
- (31) 127 sta. finish rdwy.;
- (32) 15 monuments, remove and reset;
- (33) 20 new monuments complete in place.

TRINITY COUNTY, Calif.—Until Sept. 12, 2 P. M., bids will be received by U. S. Bureau of Public Roads, 461 Market St., San Francisco, C. H. Sweetser, District Engineer, to grade 4.512 miles Section D, Route 5, Douglas City-Peanut National Forest Highway, Trinity National Forest, involving:

- (1) 34 acres clearing;
- (2) 198,500 cu. yds. unclass. excav.;
- (3) 1,900 cu. yds. do, struc.;
- (4) 107,000 sta. yds. overhaul;
- (5) 4,512 miles finish earth graded rd.
- (6) 61 cu. yds. concrete;
- (7) 1,900 lbs. reinf. steel;
- (8) 3,346 lin. ft. corr. metal pipe;
- (9) 160 cu. yds. hand laid rock embankment;
- (10) 132 right of way monuments;
- (11) 3 spillway inlets.

Specifications obtainable from above office on deposit of \$10, returnable; certified check payable to Regional Fiscal Agent, U. S. Forest Service.

HUMBOLDT COUNTY, Cal.—Until Sept. 21, 2 P. M., bids will be received by State Highway Commission, Sacramento, to grade and surface with screened gravel 7.6 mi. between Benbow and 7 miles north of Garberville, involving:

- (1) 85 acres clear and grub right of way, Loc. A;
- (2) 6 acres do, Loc. B;
- (3) 716,000 cu. yds. rdwy. excav., unclass.;
- (4) 3,815,000 sta. yds. overhaul;
- (5) 7920 cu. yds. struc. excav.;
- (6) 1470 cu. yds. trench excav.;
- (7) 1500 cu. yds. trench backfill;
- (8) 8700 cu. yds. sel. material;
- (9) 19,000 cu. yds. screened gravel surf.;
- (10) 50,000 cu. yds. gravel base;
- (11) 4000 M. gals. water;
- (12) 370 cu. yds. Class A Port. cem. conc. struc.;
- (13) 31,500 lbs. bar reinf. steel struc.;
- (14) 340 lin. ft. 8-in. corr. metal pipe;
- (15) 120 lin. ft. 10-in. do;
- (16) 3700 lin. ft. 18-in. do;
- (17) 2200 lin. ft. 24-in. do;
- (18) 800 lin. ft. 30-in. do;
- (19) 480 lin. ft. 36-in. do;
- (20) 70 lin. ft. 42-in. do;
- (21) 220 lin. ft. 78-in. do;
- (22) 50 lin. ft. 12-in. part circle corr. metal pipe;
- (23) 130 lin. ft. 18-in. do;
- (24) 200 lin. ft. 24-in. do;
- (25) 1100 lin. ft. 8-in. perf. metal pipe underdrain;
- (26) 550 lin. ft. corr. metal pipe, remove and dispose of;
- (27) 800 timber guide posts and culvert markers;
- (28) 64 MFBM redwood sel. all-heart struc. grade;
- (29) 2700 sq. yds. sel surf. (log fill);
- (30) 1300 bbls. fuel oil;
- (31) 401 sta. finish rdwy.;
- (32) 150 monuments complete in place.

ARIZONA STATE—Until 2:30 P. M., Sept. 13, bids will be received by T. S. O'Connell, State Highway Engineer, Uhoenix, Arizona, for highway construction on the Holbrook-Lupton Highway, N.R.H. 83-G. The work, which begins approximately 18 miles east of Holbrook and extends east approximately 3.3 miles to the county line, consists of the grading, draining and placing of base course and is to be completed on or before January 31, 1934. The principal items are:

- 9,000 cu. yds. rdwy. excav.;
- 700 cu. yds. drainage excav.;
- 240 cu. yds. struc. excav.;
- 15,000 cu. yds. borrow excav.;

- 7,000 sta. yds. earthwork overhaul;
 - 11,000 cu. yds. base course material;
 - 10,300 cu. yds. ml. do haul;
 - 70 cu. yds. concrete;
 - 5,000 lbs. reinf. steel;
 - 328 lin. ft. corr. metal pipe (various sizes);
 - 34,800 lin. ft. std. line fence;
 - and other incidental items.
- Proposal guarantee 5%. 29

ARIZONA STATE—Until 2 P. M., Sept. 13, bids will be received by T. S. O'Connell, State Highway Engineer, Phoenix, Ariz., for highway construction on the Flagstaff-Fredonia Highway, N.R.H. 95-G. The work, which begins at a point about six miles east of Flagstaff and extends northerly approximately 8.7 miles, consists of the grading, draining and placing of base course, and is to be completed on or before January 31, 1934. The principal items are:

- 106,700 cu. yds. rdwy. excav.;
- 1,900 cu. yds. drainage excav.;
- 700 cu. yds. struc. excav.;
- 400 cu. yds. borrow excav.;
- 33,000 sta. yds. earthwork overhaul;
- 38,000 cu. yds. sel. borrow;
- 29,000 cu. yds. ml. sel. borrow haul;
- 18,000 cu. yds. agg. base course;
- 56,000 cu. yds. ml. agg. base course haul;
- 280 cu. yds. conc.;
- 17,400 lbs. reinf. steel;
- 1,800 lin. ft. corr. metal pipe (various sizes);
- 2,000 lin. ft. cable road guard;
- 56,500 lin. ft. std. line fence;

ALTERNATE
2,000 lin. ft. steel plate road guard and other incidental items.
Proposal guarantee, 5%. 29

LANDER COUNTY, Nevada.—Until Sept. 12, 2:30 P. M., bids will be received by S. C. Durkee, State Highway Engineer, Carson City, to construct 15.92 miles between Campbell Creek and Railroad Pass, Rt. 2, Sec. B, involving:

- (1) 75,000 cu. yds. rdwy. excav.;
- (2) 25,207 sta. yds. overhaul;
- (3) 57,118 cu. yds. selected borrow;
- (4) 1,100 cu. yds. struc. excav.;
- (5) 15.92 miles subgrade;
- (6) 50,300 cu. yds. crushed gravel or stone surf.;
- (7) 70 cu. yds. Class A concrete;
- (8) 127 cu. yds. Class B concrete;
- (9) 9,955 lbs. reinf. steel;
- (10) 116 lin. ft. 15-in. corr. metal pipe
- (11) 392 lin. ft. 18-in. do;
- (12) 2,744 lin. ft. 24-in. do;
- (13) 160 lin. ft. 30-in. do;
- (14) 214 lin. ft. 36-in. do;
- (15) 44 monuments;
- (16) 172 lin. ft. remove culvert pipe;
- (17) 36 remove culvert headwalls;
- (18) remove conc. culvert (lump sum)
- (19) 1,968 lin. ft. remove fence;
- (20) 5,506 lin. ft. reconstruct fence;
- (21) 15.92 miles finish roadway.

Specifications obtainable from above office on deposit of \$15, \$10 returnable. Certified check 5% required with bid.

ALAMEDA, Alameda Co., Cal.—Until Sept. 5, 8 P. M., bids will be received by D. Elmer Dyer, city clerk, to improve Park St. from Santa Clara Ave. to Buena Vista Ave., involving:

- (1) 370 cu. yds. excavation;
- (2) 300 tons crusher run base;
- (3) 650 tons asph. conc. base;
- (4) 375 tons asph. conc. surf.;
- (5) 50 tons non-skid surf.

Specifications are obtainable from B. Hamilton, City Engineer, City Hall. Certified check 10% required with bid.

TULARE COUNTY, Cal.—Yglesias Bros., Box 25, San Diego, at \$164,874 awarded contract by U. S. Bureau of Public Roads for 3.37 mi. grading Section B, General Grant-Sequoia Park Road.

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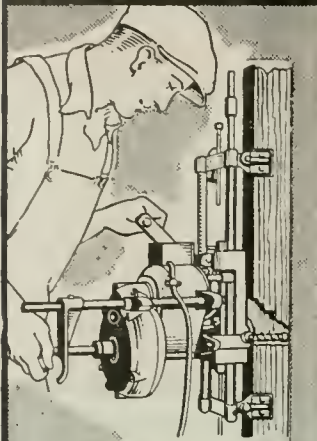
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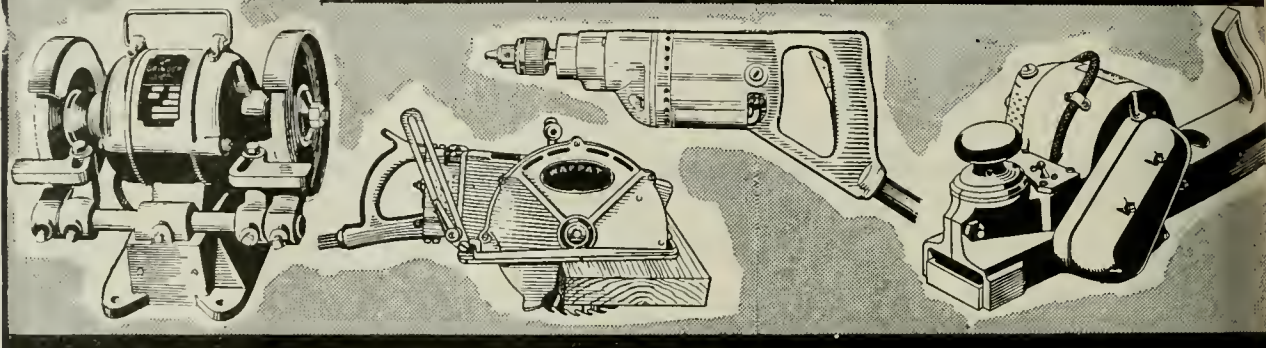
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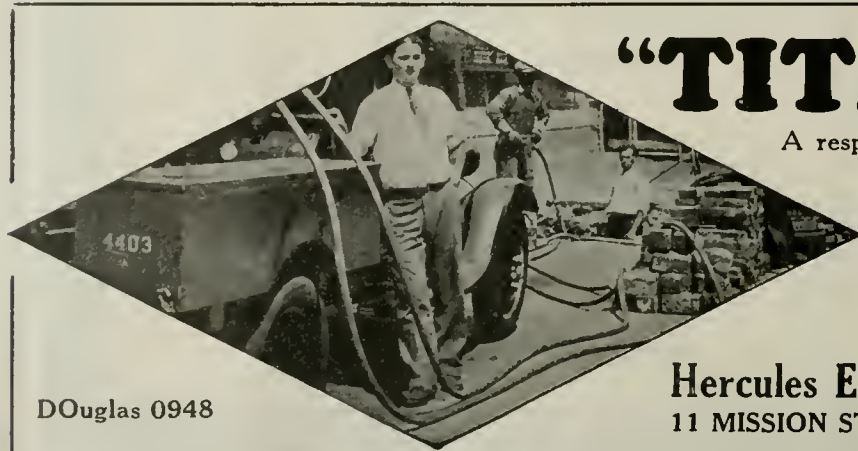
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CONTRACTORS TO CELEBRATE BID OPENING

State-Wide Rally of Construction Industry Planned at Sacramento

Opening of bids on more than four million dollars worth of highway work by the California State Highway Commission next Wednesday will be the occasion for a mammoth rally of the construction industry at Sacramento.

Plans are being made by the Northern and Southern chapters of the Associated General Contractors for a joint banquet Wednesday night at the Hotel Senator which hundreds of members and their guests will attend. Announcement of the affair was made yesterday by Floyd O. Booe, secretary of the Northern chapter, and F. J. Connolly, secretary of the Southern chapter.

Contractors and materialmen will gather at the capital from every part of the state to attend the highway bid openings Wednesday, Thursday and Friday. With 41 contracts advertised for opening on these three days it will establish a record for launching state highway work.

"As the opening gun in State Director of Public Works Kelly's program to let \$20,000,000 in highway contracts and to re-employ 50,000 men before Christmas, the construction industry should plan a celebration worthy of the occasion," George Pollock, president of the Northern Chapter, Associated General Contractors, said yesterday.

"I hope we can make this an event long to be remembered as the beginning of our industry's return to normal business."

Officials in charge of the evening's program said Director Kelly, Frank E. Trask, state engineer for the public works advisory board, representatives of the federal and state public works agencies in Nevada and other officials would be guests of honor at the gathering. The affair will start with a dinner at the Hotel Senator at 6:30 Wednesday.

THE WEEK'S NEWS Highlights

CONSTRUCTION CODE—Hearing of the proposed code of fair practices for the California construction industry sponsored by the State Builders' Exchange will commence Monday morning at 10 o'clock. The hearing is before Deputy Corporation Commissioner A. Michel in offices of the Corporation Commission, State Building, San Francisco.

The code proposed (text in issue of August 19) will affect every branch of the state's industry if accepted. Labor and employer interests from each group will be represented at the hearing, it is expected.

This is a summary of the state code record for the past week:

Submitted—Crushed Rock, Sand and Gravel Industry; Furnace Dealers and Sheet Metal Contractors of Northern California, Inc.; Retail Lumbermen's Association of California; Building Material Council of Northern California; Excavators and Dump Truck Owners' Association of Northern California; Concrete Contractors of San Francisco and Alameda counties; Water Heater and Gas Warm Air Heating Industry of California.

Hearings Scheduled—California State Builders' Exchange basic code, 10 a. m., September 11;

Northern California Weatherstrip Association, 10 a. m., September 14;

California Reinforcing Steel Institute, 10 a. m., September 18.

Filed and Not Scheduled—Water Well Drilling Contractors of Northern California; Southern California Stone Producers and Contractors' Association.

NATIONAL CODE—Hearings commenced September 6 on the basic code for the construction industry proposed by the Construction League of the United States. Hearings on supplemental codes are in progress, including: General Contractors, Architects, Master Painters, Electrical Contractors, Marble Industry, Building Granite Industry, Cement Gun Contractors, Plumbing and Heating Contractors, Heating and Piping Contractors.

MATERIAL MEN CODE RECEIVED BY COMMISSION

Provisional Acceptance To Await Conferences on Differences

Retail lumber dealers and building material men spent a full day yesterday with Deputy Corporation Commissioner A. Michel in an attempt to complete an acceptable code of fair practices for their businesses. At the end of the day the code was accepted provisionally by the commissioner with the understanding that committees representing various groups would endeavor to reach an accord within the next few days.

A joint hearing was conducted by Commissioner Michel on the code submitted by the California Retail Lumbermen's Association, asking a state-wide code, and that submitted by the Building Material Council of Northern California, asking a code for Northern California.

The codes, excepting for minor provisions, are identical, according to officials sponsoring them.

H. A. Lake of Garden Grove, Orange county, is president of the Lumbermen's Association; E. T. Robie, Auburn, vice-president, and D. C. Essley, Oakland, is manager. Mr. Essley presented the code for the sponsors.

The codes provide for regulation of competition by control of any proposed increase in distributing facilities, establishing uniform cost accounting systems, prohibiting sale below minimum prices and elimination of unfair sales practices.

More than a hundred dealers attended the hearing.

Concrete contractors of San Francisco and Alameda counties who entered protests to the retail material men's codes in so far as they might affect sale of concrete aggregates, earlier in the day had submitted their own code to the commission. The code was presented without protest. It provides a 70-cent minimum wage for laborers and \$1 for finishers; 7-hour day and 35-hour week.

The code was presented by Kenneth H. Henry for the Concrete Contractors' Association of San Francisco and J. E. Wentworth for the Master Concrete Contractors' Association of Alameda County.

PWA MINIMUM WAGE SCHEDULE IS APPROVED

**Board Fixes \$1.10 Hourly
Payment for Skilled
Labor in California**

Minimum wage rates on construction projects undertaken through the assistance of the federal public works funds have been approved in a resolution recently passed by the Public Works Board. The rates were under an agreement signed by representatives of the American Federation of Labor, arranged by the United States Department of Labor. Under the resolution the country is divided into three wage zones: Southern, Central and Northern. It is specified that the rates are to be effective for public works fund construction for a period not to exceed 12 months.

The Labor Wage Board, consisting of Henry W. Blumberg, Carpenters Union; Charles L. Reed, Electrical Workers Union; John Colfield, Plumbers Union; Thos. A. Lane, Bricklayers Union, and M. J. McDonough, signed the agreement. Mr. McDonough is chairman of the Building Trades Council of the American Federation of Labor.

The agreement in resolution form as adopted by the Special Board for Public Works, states:

"I. Be it resolved that, for the purpose of determining wage rates on all construction financed from funds appropriated by the Administrator of Public Works under the authority of the National Industrial Recovery Act, the United States shall be divided into three zones, as follows:

Southern Zone: South Carolina, Georgia, Florida, Arkansas, Alabama, Mississippi, Louisiana, Arizona, Oklahoma, Texas and New Mexico.

Central Zone: Delaware, Maryland, Virginia, Tennessee, Colorado, Utah, California, North Carolina, West Virginia, Kentucky, Missouri, Kansas, Nevada, and District of Columbia.

Northern Zone: Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Indiana, Wisconsin, Minnesota, Nebraska, Wyoming, Oregon, South Dakota, Idaho, Pennsylvania, Ohio, Michigan, Illinois, Iowa, North Dakota, Montana and Washington.

The hourly wage rates to be paid on construction projects in these zones shall not be less than the following:

Southern Zone: skilled labor, \$1.; unskilled labor, 40 cents.

Central Zone: skilled labor, \$1.10 unskilled labor, 45 cents.

EMPLOYMENT AGENCY WORK IS DESCRIBED

How the divisions of employment agencies, State Department of Industrial relations, cooperates with the Federal government to take workers off the charity list is told in a section of the report of T. A. Reardon, director of the department, in a report today to the Governor's council.

"This division is working directly in cooperation with the National re-employment Service under which jobs will be allocated to the unemployed of this state, for public works contracts already in excess of \$15,600,000," the report states.

The plan to be followed is as follows: When a contract is awarded, the state employment division is notified of the name of the contractor two weeks in advance. Men to be employed are then selected from capable, bona fide residents who live within a radius of 50 miles of the proposed job.

"This means jobs for a great many persons at present unemployed," Reardon points out, "and an immediate increase in spending power in California."

The Federal government has already allotted \$500,000 to the National Re-employment Service in California, the report adds.

Northern Zone: skilled labor, \$1.20; unskilled labor, 50 cents.

"II. Be it further resolved, that in the event that the prevailing hourly rate prescribed under collective agreements or understandings between organized labor and employers on April 30, 1933, shall be above the minimum set for any district within that zone; that agreed wage rate shall be the rate to be paid for employees on construction projects financed from funds appropriated by the Administrator of Public Works under the authority of the National Industrial Recovery Act.

"III. Be it further resolved, that the rates specified in paragraphs I and II shall be effective during the life of any contract financed from funds appropriated by the Administrator of Public Works under the authority of the National Industrial Recovery Act, but for a period not to exceed 12 months.

"IV. Be it further resolved, that the above designated minimum rates are not to be used in discriminating against assistants, helpers, apprentices and serving laborers who work with and serve skilled journeymen mechanics and who are not to be termed as 'unskilled laborers.'"

STATE REQUIRES NRA PLEDGE OF CODE APPLICANTS

Excavation Contractors Complete Agreement at Speedy Hearing

Two rulings important to groups seeking codes of fair practice under the California Recovery Act were announced yesterday by the Corporation Commission.

(1) Applicants for licenses to operate under approved codes will be granted only to firms who have signed the NRA blanket code.

(2) Seven days will be allowed for applicants to obtain licenses after a code has been declared effective. Applications may be made at the offices of the Corporation Commission or through the trade association sponsoring the code. A fee of 25 cents for each employe will be collected with the application.

These regulations were announced by Deputy Commissioner D. A. Pearce at the conclusion of the hearing on the code submitted by the Excavators and Dump Truck Owners' Association.

This group established a record for speedy action and unanimous agreement on a state code when the hearing of their proposed agreement had been completed twenty-four hours after the Corporation Commission announced receipt of the code. Twenty-four companies are represented by the code group which asks that the regulations be made effective in the state north of the Tehachapi mountains.

E. F. Martin, executive secretary of the association, presented the code for the sponsors. A wage schedule increasing pay of all classes of labor by 8 to 10 per cent was offered and accepted without discussion by representatives of organized labor.

A price increase of about 15 per cent will be necessary to operate under terms of the code, Martin said. This increase will enable firms to operate again at a profit, he declared. Every contractor has been operating at a loss, depreciating his equipment without setting up a capital reserve for replacement, according to Martin. Under the new price schedule replacement of operating equipment which has been worn out in the past three years will commence, extending the code benefits to other industries, Martin said.

Martin said he did not believe that any contract held by members of his organization at the present time was being performed at a profit.

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FEES FIXED FOR SCHOOL INSPECTION

Attorney-General Rules Building Supervisory Charges May Be Grouped

Fees for inspection of new school buildings by the state Division of Architecture should be based on the estimated cost of buildings involved rather than on the number of separate structures, in cases where there are a number of buildings of the same design, Attorney General U. S. Webb ruled Saturday in answer to a query from State Architect G. B. McDougall.

McDougall had asked Webb's opinion in the case of proposed temporary school buildings to be erected in Los Angeles and Long Beach to replace those destroyed in the earthquake.

Los Angeles plans to erect 2500 temporary bungalows, to cost \$500 each. Long Beach proposes to erect 26 similar bungalows at from \$250 to \$400 each.

The state law which makes it a duty of the Division of Architecture to inspect all school buildings sets a fee of one-half of one per cent for the first \$250 and one-quarter of one percent for any amount above \$250, to be paid when plans are filed by the school district with the Division. The minimum fee is \$50.

In the case of the Los Angeles buildings, if the fee were assessed for each separate building, it would amount to \$125,000, a prohibitive figure.

Webb ruled that twenty buildings of identical construction and with the same ground conditions could be taken as a unit. The cost of twenty would be \$10,000, and the fee would be the minimum one of \$50.

SET PAINTERS' SCALE

Shasta county board of supervisors has fixed the wage for bridge painters on county jobs at \$4 per day.

ARMY BUYS ONLY "NRA"

Bidders Must Meet 'Blue Eagle' Terms To Get Contracts

The Army has gone into the "Blue Eagle" camp, the War Department directing that until further notice purchasing and contracting officers will require bidders to include in their bids the following provision, and bidders are also to be instructed that a like provision will be included in the contract:

"The bidder agrees that he will comply with all provisions of the applicable approved code of fair competition for the trade or industry or subdivision thereof concerned, or if there be no approved code of fair competition for the trade or industry or subdivision thereof concerned, then with the provisions of the President's agreement promulgated under authority of section 4 (a) of the act of Congress entitled "An Act to encourage National Industrial Recovery, to foster fair competition and to provide for the construction of certain useful public works, and for other purposes," approved June 16, 1933, or any amendment thereof, without regard to whether the contractor is himself a party to such code or agreement.

"The bidder agrees that where the supplies bid upon are not mined, produced or manufactured in the United States, the special or general code or general code of fair practice shall apply to that portion of the contract executed within the United States."

Seeking legal protection for features of its track-type tractors, Caterpillar Tractor Co. has filed suit against Reinharts, Inc., a Winne-mucca firm selling the products of the International Harvester Company. The case comes to trial on Monday, Sept. 11, before Judge Frank H. Norcross in the United States District Court for the District of Nevada.

Caterpillar Tractor Co. claims that its rights to a large number of patents have been invaded thru International Harvester Company's attempt to enter the track-type tractor field.

S. F. AUGUST PERMIT TOTAL IS \$544,224

Decline In Residential Work from July Figure Shown by Report

August building permits in San Francisco totaled \$544,224, according to the report of Wm. H. Worden, director of public works.

This figure compares with \$770,290, the total in July, and \$1,035,714 in August, 1932.

The number of permits issued was 442, comparing with 445 in July and 451 in August, 1932.

Permits for private residences numbered 57 and were valued at \$282,584 last month. This is a decrease of about fifty percent from the July total of 116 permits and \$497,654 in value. It is approximately the same as the total both in number and value in the corresponding month last year.

Alteration work totaling \$147,579 in the month is about equal to that in July, when the total was \$149,836.

Virtually no state or other public work is included in last month's total, while in August, 1932, this classification accounted for \$418,460.

Following are comparative figures for the two corresponding months:

	August, 1933		August, 1932	
	No. P'mts	Est. Cost	No. P'mts	Est. Cost
A	1	\$ 7,000	.....	.....
B	1	500	.....	.....
C	7	98,600	8	171,400
Frames	57	282,584	58	212,894
Alter.	375	147,579	381	232,990
State	3	404,969
Public	1	7,961	1	13,491
Total	442	\$544,224	451	\$1,035,714



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Stockton, Calif.

PERMITS AND CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
662	Musto	Sbarboro	3000
663	Brickell	Jacks	18000
664	Onorato	Hardy	1300
665	Bay View	Owner	1700
666	Rainier	Owner	20000
667	S F	Wilhelm	30000
668	Condrin	Owner	1200
669	Mang	Owner	1000
670	Mercantile	Thulin	1535
671	Torre	Soracco	7500
672	Jarkich	Owner	1500

STORE

(662) SW 35th AVE. and Irving St.; one-story frame store.
Owner—Musto & Keenan, 535 North Point Street.
Architect—Not Given.
Contractor—Sbarboro & Jorgensen, 207 Walnut St. \$3000

ALTERATIONS

(663) 239 GEARY ST.; alter lofts.
Owner—J. Brickell Co., % contractor.
Architect—Hyman & Appleton, 68 Post Street.
Contractor—Jacks & Irvine, Call Bldg. \$18,000

ALTERATIONS

(664) 761 MARKET ST.; alter market.
Owner—V. Onorato, 761 Market St.
Architect—Not Given.
Contractor—A. M. Hardy, 686 Harrison Street. \$1300

DWELLING

(665) E MENDEL 100 N Palou Ave.; one-story and basement frame dwelling.
Owner—Bay View Mutual Aid Society 4705 3rd St.
Architect—Not Given. \$1700

MALT HOUSE

(666) W BRYANT N Alameda; one-story and mezzanine Class C malt house.
Owner—Rainier Brewing Co. Inc., 1550 Bryant Street.
Engineer—Leland L. Rosener, 233 Sansome St. \$20,000

ALTER OFFICES

(667) SW COR SEVENTH and Howard Sts.; alter offices.
Owner—The San Francisco Assn. for the Blind, 7th and Howard Sts.
Engineer—Walter L. Huber, 1 Montgomery Street.
Contractor—A. H. Wilhelm, 666 Mission Street. \$30,000

DWELLING

(668) E DIAMOND 150 N Susset; 1-story and basement frame dwelling.
Owner—A. Condrin, 16 Powers Ave.
Architect—Not Given. \$1200

ALTERATIONS

(669) 211 MONTEREY BLVD.; alter dwelling.
Owner—Misses Madeline and Muriel Mang, 211 Monterey Blvd.
Architect—Not Given. \$1000

REPAIRS

(670) NW POST AND FILLMORE. Repair fire damage to stores and apartments.
Owner—Mercantile Properties Corp., 63 Brady St., San Francisco.
Architect—Not Given.
Contractor—A. L. Thulin, 63 Brady St., San Francisco. \$1585

FLATS

(671) E BAKER ST. 100 S Chestnut St. Two-story and basement frame (2) flats.
Owner—A. A. Torre et al, % Contractor.
Architect—Not Given.
Contractor—F. A. Soracco, 127 30th St., San Francisco. \$7500

WAREHOUSE

(672) W BAYSHORE HIGHWAY 235 S Cortland. Two-story frame warehouse.
Owner—A. E. Jarkich, 2419 Harrison St., San Francisco.
Architect—Not Given. \$1500

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
387	Brusasco	Owner	3400
322	Bonds	Owner	5000
323	Bonds	Owner	5000
324	Marsh	Walker	4000
325	Pearce	Pearce	3000
326	Beery	Netherby	3000
338	Yazdi	Degen	5500
389	U. of C.	Clinton	1850
390	Thompson	De Velbiss	1200
391	Berkeley	Netherby	4000
392	Harwood	Owner	4000
393	Carlson	Whalen	2110
394	Coast	East Bay	14000
395	King	Owner	4000
396	Key	Brumfield	1545
397	Allen	Woolley	1435
398	20th	Cone	2500
399	Sears	Owner	1900
400	Shattuck	Pennell	3600
401	Bigelow	Rose	1200
402	Scammell	Owner	4000

DWELLING

(320) NO. 904 THIRTY-FIFTH AVE OAKLAND. One-story 6-room dwelling.
Owner—Mrs. Marie Hintze, 902 35th Ave., Oakland.
Architect—Not Given.
Contractor—Howard F. Sims, 1939 Courtland Ave., Oakland. \$3500

DWELLING

(321) NO. 3969 WATERHOUSE RD., OAKLAND. One-story 6-room dwelling.
Owner—A. H. Monez, 4350 Bridgeway Drive., Oakland.
Architect—Not Given. \$2950

DWELLING

(322) NO. 656 SANTA ROSA ST., BERKELEY. One-story six-room frame dwelling and garage.
Owner—Milton S. Bonds, 30 Halkin Lane, Berkeley.
Architect—Not Given. \$5000

DWELLING

(325) NO. 2827 SHASTA RD., BERKELEY. Two-story five-room frame dwelling and garage.
Owner—Gerald G. Pearce, 1717 Oxford St., Berkeley.
Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.
Contractor—Gerald G. Pearce. \$3000

DWELLING

(326) NO. 6545 LIGGETT DRIVE, OAKLAND. One-story 5-room dwelling.
Owner—Mr. Beery.
Architect—Not Given.
Contractor—W. A. Netherby, 3853 Lyman Road, Oakland. \$3000

DWELLING

(387) NO. 4526 WEST ST., OAKLAND. One-story 5-room dwlg.

Owner—John Brusasco, 46th and West Sts., Oakland.
Architect—Not Given. \$3400

DWELLING

(388) NO. 2910-12 TELEGRAPH AVE., BERKELEY. Two-story 7-room frame dwelling.
Owner—Ali M. Yazdi, 1472 University Ave., Berkeley.
Architect—Wm. I. Garren, 233 Post St., San Francisco.
Contractor—Wm. A. Degen, 2065 Santa Clara Ave., Alameda. \$5500

DWELLING

(389) NO. 1550 SACRAMENTO ST., BERKELEY. One-story three-room frame dwelling.
Owner—University of California.
Architect—W. D. Stephenson, University of California., Berkeley.
Contractor—Clinton-Stephenson Construction Co., Ltd., 550 Montgomery St., San Francisco. \$1850

ALTERATIONS

(390) NO. 587 ARLINGTON ST., BERKELEY. Alterations.
Owner—C. G. Thompson.
Architect—Not Given.
Contractor—C. Dudley De Velbiss, 354 Hobart St., Oakland. \$1200

DWELLING

(391) NO. 921 GRIZZLY PEAK BLVD BERKELEY. One-story 5-room frame dwelling and garage.
Owner—Berkeley Hillside Co., 3853 Lyman Road, Oakland.
Architect—Not Given.
Contractor—W. A. Netherby, 3853 Lyman Rd., Oakland. \$4000

DWELLING

(392) NO. 3600 BRIGHTON AVENUE, OAKLAND. One-story 6-room dwelling.
Owner—Wm. P. Harwood, 3514 Lyon Ave., Oakland.
Architect—Not Given. \$4000

ALTERATION

(393) 3743 LOMA VISTA AVE., OAKLAND; alterations and addition.
Owner—Arthur Carlson, 3743 Loma Vista Ave., Oakland.
Architect—Not Given.
Contractor—W. E. Whalen, 975 Paramount Road, Oakland. \$2110

MARKET BLDG.

(394) 1831 SOLANO, BERKELEY; 1-story Class C market.
Owner—Coast Income Properties, 2122 Shattuck Ave., Berkeley.
Architect—V. R. Gede, 366 17th St., Oakland.
Contractor—East Bay Const. Co., 830 E 11th St., Oakland. \$14,000

DWELLING

(395) 1420-22 HOPKINS, BERKELEY; one-story 8-room frame dwelling and two garages.
Owner & Builder—E. King, 1370 Hopkins, Berkeley.
Architect—Not Given. \$4000

ROOF SIGN

(396) KEY ROUTE PIER, OAKLAND; roof sign.
Owner—Key Terminal Railway, Ltd.
Architect—Not Given.
Contractor—Brumfield Elec. Sign Co., 965 Folsom St., San Francisco. \$1545

ADDITION

(397) 5621 THORNHILL DR., OAKLAND; addition.

wner—Dr. Warren G. Allen, 3401 Broadway, Oakland.
rchitect—Not Given.
ontractor—B. F. Woolley, 5621 Thornhill Drive, Oakland. \$1495

ALTERATION
98) 1907 BROADWAY, OAKLAND; alterations.
wner—20th & Broadway Realty Co., San Francisco.
rchitect—A. J. Evers, 525 Market St. San Francisco.
ontractor—W. C. Cone, 608 16th St., Oakland. \$2500

ALTERATION
99) REAR 2633 TELEGRAPH AVE. OAKLAND; one-story brick store.
wner & Builder—Sears-Roebuck Co., 26th St. and Telegraph Ave., Oakland.
rchitect—Not Given. \$1900

WELLING
100) NO. 6232 CONTRA COSTA RD OAKLAND. One-story six-room dwelling and one-story garage.
wner—Wm. D. Shattuck.
rchitect—J. E. Dinwiddie, 2815 Oak Knoll, Berkeley.
ontractor—Pennell & Coats, 971 Hillcroft Circle, Oakland. \$3600

REPAIRS
01) NO. 3715 ARDLEY AVE., OAKLAND. Fore repairs.
wner—Mrs. Ida Bigelow. Premises.
rchitect—Not Given.
ontractor—A. H. Rose, 478 25th St., Oakland. \$1200

WELLING
02) NO. 3762 E-THIRTY-EIGHTH St., OAKLAND. One-story six-room dwelling.
wner—J. W. Scammell, 424 Scenic Ave., Piedmont.
rchitect—Not Given. \$4000

**BUILDING CONTRACTS
SAN FRANCISCO COUNTY**

No.	Owner	Contractor	Amt.
6	Chalmers	Gladstone	7267
8	Kuimelis	Jensen	9142
9	Kuimelis	Scott	1316

ALTERATIONS
37) E SPRUCE ST. adjoining SE Cor. Washington St. All work for alterations to three-story frame dwelling and garage.
wner—George Chalmers, 170 Funston Ave., San Francisco.
rchitect — Henry H. Gutterson, 526 Powell St., San Francisco.
ontractor — D. B. Gladstone, 658 Market St., San Francisco.
led Aug. 30, '33. Dated June 9, '33. On 5th of each month..... 75%
Upon completion a sum sufficient to increase total payments to 75%
Usual 35 days.....Final
TOTAL COST, \$7267
ond, none. Limit, 80 days. Forfeit, Plans and specifications, none.

WELLING
38) S UNION ST. 136-10 W Baker W 25-2x9 120 WA 572. Carpenter work, etc., for two-story and basement frame dwelling.
wner — Leon Kuimelis, 2797 Union St., San Francisco.
rchitect — Martin A. Sheldon, 681 Market St., San Francisco.
ontractor — G. P. W. Jensen, 320 Market St., San Francisco.
led, Aug. 31, '33. Dated Aug. 29, '33.
Frame up and roof on.....\$2285
Building brown coated..... 2285
When completed 2287
Usual 35 days..... 2287
TOTAL COST, \$9142
ond, \$4571. Sureties, N. P. Anderson and James Ringrose. Limit, 100 days. forfeit, none. Plans and specifications filed.

(193) PLUMBING, ETC., ON ABOVE Contractor—Scott Co., 243 Minna St., San Francisco.
Filed, Aug. 31, '33. Dated Aug. 29, '33.
Roughing-in completed.....\$487
Work completed 500
Usual 35 days..... 329
TOTAL COST, \$1316
Bond, \$653. Sureties, Wm. P. Scott and T. F. Duffy. Limit, forfeit, none. Plans and specifications filed.

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
58	Allen	Carlson	786

ALTERATIONS
(58) NO. 198 BRET HARTE ROAD, Berkeley. All work for alterations and additions to frame dwelling.
Owner—Laura Kelsey Allen.
Architect — Ellsworth Johnson, 260 California St., San Francisco.
Contractor—Victor Carlson, 2296 Virginia St., Berkeley.
Filed Aug. 30, '33. Dated Aug. 30, '33.
Frame completed 25%
Interior boarding applied..... 25%
Building accepted 25%
Usual 35 days..... 25%
TOTAL COST, \$786
Bond, none. Limit, 25 days. Forfeit, none. Plans and specifications filed.

59	Yazdi	Degen	5403
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RESIDENCE & SHOP
(59) NW COR. HOWE ST. and Telegraph Ave., Berkeley; residence & shop.
Owner—Ali M. and Marion Yazdi, 1472 University Ave., Berkeley.
Architect—Wm. I. Garren, 233 Post St., San Francisco.
Contractor—Wm. Degen, 2055 Santa Clara Ave., Alameda.
Filed Sept. 1, '33. Dated Aug. 31, '33.
Frame sheathed\$1350.00
Brown coated 1350.00
Accepted 1353.40
Usual 35 days..... 1350.00
TOTAL COST, \$5403.40
Limit, Nov. 5, 1933. Plans and Spec. filed.

SAN FRANCISCO UNDER \$1000

ALTER restaurant, \$100; 24 Spring St. owner, Coppa Grill, Prem.; contractor, Phoenix Day Co., 729 Mission St.
ALTER dwelling, \$950; 53 Seward St.; owner, R. P. Good, Premises; architect, T. E. Pring, 525 Market St.; contractor, Moore & Roberts, 693 Mission St.
ALTER dwelling, \$835; 1454-1460 Cortland Ave.; owner, G. H. Andriockes, 833 14th St.; contractor, C. Frank Co., 305 Bocana St.
STUCCO front of dwelling, \$165; 1021-27 Jones St.; owner, Mary E. McMahon, Hotel Plaza; contractor, General Re-Stucco Co., 63 Brady.
ALTER store, \$50; 532 Valencia St.; owner, G. M. and E. M. Eastman, 666 Church St.
ALTER store, \$200; 950 Market St., owner, Maxferd Co., premises; architect, W. E. Huson, 1913 Green St.
BARBER pole, \$10; 885 Bush St.; owner, J. Gonsalez, Prem.; contractor, J. K. Herzog, 243 Paris St.
STUCCO front of store and flats, \$100 950 McAllister St.; owner, M. Napolin, Premises.
STUCCO front of dwelling, \$40; 4627 Irving St.; owner, Mrs. I. M. Cambridge, 4620 Irving St.; contractor, N. Hallstrom, 34 Fountain
SIGN, electric, \$185; 1071 Market St.; owner, Hub Garage, 1071 Market; contractor, Neon Sign Service Co. 1707 Folsom St.
ADD to dwelling, \$125; 1577 Treat Ave.; owner, C. A. Balcom, 1577 Treat Ave.

STUCCO FLATS, \$500; 1254 Pine St.; owner, Marchoud, 1254 Pine St.; contractor, A. Andersen, 2307 Hazelwood Ave.
ALTER dwelling, \$75; 305 Bennington; owner, H. Rasmussen, 305 Bennington.
ADDITION to dwelling, \$50; 8 Farragut; owner, S. Nastasi, 8 Farragut.
ALTER dwelling, \$30; 120 Talbert; owner, J. Stadler, 120 Talbert.
ALTER store, \$250; 220 Clement; owner, A. Kleinert, 315 Montgomery.
ALTER dwelling, \$200; 2850 Broderick; owner, J. L. McLaughlin, 251 Kearny.
PLATFORM, \$124; 735 Montgomery; owner, Bank Garage, Premises; contractor, Guiste & Co.
ALTER dwelling, \$200; 2986 Steiner St.; owner, Mrs. Logan, 2936 Steiner St.; contractor, H. E. Murer, 2516 California St.
BILLBOARD, \$25; NE Lomhard and Baker; owner, West Coast Advertising Co., 1864 Market St.
STUCCO dwelling, \$100; 1754 Leavenworth St.; owner, F. C. Kruse, 1754 Leavenworth St.
ALTER restaurant, \$—; 65 29th St.; owner, M. Giovini, 16 Whitney.
ALTER dwelling, \$250; 468 Gates St.; owner, Carboni, Premises; contractor, C. Frank Co., 305 Bocana.
STUCCO front of dwelling, \$150; 3372 26th St.; owner, Mrs. Brinkman, Premises; contractor, F. A. Stotzer, 363 20th Ave.
REPAIR dwelling, \$50; 1404 Page St.; owner, Mr. Windele, 1404 Page St.
ADDITION, \$225; 1848 Thousand Oaks Ave., Berkeley; owner, George P. Cooligan, 81 Hillcrest; contractor, H. B. Chidester, 1025 Colusa Ave., Berkeley.
ALTERATIONS, \$226; 2328 Blake St. Berkeley, owner, Dr. M. J. Dunn, 2845 Telegraph Avenue, Berkeley; contractor, Crown Roof Co., 2609 E 14th St., Oakland.
ALTER and add, \$125; 1811 40th Ave., Oakland; owner and contractor, Wm. F. Moeller, 1811 40th Avenue, Oakland.
ADDITIONS, \$190; 2935 Acton, Berkeley; owner and builder, L. M. Baird, 2501 Ivy Dr., Oakland.
ALTER roof, \$250; 2966 Russell St., Berkeley; owner, M. S. Wilson, 2966 Russell St., Berkeley; contractor, Crown Roof Co., 2609 E 14th St., Oakland.
ADDITION, \$75; 5555 Thomas Street, Oakland; owner and builder, R. E. Schneider, 1536 11th Ave., Oakland.
SIGNS, three electric, \$400; 3107 E 14th St., Oakland; owner, S. Neider; contractor, Elec. Prod. Corp., 950 30th St., Oakland.
FLUES (2) patent, \$50; S Greenwich 250 E Pierce St.; owner, Pera, 3639 Webster St.; contractor, Bacigalupi & Dagneau, 1837 Union
GARAGE, private, \$150; 321 San Miguel St.; owner, Mrs. S. Camp, 321 San Miguel.
REPAIR dwelling, \$108; 474 Walnut St.; owner, Alice Reese, Prem.
SIGN, electric, \$200; 1 Masonic Ave.; owner, O. T. Thompson, Prem.; contractor, Elec. Prods. Corp., 255 Golden Gate Ave.
ADD to dwelling, \$650; 75 Lamartine St.; owner, R. A. Ford, 80 Danton.
STUCCO front of apartments, \$145; 1225 Pine St.; owner, M. Ginou, Premises; contractor, General Re-Stucco Co., 63 Brady St.
BARBER pole, \$20; 1612-A Geary St.; owner, Sakaye, Premises.
ALTER dwelling, \$200; 890 Dolores St.; owner, Marie Seely, Prem.
ADD to dwelling, \$200; 1233 Gilman; owner, E. Borg, Premises; contractor, A. C. Lindgren, 346 Lowell St.

BUILDING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

- | | |
|---------------------------------|---|
| 1.—Apartments | Offices |
| 2.—Bonds | 11.—Ice and Cold Storage Plants |
| 3.—Churches | 12.—Power Plants |
| 4.—Factories and Warehouses | 13.—Public Buildings, Fire Houses and Jails |
| 5.—Flats | 14.—Residences |
| 6.—Garages and Service Stations | 15.—Schools |
| 7.—Federal Buildings | 16.—Banks, Stores and |
| 8.—Club Buildings | 17.—Theatres |
| 9.—Hospitals | 18.—Wharves & Docks |
| 10.—Hotels | 19.—Misc. Const. |
| | 20.—Misc. Supplies & Materials |

1—APARTMENTS

Plans Completed.
ALTERATIONS Cost, \$2000
SAN FRANCISCO. No. 2118-23 Fillmore Street.
Alterations to two-story frame and stucco flats for apartments (6 apts. and 4 stores) (new store fronts, etc.)
Owner—Matt I. Sullivan.
Architect—A. H. Knoll, Hearst Bldg., San Francisco.

Plans Being Prepared.
APARTMENTS Cost, \$—
MARYSVILLE, Yuba Co., Cal. 424 5th Street.
Six two-room apts. on fifth floor of hotel.
Owner—Marysville Hotel.
Architect—Charles Dean, California State Life Bldg., Sacramento.
Engineer—C. A. Worder, Marysville Hotel, Marysville.
Bids will probably be asked within one week.

Bid Opening Postponed Until September 13th.
APARTMENTS Cost, \$20,000
VALLEJO, Solano Co., Calif. Marin Avenue.
Two-story and basement frame and stucco apartment building (four 4-room apts.) tile roof, gas hot air heating system, oak floors, wall beds, etc., and two-story detached residence (seven rooms) same construction as apartments.
Owner—Mr. O'Neal.
Architect—Chas. E. Perry, 514 Marin Ave., Vallejo.
Bids are being taken from a selected list of contractors.

2—BONDS

LONG BEACH, Calif.—Long Beach voters affirmed a \$4,940,000 bond issue on August 29. Three ballots were voted on as follows:
(1) \$3,000,000 for elementary schools.
(2) 1,830,000 for high schools.
(3) 100,000 for a junior college.

LOS ANGELES, Cal.—The \$3,000,000 flood control bonds were sold by the Los Angeles County Supervisors Sept. 1 to the Bank of America and the Security First National Bank.

3—CHURCHES

Plans Being Figured.
CHURCH Cost, \$35,000
LONG BEACH, Los Angeles Co., Cal. Steel frame church building (to seat

750) steel studs, gunité construction, tile roofing, concrete foundation, tile and marble floors, gas-steam heating system, stained glass, etc.
Owner—Itoman Catholic Bishop of Los Angeles and San Diego.
Architect—E. G. Martin, 4350 Beverly Blvd., Los Angeles.
Engineer—Laurence J. Waller, 4350 Beverly Blvd., Los Angeles.

Plans Being Figured.
CHURCH Cost, \$6000
DUNSMUIR, Siskiyou Co., Cal.
One-story frame and stucco residence
Owner—Dunsmuir Church (Father M. J. O'Connell, Pastor), Dunsmuir.
Architect—Chester Cole, Chlco.

Plans Being Completed.
CHURCH Cost, \$15,000
CRESCENT CITY, Del Norte Co., Cal.
One-story reinforced concrete church (to seat 275).
Owner—Roman Catholic Archbishop (Father Nolan, Pastor), Crescent City.
Architect—Harry Devone, California State Life Bldg., Sacramento.
Bids will be asked in about two weeks.

LOS ANGELES, Cal.—Mr. Lynn, chairman of the building committee of the Roger Williams Baptist Church, corner of Adams and Menlo Ave., is taking bids for the construction of a new church building on Adams St. between Menlo and Elendale Sts. Plans were prepared by Architect C. F. Skilling, 1008 W. Adams St. The building will be a one and part two-story structure containing chapel, Sunday school and gymnasium. It will be 141x100 feet in area; frame and stucco construction, slate, composition and mastic roofing, steel girders, steel sash, wood floors, tile work, etc. A partial list of bidders follows: Myers Bros., 3407 San Fernando Road; W. M. Perdue, 4166 S. Hobart Blvd.; Robt. R. Jones, 6517 W. 6th St.; John Simpson & Co., 701 Antonio St.; Wesco Construction Co., 2000 Hyperion Ave. Bids due September 12th.

Preparing Plans.
REBUILD CHURCH Cost, \$100,000
LONG BEACH, Los Angeles Co., Cal., Fifth and Locust Ave.
Rebuilding church building (new exterior walls, reinforced concrete construction, etc.)
Owner—First Christian Church.
Architect—W. Horace Austin, 532 Chestnut Ave., Long Beach.

4—FACTORIES & WAREHOUSES

Plans Being Completed—Contract Awarded.
WINERY Cost, \$150,000
LODI, San Joaquin Co., Calif. Victor Road.
One-story steel frame and brick winery (420x100) will house bottling and labeling plant, fermenting room, 36-ton refrigeration plant.
Owner—John B. Cella, Lodi.
Architect—H. C. Baumann, 251 Kearny St., San Francisco.
Contractor—L. Franceschi, 1900 Beach St., San Francisco.

Planned.
BUILDING Cost, \$—
ALAMEDA, Alameda Co., Cal. North end of Grand Street.
Corporation yard building.

Owner—City of Alameda (Ralph M. Bryant, City Manager), Alameda.
Architect—Not Given.

Contract Awarded.
BREWERY Cost, \$350,000
SEATTLE, Washington. No. 5225 E. Marginal Way.
Six-story brick, concrete and steel brewing plant (capacity of 500,000 barrels per year).
Owner—Henrich Brewing Co.
Architect—John Graham, Dexter Horton Bldg., Seattle, Wash.
Contractor—Henrikson-Allstrom Co., Textile Tower, Seattle.

OAKLAND, Cal.—Wellman Peck & Co. have purchased property on the east side of Alice St. between Fourth and fifth, providing 30,000 square feet of warehouse space in a new one-story concrete building. Whether any remodeling work will be done or not is not determined at this time.

Bids Wanted.
FACTORY Cost, \$750,000
OAKLAND, Alameda Co., Cal. Foot of Adeline Street on the Estuary.
Steel frame and concrete cocoanut products factory (650x100 ft.) steel frame and reinf. concrete warehouse (40x146 ft.) pile foundations, flat slab roofing, corrugated iron roof and siding.
Owner—El Dorado Oil Works, Third and University Ave., Berkeley.
Engineers—Ellison & Russell, Pacific Bldg., San Francisco.

Bids are now being received by L. S. King, premises, for sheet metal, placing of sheet metal, skylights and ventilators.

Plans Being Prepared.
BUILDING Cost, \$25,000
REDWOOD CITY, San Mateo Co., Cal. Corporation yard building (central building for housing road equipment, etc.) type of construction not determined.
Owner—County of San Mateo.
Plans by James S. James, County Engineer, Redwood City.
The amount of \$25,000 has been included in the budget to finance construction.

Contract Awarded.
BREWERY Cost, \$350,000
SEATTLE, Washington.
Brewery (capacity of 250 barrels per day).
Owner—Pilsner Brewing Co., Seattle, Wash. (H. R. Fischmlaler, Pres.)
Architect—Not Given.
Contractor—Lorenz Bros., Title and Trust Bldg., Seattle.

Sub-Contracts Awarded.
CANNERY Cost, \$15,000
SOQUEL, Santa Cruz Co., Cal.
Mushroom cannery (five mushroom buildings, each 36x104 feet); 19,000 square feet of bedding space each.
Owner—Sierra Mushroom Co., Denver, Colorado, (C. W. Savery and J. T. Young), Santa Cruz.
Plans by Owner.
Contractor—J. H. Broce, Rio Del Mar, California.
Concrete Work—Kenyon Bros., Santa Cruz.

Sub-bids are being received on steam heating system and 240 square yards R. W. shingles.

SAN DIEGO, Cal.—Architect Frank P. Allen, Jr., San Diego, notified Chamber of Commerce directors that

he intends to submit a proposal to the San Diego city council for the establishment of a modern garbage disposal plant. Allen's proposal contemplates requesting a loan of NRA funds to finance the project.

Plans Being Prepared.
BREWERY Cost, \$—
 Astoria, Oregon.
 Brewery (50,000 barrel capacity per year).
 Owner—Astoria Brewing Company.
 Architect—Knighton & Howell, U. S. National Bank Building, Seattle, Wash.

Planned.
ALTERATIONS Cost, \$50,000
REEDLEY, Fresno Co., Cal.
 Alterations and improvements to winery (plant consists of brandy distillery (96x60) frame storage cellar (142x300), boilers, crushers, water tanks, 175 ft. well, 3000 feet of railroad spur trackage, etc.)
 Owner—Mount Tivy Winery and Distillery Company (Lucius Powers, Sr., et al., Holland Bldg., Fresno, et al.)
 Architect—Not Given.

Construction Under Way.
WAREHOUSE Cost, \$5000
OAKLAND, Alameda Co., Cal. No. 2633 Telegraph Ave. (rear).
 One-story Class C brick warehouse (30 by 50 ft.) steel sash, composition roof, etc.
 Owner—Sears-Roebuck Co., 2633 Telegraph Ave., Oakland.
 Plans by Owner.
 Contractor—John M. Bartlett, 1706 Parker St., Oakland.

To Be Done By Day's Work.
WAREHOUSE Cost, \$1500
SAN FRANCISCO. W Baysshore Highway 235 S Cortland Ave.
 Two-story frame warehouse.
 Owner—A. E. Jarkich, 2419 Harrison St., San Francisco.
 Architect—Not Given.

Plans Being Completed.
ADDITION Cost, \$—
SAN FRANCISCO. Stevenson Street near Sixth St.
 Two-story Class C reinforced concrete addition to warehouse (steel sash composition roof, wood floors, etc.)
 Owner—Weinstein Co., 1041 Market St., San Francisco.
 Architect—Hyman & Appleton, 68 Post St., San Francisco.
 Bids will be asked in about one week from a selected list of contractors.

Sub-Contracts Awarded.
WAREHOUSE Cost, \$10,000
STOCKTON. San Joaquin Co., Cal. West Weber Avenue.
 Addition to warehouse (14,000 sq. ft.) wood frame, galvanized iron, concrete floors, etc.
 Owner—Schuler & O'Connell, 4 West Weber Ave., Stockton.
 Plans by Owner.
 Contractor—J. A. Allen, 22 S. Sutter St., Stockton.
Concrete Work—A. Sandberg, 1846 Mt. Diablo Ave., Stockton.
Lumber—San Joaquin Lumber Co., Scotts Ave. and Madison Street, Stockton.
Corrugated Iron—Austin Bros., Stockton.

Low Bidder.
WAREHOUSE Cost, \$—
SAN DIEGO, San Diego Co., Cal.
 One-story and mezzanine floor warehouse (100x300 ft.) structural steel frame, brick walls, steel sash, steel rolling doors, concrete floors, automatic sprinkler system, etc.
 Owner—Wellman Peck & Co., 301 The Embarcadero, San Francisco.

Architect—J. E. Krafft & Sons, Architects & Engineers, Phelan Bldg. San Francisco.
Low Bidder—Walter Trepte, Scripps Bldg., San Diego, at \$35,800.
 Bids on plumbing, electric, inside finish and vault will be taken next week.

Planned.
DOCK, WAREHOUSE, ETC. Cost, \$190,000
VANCOUVER, Washington.
 Dock, storage and warehouse plant.
 Owner—City of Vancouver (Fred R. Brown, Port Manager).
 Architect—Not Given.
 Bonds in the amount of \$190,000 have been voted.

Contract Awarded.
FACTORY Cont. Price, \$24,942
BERKELEY, Alameda Co., Cal. Sixty-third and Overland Sts.
 Two-story steel frame factory (120x140 ft.) (brick walls, concrete work, composition roofing, etc.)
 Owner—Peterson Tallow Co., 65th and Bay Sts., Oakland.
 Engineer—E. W. Remnitz, 1594 63rd St., Oakland.
 Contractor—F. G. Johnson, 4652 Dolores Ave., Oakland.
 Following bids received:
 F. G. Johnson, Oakland.....\$24,942
 Price Constr. Co., Oakland..... 25,248
 Monson Bros., San Francisco..... 25,865
 R. W. Littlefield, Oakland..... 25,950
 E. J. Westlund, Oakland..... 26,545
 George Maurer, Oakland..... 27,376
 Lindgren & Swinerton, Inc., San Francisco 27,835
Cement Chimney—Weber Chimney Co.

Plans Being Figured—Bids Close Sept. 23, 2 P. M.
PACKING HOUSE Cost, \$3000
WATSONVILLE, Santa Cruz Co., Cal. Beach Road.
 One-story frame and corrugated iron packing shed (50x135 ft.) corrugated iron roof, concrete and wood floors, etc.
 Owner—Mr. Strobel.
 Architect—A. W. Story, Pajaro Valley Bank Bldg., Watsonville.

Plans Being Prepared.
BREWERY Cost, \$750,000
SAN FRANCISCO. (Paul Tract) Baysshore Ave. and Third Street.
 Group of Buildings for brewery.
 Owner—General Brewing Corporation (C. W. Ahrens, Director).
 Architect—Fred H. Meyer, 525 Market St., San Francisco.
 Further details will be announced shortly.

Piling Under Way.
PLANT Cost, \$50,000
SAN FRANCISCO. Washington St.
 Two-story reinforced concrete printing plant.
 Owner—Edward Barry Co., 32 Clay St., San Francisco.
 Architect—H. A. Minton, 525 Market St., San Francisco.
 Engineer—L. H. Nishkian, 525 Market St., San Francisco.
 Contractor—David Paganini, 519 California St., San Francisco.
 Piling is now under way by M. E. McGowan, 74 New Montgomery St. As previously reported, reinforcing steel contract awarded to W. S. Wettenhall, 17th and Wisconsin Sts., and brick contract to T. Sontag.

5—FLATS

Sub-Bids Wanted.
FLATS AND STORES Cost, \$6000
SAN FRANCISCO. NE McAllister and Laguna Sts.
 Two-story and basement frame and stucco flats and stores.
 Owner—P. Paul, % Contractor.
 Architect—Irvine & Ebbets (R. R.

Irvine, Architect), 2048 Market St., San Francisco.
 Contractor—Anderson & Ringrose, 320 Market St., San Francisco.

Contract Awarded.
FLATS Cost, \$7500
SAN FRANCISCO. E Baker St. 100 S Chestnut St.
 Two-story and basement frame and stucco flats (2) flats.
 Owner—A. A. Torre, et al, % Contractor.
 Architect—Not Given.
 Contractor—F. A. Soracco, 127 30th St., San Francisco.

Plans Being Figured.
FLATS Cost, \$13,000
SAN FRANCISCO. Filbert St. near Franklin St.
 Two-story and basement frame and brick flats (2, 6-room flats); gas heating system, tile work, hardwood floors, etc.
 Owner—Withheld.
 Architect—J. A. Porporato, 619 Washington St., San Francisco.
 About one week will be allowed for figuring the plans.

Sub-Contract Awarded.
FLATS Cont. Price, \$9,285
SAN FRANCISCO. Union St. 136 W Baker St.
 Two-story and basement frame and stucco flats (two 6-room flats) asphalt, gravel and terra cotta tile roof, steam heating, gas furnace, hardwood floors, canvas walls, hardwood trim, electric refrigeration, etc.)
 Owner—Leon Kuimellis.
 Architect—Martin Sheldon, Monadnock Building.
 Contractor—G. P. W. Jensen, 320 Market St.
Grading and Concrete: Louis Sartorio, 2627 Lombard St.
 As previously reported:
 Plumbing—Scott Co., 243 Minna St., \$1,220.
 Electric—Decker Elec. Const. Co., 528 Bryant St., \$611.

6—GARAGES & SERVICE STATIONS

LOS ANGELES, Cal.—Pershing Sq. Garage Co., 1275 Subway Terminal Bldg., has requested a loan of NRA funds in the sum of \$2,000,000 for the proposed garage to be constructed beneath Pershing Square. Plans contemplate a 3-story, underground structure, to accommodate 2900 cars, with ramps, comfort stations, escalators, sprinkler system, automatic lifts and ventilating and pumping systems. It is proposed to lease the site from the city. Those interested in the project are W. I. Hollingsworth, Ralph Huesman, C. C. C. Tatum, Mattison R. Jones, Force Parker, W. I. Hollingsworth, Jr., and David J. Faries. S. C. Lee, 2404 W 7th St., is the consulting architect, with Architects E. T. Heitschmidt and I. E. Loveless, associated.

Sub-Contracts Awarded.
SERVICE STATION Cost, \$5000
BERKELEY, Alameda Co., Cal. NW Shattuck Ave. and Ashby St.
 Brick super-service station (terra cotta partitions, part tile and composition roofing, etc.)
 Owner—J. C. Cragmile, 2344 Webster St., Berkeley.
 Plans by Ray Keefer, 770 Wesley St., Berkeley.
 Contractor—W. T. Vaughn, 501 Welton St., Oakland.
Concrete—Norman MacLeod, 571 Spruce St., Berkeley.
Brick Work—Hallert & Neal, 2500 65th Ave., Oakland.

Contract Awarded.
SERVICE STATION Cost, \$3175
 COLMA, San Mateo Co., Calif.
 Steel service station.
 Owner—Associated Oil Co., 79 New
 Montgomery St., San Francisco.
 Plans by Engineering Dept. of Owner.
 Contractor—Independent Iron Works,
 821 Pine St., San Francisco.

Contract Awarded.
GARAGE Cont. Price, \$8500
 SALINAS, Monterey Co., Cal.
 One-story reinforced concrete garage
 (50x116 ft.) concrete floors and
 walls, Summerbell trusses, steel
 sash, guarantee mineral roof, etc.
 Owner—Mrs. Nellie Muller, Monterey
 Ave., Salinas.
 Architect—Charles McKenzie, Twoby
 Bldg., San Jose.
 Contractor—E. F. Reese, 35 Santa
 Lucia Ave., Salinas.
 Following bids received:
 E. F. Reese, Salinas \$ 8,500
 W. E. Greene, Salinas 8,583
 F. C. Carlson, Salinas 8,830
 H. C. Geyer, Monterey 8,863
 A. Stanton, Monterey 8,872
 H. C. Preston, Salinas 9,852
 P. T. Walstrom, Watsonville... 10,300

Plans Being Figured—Bids Close Sept.
 14, 3 P. M.

GARAGE Cost, \$3000
 MADRONE, Santa Clara Co., Cal.
 One-story frame and corrugated iron
 garage .59x50 ft., plaster front,
 corrugated iron roof, cement floor,
 etc.
 Owner—R. Moesle.
 Architect—Chas. McKenzie, Twoby
 Bldg., San Jose.
 Following have procured plans:
 M. W. Reese, 1210 Minnesota Ave.,
 San Jose.
 George Honore, 136 Race St., San
 Jose.
 Jack Williams, 892 Michigan St.,
 San Jose.
 Dyke Walton, 1217 University Ave.,
 San Jose.
 T. Peterson, San Jose.

7—FEDERAL BUILDING

Completing Plans.
POST OFFICE Cost, \$300,000
 HOLLYWOOD, Los Angeles Co., Cal.
 NW Wilcox and Selma Avenues.
 One- and two-story steel frame and
 masonry post office building (202x
 134) stone or terra cotta exterior,
 tile and composition roof, steel
 windows, marble, tile and terrazzo
 work, wood block floors, steam
 heating system, etc.
 Owner—United States Government.
 Architect—Claud Beelman, Union Bk.
 Bldg., and Allison & Allison, Edl-
 son Bldg., Los Angeles.

SAN DIEGO, Cal.—Until September
 26, 11 a. m., bids will be received by
 the Public Works Officers, Eleventh
 Naval District, foot of Broadway, San
 Diego, for heating plant building and
 chimney at the Naval Operating Base
 (Air Station), San Diego. Specifica-
 tion No. 7415. Work includes concrete
 work, steel and iron work, steel win-
 dows and doors, stucco and plaster,
 carpentry, tile roofing, plumbing and
 plumbing fixtures, electrical system,
 sanitary sewer, roof drainage, fresh
 and salt water piping connection from
 the existing adjacent mains to the
 building.

Bidding data obtainable from above
 office upon deposit of \$10.

WASHINGTON, D. C.—Mayers,
 Murray & Phillip, New York City,
 have been commissioned as supervising
 architects in connection with the
 building program for the Indian Ser-
 vice for which \$2,820,000 was allotted
 by the Public Works Administration.

CUSHING, Okla.—Until 10 A. M.,
 September 15 (opening date postponed
 from Sept. 1), bids will be received by
 the Treasury Department, Office of
 the Supervising Architect, Washing-
 ton, D. C., for the construction of
 the United States Post Office at Cush-
 ing, Okla. Plans may be obtained
 from the architect in Washington up-
 on deposit of \$20, checks to be made
 payable to the Treasurer of the
 United States. Jas. A. Wetmore,
 acting supervising architect.

WASHINGTON, D. C.—D. Zelinsky,
 165 Grove St., San Francisco, at \$23,-
 880 submitted low bid to Treasury
 Department for painting plaster sur-
 faces in the U. S. Marine Hospital at
 Seattle, Washington. Complete list
 of bids will be published shortly.

8—CLUB BUILDINGS

Plans Being Completed.
MEMORIAL BLDG. Cost, \$70,000
 SAN LEANDRO, Alameda Co., Cal.
 Bancroft Ave. near Estudillo.
 Two-story reinforced concrete Vet-
 erans' memorial building (100x125)
 tile roof, steam heating system.
 Owner—County of Alameda.
 Architect—Henry H. Meyers, Kohl
 Bldg., San Francisco.
 Plans will be completed in one week
 or ten days.

LOS ANGELES, Cal.—Los Angeles
 park commission has approved plans
 for a proposed field house or golf club,
 along with a new automatic sprink-
 ling system, to be built in Griffith
 Park at an estimated cost of \$184,000.
 The plans have been forwarded to the
 city planning commission for approval
 as to design. Application will be made
 for a loan of NRA funds with which
 to finance the project.

Painting Contract Awarded.
CLUB Cont. Price, \$574,000
 SAN FRANCISCO, NE Taylor and
 Post Streets.
 Four-story Class A brick and terra
 cotta club, gymnasium, dormitory,
 dining room, kitchen, elevators.
 Owner—Bohemian Club (Timothy
 Healy, Secretary).
 Architect—Lewis P. Hobart, Crocker
 Building.
 Structural Engineer—W. P. Day, Fi-
 nancial Center Building.
 Mechanical Engineer—Atkins & Park-
 er, Hobart Building.
 Contractor—Dinwiddie Const. Co.,
 Crocker Building.
 Painting—D. Zelinsky, 165 Grove St.
 Other awards reported Aug. 3.

Contract Awarded.
LODGE BLDG. Cost, \$—
 SANTA MARIA, Santa Barbara Co.,
 Cal. No. 112 W. El Camino St.
 Frame and stucco lodge building (42x
 97 feet) to contain auditorium,
 stage, kitchen, store rooms and
 lockers (tile and composition roof,
 maple floors, etc.)
 Owner—Loyal Order of Moose (Wm.
 Fischer, Dictator).
 Architect—Not Given.
 Contractor—O. C. Marriott & Co., 700
 S. McClelland St., Santa Maria.

Preparing Working Drawings.
MEMORIAL Cost, \$54,000
 WATSONVILLE, Santa Cruz Co., Cal.
 Two-story reinforced concrete and
 structural steel Veterans' Memor-
 ial (90x170 ft.) will contain audi-
 torium to seat 1500; club rooms,
 etc.; tile and composition roofing,
 hot air heating system, hardwood
 and tile floors, etc.
 Owner—County of Santa Cruz.
 Architect—A. W. Story, Pajaro Valley
 Bank Bldg., Watsonville.
 Bids will be asked in about four or
 five weeks.

9—HOSPITALS

RIVERSIDE, Riverside Co., Calif.—
 Henry L. A. Jekel, 5063 Magnolia Ave.
 Riverside, is preparing plans for a
 new wing to be added to the Neigh-
 bors of Woodcraft Home in Riverside.
 It will be a reinforced concrete and
 steel structure, containing 120 guest
 rooms. Mrs. Minnie Hiner is chair-
 man of the board of managers of the
 home.

11—ICE AND COLD STORAGE PLANTS

Plans Prepared.
REFRIGERATION PLANT
 Cost, \$50,000

PHOENIX, Arizona.
 Refrigeration plant.
 Owner—Arizona Carbonic Ice Co.
 Architect—Orville A. Bell, Heard Bldg.,
 Phoenix, Ariz.
 John R. C. Long and John Red-
 mond, Phoenix, Ariz., are interested
 in the project.

12—POWER PLANTS

TACOMA, Wash.—Until Sept. 11, 2
 P. M., bids will be received by board
 of contracts and awards, 307 City
 Hall, to furnish 30-kv. street lighting
 transformers 2400 volts 20 ampere con-
 stant current. Specifications obtain-
 able from above office.

GILA, Ariz.—Until Sept. 21, 10 a. m.,
 bids will be received by C. H. Sweet-
 ser, District Engineer, U. S. Bureau
 of Public Roads, 802 Title & Trust
 Bldg., Phoenix, Ariz., to re-erect steel
 truss bridge on Section 1, Route 20,
 Globe-Holbrook National Forest High-
 way, Tonto National Forest, involv-
 ing:
 (1) 170 cu. yds. unclass. excav., struc.;
 (2) 33 MFBM untr. timber;
 (3) 64 cu. yds. concrete;
 (4) 2700 lbs. reinf. steel;
 (5) 280 sq. yds. asph. seal coat;
 (6) re-erect steel span (lump sum).
 Specifications obtainable from above
 office on deposit of \$10 certified check
 payable to Regional Fiscal Agent, U.
 S. Forest Service.

13—PUBLIC BUILDINGS FIRE HOUSES & JAILS

SAWTELLE, Los Angeles Co., Cal.
 —Public Works Administration has
 approved repairs at the Soldiers Home
 in Sawtelle. Details as to the cost
 and nature of the work are not avail-
 able.

BELL, Los Angeles Co., Calif.—City
 of Bell has requested a loan of NRA
 funds in the sum of \$80,000 with which
 to finance the construction of a new
 city hall and a swimming pool.

Commissioned To Prepare Plans.
PUBLIC BLDGS. Cost, \$—
COMPTON, Los Angeles Co., Cal.
 One-story steel frame city hall (150x
 200) to house library, fire station,
 police department, etc.
 Owner—City of Compton.
 Architect—Marsh, Smith & Powell, 816
 W 5th St., Los Angeles.

VENTURA, Ventura Co., Cal.—Ven-
 tura county supervisors have request-
 ed a loan of NRA funds in the sum
 of \$165,000 to be used for construct-
 ing the proposed new county museum
 and library buildings in Ventura. H.
 E. Burket, 455 E Main St., Ventura,
 architect.

SAN FRANCISCO—Until September
 13, 1:45 P. M., informal bids will be
 received by S. J. Hester, Chief Deputy

Director, Department of Public Works, City Hall, for electrical work for the Van Ness Avenue Police Station. Specifications available from the Bureau of Architecture, City Hall.

SAN FRANCISCO—Pacific Elevator & Equipment Co., 45 Rausch St., at \$8466 awarded contract by Department of Public Works for new passenger elevator in the Civic Auditorium for the Board of Education. Complete bids published August 17.

CALIFORNIA—Governor Rolph has signed an application requesting NRA funds totaling \$31,397,691 for construction of State buildings and other public works in California.

The largest single item in the public works program is \$5,167,035 for the development of the new State Hospital at Camarillo, Ventura county. Also included in the list is \$1,500,000 for a new Southern California prison.

Other items in excess of \$1,000,000 follow: Napa State Hospital, \$1,399,522; veterans' home at Yountville, \$1,316,000; State fairgrounds, Sacramento, \$1,195,000; Stockton State Hospital, \$1,453,990; San Francisco State Teachers' College, \$1,585,000; Agnews State Hospital, \$4,818,400; Santa Barbara State Teachers' College, \$1,162,000 and the Patton State Hospital, \$1,059,617.

Included in the list are \$500,000 for new buildings at the University of California, Berkeley, and \$441,000 for the University of California at Los Angeles. The University of California medical department, San Francisco, also is included for \$100,000. The State Narcotic Hospital will get \$190,750 on the Pacific Colony, \$967,920.

Practically all of the State parks are included for improvement work. State armories are proposed for Oakland, Berkeley, Fresno, Santa Barbara, San Pedro, San Bernardino, Santa Ana and San Diego.

San Quentin Prison is included for \$300,000 and Folsom for \$200,000. The San Diego State Teachers' College is included in the tentative list for \$468,000 and the University of California Institute at La Jolla, \$23,000.

MARTINEZ, Contra Costa Co., Cal.—H. H. Henning, 1751 Berkeley Ave., Stockton, at \$3096 submitted low bid to County Board of Supervisors for removal and remodeling of two buildings in rear of Court House. Following bids received:

H. H. Henning, Stockton.....	\$3096
R. F. Johnson, Richmond.....	3289
Carl Overaa, Richmond.....	3289
F. Silno, Pittsburg.....	3673

All bids were rejected. Work will be done by owner's forces.

SANTA BARBARA, Calif.—Santa Barbara city council authorized the city clerk to draw up an application to be presented to the Public Works Administration requesting a loan of \$300,000 for financing the proposed municipal auditorium in Santa Barbara. Architect and Engineers Edwards and Plunkett, 20 E Figueroa St., Santa Barbara, will probably design the structure.

14—RESIDENCES

Contract Awarded.
RESIDENCE Cost, Price, \$13,490
LOS GATOS, Santa Clara Co., Cal.
 Two-story frame and stucco residence.
 Owner—Gordon Ainsley.
 Architect—Ralph Wyckoff, First National Bank Bldg., San Jose.
 Contractor—N. J. Nielsen, 1270 Irls Court, San Jose.

Plans Being Completed.
RESIDENCE Cost, \$15,000
SAN FRANCISCO, Marina District.
 Two-story and basement frame, stucco and brick veneer residence (eight room and 2 baths).
 Owner—Withheld.
 Architect—Clarence Tantau, 210 Post St., San Francisco.
 Bids will be asked in one week.

Sub-Contracts Awarded.
RESIDENCE Cont. Price, \$22,659
HILLSBOROUGH, San Mateo Co., Cal.
 Two-story and basement frame and stucco residence (12 rooms and 4 baths) shingle roof, gas heating system, tiled baths, hardwood floors, etc.

Owner—Thomas Fortune Ryan.
 Architect—Willis Folk Co. (Angus McSweeney, architect) 277 Pine St., San Francisco.

Contractor—A. P. Mattock Co., 212 Clara St., San Francisco.

Excavation and Roads—San Mateo Feed & Fuel Co., San Mateo.

Steel—W. S. Wetenhall Co., 17th and Wisconsin Sts., San Francisco.

Sheet Metal—Gaffigan Co., San Mateo.

Plumbing—Jas. H. Pinkerton Co., 927 Howard St., San Francisco.

Hardwood Floors—Royal Floor Co., 7th and Brannan Sts., San Francisco.

Glass—W. P. Fuller & Co., 301 Mission St., San Francisco.

Additional Sub-Contracts Awarded.
RESIDENCE Cost, \$5000
BERKELEY, Alameda Co., Cal. Santa Barbara Road and Arlington St.
 One-story and basement frame and stucco residence (6 rooms) shingle roof, gas heating system, tiled bath, hardwood floors, canvas walls in bath and kitchen, etc.

Owner—Mrs. C. Mattison.

Plans by Mr. Confer.
 Contractor—F. W. Confer, 5730 Keith St., Berkeley.

Roofing—W. L. Rideout, 641 Central Ave., Alameda.

Flooring—C. V. Graziano, 454 Cavour St., Oakland.

Other awards reported Aug. 30, 1933.

Contract Awarded.
RESIDENCE Cost, \$5500
PALO ALTO, Santa Clara Co., Calif.
 1050 Creek Drive.

One-story and basement frame and stucco residence (5 rooms).

Owner—Walter C. Drugg, 1050 Creek Drive, Palo Alto.

Architect—Not Given.
 Contractor—Ralph C. Knight, 595 Bailey Ave., Mountain View.

Contract Awarded.
RESIDENCE Cost, \$5133
SAN JOSE, Santa Clara Co., Cal. NW University and Chapman St.

One-story and basement frame and stucco residence.

Owner—Lester A. Bunds, 124 Liberty St., San Jose.

Architect—Not Given.
 Contractor—Pacific Mfg. Co., Santa Clara.

Sub-Contracts Awarded.
REMODEL RESIDENCE Cost, \$3500
PIEDMONT, Alameda Co., Calif. 350 Mountain Avenue.

Remodel residence (brick veneer, tile roofing, plastering interior tile work, bath walls, etc.)

Owner—Earl B. Kilburn, 350 Mountain Ave., Piedmont.

Plans by Mr. Pickrell.
 Contractor—J. H. Pickrell, 332 Santa Clara Ave., Alameda.

Millwork—Atkinson Mill & Mfg. Co., 2985 Chapman St., Oakland.

Cement—Reichel & Bredhoff, 1555 Central Ave., Oakland.

Plumbing—Ambrose Bros., 206 Crumalia Ave., San Leandro.

Lumber—Zenith Mill & Lumber Co., 2101 E 12th St., Oakland.

Additional Sub-Contracts Awarded.
RESIDENCE Cost, \$3500
PIEDMONT, Alameda Co., Cal. Sandringham Road.

Two-story and basement frame and stucco residence (six rooms) tile roof, gas hot air heating system, tiled baths, hardwood floors, etc.

Owner and Builder—A. Hammarberg, 2430 Le Conte Ave., Berkeley.

Plans by Owner.

Fixtures—Maxwell Hardware Co., 1320 Washington St., Oakland.

Hardwood Floors—Johnson Hardwood Floor Co., 2215 McGee Ave., Oakland.

Flat Concrete—M. Medis, 2427 Scenic Ave., Oakland.

Tile—Richard Orcutt, Oakland.

Other awards previously reported.

Owner Taking Bids.
RESIDENCE Cost, \$4500
DALY CITY, San Mateo Co., Cal. San Bruno Ave. and Cavour St.

One-story and basement frame and stucco residence (5 rooms); tiled bath, composition roof, gas heating system, etc.

Owner—Louis Donati, 662 San Diego Ave., San Francisco.

Architect—Mario Corbett, 683 Sutter St., San Francisco.

Plans Being Re-Figured.
RESIDENCE Cost, \$4500
SAN FRANCISCO. Silver Terrace.

One-story frame and stucco residence (5 rooms and 2 baths) tile roof, wrought iron railing, gas heating system, hardwood floors and trim, tiled baths, etc.

Owner—Al Guglielmo, % Architect.
 Architect—Mario Corbett, 683 Sutter St., San Francisco.

Previous bids taken have been rejected.

Plans Being Prepared.
RESIDENCE Cost, \$8000
SAUSALITO, Marin Co., Cal.

Two-story wood frame residence (8 rooms and 3 baths) Colonial type.

Owner—Withheld.
 Architect—R. H. Bickel, Crocker Bldg. San Francisco.

Sub-Contracts Awarded.
RESIDENCE Cost, \$4000
BERKELEY, Alameda Co., Calif. 549 Cragmont Avenue.

Two-story frame and stucco residence (six rooms).

Owner and Builder—W. A. Netherby, 3853 Lyman Road, Oakland.

Plans by Owner.

Lumber—Smith Lbr. Co. of Oakland, foot of 19th Ave., Oakland.

Plumbing—J. A. Fazio, 402 Castro St. Oakland.

Furnace—Atlas Heating & Ventilating Co., 1451 32nd St., Oakland.

Sub-bids will be received on all other portions of the work.

Plans Being Figured.
RESIDENCE Cost, \$——
BERKELEY, Alameda Co., Cal. Hilldale Avenue.

One-story and basement frame and stucco residence (5 rooms); tile and composition roof, gas heating system, hardwood floors, etc.

Owner—Mr. Hannah.
 Architect—Not Given.

J. M. Walker, 1709 Grove St., Berkeley, is figuring the plans and desires sub-bids on all portions of the work.

Sub-Contracts Awarded.
RESIDENCE Cost, \$6500
BERKELEY, Alameda Co., Cal. San Luis Road.

Two-story frame, stucco and brick veneer residence (6 rooms and 2

baths) wood sash, hot air heating system, oak floors, tiled baths, tile roof, etc.
 Owner—John Rutherford, 124 Ardmore Road, Berkeley.
 Architect—E. L. Snyder, 1201 Shattuck Ave., Berkeley.
 Contractor—J. M. Walker, 1709 Grove St., Berkeley.
 Cement—Golden Gate Stucco and Building Materials Co., Masonic and Brighton Sts., Berkeley.
 Earthquake Bracing, Etc.—J. H. Piatt, 2024 University Ave., Berkeley.
 Lumber—Humphrey & Farrar Lumber Co., Berkeley.

Plans Being Figured.
 RESIDENCE Cost, \$—
 BERKELEY, Alameda Co., Cal. Cragmont Avenue.
 Two-story and basement frame and stucco residence (English type); shingle roof, gas heating, hardwood floors, tiled bath, etc.
 Owner—T. Wadsworth.
 Architect—Arthur Dudman, 61 Bungalow St., San Rafael.
 P. J. Walker, 1709 Grove St., Berkeley, is figuring the plans and desires sub-bids on all portions of the work.

Contract Awarded.
 RESIDENCE Cost, \$6000
 BERKELEY, Alameda Co., Cal. No. 2910-12 Telegraph Avenue.
 Two-story frame and stucco residence (7 rooms).
 Owner—Al. M. Yazdi, 1472 University Ave., Berkeley.
 Architect—Wm. I. Garren, 233 Post St., San Francisco.
 Contractor—W. A. Gegen, 2055 Santa Clara Ave., Alameda.

Additional Sub-Contracts Awarded.
 RESIDENCE Cost, \$—
 LAFAYETTE, Contra Costa Co., Cal. Happy Valley Road.
 One-story frame and stucco residence (six rooms; Dutch Colonial type) rustic redwood exterior, stucco interior, patio, coal furnace, etc.
 Owner—Miss Harriet Snyder.
 Plans by E. M. Sorensen.
 Contractor—E. M. Sorensen, 1807 Parker St., Pacific.
 Mill Work—Beric Mfg. Co., Santa Clara.
 Electric Fixtures—E. L. Reed, 2541 Seminary Ave., Berkeley.
 Flooring—Johnson Hardwood Floor Co. 2215 McGee Ave., Berkeley.
 Other awards reported August 17.

Preparing Sketches.
 RESIDENCES Cost, \$—
 BERKELEY, Alameda Co., Cal. Claremont Court District.
 Two two-story and basement frame and stucco residences.
 Owner—Withheld.
 Architect—E. L. Snyder, 2101 Addison St., Berkeley.

Plans Being Figured.
 RESIDENCE Cost, \$—
 LAFAYETTE, Contra Costa Co., Cal. One-story and basement frame and stucco residence (6 rooms) Spanish style, tile roof, gas heating system, hardwood floors, etc.
 Owner—Withheld.
 Architect—Miller & Warnecke, Financial Center Bldg., Oakland.

Owner Taking Bids.
 RESIDENCE Cost, \$5500
 OAKLAND, Alameda Co., Cal. One-story and basement frame and stucco residence (6 rooms) tile roof, gas heating system, hardwood floors, etc.
 Owner—T. Charez, % Mr. Dixon.
 Plans by W. W. Dixon, 1844 5th Ave., Oakland.

Contract Awarded.
 RESIDENCE Cost, \$5000
 OAKLAND, Alameda Co., Cal. Rockridge District.
 One-story and basement frame and stucco residence (6 rooms) shingle roof, gas heating system, hardwood floors, canvas walls, tiled baths, steel sash, etc.
 Owner—Dr. D. A. Torrano, 5816 Ocean View Drive, Oakland.
 Architect—Williams and Wastell, 374 17th St., Oakland.
 Contractor—Zaballos Bros., 914 Soto St., Hayward.

Plans Being Re-Figured.
 RESIDENCE Cost, \$6000
 VALLEJO, Solano Co., Cal. Two-story and basement frame and stucco residence (7 rooms and 2 baths) tile roof, gas heating system, hardwood floors, tiled baths and kitchen, etc.
 Owner—Mr. Foley.
 Architect—F. H. Slocombe, 131 Monte Cresta Ave., Oakland.

To Be Done By Day's Work.
 RESIDENCE Cost, \$—
 BERKELEY, Alameda Co., Cal. 1420-1422 Hopkins St.
 Two-story frame and stucco residence (8 rooms).
 Owner & Builder—E. King, 1370 Hopkins St., Berkeley.
 Architect—Not Given.

Contract Awarded.
 ADDITION Cost, \$2500
 OAKLAND, Alameda Co., Calif. 3743 Loma Vista Ave.
 Alterations and additions to residence.
 Owner—Arthur Carlson, 3743 Loma Vista Ave., Oakland.
 Architect—Not Given.
 Contractor—W. E. Whalen, 975 Paramount Road, Oakland.

Contract Awarded.
 ADDITION Cost, \$1500
 OAKLAND, Alameda Co., Calif. 5621 Thornhill Drive.
 Addition to residence.
 Owner—Dr. Warren G. Allen, 3401 Broadway, Oakland.
 Architect—Not Given.
 Contractor—B. F. Woolley, 5621 Thornhill Drive, Oakland.

Sub-Contracts Awarded.
 RESIDENCE Cost, \$3200
 OAKLAND, Alameda Co., Cal. Oakmore Highlands.
 One-story and basement frame and stucco residence (5 rooms) composition and part tile roof, gas heating system, hardwood floors.
 Owner & Builder—A. H. Monez, 4350 Bridgeview, Oakland.
 Plans by W. W. Dixon, 1844 Fifth Ave., Oakland.
 Frames—C. W. Carman, 1740 E 21st St., Oakland.
 Lumber—Loop Lumber Co., Broadway and Blanding, Alameda.
 Concrete—Otto Hennig, 3527 Suter St. Oakland.

Sub-Bids Being Taken.
 RESIDENCE Cost, \$4000
 SAN FRANCISCO, Cayuga Ave. near Santa Rosa.
 One-story and basement frame and stucco residence (5 rooms) solarium type, tile and gravel roof, gas heating system, hardwood floors, etc.
 Owner and Builder—Robt. McAfee, 125 Cervantes Blvd.
 Plans by B. K. Dobkowitz, 425 Monterey Blvd.

Sub-Contracts Awarded.
 RESIDENCE Cost, \$5000
 OAKLAND, Alameda Co., Calif. 3609 Brighton Avenue.

One-story and basement frame and stucco residence (6 rooms).
 Owner and Builder—Wm. P. Harwood, 3514 Lyon Ave., Oakland.
 Architect—Not Given.
 Lumber, Frames, Millwork—Melrose Lumber & Supply Co., 1201 46th Ave., Oakland.
 Plumbing—W. P. Rouse, 3606 Ardley Ave., Oakland.
 Concrete—Allen MacDonald, 1539 39th Ave., Oakland.
 Brick—Henry Koenig, 4418 Ygnacio Ave., Oakland.
 Plastering—Harry Mortensen, 4060 E 18th St., Oakland.
 Flooring—Acme Hardwood Floor Co., 4261 35th Ave., Oakland.
 Iron Work—Jas. Eandi, 1336 61st Ave., Oakland.
 Roofing—N. V. Heathorne, 1830 78th Ave., Oakland.
 Painting—A. F. Palmer, 3202 35th Ave., Oakland.
 Hardware—Diamond Hardware Co., Oakland.
 Sheet Metal—Frank Christoph, 3441 Salisbury St., Oakland.

Additional Sub-Contracts Awarded.
 RESIDENCE Cost, \$5000
 BERKELEY, Alameda Co., Calif. 595 Vincente Street.
 One-story and basement frame and stucco residence (7 rooms).
 Owner—L. C. Weiland, 324 Curtis St., Berkeley.
 Plans by W. W. Dixon, 1844 Fifth Ave., Oakland.
 Contractor—Milton S. Bonds, 914 The Alameda, Berkeley.
 Brick Work—W. H. Wisseropp, 3749 Quigley St., Oakland.
 Sewer Work—Ben Jepsen, 1122 Brighton Ave., Oakland.
 Other awards reported Aug. 22.

Contract Awarded.
 ALTERATIONS Cost, \$—
 SAN MATEO PARK, San Mateo Co. Alterations to frame residence (enlarge living room, painting, etc.)
 Owner—B. A. Gayman, 555 Occidental Ave., San Mateo.
 Architect—Kent & Hase, 525 Market St., San Francisco.
 Contractor—Chas. Stockholm & Sons, Russ Bldg., San Francisco.

Sub-Contracts Awarded.
 RESIDENCE Cost, \$5000
 SAN JOSE, Santa Clara Co., Cal. 126 George Street.
 Two-story frame and stucco residence (7 rooms).
 Owner—Miss Hazel I. Macauley, 93 Hobson St., San Jose.
 Architect—Not Given.
 Contractor—W. F. Blakeslee, 112 George St., San Jose.

Excavation, Concrete Foundation, Cement Steps and Walk—J. C. Bateman.
 Brick Work—D. F. Curry.
 Lumber, Mill Work, Hardwood Flooring—Hubbard & Carmichael Bros.
 Plumbing—Hardy Forsythe, 384 West Santa Clara St., San Jose.
 Plastering—R. B. Brownlee, 1670 East Santa Clara St., San Jose.
 Painting and Papering—Chas. Rice, 80 N 8th St., San Jose.
 Electric Wiring—Faser Bros., 68 South 10th St., San Jose.
 Tile Roofing—A. C. Bush, 1565 Franklin St., San Jose.
 Hardware, gas furnace, sheet metal and inside tile work not yet awarded.

Sub-Contracts Awarded.
 RESIDENCE Cont. Price, \$17,833
 MENLO HEIGHTS, San Mateo Co. Two-story and basement frame and stucco residence (12 rooms) redwood exterior, oak floors, linoleum floors and "lino-wall" wall covering in baths, oil furnace hot air heating system, hardwood trim, casement and double hung win-

dows, sash, ornamental and sheet metal, garage with servants' quarters, etc.
 Owner—Hutton Webster.
 Architect—Hunt & Chambers, Continental Bldg., Los Angeles.
 Contractor—Arthur Payne, Box 274, Redwood City.
Masonry—C. Mills, Palo Alto.
Plumbing—V. Dophee, Redwood City Electric—Coast Electric Co.
Mill Work—Pacific Mfg. Co., Santa Clara.
Reinforcing Steel—Soule Steel Co., 1750 Army St., San Francisco.
Sheet Metal—Sequola Sheet Metal Works, Redwood City.
Tile Work—Art Tile Co., 221 Oak St., San Francisco.

Contract Awarded.
RESIDENCE Cost, \$50,000
 SIMI, Ventura Co., Cal.
 Spanish residence (stucco exterior, tile roof, 8 bathrooms, etc.)
 Owner—David Strathearn.
 Architect—Not Given.
 Contractor, William Yeakle, 981 Central Ave., Fillmore.
Electric: Stanley Romain, Fillmore.

Sub-Bids Wanted.
RESIDENCE Cost, \$—
 Berkeley, Alamea Co., Cal. Cragmont District.
 Two-story frame and stucco residence (rustic exterior) (6 rooms); shingle roof.
 Owner—C. D. Pierce, % Architect.
 Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.
 Sub-bids are being taken on electric wiring, plumbing, tile, gas hot air heating system, etc.
Painting: A. C. Armstrong, 3875 Brighton, Oakland.
Excavating, concrete: M. E. Valente, 5118 Clark St., Oakland.

Heating Bids Being Taken.
RESIDENCE Cost, \$10,000
 SAN FRANCISCO, 19th Ave. 100 S Anza St.
 Two-story and basement frame and stucco residence (11 rooms and 2 baths), tile roof, tiled baths and kitchen, hardwood floors and trim, hot water heating system or warm air fired boiler, etc.)
 Owner—Withheld.
 Architect—J. Lloyd Conrich, 214 9th Avenue.
 Heating bids are being received by the owner who can be reached through the architect.
 As previously reported, plumbing awarded to Anderson & Rowe, 45 Belcher street.

Contract Awarded.
RESIDENCE Cost, \$6,000
 Palo Alto, Santa Clara Co., Cal. 1436 Hamilton Street.
 One-story and basement frame and stucco residence (5 rooms).
 Owner—Susie A. Midgett.
 Architect—Chas. K. Sumner, Decker-oak Bldg., Palo Alto.
 Contractor—Harry Engman, 112 Mari-
 posa St., Palo Alto.

Contract Awarded
RESIDENCE Cost, \$10,000
 HILLSBOROUGH, San Mateo Co., Cal. Balleyanna Road.
 Two-story and basement frame and stucco residence (8 rooms and 2 baths), shingle roof, gas heating system, hardwood floors, tiled baths, etc.
 Owner—F. T. Covell.
 Architect—E. L. Norberg, 407 Occidental Ave., Burlingame.
 Contractor—Lengfeld & Olund, 220 Third Ave., San Mateo.

Sub-bids Being Taken.
RESIDENCE Cost, \$3,500
 SAN FRANCISCO, Calif.
 One-story and basement frame and

stucco residence (5 rooms), tile and composition roof, gas heating system, hardwood floors, etc.
 Owner and Builder—It. F. Galli, 1574 28th Avenue.
 Plans by B. K. Dobkowitz, 425 Monterey Blvd.
Plans Being Figured.
RESIDENCE Cost, \$—
 SAN FRANCISCO, St. Francis Wood.
 One and one-half-story frame and stucco residence (8 rooms and 3 baths); slate roof, gas heating system, tiled baths, hardwood floors, etc.
 Owner—Dr. J. L. Carr.
 Architect—Masten & Hurd, 233 Post St., San Francisco.

Plans Being Prepared.
RESIDENCE Cost, \$4500
 BURLINGAME, San Mateo Co., Cal.
 One-story and basement frame and stucco residence (6 rooms), garage, tile and composition roof, gas heating system, tiled bath, hardwood floors, etc.
 Owner—Charles Hammer, 1524 Floribunda Ave., Burlingame.
 Architect—D. E. Jaekle, Call Bldg., San Francisco.

Plans Being Completed.
RESIDENCE Cost, \$8000
 HEALDSBURG, Sonoma Co., Cal.
 One and one-half-story frame and stucco residence (7 rooms and 2 baths) shingle tile roofing, wood furnace, wood sash, hardwood floor, pine trim, etc.
 Owner—Raford Jones.
 Architect—William Herbert, Rosenberg Bldg., Santa Rosa.
 Bids will be asked within one week.

Contract Awarded.
RESIDENCE Cost, \$9000
 SAN FRANCISCO, St. Francis Wood.
 Two-story and basement frame and stucco residence.
 Owner—Mr. Stocker.
 Architect—Masten & Hurd, 233 Post St., San Francisco.
 Contractor—Clinton-Stephenson Construction Co., 559 Montgomery St., San Francisco.

Sub-bids are wanted on excavation and lumber.
Contract Awarded.
RESIDENCE Cost, \$—
 LOS ALTOS, Santa Clara Co., Cal. Country Club Property.
 Rustic residence (2 dressing rooms & baths, living room, kitchen; 2 sleeping porches) shingle roof, redwood exterior.
 Owner—Mr. and Mrs. George L. Hurst
 Architect—W. W. Wurster, 260 California St., San Francisco.
 Contractor—Arthur Payne, Upland Drive, Redwood City.

Plans Being Figured.
RESIDENCE Cost, \$10,000
 ROSS, Marin Co., Cal. Lagunitas Avenue.
 Two-story and basement frame and stucco residence (9 rooms and 3 baths), shakes roof, probably gas heating system, tiled baths, colored fixtures, hardwood floors, etc.
 Owner—Japue Van Meurs.
 Architect—H. H. Wlanner, Woodsworth Ave., Ross.

Plans Being Figured.
RESIDENCE Cost, \$3250
 CROCKETT, Contra Costa Co., Cal.
 One-story and basement frame and stucco residence (five rooms) detached garage, English style, shake roof, gas heating system, pine floors, etc.
 Owner—Glen L. Markeley.
 Architect—Mario Corbett, 683 Sutter St., San Francisco.

Bids Opened.
ALTERATIONS Cost, \$—
 HILLSBOROUGH, San Mateo County, Cal. Easton Drive.
 Alterations and additions to two-story and basement frame residence (add rooms, new plumbing, heating, wiring, mill work, etc.)
 Owner—Paul I. Fagan, Hillsborough.
 Architect—Arthur Brown, Jr., 251 Kearny St., San Francisco.
 Low bidder—Young & Horstmeyer, 461 Market St., San Francisco.
 Following bids received:
 (1) Omitting elevator, deduct.
 (2) Finish in elevator shaft, add.
 (3) Omitting beams in ceilings, deduct.
 (4) Omitting porch, deduct.
 (5) Omitting dining room, deduct.
 Young & Horstmeyer, San Francisco

Francisco	\$70,981
(1)	1,875
(2)	75
(3)	1,250
(4)	4,270
(5)	5,350

J. R. Oswald, San Francisco.....\$83,400

(1)	1,899
(2)	75
(3) .....	.....
(4) .....	.....
(5) .....	.....

E. W. Yount, San Francisco.....\$83,866

(1)	2,943
(2)	101
(3)	1,404
(4)	4,650
(5)	6,596

Dowsett-Ruhl, San Francisco.....\$88,316

(1)	1,905
(2) .....	.....
(3)	1,660
(4)	5,500
(5)	8,721

Bessett Building Company,
 Burlingame

(1)	\$89,580
(2)	1,899
(3)	1,600
(4)	5,700
(5)	8,921

Chas. Stockholm & Sons, San Francisco

(1)	\$89,807
(2)	1,400
(3)	1,300
(4)	4,200
(5)	5,200

A. F. Mattock, San Francisco.....\$94,123

(1)	1,800
(2) .....	.....
(3) .....	.....
(4)	1,400
(5)	4,480
(6)	5,469

Bids held under advisement.

To Be Done By Day's Work.
RESIDENCE Cost, \$5,000
 OAKLAND, Alameda Co., Cal. 2762 East 38th Street.
 One-story and basement frame and stucco residence (6 rooms).
 Owner and Builder—J. W. Scammell, 424 Scenic Ave., Piedmont.
 Plans by owner.

15—SCHOOLS

COMPTON, Los Angeles Co., Cal.—Until 3:00 P. M., Sept. 15, bids will be received by the Compton High School and Junior College District for repairing the main buildings at the Willowbrook and Clearwater junior high schools. The work contemplated will include the reduction of the buildings to one-story structures, replacing existing walls with frame and stucco, and the erection of new 6-unit classroom additions at both schools. Plans are being completed by Architects Marsh, Smith and Powell, 816 W 5th St., Los Angeles, and will be ready for contractors the first part of next week.

Being Done By Day's Work.

BUILDING

SAN MATEO, San Mateo Co., Cal.
One-story wood frame temporary Classroom building (2 classrooms)
Owner—San Mateo Junior College District.

Architect—W. F. C. Gillam, 1470 Broadway, Burlingame.

Work is being done by day's labor under the supervision of owner.

ALAMEDA, Alameda Co., Cal.—Until Sept. 19, 5 P. M., bids will be received by Wm. G. Paden, Secretary, Alameda Board of Education, Administration Bldg., Oak St. and Alameda Ave., Alameda, to furnish one radial drill, Carlton or equal, 3-ft. arm, 11-in. column, equipped with one plain table. Motor to be 3-phase, 220-volt, 60-cycle. Specifications are obtainable from above office. Certified check 10% required with bid.

Contract Awarded.
SCHOOL REPAIRS Cost, \$—
TUCSON, Arizona.
Repairs to school (rebuild roof, roof repairs and other emergency work)
Owner—School District No. 1.
Architect—M. H. Starkweather, 40 W. Congress Ave., Tucson.
Contractor—Jay J. Garfield Bldg. Co., P. O. Box 2790, Tucson.

COMPTON, Los Angeles Co., Cal.—Compton City School District has made application for Federal aid to the extent of \$50,000 for reconstruction of grammar schools in Compton damaged by the earthquake in March. H. L. Gogerty, Oil Exposition Bldg., Compton, is the architect for the district, and Wm. H. Baker, Compton, is the structural engineer.

Specifications Being Written.
HEAT. & VENT. SYSTEM \$—
OAKLAND, Alameda Co., Cal. 48th Ave. and Foothill Blvd.
Revise heating and ventilating system at high school (Fremont High School).

Owner—City of Oakland School Dist.
Plans by Engr. Dept. of Owner.

Bids will probably be asked in about two weeks.

Contract Awarded.
ADDITION Cost, \$15,000
TUCSON, Arizona.
Addition to school (six sleeping rooms one classroom, fuel room, work room, toilet and shower).
Owner—Arizona Desert School for Boys, Tucson.
Architect—James McMillan, Tucson.
Contractor—Jay J. Garfield Bldg. Co., P. O. Box 2790, Tucson.

Plans Completed.
SCHOOL Cost, \$—
FORT JONES, Siskiyou Co., Calif.
One-story wood frame fireproof grammar school (3 classrooms) concrete foundations, cement stucco exterior, etc.

Owner—Fort Jones Grammar School District.
Architect—Starks & Flanders, Forum Bldg., Sacramento.

Plans have been approved by the State Division of Architecture and bids will be asked shortly.

Preparing Plans.
SCHOOL Cost, \$125,000
HUNTINGTON BEACH, Orange Co., Calif.

Two-story Class A reinforced concrete school building (30 classrooms) composition roofing, steam heating, concrete floors, wood sash
Owner—Huntington Beach Elementary School District.
Architect—Allison and Allison, Edison Bldg., Los Angeles

PORTERVILLE, Tulare Co., Cal.—Until Sept. 12, 4 P. M., bids will be received by E. M. Hammond, clerk, Porterville School District, for the installation of a heating plant in the Morton Street School House in Porterville. Specifications may be obtained at 420 Main St., Porterville.

Bid Opening Postponed Until Sept. 11, 8 P. M.

ADDITION Cost, \$2500
MORGAN HILL, Santa Clara Co., Cal.
Frame and stucco addition to Morgan Hill grammar school (24x36) add one classroom, revise toilet rooms.
Owner—Morgan Hill Grammar School District (Mr. Dickerson, president)
Architect—W. H. Weeks, 525 Market St., San Francisco.

Bids will be received by C. Barrett, clerk of the Board of Trustees of the Morgan Hill Grammar School Dist.
Bids were scheduled to be opened September 1.

Plans Being Prepared.
SCHOOL Cost, \$100,000
Seattle, Washington.
Grammar school building (type of construction not determined).
Owner—Mount Vernon School District.
Architect—Arch N. Torbitt, 4737 18th Ave. Northeast, Seattle, Wash.

An election will be held shortly to vote bonds in the amount of \$50,000 to help finance the project.

HERMOSA BEACH, Los Angeles Co., Cal.—Hermosa Beach School District has made application for Federal aid to the extent of \$210,000 for rehabilitating and replacing portions of Hermosa Beach schools. Samuel E. Lunden, 400 Rowan Bldg., Los Angeles, is the architect for the district, and Paul E. Jeffers, Architects' Bldg., Los Angeles, is the structural engineer.

NORWALK, Los Angeles Co., Cal.—Excelsior Union High School District has made application for Federal aid to the extent of \$60,000 for rehabilitating the school auditorium. T. C. Kistner & Co., 814 Architects' Bldg., Los Angeles, are the architects for the district.

16—BANKS, STORES AND OFFICES

Contract Awarded.
NEWSPAPER BLDG. Cost, \$1,500,000
LOS ANGELES, Calif. 202 W 1st St.
Two- and part six-story and basement Class A steel frame and concrete newspaper building (150x360) tile and composition covered rein. conc. roof, terra cotta and granite facing, steel sash, metal doors, fire escapes, 3 electric passenger elevators, 2 electric freight elevators, metal lockers, heating and ventilating system, steel stack, clock tower, etc.

Owner—Times-Mirror Company.
Architect—Gorden B. Kaufmann, Union Bank Bldg., Los Angeles.
Contractor—P. J. Walker Co., W. M. Garland Bldg., Los Angeles.

Contract Awarded.
ALTERATIONS Cost, \$18,000
SAN FRANCISCO. No. 239 Geary St.
Alterations to loft building (frame construction).
Owner—J. Brickell Co., % Contractor.
Architect—Hyman & Appleton, 68 Post St., San Francisco.
Contractor—Jacks & Irvine, Call Bldg. San Francisco.

Contract Awarded.
STORE Cost, \$4000
SAN FRANCISCO. SW Thirty-fifth Ave. and Irving Street.
One-story frame store building.
Owner—Musto & Keenan, 535 North Point St., San Francisco.

Architect—Not Given.
Contractor—Sbarboro & Jorgensen, 207 Walnut St., San Francisco.

Bids Wanted.
MAIL CHUTE Cost, \$—
CHICO, Butte Co., Cal.
Mail chute for four-story building.
Owner—Not Given.
Architect—Louis L. Brouhard, Chico.
Prices are desired on the mail chute from Culter Mail Chute Co.; American Mail Chute Co. and the United States Mail Chute Corp. et al.

Contract Awarded.
ALTERATIONS Cost, \$1500
SAN FRANCISCO. 761 Market St.
Alterations to market building.
Owner—V. Onorato, 761 Market St.
Architect—Not Given.
Contractor—A. M. Hardy, 686 Harrison Street.

Additional Sub-Contracts Awarded.
STORE Cost, \$5000
SAN FRANCISCO. N Fifteenth Street 25 E Minna Street.

One-story Class C concrete store bldg. (32x90 ft.) composition roof, concrete floors, steel sash, miscellaneous iron, mill work, plumbing, electrical work, glass and glazing, etc.

Owner—H. Morgan, 2521 16th Street.
Architect—Arnold Constable, 580 Market Street.

Engineer—S. Hodes, 536 Shrader St.
Contractor—Larsen & Larsen, 629 Bryant Street.

Miscellaneous Iron—Fair Mfg. Co., 617 Bryant Street.

Glass—W. P. Fuller & Co., 301 Mission Street.

Painting—Raphael Co., 270 Tehama.
Roofing—J. W. Bender Roofing Co., 18th and Bryant Sts.

As previously reported, steel windows and reinforcing steel awarded to Soule Steel Co., 1750 Army St.; plumbing to J. E. O'Mara, 218 Clara St.

SAN FRANCISCO—Pacific Elevator & Equipment Co., 45 Rausch St., at \$2,134 awarded contract by Department of Public Works for the installation of freight elevator in the Civic Auditorium.

To Be Done By Day's Work.
STORE Cost, \$2000
OAKLAND, Alameda Co., Calif. 2623 Telegraph Ave. (rear).
One-story brick store building.
Owner—Sears-Roebuck Co., 26th and Telegraph Ave., Oakland.
Plans by Owner.

Contract Awarded.
ALTERATIONS Cost, \$30,000
SAN FRANCISCO. SW 7th and Howard Streets.

Alterations to offices.
Owner—The San Francisco Assn. for the Blind.

Engineer—Walter L. Huber, 1 Montgomery Street.

Contractor—A. H. Wilhelm, 666 Mission Street.

Project Abandoned.
STORES & OFFICES Cost, \$30,000
CROCKETT, Contra Costa Co., Cla.
Two-story and basement reinforced concrete and structural steel store and office building (composition roof, steel sash, steam heat, etc.)
Owner—L. Valli, Crockett.
Architect—Chas. E. Perry, 514 Marin Ave., Vallejo.

Plans Being Figured—Bids Close September 14, A. M.
BUILDING Cost, \$15,000
FRESNO, Fresno Co., Cal. N Fulton St. near Sumner Ave.
Two-story concrete, frame and stucco medical office building (70x80 ft.).

20 rooms and five-room apartment (flat composition roof, gas heating system, etc.)
 Owner—Dr. Roscoe F. Wallace, Fresno.
 Architect—Chas. E. Butner, Cory Bldg., Fresno, and Glikbarg Bldg., Salinas.
 Following will submit bids:
 J. D. Shorb, 1295 Linden Ave., Fresno.
 R. Pedersen Co., 446 Clark St., Fresno.
 Walter Harris, 577 McKinley Ave., Fresno.
 T. Irwin, 269 N. Fulton St., Fresno.
 W. J. Ochs, Fresno and San Jose.

Preparing Working Drawings.
ALTERATIONS Cost, \$7500
OAKLAND, Alameda Co., Cal. Telegraph Ave. near Bancroft.
 Alterations to interior of store building (new store fixtures, flooring, decorating, etc.)
 Owner—Anna B. Weeks.
 Architect—A. R. Williams, Humboldt Bank Bldg., San Francisco.
 Lessee—Roos Brothers.
 Bids will be asked shortly.

STORES AND LOFTS
 Cont. Price, \$16,990
SAN JOSE, Santa Clara Co., Cal. Market and San Fernando Sts.
 Two-story steel frame and concrete store and loft building (60x75 ft.)
 Owner—Robert F. Benson, 89 S-Market St., San Jose.
 Architect—Binder & Curtis, 35 W-San Carlos St., San Jose.
 Contractor—Chas. A. Thomas, 127 Clayton St., San Jose.

To Ask Bids Within a Few Days.
SALESROOM BLDG. Cost, \$5000
SAN JOSE, Santa Clara Co., Cal. Julian Street.
 One-story reinforced brick salesroom building (66x61 ft.) asphalt and gravel roof, cement floors, etc.
 Owner—John Bean Mfg. Co.
 Architect—William Higgins, 19 N. Second St., San Jose.

Contract Awarded.
STORE Cost, \$80,000
REDWOOD CITY, San Mateo Co., Cal. Broadway and Hamilton Ave.
 One-story, mezzanine floor and basement steel and brick or reinforced concrete store (60x150 ft.)
 Owner—David J. Davis, 500 Chelmsford Road, Hillsborough.
 Plans by Engineering Dept. of Lessee.
 Supervising Architect—G. Albert Lansburgh, 140 Montgomery St., San Francisco.
 Lessee—Montgomery Ward Co., Chicago, Illinois.
 Contractor—Cahill Bros., 206 Sansome St., San Francisco.
 Mechanical trade contracts will be awarded within a few days.

Bid Opening Postponed Until Sept. 15.
REBUILD STORE Cost, \$15,000
TURLOCK, Stanislaus Co., Cal. Main and Center Streets.
 Rebuild one-story brick store (recently destroyed by fire); plate glass, maple flooring, tile work, tile and composition roof.
 Owner—E. B. Osborne, Turlock.
 Architect—G. N. Hilburn, 1312 I St., Modesto.

Contracts Awarded.
REMODEL CAFE Cost, \$18,000
SAN FRANCISCO, 2555 Great Highway.
 Remodel cafe (wiring, plumbing, plastering, painting, decorating, etc.)
 Tait's-at-the-Beach.
 Owner—Weissbein Bros., 582 Market.
 Architect—S. Heiman, 605 Market St.
 Contractor—Theo. Cohn, Russ Bldg.
 Carpets and Drapes: D. N. & E. Walter, 562 Mission St.
Plumbing: J. Gibbs Sons, 1706 Geary Street.
 As previously reported, decorating awarded to M. Cohn, premises.

Sub-Contracts Awarded
MARKET Cost, \$7500
SAN FRANCISCO, SE 23th Ave. and Judah St.
 One-story frame and stucco market (35x80), composition roof, concrete floors, etc.
 Owner—Withheld.
 Architect—S. Heiman, 605 Market St.
 Lessee—Safeway Stores.
 Contractor—J. S. Malloch, 666 Mission Street.
Lumber: Acme Lumber Co., 6th and Channel Sts.
Electric: Lindy Electric Co., 463 24th St.
Plumbing: J. J. McLeod, 1246 Golden Gate Ave.
Roofing: J. Cantley, 666 Mission St.
Concrete: Adam Arras Co., 4008 18th St.
Painting: Murray Bros., 1462 Haight St.

Contract Awarded.
HEATING SYSTEM Cost, \$1320
SAN FRANCISCO, No. 645 44th Ave.
 New steam heating system (tankless water heating system and gas burner steam heating system).
 Owner—B. T. S. Heater Co., 2128 Van Ness Ave., San Francisco.
 Mechanical Engineer—Clarence H. Bazille, 251 Kearny St.
 Contractor—Ed E. Plant, 1446 46th Ave., San Francisco.
 Lessee—Ole Druflat, 645 44th Ave., San Francisco.

Contract Awarded.
REPAIRS Cost, \$1585
SAN FRANCISCO, NW Post and Fillmore Streets.
 Repair fire damage to stores and apartments.
 Owner—Mercantile Properties Corp., 63 Brady St., San Francisco.
 Architect—Not Given.
 Contractor—A. L. Thulin, 63 Brady St., San Francisco.

Contract Awarded.
OFFICES Cost, \$—
SAN FRANCISCO.
 Office building.
 Owner—Ceral Products Co., 763 Fulton St., San Francisco.
 Architect—Not Given.
 Contractor—Richard J. H. Forbes, Monadnock Bldg., San Francisco.

17—THEATRES

Sub-Contracts Awarded.
REPAIR THEATRE Cost, \$3,329
SAN JOSE, Santa Clara Co., Calif. S. San Pedro, S. Market Street.
 Repair fire damage to theatre.
 Owner—Liberty Amusement Co., 60 S. San Pedro St., San Jose.
 Plans by F. W. Moore, 1132 Glen Ave., San Jose.
 Contractor—H. A. Bridges, 1398 Lincoln, San Jose.
Lumber: McElroy-Cheim, 1450 The Alameda, San Jose.
Electric Wiring: Ted. Russell, Montgomery Hotel, San Jose.
Sheet Metal: Henry Eitzert, 748 Almaden, San Jose.
Painting: Chas. Dieter, 490 N. 1st San Jose.
Plastering: F. V. Plummer, 325 N. 18th, San Jose.
Glass: Sylvain Le Deet Glass Co.

18—WHARVES & DOCKS

Plans Being Prepared.
WHARF Cost, \$—
DAVENPORT, Santa Cruz Co., Cal. Construct 2000 foot all steel wharf.
 Owner—Santa Cruz Portland Cement Co., Crocker Bldg., San Francisco (Geo. R. Gay, General Mgr.)
 Plans by Engineering Dept. of Owner.
 It is also planned to construct three large storehouses, one at San Fran-

cisco, one at Stockton and one at **Oakland**. Further details will be announced at a later date.

PETALUMA, Sonoma Co., Cal.—
 Bundesen & Lauritzen, Pittsburg, at \$2,668 awarded contract by City Council to construct reinforcement of present Water Street Wharf between Washington St. and Western Ave., west bank, Petaluma River. Following bids received:
 Bundesen & Lauritzen, Pittsburg (total) \$2,698.00
 (1) Cedar piling, per lin. ft. .77
 (2) Redwood piling, per lin. ft. .86
 (3) All other work 1,309.25
 Vogensen Construction Co., Petaluma \$2,804.00
 (1) .83
 (3) 1,504.00
 O'Neil & Legge, San Francisco (1) \$.78
 (3) 1,612.14
 A. W. Kitchen, S. F. (1) \$ 1.03
 (2) 1.03
 (3) 2,067.00
 Ben C. Gerwick, S. F. (1) \$ 1.15
 (3) 1,811.00
 F. C. Ward, Santa Rosa (1) \$.82
 A. M. Seeberg, Petaluma (3) \$2,086.00

19—MISC. CONSTRUCTION

SAN FRANCISCO.—Marine Engineers Pillsbury and Curtis, 1010 Alaska Commercial Bldg., are preparing plans for converting the Steamer "Pacific Cedar" into a bulk cement carrying vessel for the Santa Cruz Portland Cement Company, Crocker Bldg. Plans will be completed early in October and bids may be asked at that time.

CHICO, Butte Co., Cal.—Louis L. Brouchoud, Chlco, Calif., desires catalogs and communications from the agents of the:
 Culter Mail Chute Company.
 American Mail Chute Company.
 United States Mail Chute Corp.
 Data is wanted in connection with a four-story building.

OAKLAND, Calif.—Key Terminal Railway, Ltd., awarded a contract to the Brumfield Electric Sign Co., 965 Folsom St., San Francisco, at approximately \$1,545 for a roof sign in connection with the Key Route Pier, Oakland.

MARE ISLAND, Calif.—Until Sept. 20, 11 A. M., bids will be received by Public Works Officer, U. S. Navy Yard, Mare Island, for furnishing and installing oil tanks on a concrete platform, all supported on a pile foundation, including earth fill berm, asphalt macadam lined oil basin, pump house with pit, pumps, purifier, piping and electric wiring, at the Diesel Oil Purification Plant, Submarine Repair Base, U. S. Navy Yard, Mare Island, Spec. No. 7416. Specifications obtainable from Commandant, Navy Yard, Mare Island, upon deposit of \$10.00.

VALLEJO, Solano Co., Cal.—Until Sept. 15, 2 P. M., bids will be received by R. E. Pierce, District Engineer, Stockton, Division of Highways, for seven buildings, now located on Lots 7 and 8 Block No. 1, Highway Homes Subdivision on the Benicia Rd. one mile southeast of Vallejo.

Group 7 has one 5-room, one-story frame house with floor space of 1200 sq. ft., rustic siding and patent roof, unfinished inside; a frame, rustic garage, with cement floor; a small redwood wood shed, and outside toilet.
 Group 8 has a 5-room, one-story stucco house, 1250 sq. ft. floor space, tar and gravel roof; stucco garage with a concrete floor, and a small wood shed.
 All sales to be approved by the Department of Finance.

LOS ANGELES, Cal.—Until 2 P. M., Sept. 25, bids will be received by the Metropolitan Water District of Southern California, 306 W. Third St., Los Angeles, for constructing twelve frame buildings at Division 1 Headquarters, San Bernardino County, about fifteen miles northeast of Earp. The work will consist of erecting one office building, one messhall, one 12-car garage and repair shop, one warehouse, one 5-room cottage, three 4-room cottages, two 2-car garages, one 20-man dormitory, and one guest lodge, together with appurtenant sewers, sewage disposal plant, water supply system, gas distribution system, and grading. No proposal will be considered for less than the whole of the work. Certified or cashier's check for \$4000 must accompany each bid. Bidding data may be obtained from the District's office in Los Angeles or in Banning upon payment of \$5. not to be refunded. J. L. Burkholder, assistant general manager.

Low Bidder.
RECREATION BLDG. Cost, \$6500
SAN FRANCISCO. No. 229 Minna St. Recreation building for St. Patrick's Shelter (steel frame Class C brick construction).
Owner—St. Patrick's Shelter (Mon. Ryan in charge).
Architect—Arnold Constable, 530 Market St., San Francisco.
Low Bidder—Albert Nelson, 242 Ocean Ave., San Francisco.

LA MESA, San Diego Co., Cal.—La Mesa city council voted to make application for NRA funds in the sum of \$35,000 for financing the construction of a new swimming pool. The pool would be equipped with a filtration system, lighting equipment, showers and dressing rooms.

SAN FRANCISCO—The Gulf Industries, Inc., Pensacola, Fla., at \$900,000 submitted low bid to Swayne & Hoyt, San Francisco, to construct a 7450-ton passenger and freight steamer for the Gulf Pacific Mail Line, Ltd.

SAN FRANCISCO—B. F. Shearer, 243 Golden Gate Ave., at \$16.50 submitted low bid to Material Officer, Marine Hospital, for laying approximately 252 square feet of light battle-ship linoleum. Linoleum being furnished by the Government. Bids are as follows:
B. F. Shearer.....\$16.50
W. & J. Sloane..... 18.52
J. E. Higgins Lumber Co. per yd.95
Bids under advisement.

Bids Opened.
BUILDING Cost, \$—
OAKLAND, Alameda Co., Cal. Municipal Airport.
Frame and glass exhibition building 40x40 feet.
Owner—City of Oakland (Port Commission), Grove St. Pier, Oakland.
Plans by Engineering Dept. of Owner.
Low Bidder—Jensen & Pedersen, 3443 Adell St., Oakland.
Following bids received:
Jensen & Pedersen, Oakland.....\$1310
S. O. MacDonald, Oakland..... 1660
George Petersen, San Leandro.... 1790
Strehlow & LaVole, Alameda..... 1887
J. C. Gutleben, Oakland..... 1961
Bids held under advisement.

OAKLAND, Alameda Co., Cal.—J. H. Fitzmaurice, 2857 Hannah Street, Oakland, at \$2,236 submitted low bid to Playground Directors for surfacing tennis courts in Lakeside Park. Following bids received:
J. H. Fitzmaurice, Oakland.....\$2,236
Lee J. Immel, Berkeley..... 2,275
P. M. Hennig, Oakland..... 2,297
Alternate..... 2,219

W. H. Larsen, Berkeley..... 2,698
Ransome Company, Oakland (own specifications)..... 2,198
Alternate (own specifications) 2,684
Malott & Peterson, San Francisco (own specifications)..... 2,364
Bids held under advisement for two weeks.

20—MISC. SUPPLIES AND MATERIALS

ALBANY, Alameda Co., Cal.—Until Sept. 11, 8 P. M., bids will be received by H. W. Brewer, city clerk, to furnish fence material for a 120x110-ft. tennis court in the city park, involving chain link fencing, rails, top guard etc. Specifications obtainable from the above office. Certified check 10% required with bid.

OAKLAND, Cal.—American Bitumuls Co., 200 Bush St., San Francisco, at \$5250 awarded contract by the East Bay Municipal Utility District, Oakland, to furnish 100,000 gals. emulsified asphalt.

OAKLAND, Cal.—General Manager, East Bay Municipal Utility District, Oakland, authorized to purchase 1200 tons aluminum sulphate in the open market.

No bids were received at bid opening August 25.

SAN FRANCISCO—Following submitted identical bids at \$2.05 per bbl. to U. S. Forest Service to furnish 40 tons of cement in cotton sacks, to comply with Government Master Spec. S5-C-191. Price f.o.b. plant:
Henry Cowell Lime & Cement Co., 2 Market Street.
Calaveras Cement Co., 315 Montgomery Street.
Pacific Portland Cement Co., 111 Sutter Street.

Santa Cruz Portland Cement Company, Crocker Bldg., (f.o.b. Redding) \$2.86.

LOS ANGELES, Cal.—J. H. Baxter Co. awarded contract by S. A. Joseph, Purchasing Agent, Metropolitan Water District, Aug. 31 at \$3838.25 f.o.b. harbor, to furnish red cedar poles under Bid No. 14144.

LOS ANGELES, Calif.—Rensselaer Valve Co. was awarded contract by A. J. Holm, Los Angeles City Purchasing Agent, Sept. 1, at \$9072 (estimated total), to furnish Water and Power Dept. with double disc gate valves under Spec. No. 3186. The bids were opened August 15.

SACRAMENTO, Calif.—Kittle Mfg. Co., Los Angeles, and B. W. Norton Mfg. Co., Oakland, have been awarded the contract by the State Director of finance, Rolland Vandegrift at 11.5 cents a pair for furnishing 2,250,000 1934-1935 motor vehicle license plates.

SAN FRANCISCO—Gardner-Denver Co., 250 7th St., at \$159 net submitted low bid to the U. S. Forest Service to furnish 10,000 lin. ft. 3/4-in. pneumatic air hose. Complete bids follow:
Gardner-Denver Co.\$159
B. F. Goodrich Rubber Co..... .1734
Hercules Rubber & Equip. Co..... .1734
Alternate..... .22
Quaker City Rubber Co..... .18
Ingersoll-Rand Co.18
U. S. Rubber Products Co..... .198
American Rubber Co..... .22
Pioneer Rubber Mills..... .22

SAN FRANCISCO.—Following bids received by U. S. Forest Service to furnish:
(1) 1850 pcs. drill steel for detachable drill bits;
(2) 33,000 detachable bits.

Pacific H. B. A. Steel Co., San Francisco—(1) \$4150, alt. \$4532.
Flannery Bolt Co., Pittsburgh—(1) \$4723, (2) \$6765.
Bergstrom Steel Co., Ltd., San Francisco—(1) \$3334.50, (2) \$8732.50.
Crucible Steel Co., San Francisco—(1) \$4908, (2) \$8010.
Ingersoll-Rand Co., San Francisco—(1) \$8405, (2) \$10,560.
Timken Bearing Co., San Francisco

OAKLAND, Cal.—Until September 14, 9 P. M., bids will be received by W. W. Chappell, City Clerk, for 3000 tons emulsified oil premix.

OAKLAND, Cal.—Until September 14, 9 P. M., bids will be received by W. W. Chappell, City Clerk, for 300 tons fuel oil premix.

EUREKA, Humboldt Co., Cal.—Until Sept. 12, 2 P. M., bids will be received by Fred M. Kay, County Clerk, to furnish 30,000 gal. fuel oil for Court House, County Hospital and County Jail for ensuing year. Specifications obtainable from above.

LOS ANGELES, Cal.—Identical bids at \$16,958.61 submitted September 5 to county supervisors to supply reinforcing steel for outlet tunnels of San Gabriel Dam No. 1. The material, amounting to 648,800 lbs., is to be furnished f.o.b. district freight yard, Azusa. Bids were:

*Concrete Engineering Co.
Soule Steel Co.
Los Angeles Iron & Steel Co.
*Pacific Coast Steel Corp.
*Blue Diamond Corp., Ltd.
Truscon Steel Corp.
Graham Bros.
*Blue Diamond Corp., Concrete Engineering, Pacific Coast Steel Corp., bid on plain round steel in place of round deformed.

PANAMA CANAL ZONE—Until September 18 bids will be received by General Purchasing Officer, Panama Canal Zone, Washington, D. C., to furnish miscellaneous supplies as follows: Galvanized sheet steel, cold-rolled steel, sheet copper, soft yellow brass rods, naval rolled brass rods, phosphor sheet bronze, copper pipe, brass pipe, wire rope, soft steel wire, magnet wire, solid copper wire, switch-board wire, varnished cambric cable, copper cable, rubber insulated flexible cable, telephone cable, cord, meter-testing blocks, primary cutouts, tinned solder, street lighting globes, wire nails, flooring nails, finishing nails, roofing nails, window glass, battleship linoleum, manila rope, all under Schedule No. 2398.

SAN FRANCISCO—Roth-Maier, 2800 Third St., at \$132.25 awarded contract by City Purchasing Agent under Bid No. 1067 to furnish 100,000 bd. ft. lumber.

LOS ANGELES, Calif.—Until 11 A. M., Sept. 12, bids will be received by A. J. Holm, Los Angeles City Purchasing Agent, 107 City Hall, to furnish and deliver to Water and Power Department f.o.b. the department's warehouse, 1630 N Main St., porcelain enamel iron signs in such quantities as may be ordered during a period of six months, beginning with date of contract, under Spec. No. 3210. The items are:

- (1) "High" signs (maximum price per M);
 - (2) "Voltage" signs maximum price per M;
 - (3) "High Voltage" signs (maximum price per M);
 - (4) "M" signs (maximum price per M)
- The estimated requirements are as follows: Items 1, 2 and 3, 5000 each; Item 4, 2000.

ENGINEERING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

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|--|-------------------------------------|
| 21.—Bridges | 30.—Reservoirs and Dams |
| 22.—Dredging, Harbor Works, Excava. Irrigation Proj. | 31.—Pipe Lines and Wells |
| 23.—St. Light. Systems | 32.—Sewers & Sewage Disposal Plants |
| 24.—Machinery and Equipment | 33.—Water Works |
| 25.—Railroads | 34.—Parks & Playgrounds |
| 26.—Fire Alarm Sys. | 35.—Tunnels |
| 27.—Fire Equipment | |
| 28.—Streets & Highways | |

21—BRIDGES

SACRAMENTO CO., Cal.—Until Sept. 27, 2 p. m., bids will be received by State Highway Commission, Sacramento, to construct an under-grade crossing under the tracks of the Southern Pacific Railroad, between the Cosumnes River Bridge and 1.25-mi. north of McConnell, consisting of two concrete abutments with wing walls and grade and pave 0.37-mi. with Portland cement concrete, involving:

- (1) 23,900 cu. yds. rdwy. excav., unclass.;
- (2) 4450 cu. yds. struc. excav. (culv. and pipes);
- (3) 10,000 cu. yds. imp. borrow;
- (4) 340,000 sta. yds. overhaul;
- (5) 1250 tons untr. cru. gravel or stone surf. (detours);
- (6) 1325 tons bit. tr. cru. gravel or stone surf. (detours, borders, road approaches and flares);
- (7) 67 tons cut-back asph.;
- (8) 420 bbls. heavy fuel oil;
- (9) 48 bbls. light fuel oil;
- (10) 627 cu. yds. salv. base;
- (11) 300 cu. yds. remove and dispose of old conc. (pave. and struc.);
- (12) 460,000 gal. water;
- (13) 1490 cu. yds. class B Portland cem. conc.;
- (14) 84 cu. yds. class A do (struc.);
- (15) 1400 cu. yds. do (pave.);
- (16) 176 cu. yds. do (curbs and gutters);
- (17) 103,100 lbs. bar reinf. steel;
- (18) 6570 sq. yds. prepare subgrade;
- (19) 76 lin. ft. clean and relay corr. metal pipe;
- (20) 233 lin. ft. salv. exist. do;
- (21) 2 move and reset headwalls;
- (22) 0.93-mi. move and reset property fence;
- (23) 0.24-mi. new property fence;
- (24) 1 property fence gate;
- (25) 78 sta. finish rdwy.;
- (26) 16 monuments complete in place;
- (27) 337 lin. ft. 8-in. perf. metal pipe;
- (28) 1960 lin. ft. 10-in. do;
- (29) 153 lin. ft. 10-in. corr. metal pipe with band couplers;
- (30) 198 lin. ft. 12-in. do;
- (31) 310 lin. ft. 18-in. do;
- (32) 1606 lin. ft. 24-in. do;
- (33) 330 lin. ft. 8-in. cast iron pipe;
- (34) 2985 lin. ft. 1 1/4-in. cast iron irrig. pipe;
- (35) 231 lin. ft. 2 1/2-in. do;
- (36) 30 1 1/4-in. irrig. outlets;
- (37) 1 2 1/2-in. do;
- (38) 500 lin. ft. solid timber guard rail;
- (39) 1510 lbs. cast steel catch basin covers and frames;
- (40) 1 lot pumping equip. complete, 2 units;

- (41) 590 lbs. pipe hand rails;
- (42) 1 lot misc. items of work.

SAN BERNARDINO CO., Cal.—Until Sept. 27, 2 P. M., bids will be received by State Highway Commission, Sacramento, to construct an overhead crossing over the tracks of the A. T. & S. F. Railway in the city of San Bernardino, consisting of steel and concrete viaduct 1016 ft. long and roadway approaches to be graded and paved with Portland cement concrete, involving:

- (1) 2500 cu. yds. struc. excav.;
- (2) 12,900 cu. yds. imp. borrow;
- (3) 10,800 sq. yds. subgrade for pave.;
- (4) 3450 cu. yds. class A Port. cem. conc. (struc.);
- (5) 82 cu. yds. class E do (railings);
- (6) 2250 cu. yds. class A do (pave.);
- (7) 140 cu. yds. do (curbs & gutters)
- (8) 35 cu. yds. do (sidewalks);
- (9) 18 cu. yds. do (slope paving);
- (10) 401,000 lbs. bar reinf. steel;
- (11) 405,000 lbs. old struc. steel (refabricate and erect);
- (12) 1,315,000 lbs. new struc. steel;
- (13) 14,330 lin. ft. furnish crec. Douglas Fir piles (incl. test piles);
- (14) 567 drive do;
- (15) 1 MFBM redwood timber dense sel. all-heart struc. grade;
- (16) 1 lot lighting equip.;
- (17) 72 lin. ft. 24-in. corr. metal pipe;
- (18) 108 lin. ft. 30-in. do;
- (19) 118 lin. ft. 36-in. do;
- (20) 1100 lbs. drop inlet covers, frames and grilles;
- (21) 1 exist. viaduct remove and dispose of;
- (22) 1 lot exist. pave. curbs, butters and sidewalks remove and dispose of;
- (23) 1 lot misc. items of work.

COCONINO CO., Ariz.—Vinson & Pringle, Phoenix, at \$44,938 submitted low bid to and recommended for award of contract by U. S. Bureau of Public Roads, Phoenix, to construct the Dead Indian Canyon Bridge on Section C, Cameron-Desert View approach to Grand Canyon National Park, involving:

- (1) 625 cu. yds. unclas. excav. struc.;
 - (2) 425 cu. yds. concrete;
 - (3) 46,000 lbs. reinf. steel;
 - (4) 380,000 lbs. struc. steel;
 - (5) 604 lin. ft. steel rail.
- Lewis Bros., second low at \$45,811; Royden Co., third low at \$48,196.

SANTA CRUZ, Cal.—County Engineer Lloyd Bowman preparing plans for construction of reinforced concrete bridge over the mouth of the Soquel River at Capitola, estimated cost \$25,000.

SAN RAFAEL, Marin Co., Cal.—Until Sept. 11, 11 A. M., bids will be

CAPITAL CITY TITLE COMPANY

J. C. PALEN,
Manager

914 Seventh Street
Sacramento :: California

received by Kate E. Graham, county clerk, to construct one reinforced concrete bridge at Thompson Ranch, Hicks Valley, on Point Reyes-Petaluma Road, Road District No. 5, involving:

- (1) 140 cu. yds. Class A Port. cement concrete;
 - (2) 16,100 lbs. reinf. steel.
- Specifications obtainable from R. E. Messner, county surveyor.

PETALUMA, Sonoma Co., Cal.—Vogensen Constr. Co., 100 Washington Street, Petaluma, at \$1493 awarded contract by City Council to remove and restore wood work, repaint bridge railing, clean and paint steel work and rebuild in general all parts of Washington Street bridge.

Following bids received:
Vogensen Constr. Co., Petaluma. \$1493
E. C. Gerwick, San Francisco. 1581
A. M. Seeberg, Petaluma. 1637
Bundesen & Lauritzen, Pittsburg 1960

APACHE AND NAVAJO CO., Ariz.—Until Sept. 26, 10 A. M., bids will be received by C. H. Sweetser, District Engineer, U. S. Bureau of Public Roads, 802 Title & Trust Bldg., Phoenix, to construct bridges and a R. R. overpass on Petrified Forest Routes 1 and 2, Petrified Forest National Monument, involving:

- (1) 1745 cu. yds. unclass. excav., struc.
- (2) 1011 cu. yds. class A concrete;
- (3) 580 cu. yds. class D concrete;
- (4) 238,000 lbs. reinf. steel;
- (5) 49,000 lbs. struc. steel;
- (6) 226.5 lin. ft. steel hand rail;
- (7) 991 lin. ft. wood guard rail.

Specifications obtainable from above office on deposit of \$10, certified check payable to Regional Agent, U. S. Forest Service.

LOS ANGELES, Cal.—San Francisco Bridge Co., 503 Market St., San Francisco, at \$32 yd. or a total of \$54,000 submitted low bid to U. S. Engineer Office, Los Angeles, for 170,000 cu. yds. removal of material in Los Angeles Outer Harbor.

Standard Dredging Co., second low at \$58,072; Merritt-Chapman & Scott Corp., third low at \$60,350.

DUNSMUIR, Siskiyou Co., Cal.—Until Sept. 11, 8 P. M. (postponed from August 28) bids will be received by E. G. Hawkins, town clerk, to dismantle one steel bridge now over Cottonwood Creek near Hornbrook; transport same to Dunsmuir; remove and salvage the present bridge across the Sacramento River at Dunsmuir, install above steel bridge at Butterfly Ave., Dunsmuir, paint same and install concrete foundations and approaches. Specifications obtainable from Superintendent of Streets, City Hall. Certified check 10% required with bid.

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22—DREDGING, HARBOR WORKS, EXCAVATION

STOCKTON, Cal.—Until Sept. 20, 3 P. M., under Circular Proposal No 34-14, Spec. No. 5601, bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, to dredge 2,706,000 cu. yds. material from the San Joaquin River 30-ft. channel between the easterly end of the turning basin at Stockton and a point just below Black Slough Landing, along a distance of 39,600 ft., designated at Part I, San Joaquin River 30-ft. channel project:

SAN FRANCISCO, Calif.—Until Sept. 18, 8 P. M., bids will be received by Board of Fire Commissioners, Rm. 2, City Hall for drydocking, repainting of hulls, overhauling and repairs to the Fire Boards "Dennis T. Sullivan and David Scannell." Specifications obtainable from Room 2, City Hall.

STOCKTON, Cal.—Until Sept. 23, 10:30 A. M., under Circular Proposal No. 34-17, Spec. No. 5634, bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, to dredge 1,140,000 cu. yds. material from the Suisun Bay Channel between Stake Point and Point Edlth.

LOS ANGELES, Cal.—Until 3 P. M., Sept. 25, bids will be received by the U. S. Engineer, 751 S. Figueroa St., Los Angeles, to construct additional 4000-ft. unit of Harbor breakwater. The new unit will be of the same cross-section as the previous unit and will be constructed in 50 ft. of water. The bids will be taken on alternative proposals as follows:

SCHEDULE "A"

Composite type of breakwater involving clay mound foundation. The quantities are:

- 350,000 cu. yds. clay;
- 1,100,000 tons stone.

SCHEDULE "B"

Alternate: All stone breakwater. The quantities are: 1,500,000 tons of all classes of stone.

The ultimate length is 12,500 ft., 1400 ft. of which is now under construction.

The Federal government recently made an allocation of \$1,600,000 for this work. Specifications obtainable from Lieut. Col. Virgil L. Peterson, U. S. Engineer.

STOCKTON, San Joaquin Co., Cal.—Until Sept. 22, 3 P. M., under Circular Proposal No. 34-16, Spec. No. 5633, bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, to dredge 1,881,000 cu. yds. material from the San Joaquin River Deep Water Channel at ten or more shoals between Criminal Point and Suisun Bay, 23 mi. designated as Part III, San Joaquin River 30-ft. Channel.

STOCKTON, San Joaquin Co., Cal.—Until Sept. 21, 3 P. M., under Circular Proposal No. 34-15, Spec. No. 5602, bids will be received by U. S. Engineer Office, California Fruit Bldg., Sacramento, to dredge 2,531,000 cu. yds. material from the San Joaquin River 30-ft. channel, over 8.8 mi. between the mouth of Turner Cut at the upstream end of the work, and Criminal Point, at the downstream end of the work.

MONTEREY, Cal.—Until Sept. 26, 3 p. m., bids will be received by U. S. Engineer Office, 401 Custom House, San Francisco, to construct 400 ft. extension to Monterey breakwater, involving furnishing and placing 116,500 tons stone. Specifications obtainable from above office.

RICHMOND, Contra Costa Co., Cal.—Until Sept. 19, 3 p. m., bids will be received by U. S. Engineer Office, 401 Custom House, San Francisco, to re-align the Richmond channel, involving 1,661,191 cu. yds. dredging. Specifications obtainable from above office.

23—IRRIGATION PROJ.

PATTERSON, Stanislaus Co., Calif.—The Patterson Water Co. will apply for NRA funds in the sum of \$30,000 to finance the construction of seven miles of irrigation laterals. J. P. Sillerman, manager.

25—MACHINERY AND EQUIPMENT

ALAMEDA, Alameda Co., Cal.—Until Sept. 19, 8 P. M., bids will be received by Win. G. Paden, Secretary, Alameda Board of Education, Administration Bldg., Oak St. and Alameda Ave., Alameda, to furnish one radial drill, Carlton or equal, 3-ft. arm, 11-in. column, equipped with one plain table. Motor to be 3-phase, 220-volt, 60-cycle. Specifications are obtainable from above office. Certified check 10% required with bid.

OAKLAND, Cal.—Spears Wells Machine Co., 1832 9th St., Oakland, at \$4100 less \$100 cash discount awarded contract by East Bay Municipal Utility District, Oakland, to furnish gas gasoline motor-driven roller, not over 8 tons. Only other bid submitted by Austin-Western Road Machinery Co. at \$3412.40 with an alternate bid of \$3562.40.

OAKLAND, Cal.—Reliance Trailer & Truck Co., 2765 16th St., San Francisco, at \$1290 submitted low bid to East Bay Municipal Utility District, Oakland, to furnish one 22,000-lb. 4-wheel trailer. Only other bid submitted by New Comer Freuhaus Trailer Corp. at \$1325. Bids held under advisement.

OAKLAND, Cal.—Bill Motors Co. at \$2950 net submitted low bid to East Bay Municipal Utility District, Oakland, to furnish one 22,000-lb. truck. Complete bids follow:

Bill Motors Co.	\$2950.00 net
Fageol Motors	2970.28 net
White Co.	3752.52 net
Kleiber Motor Co.	3871.00 net
Western Traction Co.	4700.00 net
Bay Acceptance Corp.	5250.00 net

Bids held under advisement.

SAN FRANCISCO.—Following bids received by U. S. Forest Service, San Francisco, to rent dump trucks:

- (1) Forest Service furnish gas and oil but no driver;
- (2) Forest Service furnish gas, oil and driver;
- (3) Forest Service furnish mechanical repairs, no driver;
- (4) Forest Service furnish same as (3) except with driver and tires.

Bids were taken as follows:

- (a) 1½-cu. yd.;
- (b) 2-cu. yd.;
- (c) 3-cu. yd.;
- (d) 4-cu. yd.

Bids follow:

J. S. Baker, Burlingame, (d) (1) \$19 day.
C. A. Baker, Sacramento, (d) (1) \$30 (2) \$25 (3) \$20 (4) \$15.
N. Giorgi, San Francisco, (d) (1) \$20 (2) \$14.50 (3) \$12.48 (4) \$10.10.
C. E. Hull, Merced, (c) (1) \$12.
L. Burkholder, Oakland, (a) (1) \$12 (2) \$9 (3) \$7 (4) \$6.25; (b) (1) \$12 (2) \$9 (3) \$7 (4) \$6.25.
Independent Trucking Co., Oakland, (a) (1) 13 (2) \$9 (3) \$7.50 (4) \$6.75; (b) (1) \$13.50 (2) \$9.50 (3) \$8 (4) \$7.25.

KING CITY, Monterey Co., Calif.—Until Sept. 13, 8 P. M., bids will be received by Arnold Frew, clerk, King City Union High School District, for a seven-passenger automobile for the King City Union High School District. Cost not to exceed \$1,000.

LOS ANGELES, Calif.—Until 10 A. M., Sept. 18, bids will be received by the Metropolitan Water District, room 504, 306 W 3rd St., to furnish three sets of voltage regulating equipment, for delivery at Los Angeles, in accordance with specifications which may be obtained at room 1007, at the

above address, upon payment of \$2.00. F. E. Weymouth, general manager and chief engineer.

SAN FRANCISCO.—Following bids received by U. S. Forest Service to rent one to four compressors of 235 or plus class to operate two drills:

- (1) 1 month;
 - (2) 2nd month;
 - (3) thereafter.
- Western Machinery, 240 c.f. (1) \$200; (2) \$185; (3) \$175.
- W. H. Cowan, 235 c.f. alt. 310 c.f. (1) \$200, alt. \$300; (2) \$185, alt. \$300; (3) \$175, alt. \$300.
- Lindgren & Swinerton, 240 c.f. (1) 175; (2) \$175; (3) \$175.
- Associated Equip. Co., Los Angeles, 265 c.f., alt. 310 c.f. (1) \$250; (2) \$250; (3) \$250.
- Ed. R. Bacon, 210 cu. ft., (1) \$175; (2) \$160; (3) \$150.

Bids held under advisement.

PASO ROBLES, Calif.—City Council rejected bids to furnish and install power equipment consisting of Diesel Engine, water pumps and electric motors. New bids will be asked shortly. Contract was previously awarded to the Superior Engine Co., 147 N. Los Angeles, Los Angeles at \$12,000.

SACRAMENTO, Cal.—Until Sept. 15 8 P. M., bids will be received by W. L. Johns, principal, San Juan Union High School, San Juan Union High School Building, for one Indiana, 55 D. R. 54-passenger truck chassis and one P. C. 92-198 E.B. body. Price not to exceed \$3,500. Certified check in the amount of 10% of the amount bid.

28—FIRE EQUIPMENT

BERKELEY, Cal.—All bids rejected by city council to furnish fire hose, and material will be purchased in the open market.

Complete bids published Aug. 23.

30—RESERVOIRS & DAMS DISPOSAL PLANTS

SANTA BARBARA, Cal.—Victor H. Trace, water superintendent, has announced that the city council has authorized applications for NRA funds to finance the construction of additions to the Gibraltar Dam and the construction of other water resources.

The proposed work at Gibraltar Dam estimated to cost \$2,000,000, will consist of raising the height of the dam from 150 to 200 ft., increasing the capacity from 15,000 ac. ft. to 40,000 ac. ft. The addition will be of rock fill type with reinforced concrete facing, tied into the present reinforced concrete structure. The work will provide 200,000 man-days labor. The project includes two small reinforced concrete distributing reservoirs on the south side of the range. The other water resources, estimated to cost \$578,000, will include increasing the Sheffield Reservoir from 10,000,000 gals. to 60,000,000 gals. and improvements to the La Mesa and El Cielito reservoirs. Included under this head are distributing mains, involving 7000 ft. of 24-in. main and about 3 miles of 12- and 16-in. shop and garage.

The work will be done in accordance with the preliminary report of Quinton, Code, Hill, Leeds & Barnard, consulting engineers, Los Angeles.

GLENDALE, Los Angeles Co., Cal.—The City of Glendale has applied to the Federal Administration of Public Works for National Recovery funds in the amount of \$108,509.63 to finance the construction of a reinforced con-

crete roof on the Chevy Chase reservoir, Glendale.
 The work involves:
 250,000 F.B.M. lumber;
 33,000 sacks cement;
 3,600 tons sand;
 5,000 tons rock;
 425 tons reinforcing steel;
 332 round column forms;
 copper water stops and hatch

32—SEWERS & SEWAGE DISPOSAL PLANTS

CLOVERDALE, Sonoma Co., Cal.—W. J. Tobin, 3701 Balfour Ave., Oakland, at \$4030.95 submitted low bid to city council to construct Imhoff tank and 12-in. discharge pipe line, involving:

- (1) 450 cu. yds. excav.;
- (2) 107 cu. yds. concrete;
- (3) 24,000 lbs. reinf. steel;
- (4) 110 ft. cast iron pipe;
- (5) 1230 ft. clay or concrete pipe;
- (6) 0.8 MFBM redwood lumber.

Complete bids follow:
 W. J. Tobin, Oakland.....\$4030.95
 J. J. Ongaro, San Anselmo..... 4195.50
 J. E. Bentley, Cloverdale..... 4222.15
 Harvey E. Conner, Redwood City 4609.49
 Geo. C. DeGolyer, Oakland..... 4726.00
 Baldwin & Butler, Berkeley..... 5082.00
 City Improvement Co., Berkeley 6654.80
 B'ds held under advisement until Sept. 19, 8 p. m.

33—WATER WORKS

SAN FRANCISCO—Overland Freight Transfer Co., 201 California Street, awarded contract by T. A. Brooks, City Purchasing Agent, under Bid No. 1062, to haul approximately 1700 tons cast iron pipe for San Francisco Water Department.

FRESNO, Cal.—Until Sept. 14, 11 A. M., bids will be received by H. S. Foster, City Clerk, to furnish four 12-in. deep well turbine pumps, 800 G.P.M., 1200 R.P.M., 150-ft. head. Specifications obtainable from above office. Bidder to purchase four Western Well Works Deep Well turbine pumps from City. Certified check 10% required with bid. 33

COLTON, San Bernardino Co., Cal.—An election to vote on a bond issue of about \$125,000 for water and sewer improvements will probably be held during the latter part of October, according to a statement by Mayor E. F. Hartford. The bond issue would form the basis for an application for NRA funds to obtain the thirty per cent grant as is possible under the National Recovery Act.

The original proposal called for water works improvements only, but the need for a disposal plant has caused the city council and chamber of commerce to recommend the inclusion of \$38,000 for a plant similar to the plant in operation at San Bernardino. Costs on the water improvements have been reduced to approximately \$87,000 since last estimated.

New wells, pumps and mains, \$41,133.
 Reservoir, \$32,280, or tank of 2,000,000-gal. capacity, \$21,150.

Brief details of the proposed works, as shown by the engineer's preliminary figures, are:

Drill two 20-in. wells, 550 ft. deep, housing for same, bowl type pumps of 200 miners' inches capacity each pump, replacing of three old pumps and rebuilding three pump houses;

Construct reinforced concrete reservoir, 186x250 ft. by 12 ft. deep, with corrugated iron roof, 3,000,000-gallon capacity.

Replace pipe lines, involving:
 30,000 ft. 6-in. pipe (type not selected);
 3,000 ft. 10-in. pipe (type not selected);
 3,000 ft. 8-in. pipe (type not selected).
 C. H. Maxwell, water superintendent.

SAN DIEGO, Cal.—Until 11 A. M., Sept. 26, bids will be received by the Public Works Officer, 11th Naval District, San Diego, for improving of fuel oil storage at the Naval Operating Base, (Fuel Depot), San Diego. Specifications No. 7333. The work consists of furnishing and installing a 55,000 bbl. fuel oil tank and piping, and includes earthwork, concrete work, steel and iron work, piping, and electrical work.

Specifications obtainable from above office on deposit of \$10, returnable.

SAN DIEGO, Cal.—Until 11 a. m., Sept. 28, bids will be received by the Public Works Officer, 11th Naval District, San Diego, for heating plant boilers and equipment at the Naval Operating Base (Air Station), San Diego, Specification No. 7422. The work includes in general, the furnishing and installing of the following:

- (a) Three 250 horsepower water-tube boilers with settings, supports, concrete foundations, fuel oil burners, soot blowers and accessories.
- (b) Two boiler-feed pumps, one deaerating feed-water heater, fuel oil pump set, two fuel oil tanks, one water-storage tank, 3 instrument panels, water and fuel oil meters, gauges, liquid level controllers, pumping unit for emergency water supply.
- (c) Steam, exhaust, boiler-feed, drip, blow-off, fuel oil, water, vent, cold water and drain piping; also miscellaneous electrical work.
- (d) Blow-off and waste tank, concrete floor for the boiler room, structural platform and overhead walkways, breeching from boiler smoke flue outlets to an existing breeching, an overhead condensate receiver, insulating and protective coverings, and miscellaneous work and material. The work also includes the removal and reinstalling of an existing water-softening plant.

Specifications obtainable from above office on deposit of \$10 certified check.

SAN FRANCISCO—Until Sept. 15, 3 P. M., under Bid No. 1075, bids will be received by T. A. Brooks, City Purchasing Agent, to furnish valves for Hetch Hetchy as follows:

- (1) 3 24-in. gate valves;
- (2) 3 30-in. do;
- (3) 1 48-in. gate or butterfly valve.

Specifications obtainable from above office.

29—STREETS AND HIGHWAYS

LOS ANGELES Co., Cal.—Until Sept. 27, 2 P. M., bids will be received by State Highway Commission, Sacramento, to apply bituminous surface treatment and to super-elevate curves over 5 mi. between Oak Garag and Palmdale, involving:

- (1) 6350 tons coarse rock and screenings (retread surf. treatment);
- (2) 400 tons emul. asph. road oil (do);
- (3) 5000 sq. yds. asph. paint binder (curve super-elev.);
- (4) 1430 tons cru. rock (do);
- (5) 90 tons emul. asph. road oil (do).

MONO CO, Cal.—Until Sept. 27, 2 P. M., bids will be received by State Highway Commission, Sacramento, to grade, surface with selected material, and apply a bituminous treatment over 2.9 mi. between 2 mi. north of Leevining and Mono Inn, involving:

- (1) 74,100 cu. yds. rdwy. excav. unclass;
- (2) 200,000 sta. yds. overhaul;
- (3) 3800 cu. yds. imp. borrow;

- (4) 1150 cu. yds. fl. struc. excav.;
- (5) 4600 cu. yds. sel. surf. material;
- (6) 405 bbls. light fuel oil;
- (7) 365 tons cut-back asph. road oil;
- (8) 2.86 ml. mix bit. binder and surf. material;
- (9) 150 cu. yds. screenings;
- (10) 20 cu. yds. class A Port. cem. conc (struc.);
- (11) 1100 tons bar reinf. steel (struc.);
- (12) 40 lin. ft. 12-in. pref. metal pipe underdrains;
- (13) 1370 lin. ft. 18-in. corru. metal pipe;
- (14) 106 lin. ft. 18-in. close riveted and soldered corru. metal pipe;
- (15) 152 lin. ft. 24-in. corru. metal pipe;
- (16) 146 lin. ft. corru. metal pipe, clean and relay;
- (17) 276 lin. ft. salvage exist. culverts
- (18) 1300 M gal. water;
- (19) 250 cu. yds. dry rubble walls;
- (20) 0.9 ml. exist. property fences remove and reset;
- (21) 1.5 ml. new property fence;
- (22) 5 fence gates complete in place;
- (23) 151 sta. finish rdwy;
- (24) 73 monuments complete in place.

State will furnish corru. metal pipe and perf. metal pipe underdrains.

KERN CO., Cal.—Valley Paving Co., P. O. Box 1349, Fresno, at \$8297.50 submitted low bid to District Engineer, State Highway Commission, Fresno, to apply retread surface treatment to 2-mi. existing pavement between 6.2-mi. and 10.4-mi. east of Bakersfield, involving:

- (1) 125 tons emul. asph. road oil;
- (2) 1630 tons screenings.

Complete bids follow:
 (A) Valley Paving Co., Fresno \$ 8,297.50
 (B) Granite Constr. Co., Watsonville 9,224.50
 (C) Oilfields Trucking Co., Taft 12,812.50

Unit bids follow:

	(A)	(B)	(C)
(1)	\$24.00	\$26.20	\$21.00
(2)	3.25	3.65	6.25

SONOMA CO., Cal.—Until September 27, 2 p. m., bids will be received by State Highway Commission, Sacramento, to grade and surface with crusher run base and bituminous treated crushed gravel or stone surfacing 0.9-mi. between Fairville and Shellville, involving:

- (1) 55 remove trees, size 1;
- (2) 70 do, size 2;
- (3) 59,200 cu. yds. rdwy. excav., unclass.;
- (4) 260,000 sta. yds. overhaul;
- (5) 330 cu. yds. struc. excav.;
- (6) 4950 tons cru. run base;
- (7) 1800 tons cru. gravel or stone (bit. tr. surf.);
- (8) 95 tons cut-back asph.;
- (9) 60 bbls. heavy fuel oil;
- (10) 130 tons screenings;
- (11) 265 cu. yds. class A Portland cem. conc. (struc.);
- (12) 24,000 lbs. bar reinf. steel (struc.);
- (13) 108 lin. ft. 8-in. corru. metal pipe;
- (14) 146 lin. ft. 18-in. do;
- (15) 250 lin. ft. 30-in. do;
- (16) 3 spillway assemblies complete in place;
- (17) 3 concrete head walls move and reset;
- (18) 1.7-mi. exist. property fence move and reset;
- (19) 4 16-ft. tubular steel gates complete in place;
- (20) 5 14-ft. do;
- (21) 1000M gal. water;
- (22) 16 culvert markers complete in place;
- (23) 4170 lin. ft. lam. timber guard rail;
- (24) 50 sta. finish rdwy.;
- (25) 12 monuments complete in place.

GILA CO., Ariz.—All-Arizona Engineering & Construction Co. at \$48,462 submitted low bid to U. S. Bureau of Public Roads, Phoenix, for 5.247-mi. grading Section A, Route 11, Payson-Colcord Mt. National Forest Highway, Tonto National Forest.

Leo Frost, Phoenix, second low at \$53,019; H. J. Hagen, third low at \$56,681.

TULARE CO., Cal.—Stewart & Nuss, Inc., 410 Thorne Ave., Fresno, at \$6078 submitted low bid to District Engineer, State Highway Commission, Fresno, to apply a bituminous seal coat to the shoulders on each side of the existing pavement over 46-mi. between the southerly boundary and Kingsburg, involve:

- (1) 270 tons cut-back asph. in place;
(2) 1500 tons sand in place.

Complete bids follow:

(A) Stewart & Nuss, Fresno\$6078
(B) Granite Constr. Co.,

Watsonville 7806

(C) Valley Paving Co., Fresno 8850

Unit bids follow:

	(A)	(B)	(C)
(1)	\$13.90	\$17.80	\$20.00
(2)	1.55	2.00	2.30

UKIAH, Mendocino Co., Cal.—County Supervisors reject bid of J. A. Barton, Mendocino (one bid submitted) and order work to be done by day labor, to:

Surface 3.3 miles road between Noyo and Willitts, involving 8000 cu. yds. crushed or broken rock surface.

Re-align 600 ft. Hardy Creek-Hockport road, involving 5000 cu. yds. unclassified excavation.

YOLO CO., Cal.—Until Sept. 27, 2 P. M., bids will be received by State Highway Commission, Sacramento, to apply bituminous surface treatment over 3.9 mi. between Davis Wye and Willow Slough and in Butte Co. over 4 mi. between 0.75 mi. north of Rock Creek and 0.1 mil south of Pine Creek, involving:

- (1) 4050 tons coarse rock and screenings, Loc. 1;
(2) 4550 tons do, Loc 2;
(3) 115 tons emul. asph. road oil. type A., Loc. 1;
(4) 136 tons do, Loc. 2;
(5) 126 tons do, type B, Loc. 1;
(6) 150 tons do, Loc. 2;

ORANGE CO., Cal.—Until Sept. 27, 2 P. M., bids will be received by State Highway Commission, Sacramento, to grade and pave with asphaltic concrete 1 mi. in Anaheim between Sycamore St. and Romney Drive, involving:

- (1) 21 sta. clear and grub right-of-way;
(2) 5600 cu. yds. rdwy. excav., unclass;
(3) 6000 mi. yds. overhaul;
(4) 350 cu. yds. struc. excav.;
(5) 1110 cu. yds. conc. remove from exist. pave., curbs, sidewalks, driveways and structures;
(6) 12,500 sq. yds. sub-grade for pave;
(7) 16,330 sq. yds. asph. paint binder
(8) 7800 tons asph. conc.;
(9) 180 lin. ft. 24-in. corr. metal pipe;
(10) 470 cu. yds. class A Port. cem. conc. (curbs, gutters, sidewalks and driveways);
(11) 65 cu. yds. do (struc.);
(12) 4600 lbs. bar reinf. steel (struc.);
(13) 20,000 lbs. misc. iron and steel (struc.);
(14) 21 sta. finish rdwy.

LOS ANGELES, Cal.—Grifftr Co., 502 L. A. Railway Bldg., Los Angeles, at \$32,285.88 submitted low bid to County Supervisors to improve Siawson Ave. and Alameda St.

Oswald Bros., Second low at \$32,744.56.

RIVERSIDE CO., Cal.—Until Sept. 27, 2 P. M., bids will be received by State Highway Commission, Sacramento, to treat with fuel oil 19.6 mi. between 4 mi. east of Messa and Shavers Summit, involving:

- (1) 8500 bbls. heavy fuel oil (roadbed);
(2) 120 bbls. heavy fuel (oil tr. surf. material in stockpiles);

LOS ANGELES CO., Cal.—Alex. B. Chalmers and Max Winters Jr., Los Angeles, at \$12,801.50 submitted low bid to District Engineer, State Highway Commission, Los Angeles, to apply bituminous surface treatment over 1.8 mi. between Vasquez Rock Road and 2 mi. easterly and to grade and surface with waterbound macadam base and bituminous macadam surface about 0.2 mi.

H. E. Cox & Sons, Pasadena, second low at \$14,687.50; Thos. C. Rogers third low at \$18,285.75.

SONOMA CO., Cal.—Until Sept. 11, 2 P. M., bids will be received by John H. Skeggs, District Engineer, State Highway Commission, Room 211, State Office Bldg., San Francisco, to apply (4.2) mi. bituminous surface treatment between Willow Brook and Haystack, involving:

- (1) 900 tons screenings;
(2) 45 tons emul. asph. road oil.

Specifications obtainable from above office. Certified check 10% required with bids.

REDDING, Shasta Co., Cal.—Poulos & McEwen, 2522 17th St., Sacramento, at \$7043.68 awarded contract by Joint Highway District No. 21 to grade from Sta. 7 plus 00 to 85 plus 80, Section No. 4, Redding-Mt. Lassen approach road, 2.27 miles, involving:

- (1) 1.985 acres clearing;
(2) 11,839 cu. yds. unclass. excav.;
(3) 130.4 cu. yds. do, struc.;
(4) 30,650 sta. yds. overhaul;
(5) 2.227 miles finish earth graded rd.;
(6) 90 lin. ft. 72-in. corr. metal pipe;
(7) 48 lin. ft. 8-in. do;
(8) 36 lin. ft. 18-in. do;
(9) 172 lin. ft. 24-in. do.

Complete bids follow:

Poulos & McEwen, Sacramento	\$ 7,043.68
Tiffany Constr. Co., San Jose	7,183.82
J. P. Brennan, Redding	10,049.40
Coates Constr. Co., Sacramento	10,756.25
Hemstreet & Bell, Marysville	12,427.25
J. R. Reeves, Sacramento.....	14,000.00
Tieslau Bros., Berkeley.....	15,659.72
	29

LOS ANGELES, Cal.—Alex. D. Chalmers and Max D. Winter, Jr., 29.5 Knox Ave., Los Angeles, at \$45,268 submitted low bid to Board of Public Works to improve Coldwater Canyon Drive between Mulholland Highway and Eden Court.

Second low bid submitted by J. L. McClain, Los Angeles, at \$46,608.

KINGS CO., Cal.—Stewart & Nuss, 410 Thorne Ave., Fresno, at \$9088.20 submitted low bid to District Engineer, State Highway Commission, Fresno, to apply retreat surface treatment to existing pavement over 2.7-mi. near Lemoore, involving:

- (1) 117 tons emul. asph. road oil;
(2) 1764 tons screenings.

Complete bids follow:

(A) Stewart & Nuss, Fresno	\$ 9,088.20
(B) Valley Paving & Con., Fresno	9,864.00
(C) Granite Con. Co., Watsonville	10,192.68

Unit bids follow:

	(A)	(B)	(C)
(1)	\$23.40	\$24.00	\$25.00
(2)	3.60	4.00	4.12

FAIRFAX, Marin Co., Cal.—City Clerk ordered to prepare resolution of intention to start proceedings for Atanor Hill Section street improvement. Project includes paving, curbs and gutters, and involves:

- (1) 15,104 cu. yds. grading;
(2) 10,380 lin. ft. concrete curb and gutter;
(3) 63,437 sq. ft. asph. pavement;
(4) 206 ft. 10-in. metal pipe culvert;
(5) 356 ft. 12-in. do;
(6) 192 ft. 18-in. do;
(7) 46 ft. 48-in. do;
(8) 22 concrete catchbasins, c. i. gratings;
(9) 33 cu. yds. reinf. conc. retaining wall;
(10) 250 lin. ft. 6-in. sanitary sewer;
(11) 1 lamphole.

Estimated cost, \$30,000. J. C. Oglesby, City Engineer.

Project will be taken up at Sept. 15 meeting, 8 P. M.

NEVADA STATE—Following contracts awarded by State Highway Commission, Carson City, for highway construction as follows:

LINCOLN CO.—U. B. Lee, 1059 Carpenter St., San Leandro, at \$25,539.84 for oiling between the junction of the Alamo-Delmar Road and Caliente, Rt. 7, Sec. B-2, 13.13 miles.

LYON CO.—Jack Casson, 319 Warren St., Hayward, at \$20,034.07 for oiling 9.99 mi. between 12 mi. and 2 mi. west of Lahontan.

MINERAL CO.—J. C. Compton, McMinville, Ore., and Balsalt Rock Co., Napa, at \$50,628.42 to oil 22.22 mi. between Dutch Creew and Schurz.

LYON CO.—Balt Rock Co., Napa, and J. C. Compton, McMinville, Ore., at \$29,256.36 to oil 12.94 mi. between 2 mi. east of Mound House and 9 mi. east of Dayton.

ELKO CO.—N. M. Ball, 1889 Yosemite Road, Berkeley, at \$45,268.80 to construct cement concrete pavement within the City of Elko, between west city limits and 13th St.

ELKO CO., Nev.—Wheelwright Construction Co., Ogden, Utah, at \$12,284 awarded contract by State Highway Commission, Carson City, to construct overpass over the Western Pacific Railroad near Silver Zone, Rt. 1, Sec. G-2, 0.04 mi.

SAN FRANCISCO—J. B. Rogers, 110 Sutter St., at \$1.25 per ft. submitted low bid to Department of Public Works to bore test holes for foundations for the Laguna Honda Home. Only other bid submitted by Wm. Alingham at \$3.50 per ft.

SAN FRANCISCO—M. J. Lynch, 478 30th St., at \$960 submitted low bid to Department of Public Works to construct sidewalks on Onelda Ave. from Otsego to Delano, involving:

- (1) 6000 sq. ft. sidewalk.

Complete bids follow:

M. J. Lynch, \$16.....	\$ 960
M. Bertolino, \$185.....	1110
Eaton & Smith, \$24	1440

SAN FRANCISCO—Chas. L. Harney, 74 New Montgomery St., at \$4739.70 submitted low bid to Department of Public Works to improve Brunswick St. from Allison to Concord St., involving:

- (1) 3510 cu. yds. excav.....\$4738.50
(2) 120 cu. yds. embankment 1.20 (Lone bid submitted).

LOS ANGELES, Cal.—Until Sept. 19, 2 P. M., bids will be received by S. V. Cortelyou, District Engineer, State Highway Commission, 808 State Office Bldg., Los Angeles, to treat with fuel oil 14.5 mi. shoulders, gutters and dykes on Ridge Route Alternate between Castaic and Piru Gorge, involving 1105 sq. yds. scarifying.

mixing oil and finish and 5000 bbls. heavy fuel oil in place.

LOS ANGELES, Cal.—Alex. D. Chalmers and Max Winter Jr., 2925 Knox Ave., Los Angeles, at \$45,268 submitted low bid to Board of Public Works to improve Coldwater Canyon Drive between Mulholland Highway and Edan Court.

J. L. McClain, Los Angeles, second low at \$46,608.

KANE CO., Utah—Until Sept. 13, 2 P. M., bids will be received by State Road Commission, Salt Lake City, to construct 8.615 mi. gravel surfaced Rd. between Mt. Carmel Junction and Glendale, involving 76,500 cu. yds. unclass. excav. and 42,500 tons gravel surface and sub-base. Specifications obtainable from above office on deposit of \$2. Proposal guarantee 5%.
29

TULARE CO., Cal.—Until Sept. 26, 2 P. M., bids will be received by C. H. Sweetser, District Engineer, U. S. Bureau of Public Works, 461 Market St., San Francisco, to grade sec. C, General Grant-Sequoia Park Approach Road, Sequoia National Forest, involving:

- (1) 30 acres clearing;
- (2) 196,300 cu. yds. unclass. excav.;
- (3) 1200 cu. yds. unclass. excav., struc.;
- (4) 1600 c. yds. overhaul;
- (5) 238,000 sta. yds. overhaul;
- (6) 3,367 mi. finish earth graded road;
- (7) 915 cu. yds. masonry;
- (8) 8 cu. yds. concrete;
- (9) 130 lbs. reinf. steel;
- (10) 2676 lin. ft. corru. metal pipe;
- (11) 14 right-of-way monuments;
- (12) 1000 lin. ft. stone guard rail;
- (13) 1670 cu. yds. hand laid rock embankment;

Specifications obtainable from above office on deposit of \$10, certified check payable to Regional Fiscal Agent, U. S. Forest Service.

OAKLAND, Alameda Co., Cal.—Lee J. Immel, 1051 Evelyn Ave., Berkeley, at \$6106 awarded contract by City Port Commission for surfacing at the Municipal Airport, Oakland. Complete bids published August 30.

SEATTLE, Wash.—S. F. Doolittle Bros., Woodinville, Wash., at \$22,287 submitted low bid to U. S. Bureau of Public Roads for improving 3.69 miles of the Stillaguamish river in Snohomish county. Followings bids received:

S. F. Doolittle Bros., Woodinville	\$22,287
L. Romano Engr. Co., Seattle.....	25,059
Colonial Bldg. Co., Spokane.....	25,242
Fred. G. Redmo, Yakima.....	41,325

Bids under advisement.

ARIZONA STATE.—Until 2 P. M., Sept. 18, bids will be received by the State Highway Commission, Phoenix, for bridge construction on the Globe-Showlow Highway, E-99-E. The work which is located at the crossing of Salt River approximately 43 miles northeast of Globe, consists of the construction of a steel arch bridge with approach spans and the grading and draining of about one-half mile of adjacent roadway, and is to be completed on or before Feb. 15, 1934, involving:

- 37,000 cu. yds. rdwy. excav.;
- 500 cu. yds. drainage excav.;
- 420 cu. yds. struc. excav.;
- 500 cu. yds. borrow excav.;
- 2,000 cu. yds. slides and overbreakage;
- 80,300 sta. yds. earthwork overhaul;
- 812 cu. yds. Class A concrete;
- 9 cu. yds. Class B concrete;
- 72,000 lbs. reinf. steel;
- 520,400 lbs. struc. steel;
- 110 lin. ft. corru. metal pipe, 2 sizes;
- 1,670 lin. ft. cable road guard;

16 right of way markers;
ALTERNATE

1,670 lin. ft. steel plate road guard and other incidental items.

Proposal guarantee, 5%. Labor lists shall be obtained from the Office Manager of the Gila County Re-employment Committee, Harold Gribble, at Globe, Ariz.

PASADENA, Cal.—Until 11 A. M., Sept. 19, bids will be received by city directors to furnish three spillway gates for Pine Canyon Dam. Schedule I: 3 spillway gates each consisting of struc. and plate steel drum, weighing approx. 428 tons; 3 sets cast steel hinged anchors, cast stock cover plates and misc. castings, approx. 77 tons; formed spring brass water seals and bronze bushings, approx. 9,400 lbs.; forged steel hinge pins and bushings, approx. 9200 lbs., and bolts and cat screws, approx. 6200 lbs.

Schedule II: three 30-in. automatic angle needle control valves, hydraulically operated by pilot valve connected to float.

Schedule III: three mechanisms for automatic spillway gates operation, consisting of sheaves, sheave pins and yokes, bronze tiller rope, float, floor stands and other misc. material, all weighing approx. 17,000 lbs.

Samuel B. Morris, Water Superintendent and Chief Engineer.

SAN FRANCISCO.—U. S. Forest Service awarded contract to J. D. Adams for 100 grader blades, 8 ft., 50 do, 10-ft., in two sections, 100 do, 12-ft., in two sections, and Solano Iron Works, Berkeley at \$1,354 awarded contract for 370 cutting edges for trailbuilders for various tractors. The complete bids published Aug. 30.

SEATTLE, Wash.—Lynch Bros., Pioneer Bldg., Seattle, at \$68,415 for core drilling; Rumsey & Co., Medical Arts Bldg., Seattle, at \$19,000 for test pits; and D. Nygren, Lloyd Bldg., Seattle, at \$2650 for trench excavation submitted low bids to Columbia Basin Commission, Spokane, for 21,000 ft. core drilling and examination at dam site in connection with Grand Coulee Project. Bids were taken on schedules as follows:

- (1) core drilling;
- (2) test pits;
- (3) open trench.

Bids were received as follows:

- (A) Diamond Drill Co., Spokane.
- (B) Lynch Bros., Seattle.
- (C) Winston Bros. Co., Seattle.
- (D) *Sullivan Mach. Co., Spokane.
- (E) Clifton Applegate Co., Spokane.
- (F) Diamond Drill Constr. Co., Spokane.

(G) Stoner & Klnney, Seattle.
(H) Chris Yonlick, Seattle.
(I) D. Nygren, Seattle.
(J) Rumsey & Co., Seattle.

	(1)	(2)	(3)
(A)	\$ 93,315		
(B)	68,415	\$25,240	\$6,200
(C)	142,675	64,400	6,500
* (D)	102,275	41,880	3,425
(E)		41,780	6,625
(F)	85,455	30,340	7,600
(G)		22,040	3,280
(H)		54,500	6,835
(I)		34,600	2,650
(J)		19,000	4,125

*Offered a combined bid of \$138,580 for all three contracts.

LOS ANGELES, Cal.—Griffith Co., L. A. Railway Bldg., awarded contract by harbor department on August 30, at \$49,130, for paving miscellaneous streets, transit shed floors and wharf decks; Specification No. 918.

MODOC COUNTY, Cal.—Until Sept. 19, 2 P. M., bids will be received by U. S. Bureau of Public Roads, 461 Market Street, San Francisco, C. H.

Sweetser, District Engineer, to grade Section B, Rt. 11, the Lava Beds National Forest Highway, Modoc National Forest, involving:

- (1) 40,300 cu. yds. unclass. excav.;
- (2) 340 cu. yds. unclass. excav., struc.
- (3) 77,650 cu. yds. unclass. excav., borrow;
- (4) 20,500 sta. yds. overhaul;
- (5) 11,597 ml. finish earth graded rd.
- (6) 16,000 cu. yd. ml. haul borrow;
- (7) 115 cu. yds. concrete;
- (8) 4550 lbs. reinf. steel;
- (9) 1834 lin. ft. corru. metal pipe;
- (10) 42 right of way monuments;
- (11) 15,900 lin. ft. remove and re-set fence.

Specifications obtainable from above office on deposit of \$10, returnable; certified check payable to Regional Fiscal Agent, U. S. Forest Service.

September 1, 1933

GLENN, PLACER & COLUSA COS., Cal.—E. E. Hilliard, 1355 43rd St., Sacramento, at \$9142.55 submitted low bid to District Engineer, Marysville, to apply 14.2-mi. bituminous surface treatment, involving:

- (1) 44 tons asph. road oil, Loc. A;
- (2) 525 tons screenings, do
- (3) 75 tons asph. road oil, Loc. B;
- (4) 890 tons screenings, do;
- (5) 40 tons asph. road oil, Loc. C;
- (6) 450 tons screenings, do.

Complete bids follow:

(A) E. F. Hilliard,	Sacramento	\$ 9,142.55
(B) A. Teichert & Son,	Sacramento	10,508.75
	(A)	(B)
(1)	\$17.30	\$21.50
(2)	3.15	3.45
(3)	16.70	22.50
(4)	3.74	4.10
(5)	17.10	21.00
(6)	3.25	3.50

IMPERIAL CO., Cal.—V. R. Dennis Construction Co., 3911 5th Ave., San Diego, at \$5576 submitted low bid to District Engineer, State Highway Commission, San Bernardino (previously reported submitted by Mattich Bros., Elsinore, at \$5381, which was in error, as bid should have been \$6381) for highway oiling between Araz and the Colorado River, 6-mi. earth shoulders to be treated with fuel oil.

LOS ANGELES, Calif.—The county supervisors authorized the allocation of \$9,471.66 to the City of Los Angeles Sept. 1 toward the cost of improving 51st St. from Main Street to Broadway, with cement conc. pavement.

LOS ANGELES, Calif.—West Side Land Co. has purchased 145 acres of the Baldwin property, adjoining Leimert Park, for subdivision. The property has a frontage of 0.5 mile on Crenshaw Blvd., Santa Barbara Ave. and Ninth Ave. Planas of the purchaser, which is a subsidiary of the Walter H. Leimert Co., Inc., include paved streets, sidewalks, curbs, ornamental lighting system, underground conduits for utilities. The type of pavement has not been determined.

LOS ANGELES, Cal.—John Topich, 988 Everett St., submitted low bid to Board of Public Works, August 30, at \$2899.85 to improve Kincardine Ave., between Canfield and Durango Aves., in Kincardine Ave. and Canfield Improvement District, under cash contract.

SAN FRANCISCO.—Department of Public Works, S. J. Hester, Chief Deputy Director, rescinds bid call to have been opened Sept. 6, 2:30 P. M., to improve crossing of Innes and Mendell.

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

DOUGLAS CITY-PEANUT HIGHWAY BRIDGES—TRINITY CO., CAL.

TRINITY COUNTY, Cal.—Rolla Arhuckle, Anderson, at \$12,802.50 submitted low bid to U. S. Bureau of Public Roads, San Francisco, to construct two bridges on Section C, Rt. 6, the Douglas City-Peanut National Forest Highway, Trinity National Forest, involving:

- (1) 215 cu. yds. unclass. excav., struc.
- (2) 12 MFBM timber (placing only);
- (3) 80 cu. yds. Class A concrete;
- (4) 46 cu. yds. Class B do;

- (5) 120 cu. yds. Class D do;
- (6) 30,000 lbs. reinf. steel;
- (7) 115,000 lbs. struc. steel;
- (8) 77 sq. yds. bit. wearing surface. Complete bids follow:
- (A) Rolla Arhuckle, Anderson, \$12,802.50.
- (B) Whited & Whited, Santa Rosa, \$14,684.00.
- (C) H. Sneed, Berkeley, \$15,445.45.
- (D) Fred J. Maurer & Son, Eureka, \$16,687.10.
- (E) H. H. Henning, Stockton, \$16,814.

- (F) J. P. Brennan, Redding, \$17,967.60.
- (G) L. C. Seidel, Oakland, \$18,996.90.
- (H) F. H. Nielson, Orland, \$19,686.40.
- (I) Nelson and Wallace, Escalon, \$19,761.50.
- (J) Smith Bros., Eureka, \$20,995.50.
- (K) M. B. McGowan, San Francisco, \$21,226.45.
- (L) Neves & Harp, Santa Clara, no total.
- (M) Engineer's estimate, \$16,694.10.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)
(1).....	\$ 2.00	\$ 2.00	\$ 2.85	\$ 1.50	\$ 3.00	\$ 4.50	\$ 3.00	\$ 6.00	\$ 3.00	\$ 2.50	\$ 6.15	\$ 2.50	\$ 1.50
(2).....	18.00	25.00	34.00	40.00	30.00	40.00	28.00	28.00	45.00	36.00	113.00	40.00	35.00
(3).....	20.00	23.00	18.50	20.50	18.00	22.00	28.00	26.60	27.50	27.00	24.40	30.00	27.00
(4).....	17.00	17.00	17.80	19.00	17.00	21.50	27.00	25.00	21.00	19.50	19.30	30.00	23.00
(5).....	18.00	20.00	22.00	25.00	19.00	35.00	29.00	27.10	29.75	35.00	29.60	28.00	27.00
(6).....	.05	.046	.055	.055	.06	.056	.06	.0592	.065	.064	.075	.05	.055
(7).....	.0525	.065	.067	.075	.082	.067	.08	.084	.085	.083	.084	.075	.067
(8).....	1.00	1.00	1.70	.80	1.00	2.30	.70	1.20	1.50	2.00	3.20	1.00	1.80

COYOTE PERCOLATION DAM — SANTA CLARA COUNTY

SANTA CLARA, Cal.—As previously reported, F. O. Bohnett, Box 54, N. Union Ave., Campbell, at \$16,100 submitted low bid to Santa Clara Valley Water Conservation District, San Jose, to construct Coyote Percolation Dam near Coyote, Santa Clara County, involving:

- (1) 1200 cu. yds. excav.;
- (2) 1000 cu. yds. backfill, embank.;
- (3) 335 cu. yds. reinf. concrete;

- (4) 3060 sq. ft. steel sheet piles;
- (5) 5000 sq. ft. conc. block mattress;
- (6) 300 cu. yds. rip-rap;
- (7) 2 metal radial gates;
- (8) 21 movable crest panels;
- (9) 2 extra crest panels;
- (10) 1 lot derricks. Complete bids follow:
- (A) F. O. Bohnett, San Jose, \$16,100.00
- (B) Neves & Harp, Santa Clara, 16,338.40

- (C) C. G. Ritchie, San Jose, 16,333.00
- (D) Baldwin & Butler, Berkeley, 16,811.00
- (E) Carl N. Swenson, San Jose, 18,762.50
- (F) A. J. Raich, San Jose, 18,980.00
- (G) B. A. Howkins, S. F., 19,682.50
- (H) Eric Dahlberg, S. F., 22,984.17
- (I) Yondall Constr. Co., S. F., 21,877.00
- (J) Barrett & Hilp, S. F., 23,025.00

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
(1).....	\$ 500.00	\$ 1000.00	\$ 360.00	\$ 675.00	\$ 600.00	\$ 500.00	\$ 450.00	\$ 1000.00	\$ 1776.00	\$ 991.50
(2).....	.25	.25	.25	.25	.40	.35	.40	.43	1.00	.50
(3).....	17.00	16.50	14.80	15.60	15.50	22.00	19.50	21.00	24.90	23.50
(4).....	1.00	1.00	1.02	1.00	1.00	1.00	1.00	1.20	1.10	1.20
(5).....	.45	.45	.36	.46	.40	.34	.46	.57	.70	.40
(6).....	1.20	1.50	2.15	2.25	4.00	1.50	3.50	4.00	2.90	1.50
(7).....	350.00	400.00	450.00	400.00	424.00	475.00	300.00	550.00	500.00	336.00
(8).....	1785.00	1206.00	2212.35	1560.00	1462.00	1050.00	1870.00	2016.00	1386.00	2330.00
(9).....	140.00	47.50	75.00	100.00	50.00	50.00	60.00	82.00	60.00	150.00
(10).....	1200.00	1450.00	1964.00	2000.00	2000.00	3200.00	3000.00	2000.00	2685.00	4498.00
(11).....	160.00	250.00	25.00	225.00	100.00	250.00	300.00	350.00	339.67	340.00

BRIDGES — COCONINO COUNTY, ARIZ.

COCONINO CO., Ariz.—Vinson & Pringle, 919 E. Madison St., Phoenix, Ariz., submitted low bid to the Bureau of Public Roads, 802 Title & Trust Bldg., Phoenix, Ariz., Aug. 31, at \$44,933.70 to construct the Dead Indian Canyon bridge, Section C, Cameron-Desert View approach to Grand Canyon National Park, involving:

- (1) 625 cu. yds. unclass. excav. struc.;
- (2) 16 cu. yds. class A concrete;
- (3) 205 cu. yds. class B concrete;
- (4) 204 cu. yds. class D concrete;

- (5) 46,000 lbs. reinf. steel;
- (6) 380,000 lbs. struc. steel;
- (7) 604 lin. ft. steel rail. The total bids were:
- (A) Vinson & Pringle, Phoenix, \$44,933.70.
- (B) Lewis Bros., Phoenix, \$45,811.20.
- (C) H. L. Royden, Phoenix, \$48,196.50
- (D) Everly & Allison, Albuquerque, N. M., \$51,105.40.
- (E) M. B. McGowan, Inc., San Francisco, \$56,006.
- (F) Engineer's estimate, \$42,826.

The unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)
(1).....	\$ 2.50	6.00	\$ 2.50	\$ 4.00	\$ 5.50	\$ 2.00
(2).....	29.00	36.00	30.00	38.00	38.00	30.00
(3).....	29.00	34.00	30.00	30.00	22.50	26.00
(4).....	29.00	36.00	32.50	32.50	40.00	30.00
(5).....	.06	.05	.06	.06	.07	.055
(6).....	.07	.061	.075	.0785	.0875	.065
(7).....	2.80	2.80	3.50	4.35	4.50	4.00

C. H. Purcell, District Engineer, has recommended that the contract be awarded the low bidder.

VENTURA, Cal.—J. T. Immel, P. O. Box 192, Ventura, awarded contract by the directors of Joint Highway District No. 6, Ventura, Sept. 2, at \$14,162.34 (using creosoted Douglas Fir), to construct a timber trestle bridge on the route of the Maricopa-Ventura Highway across the Cuyama River, in Ventura county, about 40

miles from Maricopa. The bridge will be 350 ft. in length, 24 ft. wide. The quantities are:

- 71 timber piles, 32 ft. in length;
- 10.5 cu. yds. class A reinf. concrete;
- 6,800 cu. yds. earthwork grading;
- 74,000 ft. B.M. redwood, dense select structural;
- 20,000 ft. B.M. redwood select structural;

7,600 sq. ft. asphalt macadam wearing surface.

Alternate bids taken on all creosoted Douglas fir timber.

The bids were taken as follows:

- (1) Redwood;
- (2) Creosoted Douglas Fir;
- (3) Pine, per yd.

C. W. Pettit, Ventura, Chief Engineer

The bidders were:

- (A) J. T. Immel.
- (B) Silveria & Robbins.
- (C) Sharp & Fellows Co.
- (D) Associated Const., Inc.
- (E) Carl Hallin.
- (F) C. Bongiovanni.
- (G) John Oberg.
- (H) M. B. McGowan, Inc.
- (I) R. R. Bishop.
- (J) C. G. Kristensen, et al.
- (K) J. J. Munneman.
- (L) Oscar Oberg.

	(1)	(2)	(3)
(A).....	\$15,694.91	\$14,162.54	\$20,000.00
(B).....	16,900.00	16,500.00	25.00
(C).....	17,000.00	15,700.00	25.00
(D).....	17,668.00	16,074.00	40.00
(E).....	17,938.00	16,098.00	30.00
(F).....	18,333.00	17,033.00	55.00
(G).....	18,600.00	19,100.00	25.00
(H).....	18,696.00	18,038.00	30.00
(I).....	19,618.00	18,118.00	*100.00
(J).....	19,664.00	17,887.00	21.00
(K).....	22,000.00	20,550.00	30.00
(L).....	20,814.00	18,852.00	62.00

*Limit of \$100.00.

SAN BERNARDINO CO., Cal.—Geo. Herz & Co., Platt Bldg., San Bernardino, submitted low bid to District Engineer, State Highway Commission, San Bernardino, at \$7400 for highway offing between Needles and Colorado River Bridge near Topock, 14.3 miles bituminous surface treatment to be applied, involving:

(1) 180 tons road oil (emulsified asphalt);
 (2) 1000 tons screenings.

	(1)	(2)	(3)
Geo. Herz & Co.....	\$20.00	\$23.80	\$ 7,400
Matich Bros., et al.	28.00	2.70	7,740
E. L. Yeager.....	22.00	4.00	7,960
B. G. Carroll.....	31.75	7.70	13,415

SAN FRANCISCO.—Western Pipe & Steel Co., 44 Market St., at \$48,604.65 submitted low bid to Public Utilities Commission to construct Early Intake Tail Race Pipe Line (H.H.W.S.) Contract No. 145. Complete bids follow:

- (A) Western Pipe & Steel Co., \$48,604.65.
 (B) W. A. Kettlewell, \$57,017.00.
- Quantities and unit bids follow:
- 1) 855 ft. furnish and lay 60-in. steel pipe 5/16-in. plate;
 - 2) 230 ft. do 3/8-in. plate;
 - 3) 1000 sq. ft. mortar covering on steel pipe;
 - 4) 13,000 sq. ft. fela wrapping on do;
 - 5) 1 expansion joint;
 - 6) 2 manholes;
 - 7) 300 lbs. steel saddle nozzles;
 - 8) 1000 lbs. steel frames and covers for valve and manhole boxes;
 - 9) 200 lbs. steel bolts, nuts, washers
 - 10) connection to power house (lump sum);
 - 11) connection in tunnel (lump sum);
 - 12) construct standpipe (lump sum);
 - 13) 100 lin. ft. overflow pipe from standpipe;
 - 14) 300 lbs. misc. steel work;
 - 15) 300 lbs. install fittings furnished by city;
 - 16) 10,000 lbs. install valves (do);
 - 17) 1000 lbs. install misc. metal work (do);
 - 18) 1300 cu. yds. common excav., east of Sta. 2+45;
 - 19) 300 cu. yds. rock excav., do;
 - 20) 200 cu. yds. common excav. west of St. 2+45;
 - 21) 500 cu. yds. rock excav. do;
 - 22) remove conc. bukhead in tunnel (lump sum);
 - 23) 330 cu. yds. concrete, class A;
 - 24) 25 cu. yds. conc. class C;
 - 25) 35,000 lbs. reinf. steel;
 - 26) 250 lin. ft. dowel holes in exist. concrete;
 - 27) 20 bbls. extra cement;
 - 28) 3 MFBM wood construction;
 - 29) 2000 lbs. corru. sheet metal work;

	(A)	(B)
(1).....	\$ 13.05	\$ 22.00
(2).....	15.93	24.50
(3).....	.25	.35
(4).....	.05	.05
(5).....	600.00	650.00
(6).....	171.00	75.00
(7).....	.40	.25
(8).....	.21	.20
(9).....	.23	.16
(10).....	6,000.00	8,000.00
(11).....	913.00	1,200.00
(12).....	1,045.00	1,000.00
(13).....	5.55	5.50
(14).....	.25	.15
(15).....	.14	.15
(16).....	.04	.04
(17).....	.13	.10
(18).....	1.78	2.00
(19).....	2.54	3.50
(20).....	3.30	2.00
(21).....	3.55	4.00
(22).....	228.00	600.00
(23).....	35.50	24.00
(24).....	30.50	20.00
(25).....	.08	.07
(26).....	1.02	.40
(27).....	3.05	3.00
(28).....	112.00	120.00
(29).....	.11	.20

2.655-MI. GRADING — TRINITY CO., CALIF.

TRINITY CO., Cal.—Granfield, Farrar & Carlin, 67 Hoff St., San Francisco, at \$27,607.50 (Pro. B) submitted low bid to and recommended for award of contract by U. S. Bureau of Public Roads, San Francisco, for grading 2.655 mi. Sections A and C, Rt. 5, Douglas City-Peanut National Forest Highway, Trinity National Forest, involving:

- (1) 11 acres clearing;
- (2) 63,800 cu. yds. unclass. excav.;
- (3) 840 cu. yds. unclass. excav., struc. (alt.);
- (4) 910 cu. yds. da (alt. using timber)
- (5) 114,000 sta. yds. overhaul;
- (6) 2.655 mi. finish earth graded road
- (7) 4 MFBM timber cribbing (alt. c. m. p.);
- (8) 8 MFBM do (alt. using timber);
- (9) 28 cu. yds. class A conc.;
- (10) 74 cu. yds. class B do (alt. c.m.p.)
- (11) 52 cu. yds. do, alt. using timber);
- (12) 2400 lbs. reinf. atee (alt. c.m.p.)
- (13) 2340 lbs. do (alt. using timber);
- (14) 86 cu. yds. cem. rubble masonry;

- (15) 526 lin. ft. 18-in. corru. metal pipe;
 - (16) 212 lin. ft. 24-in. do;
 - (17) 260 lin. ft. 60-in. do (alt.)
 - (18) 70 lin. ft. 18-in. corru. irrig. pipe
 - (19) 310 cu. yds. handlaid riprap (alt. c.m.p.);
 - (20) 322 cu. yds. do (alt. using timber);
 - (21) 30 right-of-way monuments;
 - (22) 260 lin. ft. 4.5x4.5-ft. lam. tim. (alt.);
 - (23) remove and dispose exlat. bridge (l. s.);
- Complets bids follow, alt. A & B:
- (A) Granfield, Farrar & Carlin, San Francisco, \$29,877.10; \$27,607.30.
 (B) Poulou & McEwan, Sacto., \$29,188.70; \$30,069.60.
 (C) Young & Son, Berkeley, \$34,255; \$34,831.60.
 (D) Hemstreet & Bell, Marysville, \$46,670; \$47,863.20.
 (E) Engineer's Estimate, \$33,262.32; \$39,009.75.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)
(1).....	\$200.00	\$120.00	\$225.00	\$300.00	\$200.00
(2).....	.26	.28	.29	.42	.35
(3).....	1.00	.75	1.25	2.00	1.50
(4).....	1.00	.75	1.25	2.00	1.50
(5).....	.01	.006	.015	.01	.015
(6).....	300.00	200.00	300.00	400.00	250.00
(7).....	70.00	70.00	75.00	100.00	80.00
(8).....	70.00	70.00	75.00	100.00	80.00
(9).....	26.00	25.00	30.00	30.00	30.00
(10).....	26.00	25.00	25.00	30.00	30.00
(11).....	26.00	25.00	25.00	30.00	30.00
(12).....	.06	.06	.065	.08	.06
(13).....	.06	.06	.065	.08	.06
(14).....	12.00	12.50	12.00	12.00	18.00
(15).....	1.35	1.20	1.50	2.00	1.30
(16).....	2.00	1.75	2.25	2.75	1.90
(17).....	8.15	10.00	11.25	15.00	13.30
(18).....	2.05	2.00	2.35	2.50	2.00
(19).....	3.00	2.25	4.00	4.00	2.00
(20).....	3.00	2.25	4.00	4.00	2.00
(21).....	3.00	2.00	3.00	4.00	3.00
(22).....	.15	14.25	14.00	20.00	17.00
(23).....	100.00	50.00	150.00	250.00	100.00

TIMBER BRIDGE — EL DORADO COUNTY

EL DORADO COUNTY, Cal.—E. T. Lesure, 87 Ross Circle, Oakland, at \$5,143 submitted low bid to District Engineer, State Highway Commission, Sacramento, to construct a timber bridge across Greenwood Creek twelve miles northwest of Placerville, consisting of four 19-foot spans on frame bents and roadway approaches to be graded and surfaced with selected material, involving:

- (1) clear and grub (lump sum);
- (2) 1300 cu. yds. rdwy. excav.;
- (3) 400 sta. yds. overhaul;
- (4) 85 cu. yds. struc. excav.;
- (5) 550 cu. yds. sel. surf. material;
- (6) 25 cu. yds. Class B Port. cement concrete;
- (7) 26 MFBM dense select all-heart struc. grade redwood timber;

- (8) 5 MFBM select all-heart struc. grade redwood timber;
- (9) 12 cu. yds. rubble masonry;
- (10) 75 cu. yds. light riprap;
- (11) 0.4 miles move and reset property fence;
- (12) 1 existing bridge to be removed and disposed of;
- (13) 9 sta. finish roadway;
- (14) 8 monuments complete in place.

Complete bids follow:

(A) E. T. Lesure, Oakland.....\$5,143.00
 (B) M. A. Jenkins, Sacto..... 5,810.00
 (C) L. C. Seidel, Oakland..... 6,867.00
 (D) Holdener Const. Co., Sacramento 6,991.00
 (E) P. F. Bender, North Sacramento 7,102.00
 (F) Geo. Pollock, Sacramento 8,491.50

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)
(1).....	\$128.00	\$150.00	\$150.00	\$220.00	\$120.00	\$250.00
(2).....	.64	1.20	.95	1.55	1.35	2.00
(3).....	.005	.02	.02	.01	.03	.05
(4).....	1.40	1.50	3.00	2.80	3.00	2.50
(5).....	.45	.80	1.20	.78	1.00	1.00
(6).....	18.40	16.00	18.00	25.30	21.00	27.00
(7).....	83.00	82.00	100.00	83.00	75.00	100.00
(8).....	88.00	80.00	110.00	87.00	90.00	100.00
(9).....	9.00	7.50	15.00	8.00	15.00	12.00
(10).....	2.50	3.00	4.00	5.00	5.00	5.00
(11).....	450.00	200.00	400.00	450.00	350.00	150.00
(12).....	334.00	200.00	250.00	120.00	160.00	350.00
(13).....	9.00	6.00	5.00	10.00	10.00	15.00
(14).....	2.50	3.00	3.00	3.00	2.50	2.50

A bid was submitted by the Peterson Construction Company, Sacramento, but was not considered as it was irregular. One item was omitted.

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Building and Engineering News

IN THIS ISSUE



State Opens Bids on 41 Highway Contracts

Coast Permits Exceed Last August Total

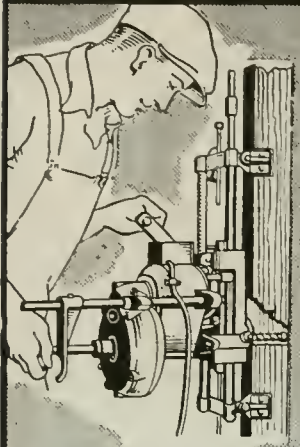
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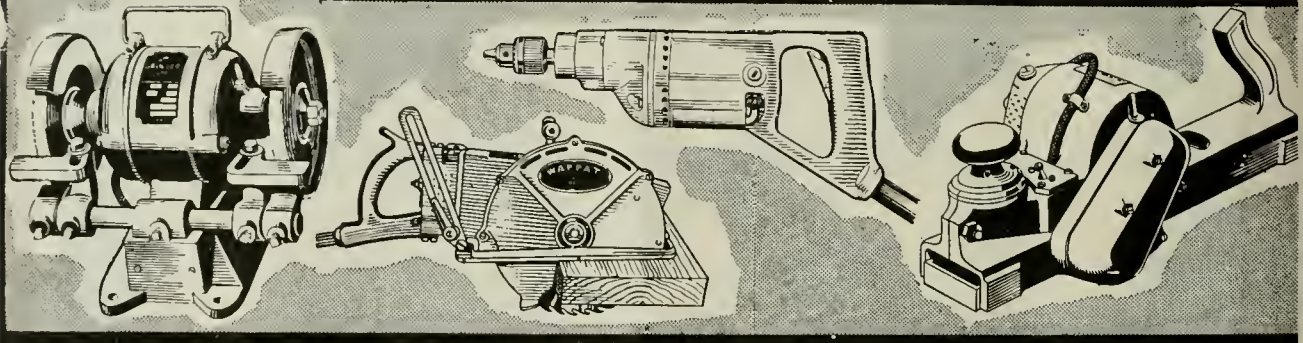
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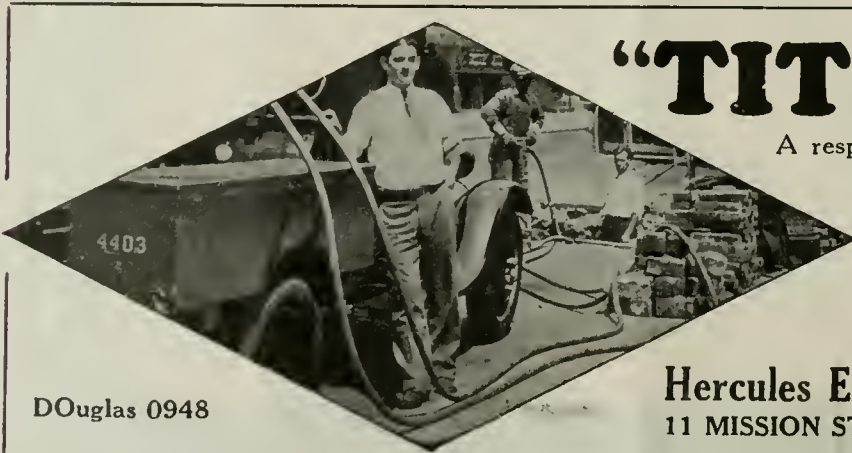
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SAN FRANCISCO, CALIF., SEPTEMBER 9, 1933

No. 34

Second Day's Openings Bring Total Highway Contracts to \$2,300,000

SACRAMENTO, Sept. 14.—Another million dollars was added to the contracts pending award today when bids were received by the State Highway Commission on 13 additional construction jobs. The total of low bidders, according to preliminary figures, is \$1,077,430. Yesterday's total was \$1,220,000, making a total for the two days of approximately \$2,300,000. Proposals are to be received today on 15 more contracts, the largest schedule of the three days, and should account for about \$2,000,000 worth of work, according to the highway department estimates for the 41 jobs involved.

Following is a list of low bidders on each contract opened today.

IMPERIAL COUNTY: 10.1 mi. surface between El Centro and Calixico, R. E. Hazard Construction Co., San Diego, \$36,997.

IMPERIAL COUNTY: 25.6 mi. construct borders between northerly boundary and Trifolium Canal, Oswald Bros., Los Angeles, \$71,000.

LOS ANGELES COUNTY: 5.1 mi. grade and pave between Santa Clara River and Castaic School, Griffith Construction Co., Los Angeles, \$101,803.

LOS ANGELES COUNTY: 6 n.i. grade and pave between Foothill Blvd. and Alosta Ave., Oswald Bros., \$32,338.

MADERA COUNTY: Construct timber bridge across Ash Slough, F. O. Bohnett, Camobell, \$32,951.

MARIN AND SONOMA COUNTIES: Repair timber approach to bridge across Petaluma Creek, Alfred H. Vogt, San Francisco, \$20,957.

NAPA COUNTY: 8.2 miles surfacing between easterly boundary and Napa Wye and between Napa Wye and southerly boundary, J. C. Compton, McMinnville, Ore., \$42,044.

ORANGE AND LOS ANGELES COUNTIES: 31 miles oil treat shoulders, Kovacevich & Price, Los Angeles, \$24,511.

PLACER COUNTY: 5.2 miles grade and pave, T. M. Morgan Paving Co., Los Angeles, \$234,057.

PLUMAS COUNTY: Construct steel arch span across North Fork Feather River, Lynch-Cannon Engineering Co., Los Angeles, \$23,251.

RIVERSIDE COUNTY: 9.2 miles grade and surface between Black Butte and Blythe, Walter Trapke, San Diego, \$47,670.

SAN LUIS OBISPO, MONTEREY & SAN BENITO COUNTIES: 17.2 miles oil treatment of shoulders, L. S. Brisco, Arroyo Grande, \$20,682.

SOLANO & NAPA COUNTIES: 10.3 miles grade between Carquinez bridge and Cordelia, Granfield, Farrar & Carlin, San Francisco, \$383,769.

Following is the low bidder in each contract opened yesterday:

KERN COUNTY: 2.1 miles grade and pave with asphalt concrete between Pierce Road and Tank Farm, Union Paving Company, San Francisco, \$97,061.

IMPERIAL COUNTY: 6.9 miles construct oil treated crushed stone borders, V. R. Dennis Co., San Diego, \$21,520.

SANTA BARBARA COUNTY: 0.8 mile grade and pave, United Concrete Pipe Corp., Los Angeles, \$63,367.

MONO COUNTY: 3.7 miles grade and surface, Hemstreet & Bell, Marysville, \$46,137.

SANTA CRUZ COUNTY: 0.8 mile grade, Union Paving Co., San Francisco, \$67,467.

IMPERIAL COUNTY: 23.7 miles pave with asphaltic concrete, V. R. Dennis Co., San Diego, \$214,690.

BUTTE COUNTY: Construct concrete bridge, F. Amoroso & Sons, San Francisco, \$59,930.

SHASTA COUNTY: 9.1 miles grade and surface, Frederickson & Watson, Oakland, \$186,243.

LOS ANGELES COUNTY: 3.8 miles grade and pave with Portland cement concrete, Oswald Bros., Los Angeles, \$144,668.

MENDOCINO COUNTY: Construct steel bridge, A. T. Howe, Santa Rosa, \$26,428.

MENDOCINO AND SONOMA COUNTIES: 13.9 miles surface, Basich Bros., Torrance, \$115,405.

MARIPOSA COUNTY: 15.1 miles surface, Frederickson & Watson, Oakland, \$146,094.

MONTEREY COUNTY: 7.4 miles bituminous surface treatment, Granite Construction Co., Watsonville, \$31,086.

COAST PERMITS EXCEED LAST AUGUST TOTAL

California Cities Report Figures Higher Than In July

Coast building permit totals in August were about 30 per cent higher than those for the corresponding month a year ago, according to reports from a hundred principal cities in the western states as compiled by DAILY PACIFIC BUILDER.

The total for the coast in August from reporting cities is \$5,845,602, compared with \$4,376,358 from the same group of cities for August, 1932.

The July total for the same group was \$6,290,699.

Permits in the principal municipalities of the state of California for August amounted to \$4,775,389, compared with \$4,740,124 in July and \$3,716,808 in August last year.

The following cities reported totals over \$100,000 for the month:

Berkeley	\$ 105,391
Beverly Hills	153,030
Glendale	102,225
Long Beach	577,755
Los Angeles	1,564,166
Oakland	221,110
Pasadena	131,539
Sacramento	104,391
San Diego	247,396
San Francisco	544,224
San Marino	146,425
Portland	259,130
Salt Lake City	152,270
Seattle	336,695

STATE BASIC CODE HEARING IS HELD HERE

Many Groups Protest Construction Industry Regulation Before Commission

The California construction industry Monday made its first attempt to complete a basic code of fair practices to qualify under the State Recovery Act.

A hundred representatives of groups from all branches of the trade and from every section of the state attended the public hearing on the proposed code sponsored by the State Builders' Exchange, Ltd. The session was held in the Corporation Commission quarters at the State Building, San Francisco, and was conducted by Deputy Commissioner A. Michel.

W. H. George, president of the San Francisco Builders' Exchange, appeared as spokesman for the sponsors of the code.

Commissioner Michel ruled that the state code must be considered apart from the national construction code, which is now before the NRA. He held that state authorities could take no notice of the Federal government proceedings until the national code actually had been adopted and signed by the President. At that time it will supersede any provisions of the state code with which there may be a conflict.

The commissioner also ruled that the state basic code would not include any reference to minimum wages or hours of labor for building craftsmen, except the general provisions relating to collective bargaining which are part of the state law. Hours, wages and working conditions are to be determined by each branch of the industry in the supplemental codes that will be filed by the several divisions.

Protests from many groups were filed with the commission prior to the hearing and spokesmen for the protestants were present. The objections were taken up in detail during the afternoon session and tentative agreements were reached on a number of controversial points. These will involve redrafting of some of the sections to make them generally acceptable and the proposal of new sections by some groups from which the commission will prepare provisions to be written into the final code draft.

Following is the status of the code provisions at the conclusion of the hearing:

(1) Accepted. Defines branches of industry affected.

(2) Deleted. Fixes Minimum wages.

(3) Deleted. Fixes hours.

(4) Accepted. Prohibits child labor.

(5) Deleted. Refers wage scales to boards of arbitration.

(6) To Be Redrafted. Creates administrative body.

(7) (a), (b) and (c) Accepted. Quoting collective bargaining provisions of state law.

(7) (d) Deleted. Permits open shop operation.

(e) Deleted. Deals with hiring and promotion of craftsmen.

(8) Accepted. Includes office employes in benefits of code.

(9) (a) Deleted. Requires supervision by architect or engineer of contracts.

(b) Deleted. Requires owner to specify type of contract.

(c) To be redrafted. Permitting owner to select any bidder from those submitting proposals.

(d) To Be redrafted. Similar to (c) applying to sub-contracts.

(e), (f) and (g) To be redrafted. Provides protection of contractors from bid peddling.

(h) Deleted. Prohibiting unsolicited bids.

(i) Deleted. Requiring owners to give evidence of financial standing.

(j) To be redrafted. Establishing methods of making payments on contracts.

(10) Deleted. Requiring contractors to abide by local trade conditions.

(11) Accepted. Requiring contractors to figure a "reasonable" overhead and profit in their bids.

(12) Accepted. Requiring contractors to figure their own labor in bids.

(13) Deleted. Prohibiting material men from selling to anyone outside the trade.

(14) Deleted. Establishing uniform prices for building materials.

(15) Accepted. Contractors to be governed by local building and sanitary codes.

(16) Accepted. Prohibiting defamation of competitors.

(17) Accepted. Prohibiting special inducements to obtain business.

(18) Accepted. Prohibiting special credit terms.

(19) Deleted. Prohibiting materialmen from quoting lump sum prices on orders.

(20) Accepted. Prohibiting labor contracts.

(21) Accepted. Including speculative builders under definition of general contractor.

(22) Deleted. Covered by State License Law.

(23), (24) and (25) Consideration deferred. Relating to proposed administration by State Builders' Exchange and local exchanges.

MORE STATE CODES FILED BY INDUSTRY

Plasterers, Electrical Contractors Propose Competitive Agreements

Additional CRA codes on file with the Commissioner of Corporations here yesterday included those of the Electrical Contractors' Association of Northern California, the California Conference of Master Plasterers, and the Lighting Fixture Association of Northern California.

Hearing on the lighting fixture code has been set for September 19 at Sacramento. Date for hearing of the other codes is expected to be set within a few days.

The Electrical Contractors' code, affecting two hundred firms, stipulates a maximum average of 30 hours per week for any three-month period, except that 40 hours may be permitted in one week, but not more than a total of 390 hours for the period.

Rates of pay are proposed as follows: Inside electrical workers, \$1.33 per hour; linemen, \$1.33 per hour; underground constructors, \$1.33 per hour; splicers, \$1.65 per hour; hangers, \$1.33 per hour; helpers, 50 cents per hour.

The Lighting Fixture Association code, affecting 23 firms in the Sacramento and San Joaquin Valleys, is designed "to rehabilitate the lighting fixture industry in the section, to increase employment and purchasing power."

The code proposes a 35-hour, six-day week. Minimum rates of pay are set at 35 cents per hour for helpers and 50 cents per hour for skilled builders.

Other codes affecting the building industry which have been scheduled for hearing include:

California Reinforcing Steel Institute, State Building, San Francisco, 10 a. m., September 18.

General Contractors' Association of Long Beach, Los Angeles, September 18.

A code was filed yesterday at Los Angeles by the Independent Truck Owners' Association, affecting 50,000 employes throughout the state and contemplating putting 10,000 additional employes to work. Under the terms of the code, the association would establish drivers' relief stations, with parking space, lodging and restaurants, in seven cities.

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ATTACK GATE BRIDGE CEMENT SPECIFICATION

Pacific Portland Company
Protests Substitution Pro-
posed by Directors

Golden Gate Bridge District directors heard charges yesterday that use of high silica cement in the bridge piers, said to be contemplated by the bridge management, endangered the foundation construction.

Letters to the board from counsel for the Pacific Portland Cement Company were made public and Charles A. Ruckles, attorney for the same company, appeared before the directors to press his company's charges.

On September 1, Mr. Ruckles wrote to George H. Harlan, attorney for the bridge directors, as follows:

"A vigorous effort is being made by the engineering staff and at least one director to induce the Pacific Coast Aggregates, sub-contractors on the pier work, to break their contract with Pacific Portland Cement Co. and to use a type of cement never passed on as Portland cement or shown to have passed the requirements set up by the bridge district engineers."

To this Mr. Harlan replied in part last Monday to the Pacific Portland cement Co.:

"Do you contend you have a contract with the bridge district? If so, I'm astonished to learn of it."

This prompted another letter from the Pacific Portland firm, which read in part:

"The Pacific Portland Co. is surprised at your (Mr. Harlan's) attitude. We understand you are conversant with the whole situation and have advised Pacific Bridge Co. to substitute high silica cement for Portland cement. We believe you realize high silica cement is manufactured exclusively by the Santa Cruz Portland Cement Co., of which George T. Cameron is president.

"The Pacific Portland Co. is going to fight to preserve its rights against any and all comers."

James A. Keller, vice-president

NEW BID ON FEDERAL BLDG.

New bids will be asked for construction of the San Francisco Federal building, it was reliably reported here yesterday after the announcement in Washington that the Public Works Administration was studying a new list of Federal office building projects.

Bids were received for the San Francisco building on February 28. The low bid was submitted by N. P. Severin Company, Chicago, at \$2,548,000. This bid was withdrawn when it had not been accepted within 60 days.

Other low bids were those of Great Lakes Construction Co., \$2,597,952; Jacobsen Construction Co., \$2,675,000; George Wagner, \$2,690,000.

Arthur Brown, Jr., is the architect.

of the Pacific Portland Co., pointed out that chapter IV of the contract provided that "no director, official or agent of the district is personally interested in this contract or the compensation to be paid."

Mr. Cameron's position with the Santa Cruz company and the bridge district would invalidate the contract, Mr. Keller pointed out.

The company said that high silica cement had been rejected as inadequate for the San Francisco-Oakland bay bridge because it disintegrated under water.

The company charged that the substitution of cement might endanger the whole bridge. It asserted that the government refused to use the same type of cement on Boulder Dam and, leveling its attack on Mr. Cameron, the company said he was president of and held a large financial interest in the Santa Cruz Portland Cement Co.

Cameron Statement

Mr. Cameron, who was present at the meeting, did not reply to the attack before noon adjournment was taken. He authorized this statement for the press:

"The selection of cement for the Golden Gate bridge was entirely in the hands of bridge engineers, who made thorough investigations and ordered the cement where they deemed best."

PAYROLLS OF STATE GAIN, REPORT SHOWS

Labor Commissioner Survey
Reports Increase in Em-
ployes and Earnings

Statewide gains in construction industry employment are reported for the month of August by State Labor Commissioner Frank C. MacDonald.

The average increase in number of employes was 9.1 per cent over the July total, according to reports of 176 firms. The San Francisco-Alameda area led the state at large with a reported gain of 13.5 per cent. A gain of 10 per cent was registered in Los Angeles and 2.4 per cent for the portion of the state outside the two metropolitan districts.

Compared with August, 1932, the increase in the state average was 8.5 per cent; San Francisco, Alameda, 11.4 per cent; Los Angeles, 2.7 per cent; remainder of state, 15.3 per cent.

Average per capita weekly earnings were up 1.6 per cent on an average for the state compared with July and in the local area increased 9.2 per cent.

PALO ALTO NAMED TO FEDERAL BOARD

Frederick Hall Fowler, 221 Kingsley Ave., Palo Alto, has been appointed by Secretary of Interior Ickes as a member of the technical board of review, with headquarters in Washington. To this board will be referred engineering projects which have been adversely reported upon by state boards.

Fowler received his degree in civil engineering at Stanford in 1905.



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PERMITS AND CONTRACTS

673	Sharman	Owner	4000
674	Anza	Owner	7900
675	Archbishop	Nelson	6000
676	Rasmussen	Owner	30000
677	Teglia	—	20000
678	Ratto	Owner	4000
679	Cannon	Papenhausen	7000
680	Pasqualetti	Rosenwald	1500
681	Stocker	Clinton	8872
682	Rainier	Lindgren	15000
683	Kerns	McFarland	1750
684	Grey	Owner	2000
685	Shell	Owner	1000
686	Holzmueller	Michael	1000
687	Arnott	Owner	4000

DWELLING

(673) NE MARKET AND MORGAN Alley. Two-story and basement frame dwelling.
Owner—T. R. Sharman, 3700 Broderick St., San Francisco.
Architect—Not Given. \$4000

DWELLINGS

(674) E FORTY-SEVENTH AVE. 157 S Geary St. Two one-story and basement frame dwellings.
Owner—Anza Home Bldg. Co., 47th Ave. and Geary St., San Francisco
Architect—Not Given. \$3950 ea

ALTERATIONS

(675) NO. 229-231 MINNA ST. Alter recreation hall.
Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.
Architect—A. Constable, 580 Market St., San Francisco.
Contractor—A. Nelson, 242 Ocean Ave., San Francisco. \$6000

APARTMENTS

(676) SE NORTH POINT AND Webster Sts. Three-story and basement frame (15) apartments.
Owner—V. Rasmussen, 1580 Beach St., San Francisco.
Architect—R. R. Irvine, 2048 Market St., San Francisco. \$30,000

APARTMENTS

(677) NE JEFFERSON AND Divisadero. Three-story and basement frame (9) apartments.
Owner—Mr. and Mrs. Teglia, 3023 Franklin St., San Francisco.
Architect—R. R. Irvine, 2048 Market St., San Francisco.
Contractor—Withheld. \$20,000

ALTERATIONS

(678) NO. 3349 EIGHTEENTH ST. Alter flats for apartments.
Owner—G. Ratto, Premises.
Architect—Not Given. \$4000

DWELLING

(679) DORANTES AVE. AND SAN Marcos St. Two-story and basement frame dwelling.
Owner—W. G. Cannon, 109 Madrone St., San Francisco.
Architect—Masten & Hurd, 233 Post St., San Francisco.
Contractor—H. Papenhausen, 595 Victoria St., S. F. \$7000

ADDITION TO DWELLING

(680) NE LOMBARD & LARKIN; addition to dwelling.
Owner—G. E. Pasqualetti, 2330 Larkin Street.
Architect—E. M. Sharpe, 525 Market Street.
Engineer—J. Rosenwald, 525 Market Street. \$1500

DWELLING

(681) E SAN LEANDRO 82 S PORTOLA DR.; 2-story and basement frame dwelling.

Owner—L. W. Stocker, 425 Mason St.
Architect—Masten & Hurd, 233 Post Street.
Contractor—Clinton-Stephenson, 550 Montgomery St. \$8872

MALTHOUSE

(682) NW BRYANT AND ALAMEDA Sts. Class C malthouse.
Owner—Rainier Brewing Co., 1550 Bryant St., San Francisco.
Engineer—L. S. Rosener, 233 Sansome St., San Francisco.
Contractor—Lindgren & Swinerton, 225 Bush St. \$15,000

STATION BLDGS.

(683) NW FIFTEENTH ST. AND Van Ness Ave. South. Two Class A service station buildings.
Owner—B. R. Kerns, 22 Bannock Ave., San Francisco.
Architect—Not Given.
Contractor—J. McFarland, 710 47th Ave., San Francisco. \$1750

ALTERATIONS

(684) NE HYDE AND BEACH STS. Alter cafe.
Owner—H. Grey, Premises.
Architect—Not Given. \$2000

ALTERATIONS

(685) NO. 100 BUSH ST. Alter office and garage.
Owner—Shell Oil Co., 100 Bush St., San Francisco.
Architect—Not Given. \$1000

ALTERATIONS

(686) NO. 674 TWENTY - EIGHTH Ave. Alter dwelling.
Owner—C. Holzmueller, 674 28th Ave., San Francisco.
Architect—S. A. Colton, 544 Market St., San Francisco.
Contractor—Michael & Bommer, 762 De Haro St., S. F. \$1000

DWELLING

(687) NE TWENTY-SIXTH AND Ocean Aves. One-story and basement frame dwelling.
Owner—J. A. Arnott, 633 Taraval St., San Francisco.
Architect—Not Given. \$4000

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
No.	Owner	Contractor	Amt.
403	Geantet	Ghisill	1000
404	Mark	Strong	1000
405	Silvia	Owner	1 500
406	Marshall	Owner	40000
407	Pier	McKallor	8500
408	Linton	Tollefsen	3000
409	City	Owner	1725
410	Bardwell	Owner	7300
411	Scammell	Owner	4000
412	Green	Owner	1200
413	Dickson	Owner	2000
414	Gibbs	Rosenberry	2500
415	Benner	Sorensen	25000

ALTERATIONS

403) NO. 463 SANTA CLARA AVE., ALAMEDA. Alter dwelling.
Owner—Geo. W. Geantet, Ark, Bay Farm Island Bridge, Alameda.
Architect—Not Given.
Contractor—Marino Ghisill, 1312 Fountain St., Alameda. \$1000

ALTERATIONS

(404) NO. 842 CEDAR ST., ALAMEDA Alter dwelling.
Owner—W. Mark, Premises.
Architect—Not Given.
Contractor—L. Strong, 429 Haight Ave., Alameda. \$1000

DWELLING

(405) No. 408 LINCOLN AVE., ALAMEDA. One-story 3-room frame and stucco dwelling.
Owner—Harold Silvia, 1325 Fernside Blvd., Alameda.
Architect—Not Given. \$1500

LAUNDRY

(406) NO. 5427 TELEGRAPH AVE., OAKLAND. One-story brick laundry.
Owner—Marshall Steel Co., 2124 Center St., Berkeley.
Architect—Alben Froberg, 1955 Webster St., Oakland. \$40,000

DWELLING

(407) NO. 1850 LEIMERT BLVD., OAKLAND. Two-story 8-room dwelling.
Owner—Dr. H. M. Pier.
Architect—Not Given.
Contractor—Henry T. McKallor, 2231 E-39th St., Oakland. \$8500

DWELLING

(408) NO. 2938 PARTRIDGE AVE., OAKLAND. One-story five-room dwelling.
Owner—G. W. Linton, 4622 E-14th St., Oakland.
Architect—Not Given.
Contractor—C. Tollefsen, 1100 Third Ave., Oakland. \$3000

ALTERATIONS

(409) NO. 1710 FORTY-FIFTH AVE., OAKLAND. Alterations and addition.
Owner—City of Oakland.
Architect—Not Given. \$1725

DWELLING

(410) NO. 878 LONGRIDGE ROAD, OAKLAND. Two-story 8-room dwelling and one-story garage.
Owner—C. E. Bardwell Jr., 4217 Bal-four Ave., Oakland.
Architect—Not Given. \$7300

DWELLING

(411) NO. 3763 ELSTON AVE., OAKLAND. One-story 6-room dwlg.
Owner—J. W. Scammell, 424 Scenic Ave., Piedmont.
Architect—Not Given. \$4000

ALTERATIONS

(412) NO. 5814 PRESSLEY WAY, OAKLAND. Alterations and addition.
Owner—R. C. Green, Premises.
Architect—W. W. Wurster, 260 California St., San Francisco. \$1200

GARAGE

(413) NO. 5901 ADELINE ST., OAKLAND. One-story tile garage.
Owner—C. Dickson, 685 34th St., Oakland.
Architect—Not Given. \$2000

DWELLING

(414) NO. 594 KENMORE AVENUE, OAKLAND. One-story four-room dwelling.
Ave., Oakland.
Owner—Camilla Gibbs, 3801 Lakeshore
Architect—Blaine & Olson, 1801 Franklin St., Oakland.
Contractor—C. C. Rosenberry, 1401 Mountain Blvd., Oakland. \$2500

RESIDENCE

(415) NO. 155 TAMALPAIS ST., BERKELEY. Three-story 14-room residence and garage.
Owner—F. C. Benner, 34 Orchard Lane Berkeley.
Architect—W. W. Wurster, 260 California St., San Francisco.
Contractor—Walter Sorensen, 2940 Piedmont Ave., Berkeley., \$25,000

**BUILDING CONTRACTS
SAN FRANCISCO COUNTY**

No.	Owner	Contractor	Amt.
No.	Owner	Contractor	Amt.
141	Veterans	Moore	1089
142	Cannon	Papenhausen	7650
143	R C Archbishop	Nelson	6559
144	Brower	Borsl	3890
145	Associated	Grant	9937

DWELLING

(140) LOT 19 BLK 10 Map, St. Francis Wood. All work for two-story frame and plaster dwelling with detached garage.

Owner—Leslie W. Stocker.
Architect—Masten & Hurd, 233 Post St., San Francisco.

Contractor—Clinton-Stephenson Construction Co., Ltd., 550 Montgomery St., San Francisco.

Filed Sept. 7, '33. Dated Aug. 31, '33.

Frame completed	25%
Brown coat plaster on	25%
When completed	25%
Usual 35 days	25%

TOTAL COST, \$8872
Bond, \$4436. Sureties, D. C. Clinton and H. L. Morgan. Limit, 90 days. Forfeit, none. Plans and specifications filed.

UNDERPINNING

(141) NO. 53 SEWARD ST. All work for concrete underpinning of dwelling.

Owner—Veterans' Welfare Board of State of Calif. and Pacific Bond & Mortgage Co., State Bldg., San Francisco.

Architect—Thos. E. Pring, 525 Market St., San Francisco.

Contractor—Moore & Roberts, 693 Mission St., San Francisco.

Filed Sept. 11, '33. Dated Sept. 5, '33.

When completed	75%
Usual 35 days	25%

TOTAL COST, \$1089
Bond, none. Limit, 20 days. Forfeit, plans and specifications, none.

DWELLING

(142) LOT 1 BLK 8, Map Forest Hill. All work for two-story and basement frame dwelling and attached garage.

Owner—W. G. and Vera M. Cannon, 109 Madrone St., San Francisco.

Architect—Masten & Hurd, 233 Post St., San Francisco.

Contractor—Henry Papenhausen, 595 Victoria Ave., San Francisco.

Filed Sept. 11, '33. Dated Aug. 29, '33.

Frame up	25%
Brown coat plaster on	25%
When completed	25%
Usual 35 days	25%

TOTAL COST, \$7650
Bond, \$3825. Sureties, C. W. Higgins and Robt. Postler. Limit, 90 days. Forfeit, none. Plans and specifications filed.

ALTERATIONS

(143) NO. 229-231 MINNA ST. All work for alterations to recreation building.

Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.

Architect—A. Constable, 580 Market St., San Francisco.

Contractor—A. Nelson, Inc., 242 Ocean Ave., San Francisco.

Filed Sept. 12, '33. Dated Sept. 11, '33.

On 10 of each month	80%
Usual 35 days	Balance

TOTAL COST, \$6559
Bond, none. Limit, 60 days. Forfeit, none. Plans and specifications filed.

DWELLING

(144) NO. 2573 HARRISON ST. All work for five-room dwelling.

Owner—Mr. and Mrs. M. J. Brown, 148 Highland Ave., San Francisco.

Architect—Not Given.

Contractor—C. L. Borsl, 1279 25th Ave. San Francisco.

Filed Sept. 13, '33. Dated Aug. 18, '33.

Frame up	\$972.50
Brown coated	972.50
When completed	972.50
Usual 35 days	972.50

TOTAL COST, \$3890.00
Bond, none. Limit, 90 days. Forfeit, plans and specifications, none.

STATION

(145) JUNIPERO SERRA BLVD. & Ocean Ave. Dismantle existing facilities, regrade and construct new reinforced concrete and wood frame and stucco service station building.

Owner—Associated Oil Co., 79 New Montgomery St., San Francisco.

Architect—Not Given.

Contractor—J. A. Grant, 666 Mission St., San Francisco.

Filed Sept. 13, '33. Dated Sept. 11, '33.

10 days after completion	75%
Usual 35 days	25%

TOTAL COST, \$9937
Bond, \$10,000. Surety, Fidelity & Deposit Co. of Maryland. Limit, 40 days. Forfeit, none. Plans and specifications filed.

ALAMEDA COUNTY

60 Benner Sorensen 24834

RESIDENCE

(60) LOTS 1 AND 2 along S line Cragmont Ave. SW to Tamalpais Path, Berkeley. All work for residence.

Owner—Frederic C. and Ruth Y. Benner, 3 Orchard Lane, Berkeley.

Architect—William Wilson Wurster, 260 California St., San Francisco.

Contractor—Walter Sorensen, 2940 Piedmont Ave., Berkeley.

Filed Sept. 12, '33. Dated Sept. 7, '33.

Frame completed	\$6208.52
Brown plaster applied	6208.52
When completed	6208.53
Usual 35 days	6208.52

TOTAL COST, \$24,834.10
Bond, none. Limit, 100 days. Forfeit, none. Plans and specifications filed.

SAN FRANCISCO UNDER \$1000

ADD to restaurant, \$250; 350 Tenth St.; owner, R. Moore, 350 10th St.
SIGN, electric, \$150; 1105 Market St.; owner, Gallenkamp's, 1105 Market St.; contractor, QRS Neon Corp., 690 Potrero Ave.

ALTER club rooms, \$150; 338 Clay St.; owner, Blum, 340 Clay St.; contractor, W. C. Jones, 1132 Guerrero

SIGN, electric, \$150; 4500 Mission St.; owner, Gallenkamp's, Premises; contractor, QRS Neon Corp., 690 Potrero Ave.

BILLBOARD, \$6.25; S Market 169 W Glendale; owner, Foster & Kleiser 1675 Eddy St.

SIGN, electric, \$150; 3384 Mission St. owner, Gallenkamp's, Premises; contractor, QRS Neon Corp., 690 Potrero Ave.

ALTER store, \$30; SW Ellis and Webster Sts.; owner, J. R. McElroy, 301 Sansome St.; contractor, C. S. Biggar, 1760 Ellis St.

STUCCO front of dwelling, \$464; \$41 Hampshire St.; owner, S. F. Brady 841 Hampshire St.; contractor, V. Oliva, 2160 Bryant St.

BILLBOARD, \$13; E Bayshore 530 N Waterloo; owner, Foster & Kleiser 1675 Eddy St.

SIGN, electric, \$150; 2738 Mission St.; owner, Gallenkamp's, Premises; contractor, QRS Neon Corp., 690 Potrero Ave.

ADD to dwelling, \$200; 2301 15th Ave.; owner, P. Hagan, 2301 15th Ave.; contractor, J. Arnott & Son, 633 Taraval St.

BILLBOARD, \$7; NW Mission and Silver Avenue; owner, Foster & Kleiser, 1675 Eddy St.

SIGN, electric, \$200; 1541 Laguna St.; owner, Estate Sport Shop, 1511 Laguna St.; contractor, Electrical Products Corp., 255 Golden Gate.

ALTER rooming house, \$60; 1353 Bush; owner, P. N. Devlin, 1353 Bush.

SIGN, electric, \$50; 4436 Balboa; owner, F. L. Faircloth, 4436 Balboa; contractor, QRS Neon Corp., 690 Potrero.

ALTER dwelling, \$250; 679 Third Ave.; owner, J. Ackers, 3541 Bay St.

ALTER dwelling, \$400; 1418 20th Ave.; owner, W. F. Drowes, 1418 20th Ave.; contractor, J. Johnson, 1614 Church St.

STUCCO front dwelling, \$110; 675 6th Ave.; owner, P. Cansani, 664 3rd Ave.

ALTER flats, \$150; 1547 Fulton St.; owner, J. A. Christen, 1427 Valencia St.

ALTER laundry, \$275; 943 Howard St.; owner, J. D. Helm, Palo Alto; contractor, J. Johnson, 1614 Church.

ALTER laundry, \$200; 2549 Clay St.; owner, J. P. Casson, 2549 Clay St.; contractor, A. M. Hardy, 686 Harrison St.

ALTER laundry, \$200; 2549 Clay St.; owner, J. P. Casson, 2549 Clay St.; contractor, A. M. Hardy, 686 Harrison St.

ALAMEDA COUNTY UNDER \$1000

CHIMNEY, patent, \$24; 380 8th St., Oakland; owner, Central Bank, 14th and Broadway; contractor, McDonald Sheet Metal Co., 829 Isabella St.

ALTERATIONS, \$300; 332 E-18th St., Oakland; owner, Modern Food Co., 5725 E-14th St.

ADDITION, \$175; 3017 Montana St., Oakland; owner, M. R. Holmes, 3017 Montana St.

GARAGE, one-story, \$200; 3857 Brighton Ave., Oakland; owner, W. Gilson, 3857 Brighton Ave.

FIRE repairs, \$900; 337 33rd Ave., Oakland; owner, Central Bank of Oakland, 14th and Broadway; contractor, Central Bank Properties, 819 Central Bank Bldg.

ADDITION, \$336; 864 60th St., Oakland; owner, P. Ramboni, 864 60th Street.

ALTERATIONS, \$216; 2814 Woolsey St., Berkeley; owner, H. G. Butler, 2814 Woolsey St.; contractor, W. H. Verbisio, Richmond.

GARAGE, private, \$75; 2527 10th St., 1135 Euclid Ave.

GARAGE, private, \$350; 1133 Euclid Ave., Berkeley; owner, L. H. Madsen, 1133 Euclid Ave.; contractor, C. O. Bradhoff, 911 55th St., Oakland.

ALTERATIONS, \$350; 2618 Durant, Berkeley; owner, Nucules Bldg. & Loan Co., San Jose.

GARAGE, one-story, \$450; 1019 E-Smith, 1607 Grand Ave., Piedmont; 33rd St., Oakland; owner, B. W. contractor, F. A. Younger, 5953 Sherwood Drive.

FIRE repairs, \$200; 3283 Hannah St., Oakland; owner, Hannah E. Vann, 2929 Ellis St., Berkeley; contractor, A. H. Rose, 478 25th St.

BILLBOARD, \$50; Gore E-10th St., 8th and 9th Aves., Oakland; owner, Foster & Kleiser, 22nd and Market Sts.

ALTERATIONS, \$150; 708 Oak St., Oakland; owner, Carl Chung, 178 Eighth St.

BILLBOARD, \$100; S Eighth St. 380 W Fallon, Oakland; owner, Foster & Kleiser, 22nd and Market Sts.

ALTERATIONS, \$300; 885 22nd St., Oakland; owner, J. Lamoure, 774 Seventh St.

FIRE repairs, \$500; 2145 35th Ave., Oakland; owner, J. C. Allegretti, 2145 35th Ave.; contractor, A. H. Rose, 478 25th St.

FIRE repairs, \$500; 2145 35th Ave., Oakland; owner, J. C. Allegretti, 2145 35th Ave.; contractor, A. H. Rose, 478 25th St.

FIRE repairs, \$500; 2145 35th Ave., Oakland; owner, J. C. Allegretti, 2145 35th Ave.; contractor, A. H. Rose, 478 25th St.

BUILDING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

1.—Apartments	Offices
2.—Bonds	11.—Ice and Cold Storage Plants
3.—Churches	12.—Power Plants
4.—Factories and Warehouses	13.—Public Buildings, Fire Houses and Jails
5.—Flats	14.—Residences
6.—Garages and Service Stations	15.—Schools
7.—Federal Buildings	16.—Banks, Stores and
8.—Club Buildings	17.—Theatres
9.—Hospitals	18.—Wharves & Docks
10.—Hotels	19.—Misc. Const.
	20.—Misc. Supplies & Materials

1—APARTMENTS

Plans Being Completed.
APARTMENTS Cost, \$—
MARYSVILLE, Yuba Co., Cal. 424 5th Street.
 Six two-room apts. on fifth floor of hotel.
 Owner—Marysville Hotel.
 Architect—Charles Dean, California State Life Bldg., Sacramento.
 Engineer—C. A. Worder, Marysville Hotel, Marysville.
 Bids will be taken by Mr. Worder, Marysville, in about one week.

Sub-Contracts Awarded.
APARTMENTS Cost, \$50,000
SAN FRANCISCO. W Pierce St. 110 N McAllister St.
 Three-story and basement frame and stucco apartments (15 2- and 3-room apts.) composition ten-year roof, 18-car garage, gas-steam heating plant, elevator, individual electric refrigeration, canvas walls hardwood floors, tiled baths and showers, electric ranges, etc.
 Owner and Builder—Patrick Horgan, 930 Pierce St., San Francisco.
 Architect—Richard R. Irvine, 2048 Market St., San Francisco.
 Plumbing and Heating—Higgins & Kraus, 741 Tehama St.
 Plastering—Ed. Murphy, 44 Clayton St.
 Painting—R. P. Paoli, 3159 Fillmore St.
 Wiring—Atlas Electric Construction Co., 343 Fourth St.
 Structural Steel—Golden Gate Iron Works, 1541 Howard St.
 Rough Lumber—Smith Lumber Co., Fourth and Channel Sts.
 Wall Beds—Marshall & Stearns, Phelan Bldg.
 Electric Refrigeration—Cyclops Iron Works, 837 Folsom St.
 Elevator—Pacific Elevator & Equipment Co., 45 Rausch St.
 Bids are being taken on tile work and mill work.

To Be Done By Day's Work.
ALTERATIONS Cost, \$5000
SAN FRANCISCO, Calif. 3349 18th Street.
 Alterations to frame flats for apartments.
 Owner—G. Ratto, 3349 18th St.
 Bids Wanted—To Close Sept. 18, 8 P. M.
APARTMENTS Cost, \$20,000
SAN FRANCISCO. NE Jefferson and Divisadero Sts.
 Three-story and basement frame and stucco apartments (9 apts.)
 Owner—Mr. and Mrs. Teglia, 3023

Franklin St., San Francisco.
 Architect—Richard R. Irvine, 2048 Market St., San Francisco.
 The following will submit bids:
 Louis Franceschi, 1408 Jefferson St.
 S. F. Constr. Co., Inc., 3159 Fillmore
 Gall & Maffel, 1900 Hyde St.
 Guido Moriconi, 1670 Chestnut St.
 Robinson & Johnson, 2175 Lombard
 G. Ferroni, 1968 Filbert St.
 T. R. Sharman, 1514 Irving St.
 Chas. Christian, North Point and Broadway.

3—CHURCHES

Plans Completed.
CHURCH Cost, \$15,000
CRESCENT CITY, Del Norte Co., Cal.
 One-story reinforced concrete church (to seat 275).
 Owner—Roman Catholic Archbishop (Father Nolan, Pastor), Crescent City.
 Architect—Harry Devine, California State Life Bldg., Sacramento.
 Bids will be asked in about one week.

4—FACTORIES & WAREHOUSES

SAN DIEGO, Cal.—Until October 5, bids will be received by the Bureau of Yards and Docks, Navy Department, Washington, D. C., for final assembly shop at San Diego. Specification No. 7426. Estimated cost \$175,000.

Plans Being Completed.
BREWERY Cost, \$275,000
OAKLAND, Alameda Co., Cal. Location not given.
 Reinforced concrete brewery (100,000 barrel capacity per year) 150 barrel kettles, etc.
 Owner—Samarkand Brewing Co., 893 Folsom St., San Francisco.
 Architect—O'Brien Bros. and W. D. Peugh, 333 Montgomery St., San Francisco.
 Bids will be asked on a general contract and mechanical work in about two weeks. Bids are now being received by the owner for machinery and equipment.

To Ask Segregated Bids Next Week.
PLANT Cost, \$50,000
BERKELEY, Alameda Co., Cal. Telegraph Ave. near 55th Street.
 One-story steel frame and brick laundry and cleaning plant.
 Owner—Marshall Steel Co., 2124 Center St., Berkeley.
 Architect—Alben Froberg, Ray Bldg., Oakland.

Contracts Awarded.
BOTTLING PLANT Cost, \$100,000
SEATTLE, Wash. Columbia St., bet. 7th and 8th.
 Remodel and recondition building for bottling plant (two-story structure, 36-100), bottling equipment.
 Owner—Star Brewery Co., (Paul Pol-sky, Gen. Mgr.), premises.
 Architect—Not Given.
Structural Steel—Pacific Iron Works, 3901 N. E. Clackamas St., Portland.
Tanks—Steel Tank & Pipe Co., 518 N. E. Columbia Blvd., Portland.

Planned.
ADDITION Cost, \$—
TERRA BELLA, Tulare Co., Calif.
 Addition to oil refinery.
 Owner—Cal-Penn Oil Co., (R. V. Rap-lee), Terra Bella.
 Architect—Not Given.

LOS ANGELES, Cal.—Emerson C. Bishop, 151 S. Naud St., is having plans prepared by H. M. Brown for a two-story building and a one-story factory to be erected in the 3900 block on Medford St. for himself. The office building will be a wood frame and stucco structure and the factory will have corrugated iron sides and roof. The factory will be used for the manufacture of paints and varnish.

Contract Awarded.
BREWERY Cost, \$750,000
SAN FRANCISCO. (Paul Tract) Bay-shore Ave. and Third Street.
 Group of buildings for brewery, steel and concrete construction.
 Owner—General Brewing Corporation (C. W. Ahrens, director).
 Architect—Fred H. Meyer, 525 Market St., San Francisco.
 Contractor—Cahill Bros., 206 Sansome St., San Francisco.

Plans Being Completed.
BREWERY Cost, \$150,000
FRESNO, Fresno Co., Cal. N. E. Hedges and Blackstone Ave.
 One two- and three-story brewery 80x140, malt cooling apparatus, capacity of 100 barrels of beer daily, bottling plant, etc.
 Owner—Emilio Giometti, 1480 Blackstone Ave., Fresno.
 Architect—W. D. Coates, Rowell Bldg., (2645)

Stair Contract Awarded.
BREWERY Cost, \$300,000
SAN JOSE, Santa Clara Co., Calif. Lincoln Avenue.
 Remodel building for brewery (new equipment, refrigeration, etc.); capacity of 70,000 barrels per year.
 Owner—Sainte Claire Brewing Co., (Frank J. McCarthy, in Charge), San Jose.
 Contractor—Jacks & Irvine, 74 New Montgomery St., San Francisco, at \$20,000.
Stairs—J. De Cristina & Son, 3150 18th St., San Francisco.

Planned.
BREWERY Cost, \$20,000
MODESTO, Stanislaus Co., Cal. Tenth and G Streets.
 Remodel building for brewery (machinery and equipment, etc.)
 Owner—William Henning, Alameda & J. H. Anderson, 129 Westwood St., San Francisco, et al.
 Architect—Not Given.

WASHINGTON, D. C.—Until Oct. 9, 10 A. M., bids will be received by Public Works Officer, Puget Sound Navy Yard, Bremerton, Washington, for the construction of a shop type building at the Puget Sound Navy Yard, approximately 805 feet long by 251 feet wide by 95 feet high in the main bay, erected upon foundations provided by the Government. Specification No. 7338. Construction includes concrete base; brick sidewalls; steel frame work; laminated wood roof; 5-ply built-up roofing; reinforced concrete mezzanine floors; steel sash and doors; corrugated glass skylights, and plumbing and lighting. Estimated cost, \$1,350,000. Specifications and plans may be obtained from the Bureau of Yards and Docks, Navy Department, Washington, D. C., and from Public Works Officers, Puget Sound Navy Yard, Bremerton, Washington, upon deposit of \$40.00

Sketches Being Completed.
FACTORY Cost, \$—
SAN FRANCISCO. NE Harrison and Hawthorne Sts. (150x68.6 ft.) New factory and office building. Owner — George Caswell Co. (Mr. Quinn), 442 Second St., S. F. Architect—Mastin & Hurd, 233 Post St., San Francisco.

Plans Being Completed.
BREWERY Cost, \$—
PORT TOWNSEND, Washington. Modern brewery. Owner — Peninsula Brewery, headed by Edward Daly, Benjamin Franklin Hotel, Seattle, Wash. Architect—Not Given.

Sub-Contracts Awarded.
MALT HOUSE Cost, \$—
SAN FRANCISCO. Twelfth and Bryant Streets. Construct malt house. Owner — Rainier Brewing Co., Inc., 1550 Bryant St., San Francisco. Engineer—Leland Rosener, 233 Sansome St., San Francisco.

Contractor — Lindgren & Swinerton, Inc., 225 Bush St., San Francisco.
Structural Steel — McClintic-Marshall, 2050 Bryant St., S. F.
Reinforcing Steel—Pacific Coast Steel Co., 20th and Illinois Sts., S. F.
Common Brick—Remillard Brick Co., 960 Seventh St., S. F.
Hollow Tile—W. S. Dickey Clay Mfg. Co., 116 New Montgomery St.
Lumber — Christensen Lumber Co., Fifth and Hooper Sts.

Work involves: Railroad and auto truck facilities and special conveying system between malt house and brewery;

Reinforced concrete elevator for the storage of barley and of finished malt; A reinforced concrete drum building containing 18 latest type growing drums;

A reinforced concrete steep tower containing 6 steep tanks.

A steel drying building containing the latest type of vacuum driers thru which a superior type of malt is produced. These driers will be complete with individual exhausters and condensers.

The special malting machinery has been purchased in the East. All other machinery will be purchased locally. Work has already started on the foundations and some of the machinery is expected to be in transit in a few days. The entire project is to be completed by Nov. 1, 1933.

The design and supervision of the entire project will rest with the office of Leland S. Rosener, consulting engineer.

SAN DIEGO, Cal.—Until 11 A. M., October 5, bids will be received by the Eleventh Naval District, San Diego, for Final Assembly Shop at the Naval Operating Base (Air Station), San Diego; Specification No. 7426. The work includes in general, the provision and installation of concrete work, steel and iron work, roofing and sheet metal work, steel windows, tubular and pressed steel doors, metal lath and plaster work, carpentry work, and plumbing, compressed air, heating and electrical systems. Hourly wage rates for the work at site of construction project shall be not less than \$1.10 for skilled labor and 45c for unskilled labor. Bidding data, which will be available on or before September 15, may be obtained from the District upon deposit of a check or postal money order for \$10, payable to the Chief of the Bureau of Yards and Docks.

Contract Awarded.
BREWERY Cost, \$180,000
PORTLAND, Oregon.
 Remodel building for brewery (equip-

ment, etc.) capacity of 250 barrels per day.
 Owner—Pilsner Brewing Co. (H. R. Fischmaller, President), 554 First Ave. South, Seattle, Wash. Architect—Not Given.
 Contractor — Lorenz Bros., Title & Trust Bldg., Portland.

Bids Wanted.
FACTORY Cost, \$750,000
OAKLAND, Alameda Co., Cal. Foot of Adeline Street on the Estuary. Steel frame and concrete coconut products factory (650x100 ft.) steel frame and reinforced concrete warehouse (40x146 ft.) pile foundations, flat slab roofing, corrugated iron roof and siding.
 Owner—El Dorado Oil Works, Third and University Ave., Berkeley.
 Engineers—Ellison & Russell, Pacific Bldg., San Francisco.

Bids are being received by L. S. King for scale house and trusses leading to bin and for sheet metal, placing of sheet metal, skylights and ventilators.

6—GARAGES & SERVICE STATIONS

Additional Sub-Contracts Awarded.
SERVICE STATION Cost, \$5000
BERKELEY, Alameda Co., Cal. NW Shattuck and Ashby Aves.
 Brick super-service station (terra cotta partitions, part tile and composition roofing, etc.)

Owner—J. C. Cragmille, 2344 Webster St., Berkeley.
 Plans by Ray Keefer, 770 Wesley St., Berkeley.

Contractor—W. T. Vaughn, 501 Weldon St., Oakland.

Plumbing — A. M. Poulsen, 616 41st St., Berkeley.

Reinforcing Steel—Herrick Iron Wks. 18th and Campbell Sts., Oakland.

Ornamental Iron—James Eandl, 1336 61st Ave., Oakland.

Brick—A. Hallert & Neal, 2500 65th Ave., Berkeley.

As previously reported, concrete contract awarded to Norman McLeod, 571 Spruce St., Berkeley.

LOS ANGELES, Cal.—Los Angeles county supervisors will probably call for bids next week for alterations to the building at 220 Market St., recently leased by the county for garage purposes. The work will include excavating, backfilling and grading, concrete and finish cement work, brick work, miscellaneous steel, iron and sheet metal, steel rolling doors, carpentry and mill work (including glazing and hardware), painting, electrical work, pipe work, and alterations and repairs to elevator. Gas pumps and storage tanks will be furnished by the county. Plans were prepared by William Davidson, Los Angeles county mechanical engineer, 1006 Hall of Records.

Contract Awarded.
STATION BLDGS. \$750 and \$1000
SAN FRANCISCO. NW Fifteenth St. and Van Ness Ave. South.
 Two Class A service station buildings.
 Owner—B. R. Kerns, 22 Bannock Ave. San Francisco.
 Architect—Not Given.
 Contractor—J. McFarland, 710 47th Ave., San Francisco.

Contract Awarded.
GARAGE Cost, \$2000
OAKLAND, Alameda Co., Cal. No. 5901 Adeline Street.
 One-story tile garage.
 Owner and Builder—C. Dickson, 685 34th St., Oakland.
 Architect—Not Given.

7—FEDERAL BUILDINGS

WASHINGTON, D. C. — Sterling Bronze Co., Inc., Long Island City, New York, at \$671 submitted low bid to Treasury Department for furnishing and installing special interior lighting fixtures in the U. S. Post Office at Yuma, Arizona. Following bids received:
 Sterling Bronze Co., Inc., Long Island City, N. Y., \$671
 Metalcrafts, Cincinnati, Ohio, \$693.
 Walter G. Warren Co., Chicago, \$693.
 The Horn & Brannen Mfg. Co., Philadelphia, Pa., \$738.
 The Flour City Ornamental Iron Co., Minneapolis, Minn., \$748.
 The Livers Lighting & Bronze Co., Kansas City, Mo., \$782.
 Benson Brass & Chandelier Wks., Kansas City, Mo., \$789.
 Cassidy Co., Inc., Long Island City, N. Y., \$1038.
 The Reading Chandelier Works, Reading, Pa., \$1050.

Plans Being Completed.
POST OFFICE Cost, \$225,000
SANTA MONICA, Los Angeles Co., Cal. NW Fifth St. and Arizona Avenue.

United States Post Office Building.
 Owner—United States Government.
 Architect—Henry Carlton Newton and Robert Dennis Murray, Architects Bldg., Los Angeles.
 Forty per cent of the plans have been completed.

WASHINGTON, D. C.—Turner Resilient Floors, Inc., 338 E. Ohio St., Chicago, Ill., at \$7359 submitted low bid to Treasury Department for furnishing and laying linoleum floor covering in the U. S. Post Office and Courthouse at Albuquerque, New Mexico. Only other bid was submitted by Shamberger's, Albuquerque, at \$7500. Bids held under advisement.

ALBUQUERQUE, New Mexico—Ed. Lebbe & Co., 324 N. Third St., Albuquerque, at \$2778 awarded contract by Treasury Department for granite steps and new brass railing at the old storehouse at Albuquerque, New Mexico.

SAN DIEGO, Cal.—Until 11 A. M., Sept. 26, bids will be received by the Eleventh Naval District for a heating plant building to be constructed at the Naval Operating Base (Air Station), San Diego; Specification No. 7415. Improvements will consist of concrete work, steel and iron, steel windows, tile roofing, stucco and plastering, etc. Bidding data may be obtained from the District upon deposit of a check or postal money order for \$10, payable to the Chief of the Bureau of Yards and Docks.

SUNNYVALE, Santa Clara Co., Cal.—Until September 19, 11 A. M., bids will be received by Public Works Officer, 12th Naval District, 100 Harrison St., San Francisco, for alterations and additions to operations office at the Naval Air Station, Sunnyvale. Specification No. 7357. Work includes movable steel partitions; door; glazing; asphalt tile flooring; hardware; painting; steam heating; steel & iron work; wrought iron windows; concrete work and the removal of existing concrete piers and an existing steel rolling door which will be turned over to the Government. Plans and specifications available from above office upon deposit of \$5.

WASHINGTON, D. C. — As previously reported D. Zelinsky & Sons, 165 Grove St., San Francisco, submitted low bid to Treasury Department for painting the plaster surfaces

in the U. S. Marine Hospital at Seattle, Washington. Following bids received:

D. Zelinsky & Sons, S. F.....	\$23,885
Adams Painting Co., Chicago....	24,000
James K. Boyd, Seattle.....	24,500
Thayer & Thayer, Seattle.....	25,321
Nelse Mortensen & Co., Seattle	27,090
Theriant Contracting Co., Philadelphia, Pa.	28,930
Chas. G. Swanson, Seattle.....	31,763
Anderson & Nelson, Seattle....	34,723
Erickson Painting & Decorating Co., Seattle	35,373
Goldfench Bros., Everett, Wash	49,648
West Coast Painters Co., Seattle, Wash.	51,819

REDLANDS, San Bernardino Co., Calif.—Treasury Department approved the oil and gas burner contract awarded to Ray Oil Burner Company in connection with the U. S. Post Office at Redlands. North-Moller Company, Jackson, Michigan, general contractors.

CANAL ZONE—Public Works Administration allotted funds to the Navy Department in the amount of \$40,000 for complete extension of aircraft overhaul shop at Coco Solo, Canal Zone.

SAN FRANCISCO—Public Works Administration has allotted funds to the Navy Department for construction as follows:

San Francisco—Garage shop and boathouse, \$12,000.

Cape Vincentes, Radio Traffic Station, \$14,170.

Point Bonita, Recondition Launchway, \$6900.

MARE ISLAND, Cal.—Until Oct. 3, 11 A. M., bids will be received by Public Works Officer, U. S. Navy Yard, Mare Island, for magnesite flooring and base in portions of Building No. 74 and filling house at Mare Island. Specification No. 7442. Estimated cost \$1500. Plans and specifications available from above office upon deposit of \$5.00.

WASHINGTON, D. C.—Walter C. Warren & Co., Chicago, Ill., at \$315 awarded contract by Treasury Department for furnishing and installing interior lighting fixtures in the U. S. Post Office at Yuma, Arizona.

PEARL HARBOR, T. H. — Public Works Administration allotted funds to the Navy Department in the amount of \$3,495,000 for construction and repair work at the Naval Station, Pearl Harbor, T. H., as follows:

Improvement of waterfront.....	\$1,690,990
Completion of repair basin	1,596,990
Fire protection	9,000
Improvement of industrial plant to complete.....	40,000
Improvement of storm drainage	45,000
Improvement of fuel oil system	230,000

OAKLAND, Cal.—Treasury Department rejected all bids for linoleum for the Oakland Post Office. On previous bid opening lowest bid was submitted by Venor Company, Oakland, at \$3860. New bids may be asked at a later date.

Bids Rejected—To Revise Plans.

FEDERAL Bldg. Total Cost, \$3,500,000

SAN FRANCISCO. Civic Center.

Six-story and basement reinforced concrete Federal Office Building, granite exterior, terra cotta court lining, promenade, terrazzo and tile flooring, mastic tile floors in offices, steam heating, 7 elevators, etc.

Owner—United States Government.

Architect — Arthur Brown Jr., 251 Kearny St., San Francisco.

Mechanical Engineer—Leland & Haley 58 Sutter St., San Francisco.

Structural Engineer—C. H. Snyder, 251 Kearny St., San Francisco.

N. P. Severin Co., 222 West Adams St., Chicago, at \$2,548,000 submitted the lowest bid. The appropriation will be cut about \$350,000.

WASHINGTON, D. C.—Following is list of West Coast and Pacific Coast projects released by the Navy Department:

Spec. No.		
7350	Water mains, Puget Sound	\$ 35,000
7360	Shops, Pearl Harbor.....	300,000
7366	Wharf, Pearl Harbor.....	275,000
7417	Gas plant, Puget Sound	50,000
7413	Repair basin, Pearl Harbor	3,000,000
7419	Cranes, Pearl Harbor	300,000
7437	Extension of Seaplane Beach, Pearl Harbor	40,000
7438	Improvements to hoiler plant, Pearl Harbor.....	44,000
7333	Machine and electric shop Puget Sound.....	1,350,000
	(Bids open at Puget Sound Oct. 9.)	
7354	Mooring facilities, Pearl Harbor	200,000
7382	Reroof barracks, Mare Island	10,000
7384	Repair barracks, San Diego	5,000
7386	Reroof radio building, Mare Island	1,200
7387	Repair road, Pt. St. George, Calif.	2,500
7388	Painting buildings, Pt. St. George, Calif.	1,200
7389	Road, South San Francisco	4,500
7390	Repairs, South San Francisco, Calif.	1,450
7391	Paint towers, Chollas Heights, Calif.	9,000
7415	Heating plant and chimney, San Diego, Calif....	65,000
7420	Paint radio towers, Darien, C. Z.	8,000
7422	Boilers and equipment, San Diego	60,000
7423	Pipe tunnel and piping, San Diego	35,000
7424-25	Improvement of water system distributing system and service lines, San Diego	15,000
7426	Assembly shop, San Diego	175,000
7427	Extension of building, San Diego	55,000
7431	Drydock crane, Mare Island	125,000
7435	Improving landing field, San Diego	40,000
7433	Extension of dispensary, San Diego	10,000

17— THEATRES

COMPTON, Los Angeles Co., Cal.—C. H. Russell and associates, 1340 S. Berendo St., Los Angeles, have purchased property at the southeast corner of Compton Blvd. and Alameda St., Compton, where they propose erecting a motion picture theater. Gore Brothers have taken a ten-year lease on the theater, with the stipulation that work on the structure shall be started on or before November 1. In addition to the auditorium, which will provide 700 seats, there will be two store rooms. An existing building on the site will be used as far as practical in the new construction. Estimated cost of the improvements is \$40,000 and the equipment \$15,000. Architect Clifford A. Balch, 1914 S. Vermont Ave., Los Angeles, is preparing preliminary plans for the building.

18— WHARVES & DOCKS

WASHINGTON, D. C.—All bids were rejected by the Bureau of Yards and Docks for the construction of a pier and two quays of reinforced concrete construction at Pearl Harbor, T. H. Specification No. 7224. Complete bids published in issue of May 8, 1933.

SAN FRANCISCO—Price Building Specialties Co., 683 Howard St., at \$181 submitted low bid to Purchasing Department, State Harbor Board, for hollow metal entrance for Pier No. 35. Following bids received:
Price Building Specialties Co.....\$181
Forderer Cornice Works..... 193
Soule Steel Co..... 263
Bids held under advisement.

WASHINGTON, D. C.—Until Nov. 15, 11 A. M., bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., for pier and gauge of reinforced concrete construction supported on concrete cylinders on wood and concrete piles and includes dredging, concrete and steel sheet pile bulkheads, timber fender system, trackwork, piping systems, electrical works and fittings at the Navy Yard, Pearl Harbor, T. H. Specification No. 7418. Estimated cost \$2,850,000. Plans and specifications available from above office and from Commandant, Navy Yard, Pearl Harbor, T. H. and from Commandant, Twelfth Naval District, 100 Harrison St., San Francisco, upon deposit of \$50.

Plans Being Prepared.

PIER Cost, \$700,000
SAN FRANCISCO, Calif. Pier No. 19. Reinforced concrete pier to replace present structure.
Owner—State of California (Harbor Board), Ferry Bldg.
Engineer—Frank G. White, Ferry Bldg.

Plans Being Prepared.

PIER Cost, \$700,000
SAN FRANCISCO, Calif. Pier No. 5. Reinforced concrete pier to replace present structure.
Owner—State of California (Harbor Board), Ferry Bldg.
Engineer—Frank G. White, Ferry Bldg.

Plans To Be Prepared.

PIER Cost, \$700,000
SAN FRANCISCO, Calif. Pier No. 17. Reinforced concrete pier to replace present structure.
Owner—State of California (Harbor Board), Ferry Bldg.
Engineer—Frank G. White, Ferry Bldg.

Plans To Be Prepared.

PIER Cost, \$700,000
SAN FRANCISCO, Calif. Pier 11. Reinforced concrete pier to replace present structure.
Owner—State of California (Harbor Board), Ferry Bldg.
Engineer—Frank G. White, Ferry Bldg.

Plans To Be Prepared.

DOCK, ETC. Cost, \$293,490
ALAMEDA, Alameda Co., Calif. Government Island. Reinforced concrete and steel dock and retaining wall.
Owner—United States Government.
Plans by Coast Guard Dept., Washington, D. C.
The amount of \$293,490 has been allocated for the construction.

SAN FRANCISCO—Until September 21, 12 Noon, bids will be received by B. F. Lamb, Secretary, Park Commissioners, Park Lodge, Golden Gate

Park, for constructing concrete parapet walls, concrete curbs and concrete seats on recreation pier, Aquatic Park, at Foot of Van Ness Ave., San Francisco. Estimated quantities involve:

- (1) 1371 lin. ft. gal. iron water pipe, 3 inch;
- (2) 14 1-in. gate valves, 7 connections;
- (3) 3 3-inch service cocks;
- (4) 1 3-inch plug;
- (5) 4 drinking fountains;
- (6) 1358 lin. ft. 2½-in. G.I.P. electric power conduit;
- (7) 1358 lin. ft. 1½-in. G.I.P. telephone conduit;
- (8) 2923 lin. ft. 1½-in. G.I.P. electric conduit;
- (9) 5 electric power boxes;
- (10) 336 12-in. x 12-in. concrete posts;
- (11) 26 16-in.x16-in. concrete posts (lamp posts);
- (12) 24 concrete seats;
- (13) 1369 lin. ft. concrete curb with water pipe installed;
- (14) 1469 lin. ft. concrete curb without pipe;
- (15) 2890 lin. ft. concrete parapet wall inclusive of posts; ,
- (16) 252 lin. ft. concrete parapet wall exclusive of posts.

8— CLUB BUILDINGS

WASHINGTON, D. C. — All bids were rejected by the Bureau of Yards and Docks for Facilities Building at the Navy Yard, Pearl Harbor, T. H. Specification No. 7074. Complete bids published May 8, 1933.

9— HOSPITALS

September 11, 1933.

Preparing Preliminary Plans.
SANITARIUM Cost, \$—
WHITTIER, Los Angeles Co., Cal.
 One-story frame and stucco sanitarium (100x160), tile and composition roof, cement and wood floors, wood sash, etc. Doctor's residence with living quarters and offices, etc.
 Owner—Name withheld.
 Engineer—W. E. Chadwick, Union League Building, Los Angeles.

Contracts Awarded.
HOSPITAL Cost, \$500,000
MEDICAL LAKE, Washington.
 Class A Hospital.
 Owner—State of Washington.
 Architect—George M. Rasque, Spokane, Wash.
Reinf. Steel—Builders' Supply Co., Spokane, Wash.
Structural Steel—Union Iron Works, Spokane.
Plumbing—James Smythe Plumbing Company.
Heating Equip.—Arnold Evans Co.
Electric—Maxwell & Franks.

MADERA, Calif. — General Electric X-ray Corporation has been awarded a contract by the Madera County supervisors, at \$1615, for furnishing and installing one new portable X-ray unit in the Madera County Hospital.

10— HOTELS

BOULDER CITY, Nev. — Paul S. Webb associates, Boulder City, have started work on the erection of a hotel building on Cardenas Plaza, Boulder City, for themselves. It will be a stone-tile structure, the first unit to contain 33 rooms, each with private bath. Thirty-three more rooms will be added upon completion of the first unit. Estimated cost of the building, including furnishings and heating and cooling systems, is \$50,000.

Being Done By Day's Work.
REMODEL HOTEL Cost, \$—
SAUSALITO, Marin Co., Calif.

Alterations to interior and exterior of hotel and restaurant.

Owner—Joseph Emmett Collin and Carl Edenfeldt.
 Architect—Not Given.
Painting—Chris McMenomy, 519 Sausalito, Sausalito, Calif.

11—ICE AND COLD STORAGE PLANTS

LODI, San Joaquin Co., Cal.—City council will seek \$1,000,000 loan from federal funds through the NRA for construction of municipal power plant on the Mokelumne River.

12— POWER PLANTS

to furnish 80 3 kva-2400-120/240 volt.

SAN MATEO, Cal. — City council plans municipal electric distribution system by purchase of Pacific Gas & Electric Co. system.

ANAHEIM, Orange Co., Cal.—City council has applied for federal public works funds to aid in financing a new electrical distribution system in accordance with a survey prepared by Consulting Engineer J. E. Brown. The proposed lines will cost \$53,000, of which \$15,543.25 has been asked as an outright grant, the balance to be furnished from the general funds.

13— PUBLIC BUILDINGS FIRE HOUSES A JAILS

AUBURN, Placer Co., Cal.—No bids were received by Placer County Supervisors for repairs and replacement of certain portions of the Court House heating plant. Whether new bids will be asked or not is not determined at this time.

Plans Being Prepared.
CITY HALL Cost, \$50,000
SANTA MARIA, Santa Barbara Co.
 One-story reinforced concrete city hall (tile roof).
 Owner—City of Santa Maria.
 Architect—Louis N. Crawford, Jones Bldg., Santa Maria.
 Funds will be requested from the Federal Government.

YERINGTON, Nev.—Lyon County will request a loan of \$30,000 from the Federal Public Works Administration to finance construction of additions and repairs to the Courthouse at Yerington. Robert Allen, Public Works engineer for Nevada.

Plans Being Prepared.
AUDITORIUM Cost, \$—
SAN JOSE, Santa Clara Co., Cal.
 Market and San Carlos Sts.
 Two-story civic auditorium (seating capacity of 3800) smaller auditorium to seat 1000, stage, etc. (type of construction of determined).
 Owner—City of San José (C. B. Goodwin, City Manager).
 Architect—Binder & Curtis, 35 W. San Carlos St., San Jose.

BUILDING PROGRAM APPROVED
SACRAMENTO, Sacramento Co., Calif.—State of California has approved an expenditure of \$1,215,000 for a building program for the State Fair Grounds, Sacramento. Buildings included in the program are as follows:
 Horse show coliseum\$450,000
 Host building 200,000
 Educational building 170,000
 4-H Club building 170,000
 Future farmers' building 225,000

Plans Being Figured—Bids Close Oct. 2, 2 P. M.
ADDITION Cost, \$90,000
VISALIA, Tulare Co., Cal.
 Threr and one-half-story reinforced concrete addition to courthouse

(central heating plant) approx. 20,000 sq. ft. of floor space.
 Owner—County of Tulare.
 Architect — Ernest J. Kump, Rowell Bldg., Fresno.
Structural Engineer—F. W. Kellberg, 320 Market St., San Francisco.

Plans may be obtained from the architect's office or Clerk of the County, on deposit og \$25. Bidders will be requested to submit a financial statement.

Contract Awarded.
REPAIRS Cost, \$3500
SANTA CRUZ, Santa Cruz Co., Cal.
 Repairs to Court House Annex.
 Owner—County of Santa Cruz.
 Architect—Not Given.
 Contractor—C. M. Doane, 176 Garfield St., Santa Cruz.

SAN FRANCISCO—B. J. Doherty, 1725 Church St., at \$825 submitted low bid to Department of Public Works for electrical work for the Van Ness Avenue Police Station. Following bids received:
 B. J. Doherty.....\$ 825
 Chas. A. Langlais..... 867
 Aptos Elec. Constr. Co..... 883
 H. S. Tittle Co..... 897
 Paragon Electric Co..... 940
 Apev Electric Co..... 962
 Frank J. Lynn & Heffernan..... 983
 Central Electric Co..... 995
 Scott-Buttner Electric Co..... 1037
 D. H. Armstrong 1140
 Bids held under advisement.

14— RESIDENCES

Plans Completed.
ADDITION Cost, \$1500
SAN FRANCISCO, NE Lombard and Larkin Sts.
 Addition to residence.
 Owner—G. B. Pasqualettl, 2330 Larkin St., San Francisco.
 Architect—E. M. Sharpe, 525 Market St., San Francisco.
 Engineer—J. Rosenwald, 525 Market St., San Francisco.

To Take General Figures In One Week
RESIDENCE Cost, \$10,000
SAN FRANCISCO, Nineteenth Ave. 100 S Anza St.
 Two-story and basement frame and stucco residence (11 rooms and 2 baths), tile roof, tiled baths and kitchen, hardwood floors and trim, hot water heating system or warm air fired boiler, etc.
 Owner — Minnie Cope, 1957 McAllister St., San Francisco.
 Architect—J. Lloyd Corrich, 214 9th Ave., San Francisco.
 Heating bids are being received by the owner.

As previously reported, plumbing awarded to Anderson & Rowe, 45 Belcher St.

Contract Awarded.
ALTERATIONS Cost, \$—
ALAMEDA, Alameda Co., Cal. No. 463 Santa Clara Avenue.
 Alterations to frame residence.
 Owner—George W. Geantet, Ark, Bay Farm Island Bridge, Alameda.
 Architect—Not Given.
 Contractor—Marino Ghisili, 1312 Fountain St., Alameda.

Contract Awarded.
ALTERATIONS Cost, \$—
ALAMEDA, Alameda Co., Cal. No. 842 Cedar Street.
 Alterations to frame residence.
 Owner—W. Mark, 842 Cedar St., Alameda.
 Architect—Not Given.
 Contractor — L. Strong, 429 Haight Ave., Alameda.

To Be Done By Day's Work.
RESIDENCES Cost, \$4000 ea.
SAN FRANCISCO, Cal. E. 47th Ave. 157 S. Geary St.

Two one-story and basement frame and stucco residences.
Owner and Builder—Anza Home Building Company, 47th Ave and Geary St.
Plans by Owner.

To Be Done By Day's Work.
RESIDENCE Cost, \$5000
SAN FRANCISCO, Cal. N.E. Market and Morgan Alley.
Two-story and basement frame and stucco residence.
Owner and Builder—T. R. Sharman, 3700 Broderick St.
Architect—Not Given.

Contract Awarded.
RESIDENCE Cost, \$8000
SAN FRANCISCO, Forest Hill.
Two-story and basement frame, stucco and brick veneer residence (7 rooms and 3 baths); shingle tile roof, hot air heating system, tiled baths, hardwood floors, etc.
Owner—Mr. Cannon.
Architect—Masten & Hurd, 233 Post St., San Francisco.
Contractor—Henry Papenhausen, 595 Victoria St., San Francisco.

Sub-Contracts Awarded.
RESIDENCE Cost, \$—
OAKLAND, Alameda Co., Cal. Dav-enport Ave. and Kaphan St.
One-story and basement frame and stucco residence (6 rooms).
Owner—Mrs. Maria, Camtador.
Architect—Not Given.
Contractor—H. T. Caskey, 4215 Car-son St., Oakland.

Concrete—T. A. Ryan, 5215 Fleming Ave., Oakland.

Plumbing—J. A. McKeever, 3920 Hop-kins St., Oakland.

Electric—E. L. Reed, 2514 Seminary Ave., Oakland.

Lumber and Millwork—Melrose Lum-ber & Supply Co., 1201 46th Ave., Oakland.

Plastering—J. Schmidt & Reed, East Oakland.

Heating—Merritt & McNally, 3643 Hopkins St., Oakland.

Painting—R. E. O'Brien, 2151 Buena Vista Ave., Alameda.

Tile—Moir Tile Co., 3724 Brookdale Ave., Oakland.

Brick—E. L. Morgan, 2205 84th Ave., Oakland.

Flooring—Al Marshall Hardwood Floor Co., 1611 Pearl St., Alameda

Sub-Contracts Awarded.
RESIDENCE Cost, \$5,000
BERKELEY, Alameda Co., Cal. 555 Santa Rosa Ave.
Two-story frame and stucco residence (6 rooms).

Owner and Builder—Milton S. Bonds, 30 Halkin Lane, Berkeley.
Architect—Not Given.

Excavating—J. Henry Harris, 2208 Roosevelt Ave., Berkeley.

Plumbing—Suendermann Plumbing Co., 921 University Ave., Berkeley.

Lumber, millwork—Hogan Lumber Co., 2nd and Alice, Oakland.

Sub-Contracts Awarded.
RESIDENCE Cost, \$—
HILLSBOROUGH, San Mateo Co.
Two-story and basement residence (10 rooms and 3 baths) shakes and plaster exterior, shake roof, gas heating system, hardwood floors, etc.

Owner—Sydney Leibes.
Architect—William I. Garren, 233 Post St., San Francisco.

Contractor—Moore & Roberts, 693 Mission St., San Francisco.

Excavation—John Cusse, Palo Alto.
Concrete—A. Dini & Co., 3275 San Bruno Ave., San Francisco.

Lumber—Smith Lumber Co., Fourth and Channel Sts., San Francisco.

Mill Work—Brannan St. Planing Mill, 569 Brannan St., San Francisco.

Bids are being received on the plastering.

Contract Awarded
RESIDENCE Cost, \$—
BERKELEY, Alameda Co., Cal. Tam-pais Road.

Two-story and basement frame, brick veneer and stucco residence (12 rooms and 3 baths) terra cotta tile roof, gas hot air heating system, colored tile baths, steel sash hardwood floors, etc.

Owner—Frederick Bener, 220 Mont-gomery St., San Francisco.

Architect—William Wilson Wurster, 260 California St., San Francisco.

Contractor—Walter Sorensen, 2940 Piedmont Ave., Berkeley.

Brick Contract Awarded.
RESIDENCE Cost, \$6500
WOODMONT, Contra Costa Co., Cal. One-story and basement frame and stucco residence (6 rooms) shingle roof, gas heating system, metal sash, hardwood floors, etc.

Owner—John Ross.

Architect—E. L. Snyder, 2101 Shat-tuck Ave., Berkeley.

Contractor—J. M. Walker, 1709 Grove St., Berkeley.

Brick Work—P. C. Clausen, 170 Ard-more St., Berkeley.

Bids are wanted on green crushed quartz about pea size, suitable for spreading on hot tar roof.

Contract Awarded.
RESIDENCE Cost, \$10,000
OAKLAND, Alameda Co., Cal. No. 1850 Leimert Blvd.

Two-story and basement frame and stucco residence (8 rooms).

Owner—Dr. H. M. Pier.

Architect—Not Given.
Contractor—Henry T. McKallor, 2231 E-39th St., Oakland.

Additional Sub-Contracts Awarded.
RESIDENCE Cost, \$6500
WOODMONT, Contra Costa Co., Cal. One-story and basement frame and stucco residence (six rooms) shingle roof, gas heating system, metal sash, hardwood floors, etc.

Owner—T. K. Whipple, 904 Regal Rd., Berkeley.

Architect—E. L. Snyder, 2101 Shat-tuck Ave., Berkeley.

Contractor—J. M. Walker, 1709 Grove St., Berkeley.

Plumbing—Suenderman Plumbing Co., 921 University Ave., Berkeley.

Sheet Metal—M. C. Henry, 1183 53rd St., Oakland.

Other awards reported Aug. 28, 1933

Contract Awarded.
RESIDENCE Cost, \$—
OAKLAND, Alameda Co., Cal. No. 2938 Partridge Ave.

One-story and basement frame and stucco residence (5 rooms).

Owner—G. W. Linton, 4622 E-14th St., Oakland.

Architect—Not Given.
Contractor—C. Tollefsen, 1100 Third Ave., Oakland.

SAN FRANCISCO, Calif.—Moore & Roberts, 693 Mission St., at \$1089, awarded contract by Veterans' Welfare Board of the State of California for concrete underpinning of dwelling at 53 Seward St. Plans prepared by Architect Thomas E. Pring, 525 Market St.

Plans Being Figured.
RESIDENCE Cost, \$8000
HEALDSBURG, Sonoma Co., Calif.

One and one-half-story frame and stucco residence (7 rooms and 2 baths), shingle tile roofing, wood furnace, wood sash, hardwood floor, pine trim, etc.

Owner—Raford Jones.

Architect—William Herbert, Rosen-berg Bldg., Santa Rosa.

Following will submit bids:
Winter & Heitz, Healdsburg.
Clyde Hansen, Santa Rosa.
Louis Halvorsen, Santa Rosa.
T. Alstrom, Santa Rosa.
About ten days will be allowed for fig-uring the plans.

Contract Awarded.
RESIDENCE Cost, \$7000
ORINDA, Contra Costa Co., Calif.

Two-story frame and stucco residence (7 rooms, 2 baths), shingle roof, oil burner heating system, hardwood floors, colored tile baths, etc.

Owner—Dr. A. R. Rienke.

Plans by William Rich, Orinda.
Contractor—A. L. Rector, 5410 Ama-dor St., Richmond.

Low Bidder.
RESIDENCE Cost, \$—
ROSS, Marin Co., Cal. Lagunitas Avenue.

Two-story and basement frame and stucco residence (9 rooms and 3 baths), shakes roof, probably gas heating system, tiled baths, colored fixtures, hardwood floors, etc.

Owner—Japue Van Meurs.

Architect—H. H. Winner, Woods-orth Ave., Ross.

Low Bidder—E. E. Vaughn, 269 Cres-cent Rd., San Anselmo, at \$12,443

Bids held under advisement.

To Be Done By Day's Work.
RESIDENCE Cost, \$8000
OAKLAND, Alameda Co., Calif. 378 Longridge Road.

Two-story and basement frame and stucco residence (8 rooms).

Owner—C. E. Bardwell, Jr., 4217 Bal-four Ave., Oakland.

Architect—Not Given.

To Be Done By Day's Work.
RESIDENCE Cost, 5000
OAKLAND, Alameda Co., Calif. 3763 Elston Ave.

One-story and basement frame and stucco residence (6 rooms).

Owner and Builder—J. W. Scammell, 424 Scenic Ave., Piedmont.

Plans by Owner.

Contract Awarded.
RESIDENCE \$2500
OAKLAND, Alameda Co., Cal. No. 594 Kenmore Avenue.

One-story frame and stucco dwelling (4 room.)

Owner—Camilla Gibbs, 3801 Lakeshore Ave., Oakland.

Architect—Elaine & Olsen, 1801 Frank-lin St., Oakland.

Contractor—C. C. Rosenberry, 1401 Mountain Blvd., Oakland.

Construction Under Way.
RESIDENCE Cost, \$5000
WALNUT CREEK, Contra Costa Co.

One-story and basement frame and stucco residence (6 rooms); shake roof, gas heating system, hard-wood floors, etc.

Owner—N. Troyer, Seattle, Wash.

Architect—Ray F. Keefer, 770 Wesley St., Oakland.

Contractor—Wiley T. Vaughn, 501 Weldon St., Oakland.

Plans Being Prepared.
RESIDENCE Cost, \$12,000
SAN RAMON HEIGHTS, Walnut Creek, Contra Costa Co., Cal.

Two-story and basement frame Cali-fornia Colonial style residence (10 rooms and 3 baths), 2-car garage; terra cotta roof, brick, tile and wood exterior, steel sash, oak plank floor, oil hot air heating sys-tem, electric refrigeration, etc.

Owner—R. W. Lowe.

Architect—Edwin L. Snyder, 2101 Ad-dison St., Berkeley.

Plans will be ready for general bids in about one month.

Plans Being Prepared.
RESIDENCE Cost, \$7500
WALNUT CREEK, Contra Costa Co.
 Two-story frame and brick Spanish style residence (6 rooms and 2 baths) 2-car garage; steel sash, brick exterior, tile roof, etc.
 Owner—Earl Barnett.
 Architect—Edwin L. Snyder, 2101 Addison St., Berkeley.
 Plans will be ready for general bids in about one month.

Contract Awarded.
RESIDENCE Cost, \$—
SAN FRANCISCO, St. Francis Wood.
 One and one-half-story frame and stucco residence (8 rooms and 3 baths); slate roof, gas heating system, tiled baths, hardwood floors, etc.
 Owner—Dr. J. L. Carr.
 Architect—Masten & Hurd, 233 Post St., San Francisco.
 Contractor—Frank Nelson, 2 Edgell Way, San Francisco.

Plans Being Prepared.
RESIDENCE Cost, \$10,000
SAN RAMON HEIGHTS, near Walnut Creek, Contra Costa Co., Cal.
 Two-story and basement frame and stucco English style residence (6 rooms and 2 baths), 2-car garage, steel sash, tile bathrooms, hot air heating, shingle roof, electric refrigeration.
 Owner—C. W. Pendleton.
 Architect—Edwin L. Snyder, 2101 Addison St., Berkeley.
 Plans will be ready for general bids in about one month.

Contract Awarded.
RESIDENCE Cost, \$—
OAKLAND, Alameda Co., Cal. Piedmont Pines, Scarborough Drive near Chelton Drive.
 Two-story frame and stucco residence (5 rooms).
 Owner—Alfred Kennedy, 153 Ricardo Drive, Oakland.
 Architect—Miller & Warnecke, Financial Center Bldg., Oakland.
 Contractor—Fox Bros., 1478 University Ave., Berkeley.

15—SCHOOLS

LAGUNA BEACH, Los Angeles Co., Cal.—Laguna Beach voted Sept. 5 in favor of creating a new high school district. As a result of the vote a new high school will be built.

SACRAMENTO, Cal.—Sacramento Board of Education awarded a contract to Fred E. Turner Co., 557 Market St., San Francisco, for 443 chairs at \$1306.85 and a contract to the Heywood Wakefield Co., 180 New Montgomery St., San Francisco, at \$166.50 for 49 chairs. Furniture is for the new Junior High Schools.

Planned.
CAFETERIA Cost, \$10,000
MODESTO, Stanislaus Co., Cal. Junior College Campus.
 Cafeteria building.
 Owner—Modesto Junior College Dist. Private Plans.
 Preliminary sketches were prepared in the office of Architect G. N. Hilburn of Modesto. Arrangements are now under way to finance construction.

Plans Completed.
SCHOOL Cost, \$120,000
BAKERSFIELD, Kern Co., Cal. F St. bet. 31st and California.
 High School Building (21 classrooms) Class A steel frame and reinforced concrete construction.
 Owner—Kern County Union High School District.
 Architect—Chas. H. Biggar, Habersfelde Bldg., Bakersfield.

SCHOOL Cost, \$120,000
BAKERSFIELD, Kern Co., Cal. F St. bet. 31st and California Sts.
 High School Building (21 classrooms) Class A steel frame and reinforced concrete construction.
 Owner—Kern County Union High School District.
 Architect—Charles H. Biggar, Habersfelde Bldg., Bakersfield.
 Final plans have been forwarded to the State Division of Architecture, Sacramento, for approval. It will be necessary to vote bonds to finance the project.

LONG BEACH, Cal.—Architect H. R. Davis, 430 Ocean Blvd., Long Beach, will present completed plans to the Long Beach Board of Education soon for repairing the auditorium building at the Polytechnical High School. Structural steel and reinforced concrete work, etc. Cost, \$75,000 to \$100,000.

LONG BEACH, Los Angeles Co., Cal.—Architect W. Horace Austin, 532 Chestnut Ave., Long Beach, is completing revised plans for repairing the shop and school for the Long Beach Board of Education. Reinforced concrete, brick work, structural steel, plastering, painting, roofing. The two buildings will cost approximately \$50,000.

Contract Awarded.
ADDITION Cost, \$2400
MORGAN HILL, Santa Clara Co., Cal. Frame and stucco addition to Morgan Hill grammar school (24x36) add one classroom, revise toilet rooms.
 Owner—Morgan Hill Grammar School District (Mr. Dickerson, president).
 Architect—W. H. Weeks, 525 Market St., San Francisco.
 Contractor—J. M. Akin, Morgan Hill. Other bidders were: C. A. Hatch, \$3182; Carl Erickson, \$3215.

Contract Awarded.
ADDITION Cost, \$3041
SAN FRANCISCO, Cal. 24th and Alabama Sts.
 Frame addition to school (2 classrooms).
 Owner—St. Peter's Parish.
 Architect—Martin Rist, Phelan Building, San Francisco.
 Contractor—Moore & Roberts, 461 Market St., San Francisco.
 Following bids received:
 Moore & Roberts\$3,041
 H. H. Isaac 3,238
 T. J. Broderick 3,325
 Reilly & Grace 3,375

16—BANKS, STORES AND OFFICES

Contract Awarded.
ALTER RESIDENCE Cost, \$6000
SAN FRANCISCO, No. 611 Camino Del Mar (Sea Cliff).
 Alterations and additions to frame and stucco residence.
 Owner—J. H. Threlkeld, Matson Bldg., San Francisco.
 Architect—Bertz, Winter & Maury, 210 Post St., San Francisco.
 Contractor—Jacks & Irvine, 74 New Montgomery St., San Francisco.

Plans Being Figured — Bids Close Sept. 22, 12 Noon.
STORE Cost, \$30,000
SAN MATEO, San Mateo Co., Cal.
 Three-story reinforced concrete store building (50x100 ft.), slate and composition roof, warm air heating system, oak floors, plate glass, etc.
 Owner—Gladys D. Layton.
 Architect—Gardner Dayley, 210 Post St., San Francisco.
 Following will submit bids:

A. H. Vogt Co., 250 Eleventh St., San Francisco.
 G. W. Williams Co., 315 Primrose St., Burlingame.
 Young & Horstmeier, 461 Market St., San Francisco.
 Jacks & Irvine, 74 New Montgomery St., San Francisco.
 A. F. Mattock, 210 Clara St., San Francisco.
 Clinton Stephenson Construction Co., 550 Montgomery St., San Francisco.
 Heating system will be handled by the owner.

PASADENA, Los Angeles Co., Cal.—John Simpson, 1044 S. Los Robles Ave., Pasadena, has been awarded a contract at approximately \$20,000 for the construction of a one-story and mezzanine store and shop building at the corner of Colorado Ave. and Madison St., Pasadena, for the First Trust and Savings Bank, trustee. Plans were prepared by Architects Bennett & Haskell, 311 First Trust Bldg., Pasadena. Wood roof trusses, composition roof, steel sash, plaster facing, marble base, metal store fronts and skylights, etc.

Sub-Contracts Awarded.
STORE Cost, \$80,000
REDWOOD CITY, San Mateo Co., Cal. Broadway and Hamilton Ave.
 One-story, mezzanine floor and basement steel and brick or reinforced concrete store (60x150 ft.)
 Owner—David J. Davis, 500 Chelmsford Road, Hillsborough.
 Plans by Engineering Dept. of Lessee, Supervising Architect—G. Albert Lansburgh, 140 Montgomery St., San Francisco.

Lessee—Montgomery Ward & Co., Chicago, Illinois.
 Contractor—Cahill Bros., 206 Sansome St., San Francisco.
Excavation—W. O. Tyson, Redwood City.
Reinforcing Steel—Soule Steel Co., 1750 Army St., San Francisco.
Lumber—Merner Lumber Co., Palo Alto.
Brick Work—Drake & Collins.
 As previously reported, electric awarded to Alta Electric Co., 467 O'Farrell St., S. F.; ventilating to Ace Sheet Metal Works, 444 Clementina St., S. F.; plumbing and heating to F. W. Snook & Co., 596 Clay St., San Francisco.

Plans Being Prepared.
REMODEL STORE Cost, \$—
SALINAS, Monterey Co., Calif. Main and Alisal Streets.
 Remodel store building (new fixtures and equipment, etc.)
 Owner—Not Given.
 Plans by Engineering Dept. of Lessee. Lessee—Montgomery Ward & Co., Chicago, Ill.
 Bids will be asked about October 15.

Plans Being Figured.
ALTERATIONS Cost, \$7500
OAKLAND, Alameda Co., Cal. Telegraph Ave. near Bancroft.
 Alterations to interior of store building (new store fixtures, flooring, decorating, etc.)
 Owner—Anna B. Weeks.
 Architect—A. R. Williams, Humboldt Bank Bldg., San Francisco.
 Lessee—Roos Brothers.

Contract Awarded.
RESIDENCE Cost, \$6000
SAN JOSE, Santa Clara Co., Cal. No. 1450 Calaveras Avenue.
 Two-story frame and stucco residence (8 rooms); slate roof, hardwood floors, tiled bath, etc.
 Owner—S. F. Holstein, San Jose.
 Architect—Not Given.
 Contractor—George Kocher, Notre Dame Ave. and Carlisle St., San Jose.

Contract Awarded.

ADDITIONS Cost, \$—
WOODLAND, Yolo Co., Cal.
 Addition and alterations to store bldg.
 Owner—J. E. Garrette, Woodland.
 Architect—Not Given.
 Lessee—J. C. Penny Co.
 Contractor—E. L. Younger, Woodland.

September 14, 1933

Sub-Contracts Awarded.

STORE Cost, \$100,000
BERKELEY, Alameda Co., Cal. No. 2030 Shattuck Avenue.

Two-story brick and concrete store (brick and terra cotta facing composition roof, structural steel, cement, hardwood and terrazzo floors, plate glass, metal fire doors ornamental iron, gas heating, etc.)
 Owner—S. H. Kress Co., 114 5th Ave., New York City.

Plans by Engineering Dept. of Owner.
 Contractor—Dinwiddie Construction Co., Crocker Bldg., San Francisco.
Painting—D. Zelinsky, 165 Grove St., San Francisco.

Glass—W. P. Fuller & Co., 259 Tenth St., Oakland.

Marble Work—Vermont Marble Co., 525 Market St., San Francisco.

Tile Work—Malott & Peterson, 20th and Harrison Sts., San Francisco.

Plumbing, Heating and Ventilating—J. H. Pinkerton, 927 Howard St., San Francisco.

Electrical Work—Spencer Elec. Co., 2059 Webster St., Oakland.

Waterproofing—Aristo Painting Co., 473 Bryant St., San Francisco.

Steel Rolling Doors—O. P. Shelley, Call Bldg., San Francisco.

Wood Floor—Oakland Floor Co.
Incinerator—Kerner Incinerator Co., 450 Clementina St., San Francisco.

Dumb Waiter—M. E. Hammond, 557 Market St., San Francisco.

Metal Windows—Fire Protection Products Co., 1101 16th St., S. F.

Masonry—Wm. Rainey & Sons, Inc., 323 Clementina St., San Francisco.

Reinforcing Steel—Gunn, Carle & Co., 1185 Mission St., San Francisco.

Roofing—Malott & Peterson, 20th and Harrison Sts., San Francisco.

Mill Work—Oakland Planing Mill Co., Second and Washington Sts., Oakland.

As previously reported, plastering awarded to Spann Bros., 2145 Ward St., Berkeley.

Contract Awarded.

RESIDENCE Cost, \$7800
SAN MATEO PARK, San Mateo Co.

Two-story and basement frame and stucco residence (7 rooms and 2 baths) Spanish tile roof, gas heating system, hardwood floors, hardwood and pine trim, tiled baths.

Owner—Mrs. Ascherman.
 Architect—N. W. Sexton, deYoung Bldg., San Francisco.

Contractor—Lengfeld & Olund, 220 Third Ave., San Mateo.

Sub-Contracts Awarded.

ALTERATIONS Cost, \$—
SAN MATEO PARK, San Mateo Co.

Alterations to frame residence (enlarge living room, painting, etc.)
 Owner—B. A. Gayman, 555 Occidental Ave., San Mateo.

Architect—Kent & Hass, 525 Market St., San Francisco.

Contractor—Chas. Stockholm & Sons, Russ Bldg., San Francisco.

Mill Work—Pacific Mfg. Co., Santa Clara.

Steel—Schrader Iron Works, 1247 Harrison St., San Francisco.

Contract Awarded.

RESIDENCE Cost, \$—
PALO ALTO, Santa Clara Co., Cal.

1845 Emerson Street.
 One-story and basement frame and stucco residence (5 rooms).

Owner—Lillian Rounsefell, 1845 Emerson St., Palo Alto.

Architect—Not Given.
 Contractor—C. F. Howard, 611 Roosevelt St., Redwood City.

Contract Awarded.

RESIDENCE Cost, \$6390
HEALDSBURG, Sonoma Co., Cal.

One-story and basement frame and stucco residence (6 rooms).

Owner—Kenneth Fenton, Healdsburg.
 Plans by Mr. Chance, % Masten & Hurd, 233 Post St., San Francisco.

Contractor—Heitz & Winter, 318 Powell St., Healdsburg.

Contract Awarded.

STORE Cost, \$4787
SAN JOSE, Santa Clara Co., Cal. SW

Post and San Pedro Sts.
 One-story brick and frame store building.

Owner—Egisto Ceredi and Rosa Picetti, 169 Gifford Ave., San Jose.

Architect—Not Given.

Contractor—M. Perino, 148 Race St., San Jose.

Kitchen Equipment Contract Awarded
REMODEL CAFE Cost, \$18,000
SAN FRANCISCO. No. 2555 Great Highway.

Remodel cafe (wiring, plumbing, plastering, painting, decorating, etc.)
 Tait's-at-the-Beach.

Owner—Weisshein Bros., 582 Market St., San Francisco.

Architect—S. Heiman, 605 Market St., San Francisco.

Contractor—Theo. Cohn, Russ Bldg., San Francisco.

Kitchen Equipment—Dohrmann Hotel Supply Co., 972 Mission St., San Francisco.

As previously reported, carpets and drapes to D. N. & E. Walter, 562 Mission St.; plumbing to J. Gibbs Sons, 1706 Geary St.; decorating to M. Cohn Premises.

Sub-Contracts Awarded.
MARKET Cost, \$10,500
SACRAMENTO, Sacramento Co., Cal.

Fifth and Y Streets.
 Two one-story Class C concrete and wood frame market buildings (30x300 ft.) and 60x150 ft.) concrete floors, composition roofing, loading platform.

Owner—Wright & Kimbrough Co., 817 J St., Sacramento.

Architect—W. E. Coffman, Forum Bldg., Sacramento.

Contractor—Chas. S. Mabrey, 1001 45th St., Sacramento.

Roofing—Bush Roofing Co., 1912 Kay St., Sacramento.

Concrete—Sacramento Rock & Sand Co., 1803 25th St., Sacramento.

Lumber—Superior Lumber & Fuel Co., 19th and S Sts., Sacramento.

Bids are being taken on plumbing and wiring.

Plans Being Completed.
STORE Cost, \$78,000
EUREKA, Humboldt Co., Cal. S. W.

Fourth and F Sts. (60'x144').
 One-story, mezzanine floor and basement reinforced concrete store building (24,500 square feet of floor space).

Owner—Domingo A. Zanone.
 Plans by Engineering Dept. of Montgomery Ward & Co., Chicago.

Lessee—Montgomery Ward & Co., Chicago.

Bids will be asked shortly.

Bids Opened.
STORE Cost, \$—
SAN JOSE, Santa Clara Co., Cal. Second St., bet. San Antonio and San Carlos Sts.

One-story reinforced concrete store building (29x84 ft.); composition roof, wood trusses, concrete floors and walls, etc.

Owner—E. Gummer.

Architect—Binder & Curtis, 35 W-San Carlos St., San Jose.

Low Bidder—Henry Bridges, 1398 Lincoln St., San Jose.

Following bids received:

Henry Bridges \$5862
 E. Nommensen 6251
 Charles Thomas 6322
 J. Newell 6700
 Carl N. Swensen 6769
 F. Edmans 7264
 Neves & Harp 7483
 Guy Latta 7600
 Edwin Erbenraut 7790

Bids held under advisement.

Planned.
STORE Cost, \$—
BIEBER, Lassen Co., Cal. Jefferson and Greenwood Aves.

New store building (32x80 ft.)
 Owner—John Lyle, Bieber.
 Architect—Not Given.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$5000
OAKLAND, Alameda Co., Cal. No. 1717 Broadway.

Alterations to store.
 Owner—Mary A. Bowles.
 Architect—Edward T. Foulkes, 357 Twelfth St., Oakland.

Contractor—George Swanstrom, 1615 78th Ave., Oakland.

Lumber and Mill Work—California Mill & Lumber Co., 1827 Webster St., Oakland.

Plumbing—Scott Co., 113 10th Street, Oakland.

Electric—T. L. Rosenberg, 411 Webster St., Oakland.

Plastering—C. H. Burnett, 865 32nd St., Oakland.

Glass and Glazing—W. P. Fuller & Co., 259 10th St., Oakland.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$2000
OAKLAND, Alameda Co., Cal. No. 1290 Powell St.

Remodel building (interior work, decorating, etc.)

Owner—Spiralla Corset Company.
 Contractor—George Swanstrom, 1615 78th Ave., Oakland.

Steam Heating Alterations—Scott Co., 133 Tenth St., Oakland.

Flooring—Fred Oellerich, 1825 Woolsey St., Berkeley.

Painting—J. J. Burdon & Son, Richmond.

Work Under Way.
ALTERATIONS Cost, \$—
SAN FRANCISCO, Gore Market, Sutter and Sansome Sts.

Alterations to fourth and fifth floors of office building (partition work, electric, plumbing, painting, etc.)

Owner—Globe Life Insurance Co. (Sam Sadowski, Mgr.), Russ Bldg., San Francisco.

Architect—Not Given.
 Contractor—Fred DuPuy, Russ Bldg., San Francisco.

Painting—American Painting Co., 467 O'Farrell St., San Francisco.

Electric—Frank Goodman, 350 Waller St., San Francisco.

Plans To Be Prepared.
BUILDING Cost, \$30,000
MARYSVILLE, Yuba Co., Cal. Seventh and B Streets.

Highway Department office building.
 Owner—State of California.
 Architect—Not Given.

MANHATTAN BEACH, Los Angeles Co., Calif.—Charles Murdock, 208 Center Street, Manhattan Beach, has leased property at the southeast corner of Center Street and Manhattan Avenue, Manhattan Beach, where he will erect a commercial building. 16

Contract Awarded.
ALTERATIONS Cost, \$25,000
PORTLAND, Oregon. SW Sixth and Washington Sts.
 Alterations and modernization of offices (new marble front, wood trim, acoustical treatment, etc.)
 Owner—Commonwealth Bldg. (Harry Hawkins, President).
 Architect—A. E. Doyle and Associates, Pacific Bldg., Portland.
 Contractor—L. H. Hoffman Co., Portland.

Contract Awarded.
STORE Cost, \$—
OAKLAND, Alameda Co., Cal. Hopkins St. near Brown Ave.
 One-story frame and stucco store building (40x70 ft.) tile and composition roofing, plate glass, cement work, plastering, etc.
 Owner—Mid Valley Corporation.
 Architect—Not Given.
 Contractor—Allen & Allen, 1239 106th Ave., Oakland.

Contract Awarded.
STORE Cont. Price, \$5862
SAN JOSE, Santa Clara Co., Cal. Second St., bet. San Antonio and San Carlos Sts.
 One-story reinforced concrete store building (29x84 ft.); composition roof, wood trusses, concrete floors and walls, etc.
 Owner—E. Gummer.
 Architect—Binder & Curtis, 35 W. San Carlos St., San Jose.
 Contractor—H. A. Bridges, 1398 Lincoln St., San Jose.

Sub-Contracts Awarded.
MARKET Cost, \$14,000
BERKELEY, Alameda Co., Cal. Solano and Colusa Aves.
 One-story and mezzanine floor brick and steel frame market (75x100 ft.); composition roof, etc.
 Owner—Romie & Gage.
 Designing Engr.—H. C. Britt, 366 17th St., Oakland.
 Lessee—Henslee Corporation, 366 17th St., Oakland.
 Contractor—E. Lea Constr. Co., 330 11th St., Oakland.
Brick—Herschel & Reinecke, 830 E-11th St., Oakland.
Plumbing—J. H. Jervas, Berkeley.
Electric Wiring—Kerr & Clifford, 3525 E-14th St., Oakland.
Structural Steel—Judson-Pacific Co., 18th and Campbell Sts., Oakland.
Roofing—Brewer Roofing Co., 2252 Ransom Ave., Oakland.
Painting—Henry Fenerstein, 2251 Hopkins St., Oakland.
Plastering—Geo. C. Garcia, 1656 Ocean View Ave., Berkeley.
Glass and Glazing—W. P. Fuller & Co., 259 10th St., Oakland.
Concrete Floor—Geo. S. McMullin, 747 Victoria Ave., Oakland.

Additional Sub-Contracts Awarded.
ALTERATIONS Cost, \$50,000
SAN FRANCISCO. No. 867-871 Market Street.
 Alterations to four-story and basement store (130,000 sq. ft. floor space).
 Owner—Lincoln Realty Co., Mills Bldg., San Francisco.
 Architect—E. M. Sharp, 525 Market St., San Francisco.
 Engineer—A. P. Fisher, 111 Sutter St., San Francisco.
 Lessee—J. C. Penny Co., 330 W. 34th St., New York City.
 Contractor—J. B. Oswald, Mills Bldg., and 433 California Et., S. F.
Painting—George Ames, 408 Howard Ave., Burlingame.
Ventilating—James A. Nelson, Tenth and Howard Sts., S. F.
 Other awards previously reported.

Plans Being Completed.
STORE Cost, \$50,000
EUREKA, Humboldt Co., Cal. Fourth and F Streets.
 One-story, mezzanine floor and basement reinforced concrete store building (24,500 square feet of floor space).
 Owner—Domingo A. Zanone.
 Plans by Engineering Dept. of Montgomery Ward & Co., Chicago.
 Lessee—Montgomery Ward & Co., Chicago.
 Bids will be asked by R. M. Kearns, % Montgomery Ward Co., 2825 E-14th St., Oakland, in about one week.

19—MISC. CONSTRUCTION

LOS ANGELES, Cal.—Southern Pacific, Union Pacific and Sanat Fe railroads have informed Mayor Frank L. Shaw that they have agreed to accept the city's offer of \$1,000,000 toward construction of a union railway terminal in the Plaza area; also that they will urge the State Railroad Commission to approve immediate construction of the \$10,000,000 terminal in accordance with their "Plan 4B" which contemplates a "through-type" layout. The \$1,000,000 to be furnished by the city will be used for re alignment of streets, grading and reconstruction work. The site to be used in between Aliso and Macy Sts. and Alameda street and the Los Angeles River. The railroads already are under orders of the State Railroad Commission, first issued in 1927 and backed by decisions of the Interstate Commerce Commission, to build a union passenger terminal at the

Planned.
DOG TRACK Cost, \$125,000
SAN RAFAEL, Marin Co., Cal. Near California Park.
 Construct dog race track.
 Owner—F. S. Marshall, 775 Ashbury St., San Francisco, et al.
 Architect—Not Given.
 A petition to build the track was presented to the Board of Supervisors. Jerome Duffy, Russ Bldg., San Francisco, represented the owners.

SAN FRANCISCO—Until September 20, 1:45 P. M., informal bids will be received by S. J. Hester, Chief Deputy Director, Department of Public Works, City Hall, for repairing wire fence at the 15th and Harrison Street gas station.

BERKELEY, Alameda Co., Cal.—Following bids received by Berkeley Board of Education for galvanized wire mesh fence at the site of the gymnasium at the Burbank High School. Following bids received:
 Trask & Squiers, S. F. \$1,583.00
 Anchor Post Fence Co., S. F. 1,583.00
 Stuart Iron Works (C. J. Waterhouse), S. F. 1,583.00
 Standard Fence Co., S. F. 1,638.97
 Michel & Pfeffer Iron Works, San Francisco 1,747.30
 Crown Fence Co., S. F. 1,767.90
 Bids held under advisement.

WEST LOS ANGELES, Cal.—Grinnell Company of the Pacific, 520 Mateo St., Los Angeles, at \$3225 submitted late low bid to Supervising Superintendent of Construction, Veterans' Administration, Fort Miley, for furnishing and installing automatic wet pipe fire sprinkling system in warehouse and shop building at the Veterans' Administration Facility, West Los Angeles. Following bids received:
 Grinnell Co. of the Pacific, Los Angeles, at \$3225.
 Fire Protection Engineering Co., Los Angeles, \$3600.
 Rockwood Sprinkler Co., Worcester, Mass., \$3934.

Viking Automatic Sprinkler Co., Los Angeles, \$4512.
 Crowder Bros., St. Louis, Mo., \$7761.

SAN FRANCISCO—M. E. Vukicevich, 1442 Taraval St., at \$869 submitted low bid to Dept. of Public Works, for stairway, Telegraph Hill, on Filbert St., from Montgomery St. to roadway on top of hill. Complete bids follow:
 M. E. Vukicevich \$869.00 14 days
 E. J. Treacy 902.00 40 days
 M. J. Lynch 924.50 15 days
 D. C. McCabe 945.00 15 days
 Love & Haun 975.00 15 days
 F. C. Amoroso 994.00 20 days
 C. C. W. & H. H. Haun 998.00 40 days
 Bids held under advisement.

PEARL HARBOR, T. H.—Public Works Administration allotted funds to the Navy Department in the amount of \$1,005,000 for work at the Pearl Harbor Naval Station as follows:
 Improvement of railroad, electric, water and sewer systems, \$350,000.
 Improvement of telephone and fire alarm systems, \$80,000.
 Improvement of water supply at rifle range, \$20,000.
 Roads, walks and service line, \$50,000.
 Cranes for repair basin, \$380,000.
 Extension of foundry, \$125,000.

TURLOCK, Stanislaus Co., Calif.—C. A. Hilberg, Turlock, at \$1,099, awarded contract by Turlock School District for construction of 200 feet of permanent bleachers at the local high school football field.

Plans Being Prepared.
MAUSOLEUM Cost, \$500,000
LAWDALE, San Mateo Co., Cal. Hills of Eternity Cemetery.
 Reinforced concrete and steel mausoleum (marble and bronze interior) to contain crypts niches and family rooms, chapel, etc.
 Owner—Congregation Sherith Israel.
 Architect—Hyman & Appleton, 68 Post St., San Francisco.

September 13, 1933
 Contract Awarded.
BUILDING Cont. Price, \$1310
OAKLAND, Alameda Co., Cal. Municipal Airport.
 Frame and glass exhibition building (40x40 feet).
 Owner—City of Oakland (Port Commission), Grove St. Pier, Oakland
 Plans by Engineering Dept. of Owner.
 Contractor—Jensen & Pedersen, 3443 Adeline St., Oakland.

Contract Awarded.
RECREATION BLDG. Cost, \$6500
SAN FRANCISCO. No. 229 Minna St.
 Recreation building for St. Patrick's Shelter (steel frame Class C brick construction).
 Owner—St. Patrick's Shelter (Mon. Ryan in charge).
 Architect—Arnold Constable, 580 Market St., San Francisco.
 Contractor—Albert Nelson, 242 Ocean Ave., San Francisco.

WASHINGTON, D.C.—Public Works Administration has allotted funds to the Navy Department in the amount of \$1,225,000 for work as follows:
 Fireproofing magazines, renovation of buildings, railroad, roads and waterfront at Ordnance Stations \$590,000
 Renovation of buildings, railroads, roads and waterfront at Aviation Stations 503,000
 Renovation of buildings, roads and waterfront at Radio and Radio Compass Stations 75,000
 Renovation of buildings, roads, railroads and service lines at Marine Corps Posts 150,000

MARE ISLAND, Calif.—Following have procured plans for the purpose of submitting bids to the Public Works Officer, Mare Island Navy Yard, on September 20, for furnishing and installing oil tanks on a concrete platform, all supported on a pile foundation, including earth fill berm, asphalt macadam lined oil basin, pump house with pit, pumps, purifier, piping and electric wiring, at the Diesel Oil Purification Plant, Submarine Repair Base, U. S. Navy Yard, Mare Island. Spec. No. 7416. Estimated cost, \$18,000.

Duncanson-Harrelson Co., De Young Building, San Francisco.
Bennett & Taylor, 5842 Willoughby Ave., Los Angeles.

J. A. Fazio, 402 Castro St., Oakland. City Improvement Co., 2055 Center St., Berkeley.

MacDonald & Kahn, Financial Center Building, San Francisco.

Thomas J. Doyle, 1527 Seventeenth Ave., San Francisco.

Boller, Tank & Pipe Co., 800 Seventy-fifth Ave., Berkeley.

Herman Lawson, 465 Tehama St., San Francisco.

Healy-Tibbitts Construction Co., 64 Pine St., San Francisco.

B. N. C. Gerwick, 112 Market St., San Francisco.

Baldwin & Butler, 620 Cragmont Ave., Berkeley.

Theo. Johanns, 2020 Fifteenth St., San Francisco.

Crane Co., 301 Brannan St., San Francisco.

California Steel Products Co., 452 Bay St., San Francisco.

Western Pipe & Steel Co., 444 Market St., San Francisco.

M. B. McGowan, 74 New Montgomery St., San Francisco.

20—MISC. SUPPLIES AND MATERIALS

LOS ANGELES, Cal.—Four firms submitted identical bids to A. J. Holm, city purchasing agent, September 6, at prices shown below, to furnish 750,000 C. M. 35,000-volt, 3-conductor, lead covered, paper insulated cable on reels, Spec. No. 3190:

- (1) 18,663 ft. cable, \$4809 per M ft.;
(2) 18,653 ft. cable, \$4809 per M ft.

The bidders were:

Okonite Callender Cable Co.—Terms ¼ of 1%, 10 days.

General Cable Corp.—Terms ½ of 1%, 10 days from date of invoice.

General Electric Corp.—Terms ½ of 1%, 10 days after date of invoice.

Habirshaw Cable & Wire Corp.—Terms ½ of 1%, 10 days.

LOS ANGELES, Cal.—All bids for furnishing cable terminals, accessories, etc., under Spec. No. 3176, rejected by board of water and power commissioners September 5.

office.

SAN FRANCISCO, Cal.—Following bids received by U. S. Forest Service for:

- (1) 36 portable steel ranges with hot water coil and warming oven;
(2) 36 Standard 52-gal. extra heavy galv. vertical range, boilers and fittings.

(3) 36 lengths of stove pipe.
James Graham Co. (1)..... \$ 5,363.00
(2) 638.00
(3) 134.00

Dallman Supply Co.,
Sacramento (2) 711.00
(3) 46.80

Dohrmann Hotel Supply Co.,
San Francisco (1)..... 4,788.00

Tay-Holbrook Co., S. F. (2)..... 792.00

United Pipe & Supply Co.
(extra heavy) (2), each..... 18.10
(Standards), each 2.25

(Standards), each 25.25

Mangrum Holbrook Co. (1) 7,560.00
(36 complete units, including items 1, 2 and 2.

L. Schaffer, San Francisco 1,211.00
Bids held under advisement.

LOS ANGELES, Cal.—All bids to furnish Water and Power Department with cable terminals, etc., for twelve months' period beginning September 8, 1933, under Specifications No. 3176, rejected by A. J. Holm, purchasing agent, September 6. The bids were opened August 23.

WASHINGTON, D. C.—Bids are being received by the Bureau of Supplies and Accounts, Navy Department, Washington, D. C., to furnish and deliver supplies and equipment for various Pacific Coast navy yards and stations, further information concerning the schedules listed being obtainable from the Navy Purchasing Office, 100 Harrison St., San Francisco.

Bids Close Sept. 19

East and West yards, brass and copper pipe and tubing; sch. 661.

Mare Island and Puget Sound, 30-gal. steam jacketed kettles; sch. 665.

Bids Close Sept. 26

Mare Island, 30,300 lbs. medium bar steel; sch. 677.

Mare Island, 3000 lbs. corrosion-resisting bar steel; sch. 676.

San Diego, 15,000 lbs. plate zinc; sch. 673.

Puget Sound, 5 electric bake ovens and spares; sch. 671.

East or West yards, 4305 steel boiler tubes; sch. 670.

Mare Island, 10,000 lbs. rivet steel; sch. 678.

Mare Island, 300 carbon tetrachloride portable fire extinguishers; sch. 675.

Mare Island, 18,000 ft. water hose; sch. 674.

Mare Island, 20,000 ft. lighting and power cable; sch. 687.

Mare Island, 6000 lbs. naval brass and 2600 lbs. copper; East or West yards, 13,900 lbs. copper; sch. 695.

OAKLAND, Alameda Co., Cal.—Graybar Electric Company, Ninth and Howard Sts., San Francisco, and the General Cable Co., 465 10th St., San Francisco, submitted identical low bids at \$1,164.78 to City Council for 6000 feet insulated cable. Following bids received:
Graybar Electric Co., S. F.....\$1164.78
General Cable Co., S. F..... 1164.78
Maydwell & Hartzell, S. F..... 1200.00
John Roebling, S. F..... 1561.04
Gilson Electrical Supply Co.,
Oakland 1561.04

SAN FRANCISCO—Kaiser Paving Co., 74 New Montgomery St., at approximately \$34,260 awarded contract by T. A. Brooks, City Purchasing Agent, under Bid No. 1054 to furnish grout sand for Hetch Hetchy.

Complete bids published Aug. 5.
Bid of A. O. Field (low bidder) did not meet specifications.

PANAMA CANAL ZONE—Until September 18, 10:30 A. M., under Schedule No. 2898 bids will be received by the General Purchasing Officer, Panama Canal Zone, Washington, D. C., to furnish:

Galvanized steel sheets, steel bars, copper, brass, phosphor bronze, copper and brass pipe, wire rope, steel wire, electrical wire and cable, meter-testing blocks, cut-outs, light globes, solder, nails, glass, linoleum, packing leather, and Manila rope.

Specifications obtainable from above
OAKLAND, Alameda Co., Cal.—Graybar Electric Co., 9th and Howard Sts., San Francisco, at \$1164.78 awarded contract by city council to furnish 6000 ft. insulated cable.

Complete bids published Sept. 11.

BOULDER CANYON, Nev.—Pacific Coast Corp., Los Angeles, at \$53,975.12 awarded contract by Bureau of Reclamation under Schedule 1, Bid No. 3285-A, to furnish reinforcing steel for Boulder Dam.

Colorado Fuel & Iron Products Co., Minnequa, Colo., at \$118,636.37 awarded contract under Schedule 2.

OAKLAND, Calif.—Until Sept. 27, 8 p. m., bids will be received by John H. Kimball, Secretary, East Bay Municipal Utility District, 512 16th St., Oakland, to furnish 1200 tons aluminum sulphate. Specification 495, obtainable from above office.

ALBANY, Alameda Co., Cal.—Following bids received September 11th by City Council to furnish fence material for a 120x110-ft. tennis court in the city park, involving chain link fencing, rails, top guard, etc.
West Coast Wire & Iron Works,
861 Howard St., S. F.....\$1,155.00
California Wire Cloth Co.,
San Francisco 1,178.38
Hill Lumber & Hardware Co.,
Albany 1,182.72

Standard Fence Co., S. F..... 1,225.00

Chain Link Fence Co., S. F..... 1,236.55

Anchor Post Fence Co., S. F. 1,236.56

Michel & Pfeffer Iron Works,
San Francisco 1,236.56

Stuart Iron Fence Co., S. F..... 1,236.56

Pittsburg Fence Co., S. F..... 1,236.86

Crown Fence, S. F..... 1,236.86

SAN FRANCISCO.—Until September 22, 3 p. m., bids will be received by T. A. Brooks, Purchaser of Supplies, 270 City Hall, San Francisco, to furnish Delivery and Return of Voting Machines under Bid No. 1078.

Specifications obtainable from above office.

SAN FRANCISCO.—Kaiser Paving Co., 74 New Montgomery St., San Francisco, awarded contract under Bid No. 1054 by City Purchasing Department, City Hall, San Francisco, for purchase of Grout Sand, Hetch Hetchy project.

SAN FRANCISCO—Until Sept. 22, 2 P. M., bids will be received by T. A. Brooks, Purchaser of Supplies, City Hall, to auction following materials:

- (1) Approx. 20,000 lbs. scrap copper;
(2) Approx. 1500 lbs. scrap brass;
(3) Approx. 12,500 lbs. scrap bronze;
(4) Approx. 135 tons scrap iron and steel.

Specifications obtainable from above office.

LOS ANGELES, Cal.—Until 11 A. M., September 19, bids will be received by A. J. Holm, City Purchasing Agent, 107 City Hall, to furnish screened gravel, crushed rock, concrete sand and plaster sand, f.o.b. delivered to the Depl's. Bouquet Canyon Construction site, 22 miles north of Saugus and various points along pipe line running from Reservoir to Power Plant No. 1 penstock in San Francisco Canyon, under Specifications No. 3209. The bids will be taken as follows:

- (1) Screened gravel, price per ton
(2) Crushed rock, price per ton;
(3) Concrete sand, price per ton;
(4) Plaster sand, price per ton.

The estimated quantities are:
Item (1), 9000 tons; Item (2), 1000 tons; Item (3), 7000 tons; Item (4), 200 tons.

SAN FRANCISCO—Until September 18, 2:30 P. M., bids will be received by U. S. Forest Service, Ferry Bldg., San Francisco, to furnish two 300 ampere, one-arc gasoline driven engine welder.

ENGINEERING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

- | | |
|-------------------------------------|-------------------------------------|
| 21.—Bridges | 30.—Reservoirs and Dams |
| 22.—Dredging, Harbor Works, Excava. | 31.—Pipe Lines and Wells |
| 23.—Irrigation Proj. | 32.—Sewers & Sewage Disposal Plants |
| 24.—St. Light. Systems | 33.—Water Works |
| 25.—Machinery and Equipment | 34.—Parks & Playgrounds |
| 26.—Railroads | 35.—Tunnels |
| 27.—Fire Alarm Sys. | |
| 28.—Fire Equipment | |
| 29.—Streets & Highways | |

21— BRIDGES

EUREKA, Humboldt Co., Cal.—County Engineer Frank E. Kelly preparing plans for new bridge over Ryan Slough on the old Arcata Road. Bids will probably be called September 12. Bridge will be concrete with wooden deck, estimated cost \$15,000.

SANTA CRUZ, Cal.—Until Sept. 23, bids will be received by H. E. Miller, County Clerk, to construct Corralitos bridge. Lloyd Bowman, county engineer.

WASHINGTON STATE—D. Nygren, Lloyd Bldg., Seattle, at \$36,351 awarded contract by State Highway Department, Olympia, to construct bridges over the Samish River and Silver Creek, Lake Samish Branch, State Road No. 1.

SAN FRANCISCO—Following contracts awarded by U. S. Forest Service to furnish structural steel for bridges:

Moore Dry Dock Co., Balfour Bldg., at \$2090, for three 60-ft. beam spans with two splices.

Judson-Pacific Co., 609 Mission, at \$7639, for 98 ft. truss span, and at \$548 for five steel bents.

McClintic-Marshall Corp., 20th and Illinois, at \$499, for 50-ft. beam span with no splice.

Complete bids published Aug. 31.

EL DORADO CO., Cal.—E. T. Lesure, 87 Ross Circle, Oakland, at \$5297 awarded contract by State Highway Commission to construct a timber bridge across Greenwood Creek, 12 miles northwest of Placerville, consisting of four 19-foot spans on frame bents and roadway approaches to be graded and surfaced with selected material.

SANTA CRUZ, Calif.—As previously reported, until September 23, 10:30 a. m., bids will be received by H. E. Miller, county clerk, to construct concrete bridge abutment, Corralitos, Pajaro Road District, under two alternate proposals as follows:

GRAVITY TYPE WALL

- (1) 401 cu. yds. class A conc. in place.
- (2) 2645 lbs. reinf. steel in place.

COUNTERFORT TYPE WALL

- (1) 165.3 cu. yds. class A conc. in place.
- (2) 12,301 lbs. reinf. steel in place.

Specifications obtainable from Lloyd Bowman, county surveyor, on deposit of \$2. Certified check 10% required with bid.

LOS ANGELES, Cal.—E. G. Perham, 1128 Stearns Drive, submitted low bid to County Supervisors, Sept. 11 at \$5590 (Proposal No. 1 Redwood with Douglas Fir), for the construction of a wood and steel frame bridge on New York Ave., over Eaton Wash. C. Bongiovanni Constr. Co., 2561 Canyon Dr., submitted low bid on Proposal No. 2 (all redwood) at \$5999.

22—DREDGING, HARBOR WORKS, EXCAVATION

PORTLAND, Ore.—Until Sept. 26, 11 A. M., under Bid No. 34-88, bids will be received by U. S. Engineer Office, 306 Customhouse, Portland, Ore., to dredge 5,500,000 cu. yds. from channel in Columbia River opposite Harrington Point, 90 mi. below Portland and 10 mi. above Astoria, Ore. Specifications obtainable from above office.

PORTLAND, Ore.—Until Sept. 26, 3 P. M., under Bid No. 34-89, bids will be received by U. S. Engineer Office, 306 Customhouse, Portland, Oregon, to dredge 950,000 cu. yds. from channel in Columbia River, Interstate Highway Bridge, Vancouver, Wash., to a point 8500 ft. downstream.

Specifications obtainable from above office.

MARTINEZ, Contra Costa Co., Cal.—City Council instructs E. Geoffrey Bangs to prepare plans for U-shaped yacht harbor at end of 675 ft. extension to present municipal wharf. Estimated cost \$55,000. Project may be financed by Federal loan through the NRA.

SACRAMENTO, Cal.—Roberts Island Dredging Co., Antloch (R. P. Easley) at \$1,1224 submitted low bid to U. S. Engineer Office, Sacramento, to construct stretches of new levee and raise stretches of old levee along northeastern side of Haas Slough from near its junction with Cache Slough to its junction with Reclamation District No. 2068 canal, and on the easterly side of said canal to near the pumping plant, total length of levee 16,500 ft., involving 480,000 cu. yds. embankment in place.

Complete bids follow:
 Roberts Island Dredging.....\$1,1224
 Haas, Doughty & Jones, S. F.....159
 Olympian Dredging, S. F.....1698
 Government Estimate1401
 Bids held under advisement.

WESTERN STATES—Following allotments made for Rivers and Harbors improvements:

San Diego Harbor, Calif., \$124,500.
 Los Angeles and Long Beach Harbors, Calif., \$1,650,000.

Monterey Harbor, Calif., \$240,000.
 Richmond Harbor, Calif., \$95,000.
 San Joaquin River, Stockton channel Calif., \$990,000.

San Francisco Harbor, Calif., \$275,000.

Columbia & Lower Willamette Rivers below Vancouver, Wash., and Portland, Ore., \$426,500.

Tacoma Harbor, Wash., \$50,000.
 Lake Washington Ship canal, Wash. \$180,000.

Wrangell Narrows, Alaska, \$142,000.
 Honolulu Harbor, Hawaii, \$792,000.
 Kaunakakai Harbor, Hawaii, \$120,000.

Port Allen Harbor, Hawaii, \$680,000.

23— IRRIGATION PROJ.

KELSO, Wash.—Rumsey & Co., Medical Arts Bldg., Seattle, at \$17,406 awarded contract by Cowlitz County Commissioners to excavate 17,000 cu. yds. material, build a pump house, clean out ditches and blast the old pump house.

Parker-Schram Co., Portland, low bidder at \$17,325.

SAN CLEMENTE, Orange Co., Cal.—City council has applied to the Federal administration of Public Works for \$40,000 to aid financing improvements to the water system. W. A. Ayer, city engineer, is preparing preliminary plans for the proposed work, involving the construction of the improvements to the auxiliary pumping plant at San Juan Creek (\$5000) and (\$35,000).

WESTERN STATES—Following projects included in irrigation construction work allotments by U. S. Bureau of Reclamation:

ARIZONA—Yuma, drainage, \$120,000
IDAHO—Boise, drainage, \$100,000;
 Upper Snake River, storage, \$4,000,000;
 Minidoka-Gooding division, improve laterals, \$400,000.

NEVADA—Newlands, additional storage, \$1,500,000; Humboldt, additional storage, \$2,000,000.

OREGON—Stanfield, reconstruct canals, \$100,000.

UTAH—Hyrum, dam and reservoir, 46,750 ft. 4-in. cast iron pipe in place \$930,000; Ogden, Ogden River development, \$3,000,000.

24—ST. LIGHT. SYSTEMS

LOS ANGELES, Cal.—General Electric Co. submitted only bid to A. J. Holm, purchasing agent, September 6 at \$14,785.00 net, f.o.b. Schenectady, N. Y., to furnish carrier current street lighting control equipment, complete, consisting of station equipment, for use in controlling switching street lighting system in Hollywood area served by Distributing Stations No. 6 and No. 10. Specifications No. 3177. Options were granted within period of one year after date of contract.

25—MACHINERY AND EQUIPMENT

SAN FRANCISCO—Lindgren and Swinerton, at \$175 awarded contract by U. S. Forest Service for the rental of one compressor to operate two drills.

W. H. Cowan at \$200, 1st month, and \$175 thereafter, awarded contract for the rental of one compressor to operate two drills.

CAPITAL CITY TITLE COMPANY

J. C. PALEN,
 Manager

914 Seventh Street

Sacramento :: California

SAN FRANCISCO—Following bids received by U. S. Forest Service to furnish 14 detachable rock drill bit grinders:
Sullivan Machinery Co. (1) \$2853; (2) \$634; (3) \$317; (4) \$382; (5) \$285.
Ingersol-Rand Co. (1) \$2854; (2) \$634; (3) \$317; (4) \$382; (5) \$285.
Brown Bevis Co., Los Angeles, informal bid \$275 for one grinder.

KETCHIKAN, Alaska.—Bids for furnishing compressors for lighthouse service at Cape Hinchinbrock. Proposal No. 6500 (A, delivered, B, f.o.b. plant), were:
Cummings Engine Co., Columbus, Ind., B, \$3998.
Atlas Imperial Engine Co., Oakland, Calif., A, \$5588; B, \$5438, accepted.
Three Engineers Co., Seattle, Wash., A, \$5173; B, \$5134, and alt. \$6133; ½%.
Enterprise Engine Co., A, \$4600; B, \$4520; 2%.

Pacific Hoist & Derrick Co., Depere, Wis., A, \$8000; B, \$8500.
Engineering Specialty Co., Seattle, A, \$5595; B, \$5526.50.
Kohlenberg Bros. Co., Two Rivers, Wis., A, \$6868; alt., \$5990.
Winton Engine Corp., Cleveland, A, \$8263.70; B, \$7544.50.
F. A. B. Mfg. Co., Oakland, Calif., A, \$8263.70; E, \$4388.35.
Am. Diesel Engine Co., A, \$5259.04; B, \$5209.04 and \$4835.04; 1%.
Vonn-Severin Mach. Co., Chicago, A, \$5575; B, \$4990.
Hill-Diesel Engine Co., Lansing, Mich., A, \$4970; B, \$4650; 2%.
Superior Engine Co., Springfield, Ohio, A, \$7843; B, \$7419.
H. J. Armstrong Co., Lansing, Mich., A, \$6030; B, \$5710.
Eucyrus-Erie Co., Erie, Pa., A, \$9378; B, \$5710.
Fairbanks, Morse & Co., Beloit, Wis., A, \$4708.85; B, \$4375.
Western Enterprise Engine Co., Los Angeles, A, \$7245 and \$7150; B, \$7845 and \$7750.

LOS ANGELES, Cal.—Smith Booth Usher Co., awarded contract by A. J. Holm, City Purchasing Agent, Sept. 7, at \$7680 for tarth boring machine, without undercutting device. Spec. No. 3198.

SAN FRANCISCO.—Following bids received by U. S. Forest Service to furnish 75 rock drills, air, 50 to 59 lbs. weight:
Chicago Pneumatic Tool Co., \$190.22, 1 da., 53-14 da.
Gardner-Denver Co., \$190-S 50 AB, 17-1 da., 58-14 da.
Ingersoll-Rand Co., \$190-30-1 da., 20-5 da., 28-14 da.
Sullivan Mach. Co., \$190-5-1 da., 11-16 da., 26-28 da.
Rlx Co., \$190-40-1 da., 35-3 da.
Ed. R. Bacon, \$190-20-1 da., 54-14 da.
Bids held under advisement.

SAN FRANCISCO.—Associated Equipment Co., Los Angeles, at \$178.50 awarded contract by U. S. Forest Service for the rental of five revolving scrapers, 7-ft. class, to work behind tractors of 55-drawbar h.p.

LOS ALTOS, Santa Clara Co., Cal.—Pearson Chevrolet Co., Mountain View, Cal., at \$1617.15 awarded contract by Los Altos Elementary School District to furnish one school bus, 40-passenger capacity.

OAKLAND, Cal.—Fageol Motors, Hollywood and 107th Ave., Oakland, at \$2970.28 net, awarded contract by East Bay Municipal Utility District to furnish one 22,000 lb. truck.

LOS ANGELES, Cal.—Bids for constructing liquid gas plant and furnishing liquified petroleum gas, in accordance with Specifications No. 56, opened by the Metropolitan Water District, Sept. 11. The work consists of constructing a liquid gas plant at Division No. 1, Headquarters, Colorado River Aqueduct, about 15 miles northeast of Drennan, Calif., and furnishing the gas required for the operation of plant for a period not to exceed 5 years.

The bids were:
American Liquid Gas Co., 322 Trans-america Bldg., Los Angeles, \$1190; 2%; 9.7c gal.; 2%. Prices do not include unforseen taxes.
Parkhill-Wade, Inc., 973 N. Main St., Los Angeles—\$1301; 2% 10 days; 9.98c gal., 2%. Prices do not include taxes.

28—FIRE EQUIPMENT

STOCKTON, San Joaquin Co., Cal.—Mack International Motor Truck Corp., 11th and Howard Sts., San Francisco, submitted lowest bid Sept. 11th to B. L. Trahern, city clerk, to furnish one combination pump, hose and ladder fire engine.
Other bidders were:
Seagrave Corp., E. F., \$12,500
American La France & Foamite Co. of N. Y. (Hansel & Ortman, Stockton Rep.), 12,500
Abrens & Fox Fire Engine Co., San Francisco, 12,750
Bids were referred to the clerk until September 18th.

30—RESERVOIRS & DAMS DISPOSAL PLANTS

SANTA CLARA, Cal.—F. O. Bohnett, Box 54, N. Union Ave., Campbell, at \$16,100 awarded contract by Santa Clara Valley Water Conservation District, San Jose, to construct Coyote Percolation Dam near Coyote.

COYOTE, Santa Clara Co., Cal.—Meeting held by Coyote Water Dist. directors to discuss building of dam 100 feet high estimated cost \$540,000; application would be made for \$162,000 grant from the federal government. Fred H. Tibbetts, S. F., engineer.

31—PIPE LINES & WELLS

SAN BERNARDINO, Cal.—Roscoe Moss Co., 4360 Worth St., Los Angeles, awarded contract by city water commissioners September 5, at \$2203 to drill 400-ft. well, 16-in. diameter, Lytle Creek Park, and at \$3159 to drill 600-ft. well Mill and D Sts.

SPADRA, Los Angeles Co., Cal.—Until Sept. 26, 2 P. M., bids will be received by Geo. B. McDougall, State Architect, Public Works Bldg., 11th and P Sts., Sacramento, to complete sewer pumping line, Pacific Colony, Spadra, involving installing piping to connect the Pacific Colony Sewer System with the City of Pomona Sewer System. Specifications obtainable from above office and from District Engineer, Los Angeles, on deposit of \$25. Certified check 10% required with bid.

32—SEWERS & SEWAGE DISPOSAL PLANTS

LOS ANGELES, Cal.—John Granch, 1117 N. Gage St., submitted low bid to Board of Public Works, Sept. 6, at \$4226.20 to construct sewers in Bundy Drive and Chalon Road Sewer District, under 1911 Act.

HAYWARD Alameda Co., Calif.—Until Sept. 22, 8 p. m., bids will be received by M. B. Templeton, city clerk, to construct reinforced concrete storm sewer in Memorial Park, involving:

- (1) 153 cu. yds. 1-2-4 conc. in place (incl. excav. and backfill);
 - (2) 19,000 lbs. reinf. steel in place.
- Specifications obtainable from John A. Mancini, city engineer. Certified check 10% required with bid.

LOS ANGELES, Cal.—Bids for furnishing and installing two automatic rake and cleaner units for 1-in. spaced bar screens at Hyperion North Screening Plant for Bureau of Engineering under Specifications No. 3218, opened by A. J. Holm, Purchasing Agent, September 11. The bids were as follows:

Stephenson Adamson Mfg. Co.—\$5200. Terms net; delivery 45 days. (If 8-rake arms required add \$200).
A. & G. Machine Works—\$3565.75. Terms 1% 35 days; delivery 45 days.
Link Belt Co.—\$3431. Terms net; delivery 45 days.
Snow Mfg. Co.—\$3949. Terms net.
Vernon Tool Co.—\$3830. Terms net; delivery 45 days.

GLENDALE, Los Angeles Co., Cal.—J. C. Albers, city engineer, authorized to prepare plans for a storm drain to serve the district around Glendale Ave. and Raleigh St. The cost is estimated at \$75,000.

ONTARIO-UPLAND, San Bernardino Co., Cal.—The city councils of Ontario and Upland are discussing the possibility of obtaining NRA funds in the sum of \$125,000 to finance the construction of a sewage disposal plant to serve jointly the cities of Ontario and Upland.

SAN FRANCISCO—Until September 26, 3 P. M., bids will be received by Felton Taylor, Secretary, Public Utilities Commission, Room 225, City Hall, for construction of Moccasin Sewage Disposal System, H.H.W.S. Contract No. 143. Specifications may be obtained from Room 609, San Francisco Water Department, 425 Mason Street, upon deposit of \$10. Quantities follow:

- (1) 300 cu. yds. earth excav. for trenches and manholes;
- (2) 340 cu. yds. rock excav. do;
- (3) 50 cu. yds. earth excav. for struc.
- (4) 100 cu. yds. rock excav. for struc.
- (5) 140 lin. ft. backfill;
- (6) 1415 lin. ft. laying 8-in. cast iron pipe;
- (7) 180 lin. ft. fur. and lay 18-in. vitrified pipe;
- (8) 5 manholes complete;
- (9) fill existing septic tank and alter outlets (lump sum);
- (10) 500 sq. ft. crushed rock pave.;
- (11) septic tank, sludge bed and auxiliary works (lump sum);
- (12) 1 cu. yd. Class A concrete;
- (13) 25 cu. yds. Class B concrete;
- (14) 28 cu. yds. Class C concrete (in
- (15) 3 cu. yds. Class C concrete (not in tunnel);
- (16) 200 lbs. reinf. steel;
- (17) 10 bbls. extra cement;
- (18) 5 boxes precast division boxes;
- (19) 160 lin. ft. disposal field trench;
- (20) 250 lin. ft. 6-in. vit pipe.

33—WATER WORKS

LOS ANGELES, Cal.—Petroleum Equipment Co. awarded contract by Saul A. Joseph, Purchasing Agent, Metropolitan Water District, Sept. 7 (items 2, 4, 5 and 12) at \$8423.44 to furnish pumps under Bid No. 1453.

LOS ANGELES, Cal.—Pennsylvania Pump & Compressor Co. awarded contract by Saul A. Joseph, Purchasing Agent, Metropolitan Water District, Sept. 7, (items 7 and 8), at \$2816 to furnish pumps under Bid No. 14353.

LOS ANGELES, Cal.—R. M. Hartwell Co. awarded contract by Saul A.

Joseph, Purchasing Agent, Metropolitan Water District, Sept. 7 (items 6 and 9), f.o.b. Los Angeles, at \$3154.91 to furnish pumps under Bid No. 14353.

BURLINGAME, San Mateo Co., Cal.—City council contemplates flood control in North Burlingame; Loveland Engineers, San Francisco, submitted estimated cost of \$28,000.

ROSEVILLE, Placer Co., Cal.—City council hears report of Biter & Cunningham, Portland engineers, on proposed municipal water system, estimated cost \$160,000.

LIVERMORE, Alameda Co., Cal.—Bids will be asked shortly by the Supervising Superintendent of Construction, Veterans' Administration, Fort Miley, San Francisco, for a Diesel engine pumping plant at the Livermore Veterans' Hospital. Work involves:

- (1) 75 h.p. Diesel engine;
- (2) 35 h.p. Diesel engine.
- (3) 500 G.P.M. centrifugal pump with gear drive.

PITTSBURG, Contra Costa Co., Cal.—City Council will hold election September 25 on proposed new municipal water supply. Estimated cost, \$750,000. E. L. O'Hara, Antioch, city engineer, and C. C. Kennedy, Call Bldg., San Francisco, engineers on the project.

BOULDER CANYON, Nev.—Graybar Electric Co., Denver, at \$38,782 awarded contract by U. S. Bureau of Reclamation, Denver, to furnish pipe fittings for Boulder Dam under Bid No. 2-3281-A, Schedule 1. Appleton Electric Co., Chicago, at \$19,000 awarded contract for Schedule 6.

EUREKA, Humboldt Co., Cal.—City council will call election on \$1,295,000 Mad River water supply system bonds. C. C. Kennedy, Call Bldg., engineer on the project.

SAN FRANCISCO.—California Corrugated Culvert Co., 5th and Parker Sts., Berkeley, at \$22,772.97 awarded contract by U. S. Forest Service to furnish corrugated metal pipe culverts as follows:

5894 lin. ft. 12-in. 16 ga.....	\$.60
2016 lin. ft. 15-in. 16 ga.....	.74
2392 lin. ft. 18-in. 16 ga.....	.57
2520 lin. ft. 21-in. 14 ga.....	1.25
2820 lin. ft. 24-in. 14 ga.....	1.36
2288 lin. ft. 30-in. 16 ga.....	1.71
1868 lin. ft. 36-in. 14 ga.....	2.01
112 lin. ft. 48-in. 12 ga.....	3.66
76 band couplers, 12-in.....	.71
32 band couplers, 15-in.....	.79
42 band couplers, 18-in.....	.88
47 band couplers, 21-in.....	1.14
67 band couplers, 24-in.....	1.25
50 band couplers, 30-in.....	1.52
48 band couplers, 36-in.....	1.77
4 band couplers, 48-in.....	3.23

SACRAMENTO, Cal.—The Sacramento Municipal Utility District (Albert Gwen, chief engineer), has applied to the Federal Administration of Public Works for \$15,700,000 to finance the construction of a municipal water supply system from Silver Creek drainage basin as proposed to Sacramento, which will include the following projects:

- Union Valley reservoir, \$3,140,000.
- Silver Creek-Brush Creek conduit, \$2,081,000.
- Brush Creek - Sweetwater conduit, \$3,367,000.
- Sweetwater reservoir, \$1,025,000.
- Sweetwater - Sacramento pipe line, \$2,765,000.
- Power development, \$3,042,000.

SIGNAL HILL, Los Angeles Co., Calif.—Until 3 p. m., October 2 (tentative date), new bids will be received by Signal Hill City Council to construct water tank on Signal Hill. New specifications are being prepared to provide for bids on a straight cylinder type of tank and an alternate on a tank in accordance with previous specifications. The proposed tank is 20 ft. in diameter, 40 ft. high, and will have a capacity of 94,000 gallons. W. V. Thompson, water superintendent, Geo. H. Cooper, city clerk. The previous bids were opened August 14.

KING CITY, Monterey Co., Cal.—City Council hears report of H. Cozzens, county engineer, on rebuilding sewer system and installing new systems; estimated cost \$28,000.

SAN FRANCISCO—Herman Lawson, 465 Tehama St., at \$2644.10 awarded contract by Public Utilities Commission to lay 6- and 8-in. cast iron pipe in Alemany Boulevard, bet. Ocean Ave. Seneca Aves. (Section 2). Complete bids published August 31.

MORGAN HILL, Santa Clara Co., Cal.—City council calls bond election September 30 for \$45,000 water works system bonds.

SAN FRANCISCO.—Until September 29, 3 p. m., under Bid No. 1077 bids will be received by T. A. Brooks, city purchasing agent, Room 251, City Hall, to furnish brass fittings for S. F. Water Department. Specifications obtainable from above office.

BOULDER DAM, Nev.—Laclede Tube Co., St. Louis, Mo., awarded contract by the Bureau of Reclamation at \$67,710 for furnishing 3,050,000 lin. ft. 1-in. black steel tubing under Bid No. A-3262-A-1, opened at Denver, Colo., Aug. 10. Prices f.o.b. Alton, Ill. Discount; 2% 10 days. The items were:

- (1) 2,750,000 lin. ft. 1-in. black steel tubing;
- (2) 300,000 lin. ft., same.

The complete bids were:
Laclede Tube Co., St. Louis, item 1, \$61,050; (2) \$6660; f.o.b. Alton, Ill., 2%. Standard Sanitary Mfg. Co., Las Vegas, Nev., item 1, \$61,875; 2, \$6750; f.o.b. Aliquippa, 2%.

Hendrie & Bolthoff Mfg. & Supply Co., Denver, Colo., item 1, \$67,100; 2, \$7320; f.o.b. Lorain, Ohio, 2%. Mervet Tube & Mfg. Co., Sharon, Pa., item 1, \$101,475; 2, \$11,070; f.o.b. Sharon, 2%.

Crane-O'Fallon Co., Denver, Colo., item 1, \$61,100; 2, \$7320; f.o.b. Lorain, 2%. Republic Steel Corp., Youngstown, Ohio, item 1, \$59,950; 2, \$6540; f.o.b. Butler, Pa., 2%.

Steel & Tubes, Inc., Cleveland, item 1, 1,450,000 lin. ft., \$44,950; f.o.b. Cleveland; balance \$41,600, f.o.b. Brooklyn; item 2, \$9300; ½%.

Standard Sanitary Mfg. Co., Denver, Colo., item 1, \$61,875; 2, \$6750; f.o.b. Aliquippa, Pa., 2%. Grinnel Co. of the Pacific, Los Angeles, item 1, \$61,875; 2, \$6750; f.o.b. Aliquippa, Pa., 2%.

Clayton-Mark Co., Chicago, item 1, \$114,125. Alt., \$96,250; 2, \$12,450 and \$10,500; f.o.b. Boulder City, 2%. Edw. W. Duffy & Co., Detroit, item 1, \$61,675; f.o.b. Aliquippa, Pa., 2%.

Hacker Pipe & Supply Co., Los Angeles, Calif., item 1, \$61,875; 2, \$6750; f.o.b. Aliquippa, 2%.

29—STREETS AND HIGHWAYS

LOS ANGELES, Cal.—Until September 26, 2 p. m., bids will be received by State Highway District Office, Los Angeles, for .8 mile concrete slope reinforcement constructed in Los Angeles County near Beverly Blvd., involving:

- (1) 920 yds. structure excavation;
- (2) 90 yds. remove concrete;
- (3) 195 yds. class A concrete;
- (4) 14,500 lbs. reinforcing steel.

STOCKTON, San Joaquin Co., Cal.—R. E. McCarthy, 603 Eastworth St., at \$895 per ton, awarded contract by City Port Commission for gravelling near the Deep Water Terminal at the lumber storage areas, 2-inch gravel to be laid, involving 3000 tons road gravel

GLENN, PLACER AND COLUSA COUNTIES, Cal.—E. E. Hilliard, 1365 43d St., Sacramento, at \$9142.55 awarded contract by State Highway Commission to apply 14.2 mi. bituminous surface treatment.

KINGS COUNTY, Cal.—Stewart & Nuss, 410 Thorne Ave., Fresno, at \$9088.20 awarded contract by State Highway Commission to apply retreat surface treatment to existing pavement over 2.7 mi. near Lemoore.

TULARE COUNTY, Cal.—Stewart & Nuss, Inc., 410 Thorne Ave., Fresno, at \$6078 awarded contract by State Highway Commission to apply a bituminous seal coat to the shoulders on each side of the existing pavement over 46 miles between the southerly boundary and Kingsburg.

KERN COUNTY, Cal.—Granite Construction Co., Watsonville, at \$9224.50 awarded contract by State Highway Commission, to apply retreat surface treatment to 2 miles existing pavement between 6.2 mi. and 10.4 mi. east of Bakersfield.

SAN RAFAEL, Marin Co., Cal.—Until September 25, 11 a. m., bids will be received by Kate E. Graham, county clerk, for surfacing on roads as follows: Indian Valley Road, Novato, 2.15-mi.; Vineyard Ave., Novato, 1.4-mi.; Eucalyptus Ave., Novato, 0.6-mi.; Marshall-Petaluma Road, 0.3-mi. and Chileno Valley Road, 2.2-mi., involving:

- (1) 367 bbls. light oil;
- (2) 121 tons heavy oil;
- (3) 1260 tons rock;
- (4) 630 tons screenings.

Specifications obtainable from office of Rodney Messner, county surveyor.

SAN RAFAEL, Marin Co., Cal.—Until September 25, 11 a. m., bids will be received by Kate E. Graham, county clerk, for 2.1-mi. surfacing on the Fallon-Two Rocks road, involving:

- (1) 118 bbls. light oil;
- (2) 37 tons heavy oil;
- (3) 394 tons rock;
- (4) 197 tons screenings.

Specifications obtainable from Rodney Messner, county surveyor.

SONOMA CO., Cal.—Helwig Construction Co., Sebastopol, at \$4510.80 submitted low bid to District Engineer, State Highway Commission, San Francisco, to apply 4.2-mi. bituminous surface treatment between Willow Brook and Haystack, involving:

- (1) 45 tons emul. asph. road oil;
- (2) 900 tons screenings.

Complete bids follow:
(A) Helwig Construction Co., Sebastopol \$4510.80
(B) Pacific Truck Service, San Jose 4578.30
(C) Lee J. Immel, Berkeley 4791.60
(D) E. A. Forde, San Anselmo 5040.00

Unit bids follow:

	(1)	(2)
(A)	\$28.24	\$3.60
(B)	20.14	4.08
(C)	22.08	4.22
(D)	22.00	4.50

Bids held under advisement.

COCONINO COUNTY, Ariz.—Had-dock & Lindberg at \$168,495 submitted low bid to U. S. Bureau of Public Roads, Phoenix, for grading 9.688 mi. Section G. Rt. 7, the Oak Creek National Forest Highway, Coconino National Forest.

Only one bid submitted by Hodgman & MacVicar at \$187,095. Bids held under advisement.

JUNEAU, Alaska—Siems-Spokane Co., Realty Bldg., Spokane, Wash., at \$25,347.90 awarded contract by U. S. Bureau of Public Roads to grade and construct piling on 0.76 mi. Seward Highway, Seward Grade Crossing Section, Chugach National Forest.

LOS ANGELES, Cal.—No bids received by Board of Public Works Sept. 6 to improve Grape St., between 102nd and 103rd Sts., 763 ft. center line, under the 1911 Act.

SAN FRANCISCO.—Until September 20, 2:30 p. m., bids will be received by Department of Public Works, S. J. Hester, chief deputy director, to improve Gaven St. from Barneveld to Merrill, where not, involving:

- (1) 100 ft. armored concrete curb;
- (2) 80 ft. 6-in. side sewer;
- (3) 2,000 sq. ft. asph. conc. pave.

Estimated cost \$600. Specifications obtainable from John J. Casey, city engineer, third floor, City Hall.

LOS ANGELES, Cal.—Until 2 p. m., October 3, bids will be received by the Metropolitan Water District, 306 West Third Street, Los Angeles, to construct 20.3 miles of road for the Colorado River Aqueduct, Specifications No. 52. The proposed work is in San Bernardino County, California, and extends from Earp northeasterly along the west bank of the Colorado River, approximately 20 miles. The work is divided into schedules as follows:

- Schedule 1—River Road, 15.9 miles;
 Schedule 2—Deslit Wash, 2.6 miles;
 Schedule 3—Gene Draw, 1.8 miles.

The work to be contracted for consists of all necessary excavation and grading, and the placing of surfacing materials, culvert pipes, riprap, and protection work. An engineer for the District will be at the post office in Earp at 8:30 a. m., September 19, who will conduct prospective bidders over the location of the proposed work. (Certified check, \$15,000.)

Plans may be obtained at Room 1007, 306 West Third Street, upon payment of \$5.00, not returnable. P. E. Weymouth, Chief Engineer and General Manager. The schedules and items are:

SCHEDULE 1—Construct River Road, 15.9 miles;

- (1) 3,000 cu. yds. earth excav.;
- (2) to (14) Items 2 to 14, inclusive, do not apply to Schedule 1.
- (15) 800 M. gal. water subgr.;
- (16) 2,500 cu. yds. furnish. sel. borrow sub-base stab.;
- (17) 25,600 cu. yds. furnish. sel. materials;
- (18) 70,150 cu. yds. mi. haul. sel. material and sel. borrow sub-base stab.;
- (19) 15.90 mi. preparing subgr. and finish shoulders;
- (20) 428,500 gals. road oil—furnish, haul and spread;
- (21) 182,500 sq. yds. prepare surface, mix, spread and finish oil surf.;
- (22) 400 cu. yds. stock pile, oil material.

SCHEDULE 2—Construct Deslit Wash Road, 2.6 mi.

- (1) 34,500 cu. yds. earth excav.;
- (2) 20,000 cu. yds. rock excav.;
- (3) 15,000 sta. yds. excav. overhaul;
- (4) 600 cu. yds. struc. excav.;
- (5) 35 cu. yds. conc.

- (6) 1000 lbs. reinf. steel, furnish and place;
- (7) 150 lin. ft., furnish and place, 24-in. dia. corr. pipe culvert;
- (8) 175 lin. ft. 30-in. do.;
- (9) 340 lin. ft. 36-in. do.
- (10) 60 lin. ft. 42-in. do.
- (11) Item 11 does not apply to Schedule 2.
- (12) 200 Cu. yds. dry rubble retaining walls;
- (13) 150 cu. yds. dumped roprap;
- (14) 23 M gal. water embank.
- (15) 155 M. gal. water subgr.;
- (16) 800 cu. yds. furnish sel. borrow subbase stab.;
- (17) 4400 cu. yds. furnish sel. material
- (18) 6000 cu. yd. mtle haul sel. material and sel. borrow sub-base stab.;

- (19) Item 19 does not apply to Schedule 2;
- (20) 74,060 gal. road oil, furnish, haul and spread;
- (21) 30,278 sq. yds. prepare surface, mix, spread and finish of oil-treated surface;
- (22) 250 cu. yds. stock piles of oil-treated material.

SCHEDULE 3—Construct Gene Draw Road; 8 miles

- (1) 5000 cu. yds. earth excav.;
- (2) 110,000 cu. yds. rock excav.;
- (3) 150,000 sta. yds. excav. overhaul;
- (4) 1000 cu. yds. struc. excav.;
- (5) 25 cu. yds. concrete;
- (6) 500 lbs. reinf. stel, furnish and place;
- (7) 975 lin. ft. furnish and place 24-in. dia. corr. pipe culvert;
- (8) Item 8 does not apply to Schedule 3.
- (9) 80 lin. ft. 36-in. do.;
- (10) Item 10 does not apply to Schedule 3.
- (11) 50 lin. ft. furnish and place 48-in. do.;
- (12) 200 cu. yds. dry rubble retaining wall;
- (13) Item 13 does not apply to Schedule 3;
- (14) Item 14 does not apply to Schedule 3;
- (15) 100 M. gal. water subgr.;
- (16) 4300 cu. yds. furnish sel. borrow sub-base stab.;
- (17) 3000 cu. yds. furnish select material;
- (18) 6500 cu. yds. mi. haul do.;
- (19) Item 19 does not apply to Schedule 3;
- (20) 59,800 gal. road oil, furnish, haul and spread;
- (21) 22,100 sq. yds. prepare surf. mix, spread and finish oil-treat surf.;
- (22) 150 cu. yds. stock pile oil-treat. material.

WASHINGTON STATE.—Until September 26, 10 a. m., bids will be received by L. V. Murrow, State Director of Highways, Olympia, for highway construction as follows:

BENTON & FRANKLIN COS.—Construct sidewalk on Columbia River Bridge, State Road No. 3, between Kennewick and Pasco, involving 71 MFBM timber and plank (untr.); 112,000 lbs. struc. steel, etc.

OKANOGAN CO.—3.4-mi. grade and surface with crushed stone State Road No. 10, Brewster North, involving 192,820 cu. yds. excav., 21,830 cu. yds. gravel borrow, 8,430 cu. yds. crushed stone, 1092 lin. ft. pipe culverts, etc.

OKANOGAN CO.—2.9-mil grade and surface Methow Valley Highway, Pateros North, involving 85,890 cu. yds. excav., 5470 cu. yds. place crushed stone surf. from stockpiles, 447 lin. ft. pipe culverts, etc.

GRAYS HARBOR CO.—6.2-mi. surface State Road No. 13, Cosmopolols-Arctic, involving 34,850 cu. yds. cru. stone.

Specifications obtainable from above office on deposit of \$2. Certified check 5% required with bid.

COCONINO CO., Ariz.—Until Sept. 28, 2 P. M., bids will be received by C. H. Sweetser, District Engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco, to place crushed gravel base course on Seconia-Houserock Valley National Forest-Hourerock Valley National Forest Highway, Kalbab National Forest, involving:

- (1) 50 cu. yds. unclass. excav., struc.;
- (2) 28.92 mi. fine grade subgr. and shoulders;
- (3) 82,000 tons cur. gravel base course;
- (4) 4000 tons supp. cru. gravel;
- (5) 30 cu. yds. cement rubble masonry

Specifications obtainable from above office on deposit of \$10, checks certified and payable to Regional Fiscal Agent, U. S. Forest Service.

SAN BERNARDINO COUNTY, Cal.—Until September 25, 2 P. M., bids will be received by District Engineer, Department of Public Works, Division of Highways, 247 Third St., San Bernardino for surface treatment in San Bernardino County, between Camp Waterman and Burnt Mill Maintenance Station (VIII-S Bd-43-A & B) involving about 11.8 miles in length to be treated with bituminous surface. 29

SAN BERNARDINO, CO., Cal.—George Herz & Co., Platt Building, San Bernardino, awarded contract by State Highway Commission at \$7400 for highway oiling between Needles and Colorado River Bridge near Topock, 14.3 miles bituminous surface treatment to be applied. 29

SAN FRANCISCO—Bids will be asked shortly by Department of Public Works, City Hall, to improve Laidley Street, from Fairmount to San Miguel, involving:

- (1) 1038 ft. a/c curb;
- (2) 305 ft. 18-in. a/c curb;
- (3) 4350 ft. one-course concrete sidewalk;
- (4) 13,150 sq. ft. asphalt concrete pavement;
- (5) 200 sq. ft. do remove and replace.

Estimated cost \$4400. 29

WASHINGTON, D. C.—Until Oct. 2, 2 P. M., bids will be received by Treasury Department for roadway to Laboratory building at the U. S. Marine Hospital, San Francisco. Plans and specifications available from above office and from the Construction Engineer at the site. 29

NEVADA STATE.—Until September 21, 2 p. m., bids will be received by S. C. Purke, state highway engineer, Heroes Memorial Building, Carson City, Nev., for construction of portion of State Highway in Nye County, Nevada, between 33 miles and 22 miles south of Beatty, Route 5, Section D-2-O-E, involving 10.92 miles. Quantities as follows:

- (1) 28,1000 cu. yds. roadway ex.;
- (2) 5605 sta. yds. overhaul;
- (3) 835 cu. yds. structure ex.;
- (4) 10.92 mi. subgrade;
- (5) 26,900 cu. yds. crushed gravel or stone surface;
- (6) 59 cu. yds. Class B concrete;
- (7) 1,470 lbs. reinf. steel;
- (8) 298 lin. ft. 18-in. corr. metal pipe;
- (9) 396 lin. ft. 24-in. corr. metal pipe;
- (10) 146 lin. ft. 30-in. corr. metal pipe;
- (11) 196 lin. ft. 36-in. corr. metal pipe;
- (12) 26 right-of-way monuments;
- (13) 10.92 mi. finish roadway.

Specifications obtainable from above office upon deposit of \$15, \$10 of which will be refunded upon return of plans. 29

WASHOE COUNTY, Nev.—Dodge Construction, Inc., Fallon, Nevada, awarded contract at \$8,361.97 by Nevada State Highway Commission to oil 3.39 miles between Brown's and the foot of Geiger Grade, Rt. 17, Sec. A1, involving:

- (1) 71,684 gals. asph. road material, type SC-2;
 - (2) 3.39 miles road mix;
 - (3) 3.39 miles finish roadway.
- A complete list of bids will be reported later.

29

LOS ANGELES, Cal.—Until October 4, 2 p. m., bids will be received by C. H. Purcell, State Highway engineer, Department of Public Works, Public Works Building, Sacramento, for an undergrade crossing in Los Angeles county under the tracks of the Southern Pacific Railroad, 1½ miles east of El Monte, consisting of constructing two concrete abutments with wing walls, installing irrigation and drainage systems and pumping equipment and grading and paving approximately .40 miles of roadway with Portland cement concrete, involving:

- (1) 8,000 cu. yds. roadway excav.;
- (2) 14,400 cu. yds. excess rdwy excav.;
- (3) 14 lin. ft. 18-in. corr. metal pipe;
- (4) 258 lin. ft. 12-in. corr. metal pipe;
- (5) 36 lin. ft. 8-in. corr. metal pipe;
- (6) 574 lin. ft. 8-in. cast iron discharge pipe;
- (7) 180 lin. ft. 2½-in. cast iron irrigation pipe;
- (8) 2126 lin. ft. 1¼-in. cast iron irrigation pipe;
- (9) 40 each irrigation outlets;
- (10) 7135 sq. yds. subgrade for pave.;
- (11) 1500 cu. yds. class A Portland cement concrete pavement;
- (12) 51 cu. yds. class A Portland cement concrete structure;
- (13) 375 cu. yds. class A Portland cement concrete slope paving;
- (14) 238 cu. yds. class A Portland cement concrete curbs and gutters;
- (15) 714 cu. yds. class B Portland cement concrete;
- (16) 850 tons crusher run base;
- (17) 640 tons crushed gravel or stone bituminous treated surfacing;
- (18) 31 tons cutback asphalt;
- (19) 1500 lbs. cast steel catch basin covers and frames;
- (20) 64,700 lbs. bar reinforcing steel;
- (21) 1 lot pumping equipment;
- (22) 1 lot water supply equipment;
- (23) 100 lin. ft. drilling and casing well;
- (24) 1 lot remove and dispose of trees;
- (25) 1 lot miscellaneous items of work.

29

MONO COUNTY, Cal.—Until October 4, 2 p. m., bids will be received by C. H. Purcell, State Highway Engineer, Department of Public Works, Public Works Building, Sacramento, for grading and surfacing in Mono County between Crestview and 2.2 miles south of Rush Creek, about 9.7 miles in length, to be graded and surfaced with selected material and bituminous treatment applied, involving:

- (1) 315 sta. clearing and grubbing right of way;
- (2) 237,000 cu. yds. roadway excav. without classification;
- (3) 665,000 sta. yds. overhaul;
- (4) 68,000 cu. yds. imported borrow;
- (5) 2360 cu. yds. structure excav.;
- (6) 15,000 tons selected surfacing material;
- (7) 6000 gallons water;
- (8) 1500 barrels light fuel oil;
- (9) 780 tons cutback asphalt;
- (10) 60 cu. yds. class A Portland cement concrete structures;
- (11) 2100 lbs. bar reinforcing steel structures;
- (12) 134 lin. ft. 8-in. corr. metal pipe;
- (13) 50 lin. ft. 12-in. corr. metal pipe;

- (14) 2856 lin. ft. 18-in. corr. metal pipe;
- (15) 338 lin. ft. 24-in. corr. metal pipe;
- (16) 266 lin. ft. corr. metal pipe remove and salvage;
- (17) 18 each spillway assemblies complete in place;
- (18) 32 each timber guide posts complete in place;
- (19) 36 each culvert markers complete in place;
- (20) 513 sta. finishing roadway;
- (21) 118 each monuments complete in place.

29

GILA COUNTY, Arizona.—Until September 26, 10 a. m., bids will be received by Bureau of Public Roads, 802 Title and Trust Building, Phoenix, Ariz., for grading 5.247 miles Section A of Route 11, the Payson-Colecord Mt. National Forest Highway, Tonto National Forest, Gila County, Arizona, involving:

- (1) 20 acres clearing;
- (2) 39,000 cu. yds. unclass. excav.;
- (3) 460 cu. yds. unclass. excav. for structures;
- (4) 2000 sta. yds. overhaul;
- (5) 5,247 miles finishing earth graded road;
- (6) 2022 lin. ft. corr. metal pipe.

Plans and specifications available from above office upon deposit of \$10.

On previous bid opening lowest bid was submitted by All-Arizona Engineering and Construction Co., Clifton, at \$48,482.15. Complete bids published in issue of September 8, 1933.

SISKIYOU COUNTY, Cal.—Until October 4, 2 p. m., bids will be received by C. H. Purcell, State Highway Engineer, Department of Public Works, Public Works Building, Sacramento, to grade and surface with bituminous treated crushed gravel or stone, road mix method, about .8 mile at Big Canyon, involving:

- (1) 8 acres clearing and grubbing right of way;
- (2) 125,000 cu. yds. roadway excav. without classification;
- (3) 436,000 sta. yds. overhaul;
- (4) 850 cu. yds. structure excav.;
- (5) 27 cu. yds. class A Portland cement concrete structures;
- (6) 2400 lbs. bar reinforcing steel structures;
- (7) 1850 cu. yds. crusher run base;
- (8) 1225 cu. yds. crushed gravel or stone bituminous treated surfacing;
- (9) 105 tons cutback asph. bituminous treated surfacing;
- (10) 51 sta. mixing cutback asph. and crushed gravel or stone;
- (11) 125 barrels heavy fuel oil;
- (12) 48 lin. ft. 18-in. corr. metal pipe, 16 gauge;
- (13) 240 lin. ft. 18-in. corr. metal pipe, 14 gauge;
- (14) 60 lin. ft. 24-in. corr. metal pipe, 14 gauge;
- (15) 96 lin. ft. 30-in. corr. metal pipe, 14 gauge;
- (16) 156 lin. ft. 30-in. corr. metal pipe, 14 gauge, close riveted and soldered;
- (17) 160 lin. ft. 48-in. corr. metal pipe, 8 gauge;
- (18) 8 pieces 36-in. corr. metal pipe, each two feet, 14 gauge;
- (19) 435 cu. yds. concrete removed from existing pavement and struc. and disposed of;
- (20) 2305 M gallons water;
- (21) 41 sta. finishing roadway;
- (22) 15 each monuments complete in place.

29

ARIZONA STATE.—Until 2 p. m., September 26, bids will be received by State Highway Commission, Phoenix, Ariz., for N.R.H. 98-C and N.R.H. 98-D, Blythe - Wickenburg Highway. The work on N.R.H. 98-C begins at

the county line and extends easterly ten and eight-tenths (10.8) miles on N.R.H. 98-D begins approximately two-thirds (⅔) miles west of Salome and extends northwest approximately eighteen and seven-tenths (18.7) miles and consists of the grading and draining only.

The work on N.R.H. 98-C is to be completed on or before April 30, 1934.

The work on N.R.H. 98-D is to be completed on or before July 15, 1934.

The principal items are:

- N.R.H. 98-D**
- 9,700 cu. yds. roadway excav.;
 - 50,700 cu. yds. drainage excav.;
 - 2,160 cu. yds. struc. excav.;
 - 165,800 cu. yds. borrow excav.;
 - 11,150 sta. yds. earthwork overhaul;
 - 3,900 cu. yds. selected material;
 - 8,900 cu. yd. mi. selected material haul;
 - 240 M gals. water;
 - 840 cu. yds. concrete;
 - 67,000 lbs. reinf. steel;
 - 1,000 lin. ft. corr. metal pipe;
 - 2,800 lin. ft. cable guard type "A";
 - 174,400 lin. ft. standard line fence;
 - 2,600 lin. ft. reconstruct fence;
- Structures Over 20 Ft. Clear Span**
- 13,500 cu. yds. drainage excav.;
 - 6,300 cu. yds. struc. excav.;
 - 4,000 cu. yds. concrete;
 - 396,500 lbs. reinf. steel;
 - 252,400 lbs. struc. steel;
 - 229 M.B.M. treated timber;
 - 13 M.B.M. untreated timber;
 - 3,800 lin. ft. treated timber piles
 - 1,700 lin. ft. "H" column piles;
- Also pile points, test piles and water barrels.

Alternate

- 2,800 lin. ft. steel plate road guard;
- 255 M.B.M. redwood timber.

N.R.H. 98-C

- 12,500 cu. yds. roadway excav.;
 - 42,400 cu. yds. drainage excav.;
 - 2,000 cu. yds. struc. excav.;
 - 78,700 cu. yds. borrow excav.;
 - 4,800 cu. yds. selected borrow;
 - 142 M gals. water;
 - 900 cu. yds. concrete;
 - 77,300 cu. yds. reinf. steel;
 - 900 lin. ft. corr. metal pipe;
 - 96,000 lin. ft. standard line fence;
 - 6,000 lin. ft. reconstruct fence;
- Structures Over 20 Ft. Clear Span**
- 7,000 cu. yds. drainage excav.;
 - 1,600 cu. yds. struc. excav.;
 - 1,300 cu. yds. concrete;
 - 130,000 lbs. reinf. steel;
 - 82 M.B.M. treated timber;
 - 5 M.B.M. untreated timber;
 - 1,200 lin. ft. timber piles;
- Also pile points, water barrels, etc.

Alternate

- 93 M.B.M. redwood timber.
- Proposal guarantee in cash or certified check, 5%. T. S. O'Connell, State Highway Engineer.

BERKELEY, Alameda Co., Cal.—W. H. Larson, 432 Michigan Ave., Berkeley, at \$2635 submitted low bid to Berkeley Board of Education for grading and paving at the Burbank School at Curtis and Addison Streets. Following bids received:

W. H. Larson, Berkeley.....	\$2635
J. H. Filtzmaurice, Oakland.....	2784
Lee J. Immel, Berkeley.....	2817

Bids held under advisement.

BERKELEY, Alameda Co., Cal.—W. H. Larson, 432 Michigan Ave., Berkeley, at \$2,128 submitted low bid to Berkeley Board of Education for grading and paving at the Burbank School, University Ave. and Curtis Sts., Berkeley. Following bids received:

W. H. Larson, Berkeley.....	\$2,128
J. H. Filtzmaurice, Oakland.....	2,199
Lee J. Immel, Berkeley.....	2,247

Bids held under advisement.

JUNEAU, Alaska.—Stiems-Spokane Co., Realty Bldg., Spokane, Wash., at \$82,289.90 awarded contract by U. S. Bureau of Public Roads to grade

and surface 2,902-mi. Tongass Highway, Mud Bay-Point Higgins Section.

OAKLAND, Alameda Co., Cal.—City council abandons proceedings for widening of Bay Place and 26th St. Walter N. Frickstad, city engineer.

WASHINGTON STATE.—Following contracts awarded by State Highway Department for highway construction as follows:

SKAGIT CO.—L. Creelman, Seattle, at \$72,562 to grade 3.8 mi. Lake Samish Branch, State Road No. 1, Section A, State Fish Hatchery to Lake Samish, N. R. S. H. Pro. Unit 1, N. R. S.—191A.

SKAGIT CO.—L. Creelman, Seattle, at \$50,734 to grade 3.2 mi. Lake Samish Branch, State Road No. 1, Section B, State Fish Hatchery-Lake Samish.

KLICKITAT CO.—H. C. Rogers & Sons, Dayton, at \$105,888 to surface 8.3 mi. State Road No. 8, Lyle-Grand Dalles, between Lyle and Goldendale.

YAKIMA & KITTITAS COS.—F. R. Hewell, Spokane, at \$26,736 to stockpile 25,610 cu. yds. crushed stone surfacing and oil rock on 33.6 mi. State Road No. 5, Morse Creek to Carmack Bridge.

SKAGIT & WHATCOM COS.—Lich & Nolte, Bellingham, at \$13,339 to pave with Portland cement concrete 0.4 mi. State Road No. 1, Fisher's Slough to B. C. line paving gaps N. R. H. Pro. 30-A and 17, and N. R. M. Pro. 137-C and 137-E.

LOS ANGELES, Cal.—Until 10 A. M., Sept. 20, bids will be received by Board of Public Works to improve 51st St., from Central Ave. to Avalon Blvd., under Cash Contract, involving:

Grading (2982 cu. yds. cut, no fill);
104,847 sq. ft. 6-in. conc. pave.;
150 sq. ft. 8-in. conc. loc. depress.;
6 tons asph. conc. wear. surf.;
2,821 sq. ft. rock and oil rdwy.;
901 ft. unplas. light curb;
1,021 sq. ft. one-course sidewalk;
587 sq. ft. 4-in. concrete do;
(driveways);
188 sq. ft. 6-in. concrete do;
(driveways);
24 sq. ft. 6-in. conc. gutter;
sanitary sewer;
40 ft. house connection sewers;
storm drain and appurt.;

SANITARY SEWER:

40 ft. 6-in. house connection sewer;
8 manhole frame and cover sets.

STORM DRAIN:

1 catchbasin No. 39;
1 catchbasin No. 29;
39 ft. 15-in. pipe;
15 ft. 12-in. pipe;
remove 2 catchbasins;
reset 12 manholes.

SANTA ANA, Orange Co., Cal.—V. R. Dennis Constr. Co., awarded contract by Joint Highway District No. 15, Sept. 8, at \$48,044 to construct road mix oil treated surface on Sections C, D, E, and F, and a portion of Section B, Ortega Highway, in Joint Highway District No. 15.

The bids were opened August 23. The low bid of Kovacevich & Price, Inc., was rejected on account of irregularities.

LOS ANGELES, Cal.—John R. Quinn, Chairman of the Board of Supervisors, has announced that plans are being formulated by officials of county and cities of Long Beach, Redondo and Los Angeles, to construct 17-mile link of Coast Highway from Redondo to East Long Beach. Estimated cost, \$1,250,000. State appropriates \$400,000 for paving.

KLAMATH CO., Ore.—State Highway Commission cancels bid call to have been opened Sep. 16 for 4-mi.

bituminous macadam wearing surface and 6.1-mi. oil mat surface treatment, Merrill-Malin Section, The Dalles-California Highway.

SAN DIEGO, Cal.—Until 11 A. M., Sept. 28, bids will be received by the Public Works Officer, 11th Naval District, San Diego, to improve landing field at the Naval Operating Base (Air Station), San Diego. Specification No. 7435. The work will consist of (a) remove section of old asphalt macadam pavement used as a warming-up platform (approximately 88,500 sq. ft.) and the necessary grading and repaving of the area, using a one course cement concrete pavement 5 in. thick; (b) roll and recondition the major portion of existing oil-surfaced landing field.

Specifications obtainable from above office on deposit of \$10.

WASHINGTON, D. C.—Until Oct. 2, 2 P. M., bids will be received by Treasury Department for roadway to Laboratory building at the U. S. Marine Hospital, San Francisco. Plans and specifications available from above office and frame the Construction Engineer at the site.

SAN FRANCISCO—Until Sept. 20, 2:30 P. M., bids will be received by Dept. of Public Works, S. J. Hester, Chief Deputy Director, to improve Rutledge from Alabama to Peralta, involving:

(1) 150 ft. armored conc. curb;
(2) 40 ft. V.C.P. side sewer;
(3) 1125 sq. ft. class E conc. pave.

Specifications obtainable from John J. Casey, City Engineer, 3rd Floor, City Hall.

September 11, 1933.

BIDS WANTED

GLENDALE, Los Angeles Co., Cal.—Until 10 a. m., September 28, bids will be received by city council to improve Victory Blvd. between Justin Ave. and northwest city limits, under cash contract, involving:
114,000 sq. ft. 4-in. asph. conc. base;
181,800 sq. ft. 2-in. asph. conc. wear. surf.;

5,500 sq. ft. wear. surf.;
7,550 sq. ft. 6-in. conc. gutter;
3,100 lin. ft. class B curb.

The county has appropriated for this work the sum of \$25,000. J. C. Albers, city engineer.

MONTEREY CO., Cal.—Until October 4, 2 p. m., bids will be received by C. H. Purcell, State Highway Engineer, Department of Public Works, Public Works Building, Sacramento, to construct timber bridge in Monterey County across Willow Creek, about 32 miles north of San Simeon, consisting of one 76-ft. truss span, two 57-ft. truss spans and fifteen 19-ft. spans on frame bents, involving:

(1) 575 cu. yds. structure excav.;
(2) 255 cu. yds. class B Portland cement concrete;
(3) 77,000 lbs. structural metal;
(4) 211,000 ft. board measure redwood timber dense select allheart struc. grade;
(5) 93,000 ft. board measure redwood timber select allheart struc. grade;
(6) 620 cu. yds. stripping;
(7) 1 lot miscellaneous items of work.

MONTEREY COUNTY, Cal.—Until October 4, 2 P. M., bids will be received by C. H. Purcell, State Highway Engineer, Department of Public Works, Public Works Bldg., Sacramento, to construct bridge in Monterey County across Carmel River about 2 miles south of Carmel, consisting of thirteen forty-foot reinforced concrete girder spans, involving:
(1) 145 cu. yds. structure excavation;
(2) 2560 lin. ft. furnish reinforced

concrete piles including test piles;
(3) 84 each driving reinf. conc. piles, including test piles;
(4) 920 cu. yds. Class A Port. cem. conc. structure;
(5) 44 cu. yds. Class A Port. cem. conc. railing;
(6) 107,000 lbs. bar reinforcing steel;
(7) 4100 lbs. cast steel;
(8) 1 lot miscellaneous items of work.

VENTURA COUNTY, Cal.—Until October 4, 2 p. m., bids will be received by C. H. Purcell, State Highway Engineer, Department of Public Works, Public Works Building, Sacramento, to construct bridge in Ventura County across Calleguas Creek, about eight miles south of Oxnard, consisting of eight 30-foot reinforced concrete girder spans on reinforced concrete pile bents, involving:

(1) 130 cu. yds. structure excav.;
(2) 2500 cu. yds. roadway excav.;
(3) 220 tons crushed gravel or stone surfacing detour;
(4) 65 barrels heavy fuel oil detour;
(5) 235 tons asphalt concrete pave.;
(6) 1 only timber detour bridge;
(7) 1 only existing bridge to be removed and disposed of;
(8) 1 lot existing reinforced concrete pavement to be removed and disposed of;
(10) 2850 lin. ft. furnish reinforced concrete piles including test piles;
(11) 63 each driving reinforced concrete piles including test piles;
(12) 530 cu. yds. class A Portland cement concrete structure;
(13) 16 cu. yds. class A Portland cement concrete railing;
(14) 105,000 lbs. bar reinforcing steel;
(15) 3640 lbs. cast steel;
(16) 1 lot miscellaneous items of work.

SHASTA COUNTY, Cal.—Until Oct. 4, 2 P. M., bids will be received by C. H. Purcell, State Highway Engineer, Department of Public Works, Public Works Bldg., Sacramento, for grading and surfacing in Shasta County, between Diddy Hill and Montgomery Creek a total length of about 15.9 miles, about 1.5 miles to be graded, about 12.9 miles to be surfaced with crusher run base and bituminous seal coat to be applied to the surfacing over the entire project, involving:

(1) 86,000 cu. yds. rdwy. excav. without classification;
(2) 500,000 st. yds. overhaul;
(3) 1000 cu. yds. struc. excav.;
(4) 40,100 tons crusher run base;
(5) 2900 tons screenings;
(6) 235 tons asphaltic road oil;
(7) 5 cu. yds. Class A Port. cem. conc. structures;
(8) 250 lbs. bar reinf. steel struc.;
(9) 406 lin. ft. 18-in. corr. metal pipe, 16 gauge;
(10) 86 lin. ft. 36-in. do., 12 ga.;
(11) 110 lin. ft. 60-in. do, 10 ga.;
(12) 94 lin. ft. 66-in. do, 10 ga.;
(13) 2300 M. gals. water;
(14) 1075 bbls. fuel oil;
(15) 75 cu. yds. rubble masonry;
(16) 775 sta. finish rdwy.;
(17) 32 each monuments complete in place.

LINCOLN COUNTY, Nevada—Gibbons & Reed Co., Salt Lake City, Utah, awarded contract at \$134,282.88 by S. C. Durkee, State Highway Engineer, Carson City, to construct 14.37 miles between Maynard Lawe and Alamo Rt. 7, Sec. A-2, involving:
(1) 187,500 cu. yds. rowy. excav.;
(2) 84 acres clear and grub;
(3) 149,196 sta. yds. overhaul;
(4) 24,453 cu. yds. select borrow;
(5) 1570 cu. yds. struc. excav.;
(6) 14.37 miles subgrade;
(7) 34,000 cu. yds. crushed gravel or stone surf.;
(8) 120 cu. yds. Class A concrete;

- (9) 200 cu. yds. Class B concrete;
- (10) 17,700 lbs. reinf. steel;
- (11) 28,607 lin. ft. remove fence;
- (12) 1064 lin. ft. 18-in. corr. metal pipe;
- (13) 1066 lin. ft. 24-in. do;
- (14) 114 lin. ft. 30-in. do;
- (15) 414 lin. ft. 36-in. do;
- (16) 160 lin. ft. 48-in. do;
- (17) 702.5 lin. ft. 18-in. vlt. pipe;
- (18) 977.5 lin. ft. 24-in. do;
- (19) 522.5 lin. ft. 36-in. do;
- (20) 2482 lin. ft. reconstruct fence;
- (21) 47,731 lin. ft. construct fence;
- (22) 2900 cu. yds. handlaid riprap;
- (23) 240 monuments;
- (24) remove 4 buildings, lump sum;
- (25) 14.37 miles finish roadway.

A complete list of bids will be reported later.

EUREKA COUNTY, Nevada—Gibbons & Reed Co., Salt Lake City, Utah, at \$76,162.59 by S. C. Durkee, State Highway Engineer, Carson City, to reconstruct 10.15 miles Route 2, Sec. C-1, between Eureka and the East county line, involving:

- (1) 59,600 cu. yds. rdwy. excav.;
- (2) 62,518 sta. yds. overhaul;
- (3) 38,868 cu. yds. select borrow;
- (4) 1050 cu. yds. struc. excav.;
- (5) 10.15 miles subgrade;
- (6) 94 remove culvert headwalls;
- (7) 32,100 cu. yds. crushed gravel or stone surface;
- (8) 227 cu. yds. Class A concrete;
- (9) 74 cu. yds. Class B concrete;
- (10) 23,050 lbs. reinf. steel;
- (11) 222 lin. ft. 15-in. corr. metal pipe
- (12) 814 lin. ft. 18-in. do;
- (13) 146 lin. ft. 24-in. do;
- (14) 62 lin. ft. 30-in. do;
- (15) 38 lin. ft. 36-in. do;
- (16) 250 lin. ft. 8-in. perf. drain;
- (17) 242 lin. ft. remove culvert pipe;
- (18) 110 lin. ft. relay culvert pipe;
- (19) 37 cubic yards hand laid rip rap (grout);
- (20) 140 monuments;
- (21) 10.15 miles finish roadway;
- (22) 90 lin. ft. 4-in. water pipe;
- (23) 2,580 lin. ft. remove water pipe;
- (24) 820 lin. ft. relay water pipe;
- (25) 87 lin. ft. construct fence;
- (26) 1,837 lin. ft. remove fence;
- (27) 55 cu. yds. gravel backfill.

Complete list of bids will be reported shortly.

LANDER COUNTY, Nev.—Neada Rock & Sand Co., Inc., Reno, at \$85,736.66 awarded contract by S. C. Durkee, State Highway Engineer, Carson City, to construct 15.92 miles between Campbell Creek and Railroad Pass, Rt. 2, Sec. B, involving:

- (1) 75,000 cu. yds. rdwy. excav.;
- (2) 25,207 sta. yds. overhaul;
- (3) 57,118 cu. yds. selected borrow;
- (4) 1,100 cu. yds. struc. excav.;
- (5) 15.92 miles subgrade;
- (6) 50,300 cu. yds. crushed gravel or stone surf.;
- (7) 70 cu. yds. Class A concrete;
- (8) 127 cu. yds. Class B concrete;
- (9) 9,955 lbs. reinf. steel;
- (10) 116 lin. ft. 15-in. corr. metal pipe
- (11) 392 lin. ft. 18-in. do;
- (12) 2,744 lin. ft. 24-in. do;
- (13) 160 lin. ft. 30-in. do;
- (14) 214 lin. ft. 36-in. do;
- (15) 44 monuments;
- (16) 172 lin. ft. remove culvert pipe;
- (17) 36 remove culvert headwalls;
- (18) remove conc. culvert (lump sum)
- (19) 1,968 lin. ft. remove fence;
- (20) 5,506 lin. ft. reconstruct fence;
- (21) 15.92 miles finish roadway.

A complete list of bids will be reported later.

ARIZONA STATE—Until 10 A. M., Sept. 26, bids will be received by State Highway Commission, Phoenix, Ariz., for N.R.H. 80-B and D, Ashfork-Kingman Highway. The work on N.R.H. 80-B, begins near Crookton and extends westerly approx. 9 miles to

Sellgman and on N.R.H. 80-D, at the west end of N.R.H. 80-B. In Sellgman and extends northwesterly 7.4 miles, consists of placing base course and either cutback or emulsified asphalt plant mix and is to be completed on or before March 31, 1934.

- The principal items are:
- 8,200 cu. yds. strip. pits;
- 225,000 sq. yds. reshaping road surf.;
- 375 M. gals. water;
- 42,600 cu. yds. agg. base course;
- 191,600 cu. yd. ml. agg. base course haul;
- 1,500 cu. yds. shoulder material;
- 7,700 cu. yds. ml. shoulder material haul;
- 28,750 tons plant mix;
- 1,286 tons cutback asphalt;
- 15.9 miles placing plant mix;
- 1,300 cu. yds. chrenenings;
- Furnish and place oil mix for bridges placing intersection and stockpiling aggregate.

ALTERNATE

2,700 tons emulsified asphalt.

SANTA BARBARA COUNTY, Cal.

—Until October 4, 2 P. M., bids will be received by C. H. Purcell, State Highway Engineer, Department of Public Works, Public Works Bldg., Sacramento, for grading in Santa Barbara County, between Summerland and Sheffield Drive about .6 mile in length to be graded and Portland cement concrete pavement to be widened, involving:

- (1) 15,500 cu. yds. rdwy. excav. without class;
- (2) 75,000 sta. yds. overhaul;
- (3) 6500 cu. yds. selected material;
- (4) 530 cu. yds. struc. excavation;
- (5) 2850 sq. yds. subgrade for pave.;
- (6) 675 cu. yds. Class A Port. cem. conc. pave.;
- (7) 12 cu. yds. Class A Port. cem. concrete struc.;
- (8) 17,500 lbs. bar reinf. steel pave. and struc.;
- (9) 162 lin. ft. 8-in. corr. metal pipe;
- (10) 24-in. ft. 18-in. do;
- (11) 310 lin. ft. 24-in. do;
- (12) 4 cu. yds. conc. removed from existing struc.;
- (13) 1230 sq. yds. paved butters and spilyway inlet aprons;
- (14) 700 M. gals. water;
- (15) 440 bbls. fuel oil;
- (16) 2950 lin. ft. move and reset existing guard rail;
- (17) 12 each move and reset existing culvert markers;
- (18) 8 each spillway assemblies;
- (19) 2 each cast steel frames and covers for drop inlets;
- (20) 33 sta. finish rdwy.;
- (21) 38 each mounments complete in place.

EUREKA, Humboldt Co., Cal.—Bids will be asked shortly by Humboldt County Supervisors to gravel about two miles of county road between Samoa and Rolph.

SAN FRANCISCO, Cal.—M. E. Vukicevich, 666 Mission St., at \$869, awarded contract by Department of Public Works to construct stairway, Telegraph Hill, on Filbert St., from Montgomery to roadway on top of hill.

SAN FRANCISCO, Cal.—M. J. Lynch, 478 30th St., at \$960, awarded contract by Department of Public Works to construct sidewalks on Oneida Ave., from Otsego to Delano, involving 6000 sq. ft. of sidewalk. 29

SAN FRANCISCO, Cal.—Department of Public Works rejected bids to improve Brunswick Street, from Allison to Concord St., involving:

- (1) 3510 cu. yds. excav.;
- (2) 120 cu. yds. embankment.

Only bid was submitted by Chas. L. Harney, 74 New Montgomery St., at

SAN FRANCISCO, Cal.—J. B. Rogers, 110 Sutter St., at \$1.25 per foot, awarded contract by Department of Public Works to bore test holes for foundations for the Laguna Honda Home. 29

ARCADIA, Los Angeles Co., Cal.—The County Supervisors have authorized the appropriation of \$15,000 to city of Arcadia, September 11, towards the cost of paving Orange Ave. from Santa Anita Drive to east city limits of Arcadia. 29

IMPERIAL COUNTY, Cal.—V. R. Dennis Construction Co., 3311 Fifth Ave., San Diego, at \$214,690 awarded contract by State Highway Commission to pave with asphalt concrete 23.7 miles between East Highline Canal and Sand Hills.

Complete bids published Sept. 13.

SAN LUIS OBISPO, Monterey and San Benito Cos., Cal.—L. A. Brisco, Arroyo Grande, at \$20,682.05 submitted low bid to State Highway Commission to oil treat 17.2 mi. existing road-bed shoulders north and south of Cuesta Grade, 4.8 mi.; north and south of Bradley Bridge, 0.5 mi.; southerly from San Juan Bautista, 1.9 mi.; and between San Juan Bautista and 3.2 mi. north of Hollister, 10 miles, involving:

- (1) 2150 bbls. heavy fuel oil (Loc. A);
- (2) 360 bbls. do (Loc. B);
- (3) 6620 bbls. do (Loc. C).

Complete bids follow:

- (A) L. A. Brisco, Arroyo Grand, \$20,682.05.
- (B) Tiffany Constr. Co., San Jose, \$21,329.
- (C) Granite Constr. Co., Watsonville, \$21,344.30.
- (D) M. J. Bevanda, Stockton, \$22,163.
- (E) Oilfields Trucking Co., Bakersfield, \$31,486.10.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)
(1).....	\$1.885	\$2.42	\$2.15	\$2.50	\$3.47
(2).....	2.335	2.50	2.50	2.50	3.48
(3).....	2.385	2.30	2.39	2.40	3.44

ARIZONA STATE.—New Mexico Construction Co., Albuquerque, N. M., submitted low bid to T. S. O'Connell, State Highway Engineer, Phoenix, Ariz., September 12, at \$128,641.33, for highway construction on N. R. M. 24-A and N. R. H. 24-A, Flagstaff-Williams Highway. The work begins about fifteen miles west of Flagstaff and extends easterly to the pavement at Flagstaff excepting Project 24-B, consists of additional base course material, a three (3") inch plant mix oil cake and is to be completed on or before January 31, 1934. The principal items are:

- 14,000 cu. yds. stripping pits;
- 210,000 sq. yds. reshaping rd. surface;
- 1,436 M. gals. water for sprinkling;
- 10,000 cu. yds. aggregate base course;
- 64,300 cu. yds. ml. aggregate base course, haul;
- 5,800 cu. yds. shoulder material;
- 26,560 tons plant mix;
- 127 480 ton mi. plant mix haul;
- 25,700 cu. yds. ml. shoulder material haul;
- 1,560 tons cut-back asphalt;
- 14.7 ml. placing plant mix;
- 1,280 cu. yds. screenings;
- 420 sq. yds. intersections;
- 400 tons spl. plant mix for stockpiling;
- 300 cu. yds. aggregate for stockpile.

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

MENDOCINO COUNTY — BRIDGE — STATE

MENDOCINO COUNTY, Cal.—A. T. Howe, Santa Rosa, at \$26,428.50 submitted low bid to State Highway Commission to construct a bridge across Feliz Creek at Hopland, consisting of nine 38-ft. steel stringer spans with concrete decks on concrete pile bents, involving:

- (1) 300 cu. yds. struc. excav.;
(2) 1410 lin. ft. furnish reinf. conc. piles (incl. test piles);
(3) 54 drive reinf. conc. piles (incl. test piles);

- (4) 402 cu. yds. class A Port. cement concrete;
(5) 60,000 lbs. bar reinf. steel;
(6) 289,000 lbs. struc. steel;
(7) 1750 lbs. cast steel;
(8) 1 lot misc. items of work.
Complete bids follow:
(A) A. T. Howe, Santa Rosa \$26,428.50
(B) M. B. McGowan, S. F. 27,291.00
(C) Chas. Kuppinger, Lakeport 28,742.60
(D) Fred J. Maurer, Eureka 28,975.90
(E) J. P. Brennan, Redding 29,900.00

- (F) Neves & Harp, Santa Clara 29,912.80
(G) J. F. Knapp, Oakland 31,142.50
(H) Lindgren & Swinerton, Inc., S. F. 31,600.00
(I) Fredrickson & Watson, Oakland 31,890.00
(J) Barrett & Hilp, S. F. 32,390.00
(K) Rocca & Calletti, San Rafael 33,292.00
(L) Mercer, Fraser Co., Eureka 33,614.50
(M) L. C. Seidel, Oakland 33,885.00
(N) Smith Bros. Co., Eureka 38,140.70

Table with 16 columns (A-N) and 8 rows (1-8) showing unit prices for various construction items.

SHASTA COUNTY—GRADE AND SURFACE—STATE

SHASTA COUNTY, Cal.—Fredrickson & Watson, 873 81st Ave., Oakland, at \$186,243.00 submitted low bid to State Highway Commission to grade and surface with bituminous treated crushed gravel or stone about 9.1 mi. between Boulder Creek and 1.5 mi. east of Bella Vista, involving:

- (1) 60 acres clear and grub right-of-way;
(2) 275,500 cu. yds. rdwy. excav., unclass;
(3) 839,000 sta. yds. overhaul;
(4) 4323 cu. yds. struc. excav.;
(5) 31,100 tons cru. run base;
(6) 17,000 tons cru. gravel or stone (bit. tr. surf.);
(7) 925 tons cut-back asph.;
(8) 395 cu. yds. class A Port. cem. conc. (struc.);
(9) 274 cu. yds. class B do (struc);
(10) 39,000 lbs. bar reinf. steel (struc)
(11) 5000 lbs. struc. metal;
(12) 57 drive timber piles (incl. test piles);
(13) 70 MFBM redwood timber dense select all-heart struc. grade;
(14) 66 MFBM redwood timber select all-heart struc. grade;

- (15) 2000 lin. ft. furnish redwood piles incl. test piles;
(16) 2388 lin. ft. 18-in. corru. metal pipe;
(17) 692 lin. ft. 24-in. do;
(18) 288 lin. ft. 36-in. do;
(19) 296 lin. ft. 48-in. do;
(20) 695 bbls. light fuel oil;
(21) 7070 M gals. water;
(22) 136 culvert markers;
(23) 476 sta. finish roadway;
(24) 89 monuments complete in place.
Complete bids follow:

- (A) Fredrickson & Watson, Oakland \$186,243.00
(B) Union Paving Co., San Francisco 189,871.50
(C) A. Teichert, Sacramento 199,362.45
(D) Hemstreet & Bell 225,170.15
(E) T. M. Morgan Pav. Co. 240,377.80
(F) Hanrahan Const. Co., San Francisco 249,148.24
(G) Geo. Pollock, Sacto. 267,966.00
(H) D. McDonald, Sacto. 296,518.40
(I) Isbell Const. Co., Carson City, Nev. 307,424.05

Unit prices follow:

Table with 11 columns (A-I) and 24 rows (1-24) showing unit prices for various construction items.

BIDS OPENED

IMPERIAL COUNTY, Cal.—V. R. Dennis Constr. Co., 3911 5th Ave., San Diego, at \$214,690 submitted low bid to State Highway Commission to pave with asphalt concrete, 23.7 miles between East Highline Canal and San Hills, involving:

- (1) 278,000 sq. yds. asph. paint binder;
(2) 50,000 tons asph. concrete;
(3) 400 timber guide posts;
(4) 48.4 MFBM Douglas fir timber;
(5) place timber mats;
(6) 1109 sta. finish roadway;
(7) 316 monuments complete in place.

Complete bids follow:
(A) V. R. Dennis Construction Diego, \$214,690.

- (B) David H. Ryan, San Diego, \$242,369.
(C) Griffith Constr. Co., Los Angeles, \$243,667.

Unit prices follow:

Table with 3 columns (A-C) and 7 rows (1-7) showing unit prices for various construction items.

COMPLETE BID LISTING

LINCOLN CO., Nev.—As previously reported, U. B. Lee, 1059 Carpenter St., San Leandro, at \$25,539.84 awarded contract by State Highway Department, Carson City, for oiling between the junction of the Alamo-Delmar rd. and Caliente, Rt. 7, Sec. B-2, 13.13 miles, involving:

- (1) 288,943 gals. asph. road material, type SC-2;
(2) 21,189 gals. do, type MC-2;
(3) 13.13 miles road mix;
(4) 13.13 miles finish roadway.

Complete bids follow:

- (A) U. B. Lee, San Leandro \$25,539.81
(B) Dodge Construction, Inc., Fallon 25,924.95
(C) Geo. French, Jr., Stockton 29,400.00
(D) J. C. Compton & Basalt Rock Co. 31,535.91
(E) Tiffany Construction Co., San Jose 33,468.03
(F) J. A. Casson, Hayward 33,768.84
(G) M. J. Bevanda, Stockton 36,294.84
(H) Engineer's estimate 31,980.52

LOS ANGELES COUNTY—GRADE & PAVE—STATE

LOS ANGELES COUNTY, Cal.—Oswald Bros., 366 E. 58th St., Los Angeles, at \$144,668.20 submitted low bid to State Highway Commission to grade and pave with Portland cement concrete 3.8 miles between Orange Ave. and Barranca St., involving:

(1) 200 sta. clear and grub right of way;
 (2) 24,000 cu. yds. rdwy. excav., unclass.;
 (3) 270,000 sta. yds. overhaul;
 (4) 3,000 cu. yds. imp. borrow;
 (5) 2360 cu. yds. struc. excav.;
 (6) 67,000 sq. yds. subgrade (pave.);
 (7) 14,200 cu. yds. Class A Fort. cem. conc. (pave.);
 (8) 840 cu. yds. do. (struc.);
 (9) 300 cu. yds. do. (curbs);
 (10) 383,000 lbs. bar relnf. steel (pave. and struc.);
 (11) 17,000 lbs. misc. iron and steel (struc.);
 (12) 6 lin. ft. 18-in. corru. metal pipe;
 (13) 170 lin. ft. 24-in. do;
 (14) 78 lin. ft. 30-in. do;
 (15) 286 lin. ft. 30-in. std. relnf. conc. pipe;
 (16) 1150 cu. yds. salvage macadam;

(17) 800 tons broken stone bit. macadam surf.;
 (18) 70 tons grade "E" asph. bit. macadam surf.;
 (19) 1550 bbls. heavy fuel oil (shoulders);
 (20) 1 bridge, remove and dispose of;
 (21) 800 M. gals. water;
 (22) 24 culvert markers;
 (23) 200 sta. finish roadway;
 (24) 42 monuments complete in place.
 Complete bids follow:
 (A) Oswald Bros., Los Angeles\$144,668.20
 (B) Basich Bros., Torrance, 146,989.10
 (C) Griffith Construction Co., Los Angeles 147,354.80
 (D) S. L. McLain, L. A. 151,153.00
 (E) C. O. Sparks, L. A. 152,272.70
 (F) Jahn & Bressl Construction Co., Inc., L. A. 156,989.90
 (G) Sander Pierson, Santa Monica 166,919.80
 (H) South. California Road Co., L. A. 168,587.50
 (I) Weymouth-Crowell Co., Los Angeles 177,823.50

Unit prices follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
(1)	\$ 10.00	\$ 10.00	\$ 5.00	\$ 5.00	\$ 20.00	\$ 8.00	\$ 11.50	\$ 12.50	\$ 18.00
(2)	.335	.15	.25	.23	.35	.25	.35	.32	.25
(3)	.004	.005	.003	.005	.003	.005	.003	.01	.003
(4)	.45	.32	.50	.30	.60	.35	.60	.15	.58
(5)	.55	.40	.60	.50	.50	.50	.75	.60	.75
(6)	.06	.056	.07	.10	.08	.08	.07	.66	.09
(7)	5.85	6.35	6.35	6.35	6.00	6.54	6.95	7.13	7.60
(8)	13.00	13.25	14.00	15.00	13.50	16.00	14.50	16.00	14.00
(9)	9.50	10.00	11.00	13.50	12.00	16.00	14.00	14.00	13.50
(10)	.044	.045	.04	.04	.046	.04	.048	.05	.05
(11)	.0375	.05	.03	.04	.036	.10	.0525	.04	.05
(12)	1.15	1.50	2.00	1.60	2.00	1.80	2.00	2.00	2.90
(13)	2.00	2.10	2.50	2.20	2.30	2.40	2.75	2.50	3.00
(14)	2.40	2.55	3.10	3.20	3.00	3.00	3.65	3.00	3.50
(15)	3.60	3.85	4.00	4.00	4.50	4.00	4.85	4.00	4.50
(16)	2.20	2.25	1.90	1.60	1.25	1.25	2.00	1.60	1.80
(17)	2.75	1.65	1.80	2.10	2.00	2.25	2.00	1.50	2.30
(18)	21.00	38.25	17.00	18.00	20.00	20.00	19.00	18.00	21.00
(19)	1.92	2.15	1.80	2.00	2.00	2.00	2.10	1.35	2.15
(20)	100.00	100.00	250.00	300.00	250.00	250.00	109.00	125.00	130.00
(21)	.75	.25	.55	.50	1.00	.50	40.00	1.00	.70
(22)	2.00	1.80	2.50	4.00	2.00	2.50	2.50	2.00	3.50
(23)	2.00	5.00	5.00	3.00	6.00	7.00	4.00	5.00	4.50
(24)	2.50	1.50	3.00	3.00	2.00	4.00	3.00	2.50	3.50

1.21-MI. CEM. CONC. PAVEMENT — ELKO CO., NEV.

ELKO CO., Nev.—As previously reported, N. M. Ball, 1889 Yosemite Dr., Berkeley, at \$45,268.80 awarded contract by State Highway Department, to construct cement concrete pavement within the city of Elko, between west city limits and 13th St., Rt. 1, Sec. A-3, 1.21 mi., involving:

(1) 4920 cu. yds. rdwy. excav.;
 (2) 1240 sta. yds. overhaul;
 (3) 3773 cu. yds. select borrow;
 (4) 460 cu. yds. excav., struc.;
 (5) 14,200 sq. yds. subgrade for pavement;
 (6) 2950 cu. yds. cement conc. surface
 (7) 21 cu. yds. class A concrete;
 (8) 140 cu. yds. class do;
 (9) 56,400 lbs. relnf. steel;

(10) 114 lin. ft. 18-in. corru. metal pipe;
 (11) 74 lin. ft. remove pipe culvert;
 (12) 74 lin. ft. relay culvert pipe;
 (13) 2 move pipe culvert headwalls;
 (14) 202 lin. ft. remove fence;
 (15) 202 lin. ft. reconstruct fence;
 (16) 1.21 mi. finish roadway.
 Complete bids follow:
 (A) N. M. Ball, Berkeley,\$45,268.80
 (B) Union Paving Co., S. F. 50,704.92
 (C) Wheelwright Con. Co., Ogden 58,603.10
 (D) M. J. Bevanda, Stockton 60,886.74
 (E) Olof Nelson, Logan 61,373.50
 (F) Engineer's estimate 51,522.10

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)
(1)	.48	.50	1.00	.90	.50	.40
(2)	.04	.03	.05	.03	.10	.04
(3)	.60	.80	.90	1.13	1.50	.60
(4)	.75	1.50	1.00	1.50	3.00	1.00
(5)	.10	.09	.10	.12	.10	.08
(6)	10.80	11.75	13.50	13.70	13.50	13.00
(7)	20.00	30.00	31.00	22.50	28.00	25.00
(8)	18.00	25.00	26.00	21.65	28.00	27.00
(9)	.06	.06	.07	.087	.06	.045
(10)	1.50	3.00	2.50	2.40	3.00	1.25
(11)	.50	.50	1.00	.75	2.00	1.00
(12)	1.00	.25	1.00	.75	2.00	1.00
(13)	15.00	5.00	15.00	30.00	20.00	10.00
(14)	.05	.04	.10	.10	.20	.02
(15)	.10	.12	.10	.10	.30	.08
(16)	\$250.00	\$500.00	\$300.00	\$375.00	\$300.00	\$100.00

MINERAL CO., Nev.—As previously reported, J. C. Compton, McMinnville, Oregon, and Basalt Rock Co., Napa, at \$50,628.42, awarded contract by State Highway Department to oil 22.22 mi. between Dutch Creek and Schurz, involving:

(1) 8865 cu. yds. rdwy. excav., channel;
 (2) 27,000 sta. yds. overhaul;
 (3) 110 cu. yds. excav., struc.;
 (4) 107 cu. yds. class A concrete;
 (5) 11,000 lbs. relnf. steel;
 (6) 2 remove culvert headwalls;
 (7) 46 lin. ft. remove culvert pipe;
 (8) 150 cu. yds. hand-laid riprap;
 (9) 439,970 gals. asph. rd. matl., type SC-3;
 (10) 32,591 gals. do. type Mc-2;
 (11) 22.22 mi. roadmix;
 (12) 22.22 mi. finish roadway.
 Complete bids follow:
 (A) J. C. Compton, McMinnville, Ore., and Basalt Rock, Napa\$50,628.42
 (B) Dodge Constr., Inc., Fallon, Nev. 53,603.00
 (C) J. A. Casson, Oakland, Calif. 59,250.50
 (D) M. J. Bevanda, Stockton, Calif. 68,079.30
 (E) Engineer's Estimate 63,498.79

	(A)	(B)	(C)	(D)	(E)
(1)	.22	.30	.52	.75	.40
(2)	.02	.02	.02	.03	.03
(3)	1.00	1.00	1.00	1.50	1.00
(4)	15.00	30.00	22.50	30.00	28.00
(5)	.045	.07	.08	.08	.06
(6)	5.00	10.00	5.00	10.00	5.00
(7)	1.00	1.00	1.00	1.00	1.00
(8)	3.00	3.50	3.50	8.00	3.50
(9)	.0726	.07	.08	.085	.08
(10)	.10	.10	.10	.10	.09
(11)	450.00	500.00	500.00	550.00	650.00
(12)	10.00	25.00	25.00	100.00	100.00

TRINITY COUNTY, Cal. — Granfield, Farrar & Carlin, 67 Hoff St., San Francisco, at \$67,918.80 submitted low bid to U. S. Bureau of Public Roads, to grade 4.512 miles Section D, Route 5, Douglas City-Peanut National Forest Highway, Trinity National Forest, involving:

(1) 34 acres clearing;
 (2) 198,500 cu. yds. unclass. excav.;
 (3) 1900 cu. yds. do struc.;
 (4) 107,000 sta. yds. overhaul;
 (5) 4.512 miles finish earth graded rd.
 (6) 22 cu. yds. Class A concrete;
 (7) 39 cu. yds. Class B concrete;
 (8) 1900 lbs. relnf. steel;
 (9) 42 lin. ft. 8-in. 16 ga. c.g.m.p. (asph. dipped);
 (10) 1004 lin. ft. 18-in. 16 ga. c.g.m.p.
 (11) 1610 lin. ft. 24-in. 14 ga. c.g.m.p.;
 (12) 502 lin. ft. 24-in. 12 ga. c.g.m.p.;
 (13) 188 lin. ft. 30-in. 10 ga. c.g.m.p.;
 (14) 160 cu. yds. hand laid rock embankment;
 (15) 132 right-of-way monuments;
 (16) 3 each, type A, spilling inlets.
 Following bids received:
 (A) Granfield, Farrar & Carlin, San Francisco, \$67,918.80.
 (B) Young & Sons, Ltd., Berkeley, \$82,641.20.
 (C) Hemstreet & Bell, Marysville, \$103,036.20.
 (D) Engineer's Estimate, \$84,932.

Unit prices follow:

	(A)	(B)	(C)	(D)
(1)	\$200.00	\$200.00	\$300.00	\$300.00
(2)	.25	.31	.385	.30
(3)	.75	1.25	1.50	1.50
(4)	.005	.015	.02	.015
(5)	200.00	300.00	300.00	250.00
(6)	23.00	26.00	35.00	30.00
(7)	23.00	26.00	35.00	30.00
(8)	.06	.065	.07	.06
(9)	.95	1.00	1.00	.80
(10)	1.35	1.40	.40	1.30
(11)	2.00	2.10	2.00	1.90
(12)	2.45	2.75	2.75	2.50
(13)	2.90	3.50	3.50	4.90
(14)	2.50	2.50	4.00	4.00
(15)	2.00	3.00	3.00	3.00
(16)	20.00	25.00	20.00	15.00

Bids held under advisement.

12.94-MI. OILING — LYON COUNTY, NEVADA

LYON COUNTY, Nevada — As previously reported, Basalt Rock Co., Napa, Calif., and J. C. Compton, McMinnville, Ore., at \$29,256.36 awarded contract by State Highway Department to oil 12.94 mi. between two miles east of Mound House and nine miles east of Dayton, Route 2A, Sec. A2 and B, involving:

- (1) 800 cu. yds. structure excavation;
- (2) 132 lin. ft. 1-in. water pipe;
- (3) 1073 lin. ft. 1 1/4-in. do;
- (4) 42 lin. ft. 2 1/2-in. do;
- (5) 1727 lin. ft. 5-in. do;
- (6) 276,609 gals. asph. road material, type SC-2;

- (7) 20,339 gals. do, type MC-2;
 - (8) 12.94 miles road mix;
 - (9) 12.94 miles finish roadway.
- Complete bids follow:
- (A) Basalt Rock Co. and J. C. Compton, \$29,256.36.
 - (B) J. A. Casson, Hayward, \$30,108.81
 - (C) Dodge Constr. Inc., Fallon, Nev., \$30,737.34.
 - (D) Tiffany Constr. Co., San Jose, \$32,263.22.
 - (E) M. J. Bevanda, Stockton, \$37,340.61.
 - (F) Engineer's Estimate, \$33,678.44.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)
(1).....	\$ 1.00	\$ 1.50	\$ 1.50	\$ 1.50	\$ 1.50	\$ 1.00
(2).....	.40	.65	.25	.12	.25	.15
(3).....	.30	.31	.25	.25	.35	.20
(4).....	.90	1.73	1.00	.50	.55	.45
(5).....	1.10	1.12	1.50	1.00	1.00	1.00
(6).....	.061	.065	.065	.07	.075	.07
(7).....	.09	.10	.09	.10	.11	.09
(8).....	550.00	475.00	500.00	550.00	650.00	650.00
(9).....	25.00	25.00	25.00	40.00	200.00	100.00

MARIPOSA COUNTY — SURFACING — STATE

MARIPOSA COUNTY, Cal.—Fredrickson & Watson Constr. Co., 873 81st Ave., Oakland, at \$146,094.10 submitted low bid to State Highway Commission to surface with crushed gravel or stone and bituminous seal coat 15.1 miles between Orange Hill School and Mariposa, involving:

- (1) 35,000 cu. yds. rdwy. borrow excavation, unclass.;
- (2) 350 cu. yds. struc. excav.;
- (3) 176,700 sq. yds. subgrade surf.;
- (4) 87,000 tons crush. gravel or stone surface;
- (5) 1600 bbls. light fuel oil;
- (6) 280 tons asph. road oil;
- (7) 3200 tons rock screenings;
- (8) 6 cu. yds. Class A Port. cement concrete (struc.);
- (9) 250 lbs. bar reinf. steel (struc.);
- (10) 756 lin. ft. 8-in. corru. metal pipe
- (11) 30 lin. ft. 12-in. do;
- (12) 120 lin. ft. 18-in. do;
- (13) 700 lin. ft. 8-in. perf. metal pipe underdrain;

- (14) 8000 lin. ft. lam. timber guard rail;
 - (15) 700 timber guide posts;
 - (16) 50 culv. markers;
 - (17) 3550 M. gals. water;
 - (18) 796 sta. finish roadway.
- Complete bids follow:
- (A) Fredrickson & Watson, Oakland, \$146,094.10.
 - (B) Union Paving Co., San Francisco, \$173,014.40.
 - (C) A. Teichert, Sacramento, \$183,585.50.
 - (D) Basich Bros., Torrance, \$188,012.
 - (E) M. J. Bevanda, Stockton, \$197,412.10.
 - (F) J. Casson, Hayward, \$198,582.
 - (G) Hemstreet & Bell, Marysville, \$219,528.
 - (H) Clyde W. Wood, Stockton, \$235,026.
 - (I) E. B. Bishop and Chas. Harlow, Jr., Sacramento, \$242,506.90.
 - (J) Geo. Pollock, Sacramento, \$243,405.80.

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
(1) .. \$	.38	\$.25	\$.35	\$.25	\$.49	\$.50	\$.45	\$.40	\$.60	\$.50
(2) ..	1.00	1.00	1.20	1.20	2.00	1.00	2.00	.75	1.00	1.00
(3) ..	.02	.03	.04	.03	.039	.03	.04	.015	.10	.10
(4) ..	1.10	1.51	1.40	1.60	1.56	1.60	1.75	2.00	1.90	1.95
(5) ..	2.00	1.50	2.50	1.65	2.85	2.50	2.50	1.60	2.70	2.50
(6) ..	20.00	15.00	16.00	16.00	20.50	20.00	22.00	14.50	23.50	18.50
(7) ..	1.60	2.00	3.25	1.60	2.55	3.00	3.50	3.00	1.90	3.00
(8) ..	30.00	16.00	25.00	50.00	30.50	20.00	35.00	30.00	20.00	40.00
(9) ..	.06	.10	.07	.10	.12	.05	.10	.10	.08	.07
(10) ..	.85	.90	1.00	1.00	1.10	1.00	1.00	1.25	.90	1.30
(11) ..	1.25	1.00	1.25	1.50	1.20	1.50	1.50	1.60	1.60	1.50
(12) ..	2.50	1.50	1.75	2.00	1.58	2.00	1.50	2.00	1.80	2.50
(13) ..	2.40	1.00	1.00	1.50	2.00	1.10	1.50	2.00	1.50	2.50
(14) ..	.80	1.00	1.00	.80	.91	1.00	.90	1.25	.85	.90
(15) ..	3.00	3.00	3.00	2.00	2.55	1.00	2.50	3.00	2.65	1.00
(16) ..	2.50	1.00	2.25	1.50	2.45	1.00	2.00	2.00	2.35	.75
(17) ..	1.00	.20	2.00	2.00	.45	1.00	2.00	2.50	1.60	1.00
(18) ..	5.00	2.00	4.00	5.00	6.10	3.00	4.00	5.00	5.00	5.00

9.99-MI. OILING — LYON COUNTY, NEVADA

LYON COUNTY, Nev.—As previously reported, Jack Casson, 319 Warren St., Hayward, at \$20,034.07 awarded contract by State Highway Department to oil between 12 miles and two miles west of Lahontan, Route 2A, Sec. C2, 9.99 miles, involving:

- (1) 226,122 gals. asph. road material, type SC-2;
- (2) 16,540 gals. do, type MC-2;
- (3) 10.14 miles road mix;
- (4) 9.99 miles finish roadway.

- Complete bids follow:
- (A) Jack Casson, Hayward \$20,034.07
 - (B) J. C. Compton, McMinnville, Ore., and Basalt Rock Co., Napa 20,169.17
 - (C) Dodge Construction Co., Fallon, Nev. 20,375.67
 - (D) Tiffany Construction Co., San Jose 23,459.14
 - (E) M. J. Bevanda, Stockton 27,367.55
 - (F) Engineer's estimate 24,907.14

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)
(1) ..	.06	.0576	.06	.07	.075	.07
(2) ..	.10	.095	.09	.10	.11	.09
(3) ..	\$450.00	\$525.00	\$509.00	\$550.00	\$650.00	\$650.00
(4) ..	25.00	25.00	25.00	10.00	200.00	100.00

COMPLETE BID LISTING

GILA COUNTY, Ariz.—As previously reported, All-Arizona Engineering & Construction Co., Clifton, at \$48,482.15 submitted low bid to U. S. Bureau of Public Roads, Phoenix, for 5.247 mi. grading Section A, Route 11, Payson-Colcord Mt. National Forest Highway, Tonto National Forest, involving:

- (1) 20 acres clearing;
- (2) 39,000 cu. yds. unclass. excav.;
- (3) 460 cu. yds. unclass. excav., struc.;
- (4) 2000 sta. yds. overhaul;
- (5) 5.247 miles finish earth graded road;
- (6) 1106 lin. ft. 18-in. corru. metal pipe;
- (7) 114 lin. ft. 24-in. do;
- (8) 58 lin. ft. 30-in. do;
- (9) 328 lin. ft. 36-in. do;
- (10) 416 lin. ft. 60-in. do;

Complete bids follow:

- (A) All-Arizona Engr. & Constr. Co., \$48,482.15.
- (B) Leo Frost, Joseph City, \$53,109.11
- (C) H. J. Hagen, Globe, \$56,681.76.
- (D) Engineer's Estimate, \$35,504.55.

Unit bids follow:

	(A)	(B)	(C)	(D)
(1).....	\$125.00	\$200.00	\$250.00	\$100.00
(2).....	.90	1.00	1.00	.60
(3).....	2.00	3.00	2.00	1.75
(4).....	.05	.10	.10	.04
(5).....	150.00	150.00	250.00	150.00
(6).....	2.00	1.65	2.00	1.75
(7).....	2.85	2.40	3.00	2.25
(8).....	3.90	2.90	4.00	3.25
(9).....	5.80	4.37	5.00	4.50
(10).....	10.60	9.50	14.00	11.00

BIDS OPENED

WASHOE CO., Nev.—H. A. Anderson, 4600 Freeman Way, Sacramento, at \$21,314.50 submitted low bid to and recommended for award of contract by U. S. Bureau of Public Roads, San Francisco, for grading 1.304-mi. Section A, Route 1, the Lake Tahoe National Forest Highway, involving:

- (1) 8.4 acres clearing;
- (2) 25,500 cu. yds. unclass. excav.;
- (3) 190 cu. yds. unclass. excav., struc.;
- (4) 20,000 sta. yds. overhaul;
- (5) 1.304-mi. finish earth graded road
- (6) 41 cu. yds. class A conc.;
- (7) 4 cu. yds. class B do.;
- (8) 3,300 lbs. reinf. steel;
- (9) 29 cu. yds. cement rubble masonry;
- (10) 172 lin. ft. 18-in. corru. metal pipe
- (11) 92 lin. ft. 24-in. do;
- (12) 443 cu. yds. hand-laid rock emb.;
- (13) 38 right-of-way monuments;
- (14) 188 lin. ft. remove and relay exist corru. metal pipe culvert.

Complete bids follow:

- (A) H. A. Anderson, Sacramento \$21,314.50
- (B) Larsen Bros., Sacramento 26,240.20
- (C) C. G. Willis & Sons, Los Angeles 29,862.30
- (D) Engineer's estimate 20,038.20

Unit bids follow :

	(A)	(B)	(C)	(D)
(1) ..	\$100.00	\$200.00	\$100.00	\$200.00
(2) ..	.59	.75	.87	.50
(3) ..	1.25	1.00	2.00	1.00
(4) ..	.02	.03	.03	.02
(5) ..	250.00	300.00	400.00	300.00
(6) ..	30.00	30.00	36.00	30.00
(7) ..	30.00	30.00	36.00	30.00
(8) ..	.07	.08	.08	.07
(9) ..	15.00	15.00	20.00	16.00
(10) ..	2.00	2.00	2.80	1.75
(11) ..	3.00	2.50	3.80	2.25
(12) ..	3.00	3.00	3.50	4.00
(13) ..	3.00	3.00	3.00	3.00
(14) ..	1.00	1.00	2.00	1.00

SANTA BARBARA COUNTY—GRADE & PAVE—STATE

SANTA BARBARA COUNTY, Cal.—United Concrete Pipe Corporation, Box 1, Station H, Los Angeles, at \$63,367.50 submitted low bid to State Highway Commission to grade and pave with Portland cement concrete 0.8 mile Ellwood overhead approaches, involving:

- (1) 86,800 cu. yds. rdwy. excav., unclass.;
(2) 760,000 sta. yds. overhaul;
(3) 210 tons crushed run base;
(4) 225 cu. yds. struc. excav.;
(5) 9725 sq. yds. subgrade for pave.;
(6) 2085 cu. yds. Class A Port. cem. conc. (pave.);
(7) 64 cu. yds. do (struc.);
(8) 57,500 lbs. bar reinf. steel (pave. and struc.);
(9) 364 lin. ft. 8-in. corr. metal pipe;
(10) 108 lin. ft. 18-in. do;
(11) 78 lin. ft. corr. metal pipe, clean and relay;
(12) 670 cu. yds. conc. remove from exist. pave. and struc.;
(13) 11 sq. yds. paved spillway inlet apron;

- (14) 4000 M. gals. water;
(15) 950 bbls. fuel oil;
(16) 850 lin. ft. move and reset exist. guard rail;
(17) 1 exist. overhead structure to be removed;
(18) 8 culvert markers;
(19) 0.9 mile new property fence;
(20) 0.3 mile exist. fence to be removed and reset;
(21) 6 fence gates;
(22) 46 sta. finish roadway;
(23) 28 monuments complete in place.

- Complete bids follow:
(A) United Concrete Pipe Corp., Los Angeles, \$63,367.50.
(B) J. E. Haddock, Pasadena, \$67,610.85.
(C) M. J. Bevanda, Stockton, \$68,187.20.
(D) Weymouth Crowell Co., Los Angeles, \$69,891.05.
(E) Western Motor Transfer, Santa Barbara, \$82,476.34.

Table with 5 columns (A-E) and 23 rows of unit prices for various construction items like excavating, hauling, and paving.

SANTA CRUZ COUNTY—GRADING—STATE

SANTA CRUZ COUNTY, Cal.—Union Paving Company, Call Building, San Francisco, at \$67,467.85 submitted low bid to State Highway Commission to grade about 0.8 mile between one mile north of Inspiration Point and Inspiration Point, involving:

- (1) 250,500 cu. yds. rdwy. excav., unclass.;
(2) 730,000 sta. yds. overhaul;
(3) 1500 M. gals. water;
(4) 1520 cu. yds. struc. excav.;
(5) 10 cu. yds. Class A Port. cem conc. (struc.);
(6) 650 lbs. bar rein. steel (struc.);
(7) 590 lin. ft. 8-in. corr. metal pipe;
(8) 1278 lin. ft. 18-in. do;
(9) 280 lin. ft. 24-in. do;
(10) 1290 lin. ft. 8-in. perf. metal pipe (underdrain);
(11) 2 miles new property fence;

- (12) 6 gates complete in place;
(13) 1200 tons crushed run base;
(14) 5 tons emulsi. asph. road oil;
(15) 250 natural rock asphalt;
(16) 1000 lin. ft. lam. timber guard rail;
(17) 60 cu. yds. Port. cem. conc. remove from existing pavement;
(18) 41 sta. finish roadway.
(A) Union Paving Co., S. F., \$67,467.85
(B) Mitty Bros., L. A., 69,457.25
(C) M. J. Bevanda, Stockton 70,574.50
(D) Crow Bros., L. A., 73,934.74
(E) Granfield, Farrar & Carlin, S. F., 84,825.86
(F) C. W. Wood, Stockton, 86,927.10
(G) Fredrickson & Watson, 89,129.40
(H) J. L. Connor and K. Kristich, Monterey, 111,353.84
(I) McDonald & Kahn, S. F., 111,574.80

Table with 9 columns (A-I) and 18 rows of unit prices for grading and paving work.

COMPLETE BID LISTING

COCONINO CO., Ariz.—As previously reported, Haddock & Lindberg, 357 N. Hester Ave., Pasadena, at \$168,495 submitted low bid to U. S. Bureau of Public Roads, Phoenix, to grade 9.638-mi. Section G, Rt. 7, the Oak Creek National Forest Highway, Coconino National Forest, involving:

- (1) 50 acres clearing;
(2) 88,000 cu. yds. unclass. excav.;
(3) 2,027 cu. yds. do., struc.;
(4) 26,000 cu. yds. unclass. excav. borrow;
(5) 50,000 sta. yds. overhaul;
(6) 6.677-mi. finish earth gr. road;
(7) water plant;
(8) 2500 M gal. watering;
(9) 828 cu. yds. class A concrete;
(10) 120 cu. yds. class B do;
(11) 115 cu. yds. class D do;
(12) 32,500 lbs. reinf. steel;
(13) 674 lin. ft. 18-in. corr. metal pipe;
(14) 710 lin. ft. 24-in. do;
(15) 144 lin. ft. 30-in. do;
(16) 384 lin. ft. 36-in. do;
(17) 134 lin. ft. 42-in. do;
(18) 36 lin. ft. 48-in. do;
(19) 25 cu. yds. hand laid riprap;
(20) 6,424 lin. ft wood guard rail;
(21) maintain exist. roads;
(22) 18,700 cu. yd. mi. borrow haul;
(23) 332 lin. ft. remove, clean and stockpile corr. metal pipe;
(24) 29,500 lin. ft. protection ditch;
(25) 18,200 lin. ft. fence;
(26) 3 farm entrance gates;
(27) 3 cattle guards 30-ft. 2 1/2-in.;
(28) 72 right-of-way monuments;
(29) 1 cattle guard 15-ft. 1 1/2-in.

- Complete bids follow:
(A) Haddock & Lindberg, Pasadena, \$168,495.00
(B) Hodgman & MacVicar, Pasadena, 187,095.62
(C) Engineer's estimate, 144,559.10

Table with 3 columns (A-C) and 29 rows of unit bids for various construction items.

BIDS OPENED

MONTEREY COUNTY, Cal.—Granite Constr. Co., Watsonville, at \$31,068.50 submitted low bid to State Highway Commission to apply bituminous surface treatment over 7.4 miles at various locations between San Ardo and King City:

- (1) 6500 tons screenings;
(2) 215 tons emulsified asph. road oil;
(3) 520 bbls. heavy fuel oil.
(A) Granite Constr. Co., Watsonville, \$31,068.50.
(B) Tiffany Constr. Co., San Jose, \$32,127.50.
(C) M. J. Bevanda, Stockton, \$40,175.

Table with 3 columns (A-C) and 3 rows of unit prices for bid opening items.

MONO COUNTY, GRADE AND SURFACE—STATE

MONO COUNTY, Cal.—Hemstreet & Bell, Marysville, at \$46,147.50 submitted low bid to State Highway Commission to grade, surface with selected material, and apply a bituminous treatment over 3.7 mi. between Sherwin Hill Summit and Whiskey Canyon, involving:

- (1) 63,200 cu. yds. rdwy. excav., unclass.
- (2) 65,000 sta. yds. overhaul;
- (3) 10 cu. yds. struc. excav.;
- (4) 4400 cu. yds. sel. surf. material;
- (5) 3.67 mi. mix bit. binder and surf. material;
- (6) 110 bbls. light fuel oil;
- (7) 290 tons cut-back asph. road oil;

- (8) 470 lin. ft., H type surf. culvert;
- (9) 75 remove and reset guide posts;
- (10) 700 M. gals. water;
- (11) 8.35 MFPM redwood timber select all-heart struc. grade;
- (12) 194 sta. finish roadway.

- Complete bids follow:
- (A) Hemstreet & Bell, Marysville, \$46,137.50.
 - (B) Larsen Bros., Sacramento, \$47,598.50.
 - (C) Kennedy Constr. Co., Oakland, \$59,936.
 - (D) Southwest Paving Co., Los Angeles, \$61,715.95.
 - (E) Basich Bros., Torrance, \$64,257.35

unit prices follow:

	(A)	(B)	(C)	(D)	(E)
(1).....	\$.48	\$.48	\$.69	\$.67	\$.70
(2).....	.01	.02	.01	.01	.007
(3).....	2.50	1.00	2.00	1.80	1.50
(4).....	.50	.50	.69	1.05	1.25
(5).....	700.00	500.00	600.00	510.00	480.00
(6).....	3.50	4.00	2.50	3.00	2.80
(7).....	22.00	30.00	22.50	25.70	25.00
(8).....	1.25	.50	1.50	.95	1.25
(9).....	2.00	.50	1.00	1.25	1.00
(10).....	1.50	1.00	1.00	2.50	3.00
(11).....	100.00	100.00	140.00	140.00	125.00
(12).....	5.00	5.00	5.00	5.00	4.75

BUTTE COUNTY—BRIDGE—STATE

BUTTE COUNTY, Cal.—F. A. Amoroso & Sons, Wallace and Keith Sts., San Francisco, at \$59,930.20 submitted low bid to State Highway Commission to construct a reinforced concrete bridge across west branch of Feather River about 14 mi. north of Oroville consisting of one 155-ft. open spandrel arch span, three 40-ft. concrete girder spans and six 33-ft. concrete girder spans, involving:

- (1) 2000 cu. yds. struc. excav.;
- (2) 1345 cu. yds. class A Port. cem. conc. (struc.);
- (3) 265 cu. yds. do (arch and rib);
- (4) 33.5 cu. yds. do (railing);
- (5) 300,000 lbs. mar reinf. steel;

- (6) 512 lbs. bronze expansion plates;
 - (7) 1 lot miscellaneous items of work.
- Complete bids follow:

- (A) Amoroso & Sons, San Francisco, \$59,930.20
- (B) Rocca & Calletti, San Rafael, 62,644.90
- (C) Neves & Harp, Santa Clara, 63,111.50
- (D) Bodenhamer Const. Co., Oakland, 69,738.60
- (E) Lord & Bishop, Sacramento, 70,974.80
- (F) M. B. McCowan, S. F., 73,215.00

Unit prices follow:

	(A)	(B)	(C)	(D)	(E)	(F)
(1).....	\$ 2.70	\$ 1.00	\$ 2.00	\$ 4.00	\$ 2.50	\$ 5.00
(2).....	23.00	22.52	24.50	28.00	30.00	24.00
(3).....	27.00	28.30	40.00	30.00	30.00	43.00
(4).....	58.00	50.00	50.00	50.00	60.00	50.00
(5).....	.045	.0478	.044	.045	.047	.05
(6).....	.35	.50	.25	.30	.40	.50
(7).....	470.00	4285.00	257.00	500.00	1000.00	2309.00

IMPROVE ARIZONA DRIVE — EL SEGUNDO

EL SEGUNDO, Los Angeles Co., Cal.—J. L. McClain, 5850 Brynhurst Ave., Los Angeles, submitted low bid to city council Sept. 6 at \$103,129.81 to improve Arizona Drive (State Highway No. 60), under the Municipal Improvement Act of 1927.

The bids were taken under advisement until Sept. 13. The items are:

- (1) clear right of way;
- (2) 96,000 cu. yds. earth work excav.;
- (3) 431,965 sq. ft. subgrade;
- (4) 431,965 sq. ft. 7-in. full penetration two-course asph. mac. pave.;

- (5) 1131 lin. ft. 18-in. corr. iron drainage pipes;
- (6) 3 standard headwalls;
- (7) 8 standard catch basins;
- (8) 3000 bbls. heavy fuel oil;
- (9) extra work.

R. T. Hutchins, city engineer.

The total bids were:

- (A) J. L. McClain, \$103,129.81
- (B) Kovacevich & Price, Inc 115,456.53
- (C) L. A. Paving Co., 121,941.55
- (D) Oswald Bros., 130,133.21
- (E) C. O. Sparks, 133,874.13
- (F) Griffith Co., 136,430.50

	(A)	(B)	(C)	(D)	(E)	(F)
(1).....	\$ 500.00	\$3000.00	\$2000.00	\$1000.00	\$ 200.00	\$2000.00
(2).....	.20	.255	.42	.40	.50	.42
(3).....	.007	.015	.01	.01	.015	.02
(4).....	.17	.17	.16	.184	.17	.18
(5).....	2.00	3.00	2.50	2.00	2.60	2.50
(6).....	20.00	50.00	50.00	20.00	20.00	30.00
(7).....	75.00	100.00	60.00	70.00	120.00	90.00
(8).....	1.75	1.75	1.75	2.15	1.40	2.20
(9).....	15%	15%	15%	15%	7½%	15%

ELKO CO., Nev.—As previously reported, Wheelwright Construction Co., Ogden, Utah, at \$12,284 awarded contract by State Highway Department, Carson City, to construct overpass over the Western Pacific Railway near Silver Zone, Rt. 1, Sec. G-2, 0.04 mile, involving:

- (1) 200 cu. yds. rdwy. excav.;
- (2) 500 cu. yds. excav., struc.;
- (3) 130 cu. yds. Class A concrete;
- (4) 200 cu. yds. Class D concrete;
- (5) 36,000 lbs. structure steel;
- (6) 58,000 lbs. reinf. steel;
- (7) surface approaches (lump sum);
- (8) 0.04 mile finish roadway.

Complete bids follow:

- (A) Wheelwright Con. Co., Ogden, \$12,284.00
- (B) Jas. J. Burke, Salt Lake City, 14,285.00
- (C) M. J. Bevanda, Stockton 20,435.00
- (D) Engineer's estimate, 16,094.00

Unit bids follow:

	(A)	(B)	(C)	(D)
(1).....	.75	1.00	1.10	.25
(2).....	1.75	1.65	1.85	1.00
(3).....	19.00	23.00	28.00	26.00
(4).....	18.50	24.00	30.00	28.00
(5).....	.057	.07½	.11	.08
(6).....	.05	.045	.09	.06
(7).....	.....	.....	.....	.....
(8).....	\$300.00	\$500.00	\$500.00	\$100.00

SAN RAFAEL, Marin Co., Cal.—Emil Renati, Novato, at \$2516.25 awarded contract by county supervisors to construct one reinforced concrete bridge at Thompson Ranch, Hicks Valley, on Point Reyes-Petaluma Road, Road District No. 5, involving:

- (1) 140 cu. yds. Class A Port. cement concrete;
- (2) 16,100 lbs. reinf. steel.

Complete bids follow:

- (A) E. Renati, Novato, \$2516.25.
- (B) Whited & Whited, Santa Rosa, \$2736.30.
- (C) T. J. Doyle, San Francisco, \$2737.
- (D) J. Carcano, San Rafael, \$2840.95
- (E) Louis Lambretti, Mill Valley, \$2943.50.
- (F) Otis H. Smith, San Anselmo, \$3099.04.
- (G) A. Soda & Sons, Oakland, \$3339.42
- (H) Leo Epp, San Francisco, \$4113.90

Unit bids follow:

	(1)	(2)
(A).....	\$13.40	.0425
(B).....	13.37	.045
(C).....	13.65	.06
(D).....	15.75	.0395
(E).....	14.70	.055
(F).....	16.80	.0464
(G).....	19.00	.0422
(H).....	23.75	.049

WASHOE CO., Nev.—H. A. Anderson, 4600 Freeman Way, Sacramento, at \$7950 submitted low bid to and recommended for award of contract by U. S. Bureau of Public Roads, a San Francisco, to place 5.536-mi. selected material for surfacing on Sections B, C and D, Route 1, the Lake Tahoe National Forest Highway, Tahoe National Forest, involving:

- (1) 2000 cu. yds. unclass. excav., borrow;
- (2) 1 mi. fine grading;
- (3) 7500 cu. yds. selected material.

Complete bids follow:

- (A) H. A. Anderson, Sacramento, \$7,950
- (B) Larsen Bros., Sacramento, 9,200
- (C) Tieslau Bros., Berkeley, 10,325
- (D) Engineer's Estimate, 10,475

Unit bids follow:

	(A)	(B)	(C)	(D)
(1).....	.40	.75	.55	.50
(2).....	\$200.00	\$200.00	\$300.00	\$100.00
(3).....	.90	1.00	1.19	1.25
				29

BIDS OPENED

KERN COUNTY, Cal.—Union Paving Company, Call Building, San Francisco, submitted low bid to State Highway Commission to grade and pave with asphalt concrete 2.1 miles between Pierce Road and Tank Farm, involving:

- (1) 33,000 cu. yds. rdwy. excav., un-class.;
(2) 662,000 sta. yds. overhaul;
(3) 98,700 cu. yds. imp. borrow;
(4) 1850 cu. yds. struc. excav.;
(5) 36,000 cu. yds. subgrade for pave.
(6) 15,850 cu. yds. asph. concrete;
(7) 80 cu. yds. Class A Port. cem. conc. (struc.);
(8) 1,000 lbs. reinf. steel (struc.);
(9) 174 lin. ft. 8-in. corru. metal pipe
(10) 654 lin. ft. 18-in. do;
(11) 386 lin. ft. 24-in. do;
(12) 18 ea. conc. joints comp. in place
(13) 280 lin. ft. 24-in. plain conc. pipe;
(14) 260 lin. ft. 12-in. std. reinf. conc. pipe;
(15) 46 lin. ft. 24-in. do;
(16) 20 cu. yds. drainage sumps;
(17) 70 tons crusher run base;
(18) 2800 tons gravel or stone (bit. treated surf.).
(19) 125 tons cut-back asphalt;
(20) 11,150 M. gals. water;
(21) 150 bbls. fuel oil, penctr. method;
(22) 900 bbls. fuel oil mix. method;
(23) 0.5 mile property fences, remove and dispose of;
(24) 2.5 miles new property fences;
(25) 9 each gates complete in place;
(26) 3675 lin. ft. lam. timber guard rail;
(27) 20 lin. ft. erect timber rail and wheel guard;
(28) 14 each timber culvert markers;
(29) 111 sta. finish roadway;
(30) 30 each monuments complete in place.

Complete bids follow:

- (A) Union Paving Company, San Francisco\$ 97,061.25
(B) Basich Bros., Torrance.. 101,255.05
(C) Gogo & Rado, Los Angeles 115,781.25
(D) Heuser & Garnett, Glendale 115,910.85

Union bids follow:

Table with 4 columns (A, B, C, D) and 30 rows of bid amounts for various construction items.

SONOMA & MENDOCINO COUNTIES—GRAVEL—STATE

SONOMA & MENDOCINO COUNTIES, Cal.—Basich Bros., Torrance, at \$115,405.00 submitted low bid to State Highway Commission to surface with gravel base 13.9 miles between Cloverdale and Hopland, involving:

- (1) 150,000 cu. yds. slope excav. (un-class.);
(2) 2,000,000 sta. yds. overhaul;
(3) 123,000 tons gravel base;
(4) 500 bbls. asph. road oil.
Complete bids follow:
(A) Basich Bros., Torrance..\$115,405.00

Table with 8 columns (A-H) and 4 rows of bid amounts for gravel projects.

- (E) Peninsula Paving Co., San Francisco 128,230.00
(C) Granfield, Farrar & Carlin, San Francisco... 128,650.00
(D) Fredrickson & Watson, Oakland 143,550.00
(E) A. Teichert & Son, Sacramento 157,475.00
(F) Geo. Pollock & Co., Sacramento 197,525.00
(G) C. W. Wood, Stockton.. 198,725.00
(H) Hein Bros. Basalt Rock Co. and Geo. French, Jr., Petaluma 238,225.00

MARIN & SONOMA COS. TRESTLE APPROACH—STATE

MARIN AND SONOMA COS., Cal.—Alfred H. Vogt Company, 251 11th St., San Francisco, at \$20,957.40 submitted low bid to State Highway Commission to repair east timber trestle approach to a bridge across Petaluma Creek at Green Point, consisting of replacing defective stringers and bracing and reconstructing floor and railing and paving with asphalt concrete, involving:

- (1) 145 M. ft. B. M. old timber, remove and dispose of;
(2) 48 M. ft. B. M. Douglas firm timber, sel. struc. grade (stringers, bridging and bracing);
(3) 137 M ft. B. M. Douglas fir timber, sel. struc. grade (lam. floor, floor plank and headers);
(4) 40 M ft. B. M. redwood timber, dense sel. all-heart struc. grade;

- (5) 7 M ft. B. M. redwood timber, sel. do;
(6) 220 tons asph. conc. surf.;
(7) 9600 lbs. struc. metal;
(8) 1125 lin. ft. temporary timber guardrail;
(9) 1 lot misc. items of work.
Complete bids follow:
(A) Alfred H. Vogt Co., San Francisco, \$20,957.40.
(B) Rocca & Caletti, San Rafael, \$23,164.05.
(C) F. J. Main, Fairfax, \$23,852.
(D) F. C. Amoroso & Sons, San Francisco, \$25,868.
(E) M. B. McGowan, San Francisco, \$25,977.
(F) Lindgren & Swinerton, San Francisco, \$29,249.60.
(G) Neves & Harp, Santa Clara, \$29,567.
Unit bids follow:

Table with 8 columns (A-G) and 9 rows of bid amounts for trestle approach projects.

PLUMAS COUNTY — BRIDGE — STATE

PLUMAS COUNTY, Cal. — Lynch-Cannon Engineering Company, 5658 Wilshire Blvd., Los Angeles, at \$23,251.10 submitted low bid to State Highway Commission to construct a bridge across North Fork of Feather River at Howells, consisting of an 130-foot through steel arch span with concrete deck, involving:

- (1) 133 cu. yds. Class "A" Port. cem. concrete;
(2) 16,550 lbs. bar reinf. steel;
(3) 246,170 lbs. struc. steel;
(4) 4708 lbs. cast bearings;
(5) 1 lot misc. items of work.
Complete bids follow:

- (A) Lynch-Cannon Engr. Co., Los Angeles, \$23,251.10.
(B) Baldwin & Butler, Berkeley, \$23,701.75.
(C) Lord & Bishop, Sacramento, \$23,737.20.
(D) J. W. Hoopes, Sacramento, \$23,741.68.
(E) Rocca & Colletti, San Rafael, \$24,106.10.
(F) Smith Bros. Co., Eureka, \$25,003.72
(G) H. Sneed, Berkeley, \$25,628.20.
(H) Paul White Co., Santa Monica, \$27,283.40.
(I) M. B. McGowan, San Francisco, \$27,698.00.
Unit bids follow:

Table with 9 columns (A-I) and 5 rows of bid amounts for Plumas County bridge projects.

SOLANO AND NAPA COUNTIES — GRADING — STATE

SOLANO & NAPA COS., Cal.— Granfield, Farrar & Carlin, 67 Hoff St., San Francisco, at \$383,769.15 submitted low bid to State Highway Commission to grade 10.3 miles between Carquinez Bridge and Cordelia, involving:
(1) 223 remove and dispose of trees;
(2) 1,166,000 cu. yds. rdwy. excav. unclass.;
(3) 14,000,000 sta. yds. overhauled;
(4) 10,800 cu. yds. struc. excav.;
(5) 650 cu. yds. Class "A" Port. cem. conc. (struct.);
(6) 35,500 lbs. bar reinf. steel (struc);
(7) 702 lin. ft. 8-in. corr. metal pipe; 16 ga.;
(8) 3710 lin. ft. 18-in. do;
(9) 1710 lin. ft. 24-in. do, 14 g.;
(10) 846 lin. ft. 30-in. do;
(11) 178 lin. ft. 36-in. do, 12 ga.;

(12) 246 lin. ft. 42-in. do, 10 ga.;
(13) 394 lin. ft. 48-in. do, 9 ga.;
(14) 168 lin. ft. 60-in. do, 10 ga.;
(15) 152 lin. ft. 66-in. do;
(16) 118 lin. ft. 66-in. do, 8 ga.;
(17) 110 lin. ft. 84-in. do;
(18) 232 lin. ft. 96-in. do;
(19) 168 lin. ft. corr. metal pipe, clean and relay;
(20) 413 lin. ft. salvage exist. culverts
(21) 18,600 M gal. water;
(22) 1,950 tons untreated crush. gravel or stone surf.;
(23) 0.4 mile move and reset fences;
(24) 20.5 miles new property fence;
(25) 80 fence gates;
(26) 1,350 lin. ft. solid timber guard rail;
(27) 544 sta. finish roadway;
(28) 170 monuments complete in place
(29) 120 MFBM redwood timber, dense

select all-heart struc. grade;
(30) 128 MFBM redwood timber, select all-heart struc. grade.
Complete bids follow:
(A) Granfield, Farrar & Carlin, S. F. \$383,769.15
(B) Fredrickson & Watson, Oakland 409,918.20
(C) Jahn & Bressi, L. A.* 406,585.00
(D) Mitty Bros., L. A. 418,471.20
(E) C. W. Wood, Stockton 426,661.60
(F) Hemstreet & Bell, Marysville 446,964.00
(G) Guy F. Atkinson, S. F. 465,131.80
(H) Geo. Pollock, Sacto. 465,452.10
(I) Union Paving Co., S. F. 563,451.21
(J) C. R. Adams, Piedmont. 579,359.40
(K) Isbell Const. Co., Carson City 589,375.50
(L) Utah Const. Co., S. F. 718,644.70
Unit prices follow:

Table with columns (A) through (L) and rows (1) through (30) listing unit prices for various grading items.

*Note: Jahn & Bressi should appear as second low bid in tabulation.

MADERA COUNTY — BRIDGE — STATE

MADERA COUNTY, Cal.— F. O. Bohnett, Campbell, at \$32,951.00 submitted low bid to State Highway Commission to construct a timber bridge across Ash Slough 0.5 mi. north of Chowchilla, consisting of thirty-four 10-ft. spans on pile bents, involving:
(1) 80 cu. yds. struc. excav.;
(2) 400 cu. yds. rdwy. excav. unclass.
(3) 1 only exist. bridge remove;
(4) 5580 lin. ft. furnisb redwood plies incl. test pile;
(5) 218 drive redwood plies incl. test piles;

(6) 157 MFBM redwood timber, dense select all-heart struc. grade;
(7) 87 MFBM redwood timber, select all-heart struc. grade;
(8) 380 cu. yds. Class "A" Port. cem. conc. (deck slab);
(9) 110 cu. yds. do (pave widen);
(10) 58,000 lbs. bar reinf. steel (pave and struc.);
(11) 1 lot misc. items of work.
Complete bids follow:
(A) F. O. Bohnett, Campbell \$32,951.00
(B) Carl N. Swenson Co., San Jose 33,785.40

(C) J. F. Knapp, Oakland 35,240.00
(D) M. A. Jenkins, Sacto. 36,488.00
(E) Straub Bros. and Sea-brook, Bakersfield 36,853.90
(F) Lord & Bishop, Sacto. 37,447.20
(G) M. B. McGowan, S. F. 37,698.00
(H) J. P. Brennan, Redding 37,699.40
(I) Neves & Harp, Santa Clara 37,876.20
(J) A. W. Kitchen Co., S. F. 38,128.20
(K) Associated Contractors, Los Angeles 43,997.00
Unit prices follow:

Table with columns (A) through (K) and rows (1) through (11) listing unit prices for bridge construction items.

IMPERIAL COUNTY, Cal.—V. R. Dennis Construction Co., 3911 Fifth Ave., San Diego, at \$21,520 submitted low bid to State Highway Commission to construct oil treated crushed gravel or stone borders over 6.9 miles between Holtville and East Highline

Canal, involving:
(1) 6500 tons crushed gravel or stone (borders);
(2) 1620 bbls. heavy fuel oil (borders).
Complete bids follow:
(A) D. R. Dennis Construction Co., San Diego \$21,520

(B) R. E. Hazard, San Diego 24,690
(C) Griffith Construction Co., San Diego 26,575
(A) (B) (C)
(1) \$2.75 \$3.30 \$3.90
(2) 2.25 2.00 2.00

PLACER COUNTY — GRADE AND PAVE — STATE

ALAMEDA, Cal.—Heafey Moore Co., 344 High St., Oakland, at prices shown below awarded contract by city council to improve Park St. from Santa Clara Ave. to Buena Vista Ave., involving:

- (1) 370 cu. yds. excavation;
 - (2) 300 tons crusher run base;
 - (3) 650 tons asph. conc. base;
 - (4) 375 tons asph. conc. surf.;
 - (5) 50 tons non-skid surf.
- Complete bids follow:
- Heafey Moore(1) \$.90
 (2) 1.80
 (3) 3.90
 (4) 4.40
 (5) 4.30
 Ransome Co.(1) \$.50
 (2) 1.50
 (3) 4.50
 (4) 4.73
 (5) 2.80
 Engineer's estimate, \$5002.53.

LOS ANGELES, COUNTY, Cal.—Alex D. Chalmers and Max Winter, Jr., 2925 Knox Ave., Los Angeles, submitted low bid to the Department of Public Works, Division of Highways, at the office of S. V. Cortelyou, District Engineer, Los Angeles, Sept. 5, at \$12,801.50, for highway construction in Los Angeles County, between Vasquez Rock Road and 2 miles easterly 1.8 miles, bituminous surface treatment to be applied, and a distance of about 0.2 mile to be graded and surfaced with waterbound macadam base and bituminous macadam surfee, involving:

- (1) Clear and grub right-of-way;
 - (2) 6300 cu. yds. rdwy. excav., unclass;
 - (3) 4550 mil. yds. overhaul;
 - (4) 2425 sq. yds. subgrade water-bound mac. base;
 - (5) 560 tons broken stone do;
 - (6) 280 tons broken stone (bit. mac. surf.);
 - (7) 1700 tons screenings do;
 - (8) 90 tons asph. road oil;
 - (9) 110 cu. yds. conc. remove from exist. pave.;
 - (10) 11 sta. finish rdwy.;
 - (11) 20,000 sq. yds. paint binder.
- The total bids were:

- (A) Alex D. Chalmers and Max Winter Jr., \$12,801.50.
- (B) H. E. Cox & Son, \$14,687.50.
- (C) Thos. C. Rogers, \$18,286.25.

The unit bids were:

	(A)	(B)	(C)
(1).....	\$40.00	\$150.00	\$400.00
(2).....	.29	.50	.50
(3).....	.02	.12	.25
(4).....	.08	.10	.15
(5).....	3.30	3.40	4.00
(6).....	3.30	3.25	4.00
(7).....	3.28	3.00	4.30
(8).....	20.10	20.00	22.00
(9).....	.75	2.50	2.00
(10).....	10.00	10.00	15.00
(11).....	.015	.025	.025

ORANGE & LOS ANGELES COS., Cal.—Kovacevich & Price, South Gate, at \$24,511.00 submitted low bid to State Highway Commission to oil treat 31.0 miles of existing roadbed shoulders between Doheny Park and Galivan, 7.8 miles; between Fullerton and Los Angeles-Orange county line, 4.7 mi.; between Arroyo Ave. and Pomona, 6.1 miles; between the Coast Blvd. and Newport, 1.3 miles; between Newport and Laguna, 7.2 miles, and between Laguna and Dana Point, 3.9 miles, involving: 12,700 bbls. heavy fuel oil.

- Complete bids follow:
- (A) Kovacevich & Price, South Gate\$24,511.00
 - (B) Matich Bros. and Geo. Gardner, Elsinore 25,146.00
 - (C) Dimmitt & Taylor, L. A. 28,321.00
 - (D) C. W. Wood, Stockton.... 28,805.00

Unit prices follow:

	(A)	(B)	(C)	(D)
(1)	\$1.93	\$1.98	\$2.23	\$2.25

- PLACER COUNTY, Cal.—T. M. Morgan Paving Co., 5410 Wilshire Blvd., Los Angeles, at \$231,057.40 submitted low bid to State Highway Commission to grade and pave with Portland cement concrete and asphalt concrete 5.2 miles between Loomis and Newcastle, involving:
- (1) 50 acres clear and grub right-of-way;
 - (2) 148,000 cu. yds. rdwy. excav., unclass;
 - (3) 744,000 sta. yds. overhaul;
 - (4) 5800 cu. yds. struc. excav.;
 - (5) 59,000 sq. yds. subgrade for pave;
 - (6) 3850 cu. yds. class A Port. cem. conc. (pave.);
 - (7) 145 cu. yds. do (struc);
 - (8) 95,000 lbs. bar. reinf. steel (pave. and struc.);
 - (9) 600 pavement tie bars;
 - (10) 17,000 tons asph. conc.;
 - (11) 2450 tons cur. gravel or stone (bit. tr. surf.);
 - (12) 125 tons cut-back asph.;
 - (13) 6500 tons cru. gravel or stone (borders, road appr. and detours)
 - (14) 30 tons asph. road oil (bit surf. tr.);
 - (15) 310 bbls. heavy fuel oil (detours)
 - (16) 0.9 mi. road mix. detour surf.;
 - (17) 310 bbls. light fuel oil (borders and dust oil);
 - (18) 650 tons screenings;
 - (19) 2600 M gals. water;
 - (20) 624 lin. ft. 8-in. pref. metal pipe underdrains;
 - (21) 1278 lin. ft. 12-in. corru. metal pipe (close riveted & soldered);
 - (22) 1826 lin. ft. 12-in. do;
 - (23) 2326 lin. ft. 18-in. do;

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
(1).....	\$100.00	\$100.00	\$ 60.00	\$100.00	\$ 60.00	\$100.00	\$ 50.00	\$100.00
(2).....	.45	.31	.37	.49	.40	.40	.55	.60
(3).....	.005	.005	.005	.005	.005	.01	.007	.01
(4).....	.75	1.20	1.50	1.50	1.00	1.25	1.25	.70
(5).....	.08	.08	.09	.04	.07	.05	.10	.09
(6).....	8.00	8.00	8.50	8.00	9.70	9.00	9.00	10.00
(7).....	20.00	17.00	25.00	15.00	20.00	23.00	20.00	18.00
(8).....	.05	.057	.05	.05	.05	.07	.05	.05
(9).....	.60	.50	.50	.40	.50	.50	.50	.70
(10).....	3.10	4.05	4.00	4.00	4.00	4.07	3.00	4.00
(11).....	2.00	2.25	2.65	2.50	2.30	1.80	3.00	3.40
(12).....	17.00	13.76	16.00	12.00	20.00	16.00	25.00	18.00
(13).....	2.00	2.60	2.00	1.80	2.20	1.75	2.50	1.90
(14).....	28.00	17.00	20.00	15.00	17.00	14.00	20.00	16.00
(15).....	2.50	1.40	2.50	2.50	2.00	1.90	2.50	2.00
(16).....	500.00	475.00	600.00	100.00	500.00	300.00	1000.00	100.00
(17).....	2.30	3.60	2.25	2.00	2.00	1.50	2.00	1.70
(18).....	2.75	1.80	3.00	2.00	2.20	2.00	3.00	2.40
(19).....	1.40	2.94	.60	.40	2.00	1.10	1.50	1.20
(20).....	1.10	1.68	1.40	1.00	1.20	1.12	2.00	1.30
(21).....	2.00	2.15	2.25	2.00	1.85	2.32	3.00	1.90
(22).....	1.40	1.43	1.15	1.00	1.00	1.34	1.70	1.10
(23).....	1.60	1.73	1.45	1.50	1.50	1.86	2.00	1.40
(24).....	2.25	2.33	2.25	2.00	2.00	2.72	3.00	2.25
(25).....	3.50	2.84	2.75	3.00	3.00	3.60	4.00	3.00
(26).....	.40	.25	.30	.20	.30	.30	.25	.25
(27).....	.50	.44	.55	.40	.50	.50	.50	.45
(28).....	.80	.60	.70	.60	.65	.60	.70	.70
(29).....	1.25	.79	1.00	1.00	.85	.90	.90	1.00
(30).....	1.30	.94	1.30	1.50	1.00	1.25	1.10	1.25
(31).....	10.00	10.00	12.00	8.00	9.00	13.00	15.00	6.00
(32).....	1.00	.35	.50	.25	.35	.75	2.00	.10
(33).....	.40	.15	.10	.20	.15	.25	.20	.10
(34).....	2.00	1.00	1.50	2.00	1.80	1.75	2.00	2.00
(35).....	1.00	.60	1.00	.25	.35	.25	1.80	.30
(36).....	560.00	500.00	700.00	400.00	650.00	400.00	500.00	500.00
(37).....	15.00	28.50	25.00	15.00	25.00	25.00	20.00	20.00
(38).....	10.00	22.25	15.00	10.00	12.00	10.00	30.00	12.00
(39).....	1.10	.90	1.25	1.00	1.00	1.00	1.00	.90
(40).....	5.00	5.00	5.00	4.00	5.00	3.50	10.00	6.00
(41).....	3.00	2.50	3.00	2.00	3.00	3.00	3.00	2.50

- IMPERIAL COUNTY, Cal.—R. E. Hazard Contracting Company, Inc., 2548 Kettner Blvd., San Diego, at \$36,997 submitted low bid to State Highway Commission to surface with bituminous treated crushed gravel or stone 10.1 mi. between El Centro and Calexico, involving:
- (1) 11,980 tons bit. tr. cru. gravel or stone surf.;
 - (2) 55 tons emul. asph.

- (24) 576 lin. ft. 24-in. do;
- (25) 334 lin. ft. 30-in. do;
- (26) 550 lin. ft. 2-in. wrought iron water pipe;
- (27) 550 lin. ft. 3-in. do;
- (28) 1700 lin. ft. 4-in. do;
- (29) 1250 lin. ft. 5-in. do;
- (30) 1850 lin. ft. 6-in. do;
- (31) 103 cu. yds. rubble masonry;
- (32) 124 lin. ft. exist. culv. remove and salvage;
- (33) 2450 lin. ft. exist. water pipes. remove and salvage;
- (34) 715 cu. yds. conc. exist pavc. and struc. remove and dispose of;
- (35) 150 lin. ft. exist. 8-in. tile drain and rock backfill remove and salvage;
- (36) 9 mi. new property fence;
- (37) 57 drive gates;
- (38) 3 walk gates;
- (39) 200 lin. ft. lam. timber guard rail
- (40) 318 sta. finish rdwy.;
- (41) 100 monuments.

- Complete bids follow:
- (A) T. M. Morgan Paving Co., Los Angeles\$231,057.40
 - (B) Peninsula Paving Co., San Francisco 239,488.47
 - (C) A. Teichert & Son, Sacramento 241,929.20
 - (D) Union Paving Co., San Francisco 246,858.50
 - (E) Fredrickson & Watson, Oakland 247,523.50
 - (F) David H. Ryan, San Diego 247,726.91
 - (G) M. J. Bevanda, Stockton 265,385.70
 - (H) Hanrahan Co., S. F. 280,521.30

Unit prices follow:

	(A)	(B)	(D)	(C)
(1).....	2.90	\$ 3.78	\$ 4.50	\$ 5.00
(2).....	41.00	50.00	42.00	40.00

- Complete bids follow:
- (A) R. E. Hazard Constr. Co., San Diego, \$36,997.
 - (B) Griffith Co., Los Angeles, \$48,034.40.
 - (C) B. S. Carroll, San Diego, \$56,220.
 - (D) V. R. Dennis Constr. Co., San Diego, \$62,100.

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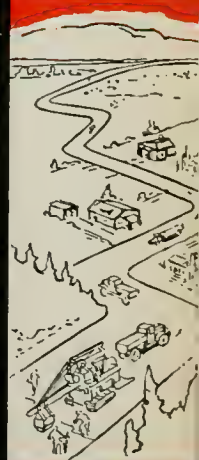
Excavators Set Rental Scale Under CRA Code

Comptroller Rules on NRA Bid Qualifications

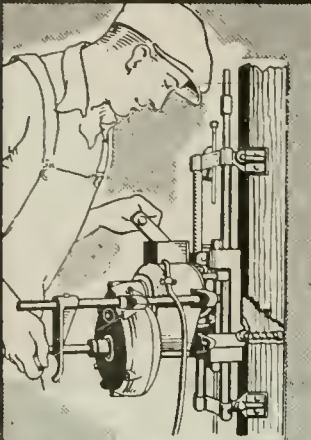
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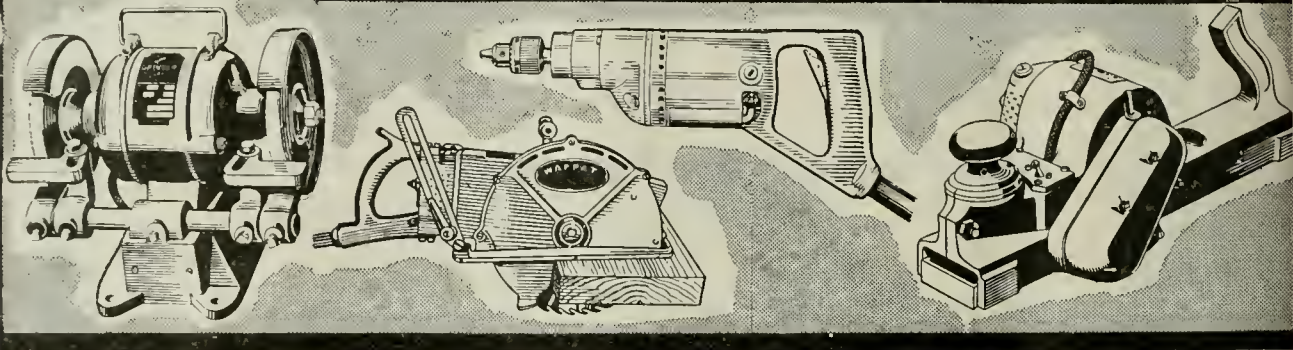
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SAN FRANCISCO, CALIF., SEPTEMBER 23, 1933

No. 36

STATES SPENT \$955,466,000 ON HIGHWAYS

**Bureau of Roads Reports on
1932 Construction in
Nation**

State highway expenditures in 1932 amounted to \$955,466,000, according to information collected from state authorities by the Bureau of Public Roads, U. S. Department of Agriculture. Of this amount, \$816,765,000 was expended for construction and maintenance of highways, interest on bonds and notes and miscellaneous expenses. These items represent the capital investment and current expenses on account of state highways. Other disbursements, such as principal payments on bonds, transfers to local road authorities and obligations imposed by statute totaled \$138,681,000.

Maintenance of the state systems, which include 358,210 miles of main highways, gave employment to from 130,000 to 160,000 men throughout the year. States surfaced 29,500 miles of road and more than 6000 miles were graded. The direct employment furnished by this construction was 86,000 men in January. This rose to 215,000 in September and was 144,000 in December. For every man directly employed it is estimated that two others were indirectly employed in supplying and transporting materials and machinery.

Total funds available were \$1,173,576,000, consisting of \$275,259,000 balance from previous year, \$632,200,000 current revenue from state sources, \$161,467,000 federal and local contributions, and \$104,650,000 from sale of bonds and notes. More than 90 per cent of the current state revenue was derived from motor vehicle fees and gasoline taxes.

REJECT SAN JOSE PORT PETITION

The Santa Clara County Board of Supervisors voted to reject a petition asking for an election on a proposal to create the San Jose harbor district. Proponents of the district proposed to apply for a federal loan to construct deep water port facilities if the district were authorized.

THE WEEK'S NEWS Highlights

HIGHWAYS.—Following are low bidders on California State highway contracts opened Wednesday and Thursday this week:

DEL NORTE COUNTY: 9.5 mi. grade and surface between Last Chance Slide and Flannigans, Youdall Construction Co. and Charles Harlow, Jr., San Francisco, \$678,799.

SONOMA COUNTY: Construct bridge over Russian River at Preston, M. B. McGowan, San Francisco, \$67,793.

LOS ANGELES COUNTY: 0.8 mi. grade and pave in city of Long Beach, United Concrete Pipe Corp., Los Angeles, \$38,713.

MONTEREY COUNTY: 6 mi. grade and surface between Gonzales and Chualar, A. J. Raisch, San Jose, \$141,745.

TEHAMA COUNTY: 13.8 mi. grade between Red Bluff and Dales, Hemstreet & Bell, Marysville, \$198,183.

MARIN COUNTY: 0.4 mi. grade and pave with asphaltic concrete between Napa and Water Streets, Sausalito, A. J. Raisch, San Francisco, \$46,437.

SAN BERNARDINO COUNTY: Construct reinforced concrete slab bridge across San Timoteo Creek, about five miles west of Redlands, R. R. Bishop, Long Beach, \$37,633.

HUMBOLDT COUNTY: 7.6 mi. grade and surface with screened gravel between Benbow and 7 miles north of Garberville, Mittry Bros. Construction Co., Los Angeles, \$334,206.

IMPERIAL COUNTY: 3.2 mi. grade and place Portland cement concrete widening strips between 4 miles west of Westmoreland and Trifolium Canal, Oswald Bros., 365 E. Fifty-eighth St., Los Angeles, \$74,624.

YUBA COUNTY: 2.5 mi. grade and pave with asphalt concrete between Wheatland and Morrison Crossing, A. J. Raisch, San Francisco, \$81,753.

MONO COUNTY: 6.2 mi. grade and surface with bituminous treated crushed gravel or stone between Point Ranch and Dressler's Corner, Basich Bros., Torrance, \$117,005.

EXCAVATORS SET MINIMUM RENTAL RATES

**Scale for Equipment Charges
Part of State Code Now
Effective**

A temporary schedule of minimum rentals for dump trucks, power shovels, tractors and other equipment is included in the California state code of the Excavation and Dump Truck Contractors which became effective September 20.

Members of the association have signed the agreement and are asking the State Corporation Commissioner, as administrator, to compel observance of the code of fair practice and price scale which has been adopted. An agreement has been effected with all labor organizations involved fixing minimum wages for all classes of skilled labor.

Minimum rental rates approved include: **Dump Trucks**

6-yard water level.....	\$3.75 per hr.
5-yard water level.....	2.75 per hr.
4-yard water level.....	2.50 per hr.
3-yard water level.....	2.00 per hr.
2-yard water level.....	1.50 per hr.

Hand loading at 15 per cent less the above. All above exclusive of labor. Less than a full day to include time returning to garage.

Power Shovels

½-yard, \$4.75 per hour, or \$300 per month.

¾-yard, \$5.25 per hour, or \$400 per month.

1-yard, \$5.75 per hour, or \$450 per month.

1¼-yard, \$7 per hour, or \$550 per month.

1½-yard, \$8.50 per hour, or \$700 per month.

1¾-yard, \$10.50 per hour, or \$850 per month.

2-yard, \$12.50 per hour, or \$1000 per month.

If rental period is four days or less, contractor to receive cost of moving on and off job. If rental period greater than four days, contractor to receive payment for moving on job only.

Monthly rental periods to apply on one month or more, and do not include anything but the shovel itself. When renting by the month, if shovel is used on two shifts, 50 per cent additional is to be charged; if used on three shifts, 75 per cent additional is to be charged. All the above exclusive of labor. Monthly rates based on 8-hour day.

NATIONAL CODE WILL REQUIRE LUMBER BRAND

Regulations Effective January
1 to Establish Standard
Grades

"An article of the lumber code under the NRA which has not received much attention but is of great significance, is paragraph 'B' of Article XVI, which relates to the branding or marking of lumber," says a bulletin issued by the National Lumber Manufacturers' Association.

The bulletin continues:

"It might be said that merely as a by-product this section brings about or will bring about a reform in the lumber industry which, when undertaken several years ago and largely because of variable adherence, almost threw it into convulsions and did not attain a great deal of permanent progress. Under section 'B' fifty odd groups of forest products industries which are under the code 'undertake to adopt, apply and enforce branding or marking of lumber and timber products.' Not later than January 1 next the lumber code authority is required to submit to President Roosevelt provisions necessary to effectuate the requirements of paragraph 'B' as well as of trade practices generally.

"Such regulations are to become effective 30 days after approved by the President.

"This makes it certain that all lumber shipped in interstate commerce after the first of the year will have to be plainly marked as to species, grade, dimension and seasoning. Moreover, every consignment of timber, lumber, flooring, shingles and lath except for export must be accompanied by skipper's certificate covering quantity as well as grade. The retail lumber code correspondingly requires the handling of marked lumber by the retail distributors.

"Due probably to inertia, there has been great reluctance on the part of manufacturer, as well as lumber dealer, to take up grade marking. Even in cities where the building inspectors require grade marked lumber there has been a frequent disposition on the part of most dealers to find some way to avoid the necessity of handling grade-marked material.

"The difficulties interposed by both manufacturers and dealers frequently make it necessary for building inspectors to modify their requirements. A typical instance

EPP LOW ON BUILDING

SPECIAL TO DAILY PACIFIC BUILDER
SACRAMENTO, Sept. 20.—
Leo Epp, 4745 Geary St., San Francisco, submitted the low bid to the State Department of Public Works today for erecting addition to the highway division shop headquarters at Sacramento. Epp's bid was \$16,770. Other bids received were: C. J. Hopkinson, Sacramento, \$17,869; Holdener Construction Co., Sacramento, \$18,200; Azevedo & Sarmento, Sacramento, \$18,200; P. F. Bender, North Sacramento, \$18,795; Geo. Johanns, San Francisco, \$18,998.

C. C. C. DISTRICT SUPPLY BIDS

Regional Commanders Authorized to Make Necessary Purchases

District commanders in each locality are authorized to purchase many items used in the Civilian Conservation Camps of the Ninth Corps Area, according to a memorandum issued by General Malin Craig.

These purchases include construction materials and truck transportation and miscellaneous items used in erecting and equipping conservation camps.

Prospective bidders on these items should obtain information direct by addressing the District Commander at each of the following points:

Fort MacArthur, Calif.
March Field, Calif.
Presidio of Monterey, Calif.
Rockwell Field, Calif.
Eureka, Calif. (201 Federal Bldg.)
Fresno, Calif. (326 Brix Bldg.)
Marysville, Calif. (Calif. Packing Corp. Plant).
Redding, Calif. (Postoffice Bldg.)
Sacramento, Calif. (208 State Library and Court Bldg.)

is that of the city of Richmond, Cal., in the San Francisco Bay area, which, in drawing up specifications for a small field house for a proposed athletic field, included the requirement that the lumber be grade-marked. After the foundations were in place the building inspector was advised by the contractor that grade-marked lumber was not obtainable. Investigation revealed that only a limited amount of lumber, made by one company, was available in the San Francisco region.

SAN MATEO CO. BUILDING CODE NOW EFFECTIVE

Watson Announces Fees For
Inspection Outside
Cities

San Mateo County's new building ordinance is now in effect and in the future applications for building permits in unincorporated areas will have to be made to County Building Inspector William Watson, Jr., whose office is in the headquarters of County Surveyor James S. James at Redwood City. The building ordinance became effective September 15, after being approved by the supervisors.

In explaining the ordinance, Watson says:

"It will be necessary to make application to the county building inspector, located at 2525 Broadway, Redwood City, for a permit to construct or alter any and all buildings in the unincorporated territory of the county, except on agricultural property in units of five or more acres. Also, it will not be necessary to apply for a permit for farm accessory buildings, such as chicken houses, barns, etc., or improvements costing \$50 or less.

"The fees for building permits will be as follows:

"For a total valuation from \$51 to \$1,000, a \$2 fee, and an additional fee of \$2 for each additional \$1,000 or fraction thereof of total valuation to and including \$15,000, and an additional fee of \$1 for each additional \$1,000 or fraction thereof of total valuation to and including \$50,000, and an additional fee of 50 cents for each additional \$1,000 or fraction thereof of a total valuation exceeding \$50,000."

Copies of this new ordinance may be secured from Watson in Redwood City.

ENGINEERS START COULEE SURVEYS

Thirty-seven United States Reclamation Bureau engineers have started surveys preliminary to construction of the \$63,000,000 Grand Coulee dam, 20 miles north of Almira, Wash., according to Chief Engineer Frank A. Banks.

The surveys will be run from a short distance below Seaton's Grand Coulee ferry on both sides of the Columbia river, north of Gerome, or approximately 25 miles above the mouth of the Spokane river.

The government field camp will be located one-half mile below the damsite on the west side of the river. The contractors' campsite probably will be on the east side of the river, a short distance below the ferry landing.

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MONEY READY FOR LOCAL ARMY POSTS

Authorization Expected Immediately to Continue Hamilton Field Work

News dispatches from Washington last night reported allotment by the Public Works Administration of approximately four and one-half million dollars to continue building projects already planned for Hamilton Field and other army posts in the bay district.

Local authorities had not been officially advised of the appropriation, which was reported to include \$3,515,894 for Hamilton Field and \$1,185,281 for work at the Presidio of San Francisco.

When authorization is received for the expenditure it is expected that bids will be called immediately on erection of buildings at Hamilton Field, Marin County, for which plans have been prepared under direction of Captain H. B. Nurse, constructing quartermaster.

Appropriations for other army posts on the coast include:

Fort Huachuca, Ariz., construction, \$72,748; reconditioning, \$190,000.

March Field, Cal., construction, \$214,012; reconditioning, \$70,000.

Fort MacArthur, Cal., construction, \$145,500; reconditioning, \$22,615.

Fort Lewis, Wash., construction, \$2,397,663; reconditioning, \$60,000.

Vancouver Barracks, Wash., reconditioning, \$80,000.

Rockwell Field, Cal., \$74,732.

Fort George Wright, Wash., \$1867.

CODE ADOPTED IN WATSONVILLE

Provisions for a seven-hour day and a minimum wage of 50 cents an hour are included in a code of fair competition agreed to by building contractors of Watsonville, members of the Watsonville Builders' Exchange.

Ralph Friend is president of the organization and Al Short chairman of the code committee.

COMPTROLLER GIVES RULING ON NRA BIDS

Non-Member Bidder Not Disqualified; But Must Observe Code Regulations

The comptroller general has held that the terms of the executive order of August 10, 1933, do not require that a bidder, or contractor, with the United States for the delivery of supplies shall be a "member of the N. R. A."

However, he says: "The requirements is that every contract for supplies shall contain a stipulation that the contractor shall comply with the applicable code of fair competition for the trade or industry or subdivision thereof concerned, and if no such code, then with the President's re-employment agreement 'without regard to whether the contractor is himself a party to such code or agreement.' The contract must provide that in event of violation of such stipulation, the United States may terminate the contract and purchase the undelivered material and supplies in the open market and collect the excess cost, if any, from the contractor and his sureties.

"That is to say, you are not authorized to reject the low bid in this case simply because such low bidder is not a member of the N. R. A., but the contract entered into with such low bidder should contain the stipulations required by the terms of the executive order of August 10, 1933, and such procedure should be followed in all similar cases unless and until the executive order should be modified or revoked or the law should otherwise provide."

The executive order of August 10, 1933, provides, in part, as follows:

"(1) Contracts for Supplies—Every contract entered into within the limits of the United States (by which is meant the 48 states of the Union, the District of Columbia, the Territories of Hawaii and Alaska, the Panama Canal

Zone, Puerto Rico and the Virgin Islands) by the United States or any of its agencies or instrumentalities for supplies mined, produced, or manufactured in the United States as contemplated by section 2, title III, of the act approved March 3, 1933, entitled 'An act making appropriations for the Treasury and Post Office Departments for the fiscal year ending June 30, 1934, and for other purposes' (Public No. 428, 72d Congress), except as set forth in the proviso under paragraph (a) below, shall provide and require that:

"(a) The contractor shall comply with all provisions of the applicable approved code of fair competition for the trade or industry or subdivision thereof concerned, or, if there be no approved code of fair competition for the trade or industry or subdivision thereof concerned, then with the provisions of the President's re-employment agreement promulgated under authority of section 4 (a) of the foregoing act, or any amendment thereof, without regard to whether the contractor is himself a party to such code or agreement:

"Provided, that where supplies are purchased that are not mined, produced, or manufactured in the United States, the special or general code of fair practice shall apply to that portion of the contract executed within the United States.

"(b) If the contractor fails to comply with the foregoing provision, the Government may by written notice to the contractor terminate the contractor's right to proceed with the contract and purchase in the open market the undelivered portion of the supplies covered by the contract, and the contractor and his sureties shall be liable to the Government for any excess cost occasioned the Government thereby."



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PERMITS AND CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
688	Leighton	Royal	1000
689	Ball	Ausok	3500
690	Christensen	Owner	4000
691	Hawley	Owner	2500
692	Helgesson	Owner	3750
693	Helgesson	Owner	3750
694	R. C. Archbishop	Moore	2300
695	Kahn	Jacks	1000
696	Tubbs	Lindgren	3000
697	Weinstein	Jacks	3000
698	Stoltz	McCarthy	1000
699	Galli	Owner	12000
700	Bosch	Bosch	2000
701	Galli	Owner	9000
702	Galli	Owner	4000
703	Galli	Owner	8000
704	Sergianni	Cappelletti	2380
705	Grahn	Owner	2750
706	Missouri	Owner	1500
707	Weinstein	Cahill	14500

ALTERATIONS

(688) NO. 38 THIRD ST. Alter restaurant.
Owner—Leighton Industries, Inc., 25 Taylor St., San Francisco.
Architect—Not Given.
Contractor—Royal Show Case Co., 770-A McAllister St., \$1000

DWELLING

(689) W CLAYTON 657 N 17th St. One-story and basement frame dwelling.
Owner—G. A. and M. A. Ball, 1051 Ashbury St., San Francisco.
Architect—Not Given.
Contractor—G. Ausok, 51 Mizpah St., San Francisco. \$3500

DWELLING

(690) SE TWENTY-FIRST AVE. & Kirkham St. One-story and basement frame dwelling.
Owner—H. Christensen, 1422 27th Ave., San Francisco.
Architect—Charles F. Strothoff, 2274 15th St., San Francisco. \$4000

ALTERATIONS

(691) FEDERAL ST. near Rincon. Alter warehouse.
Owner—Hawley Terminal Co., 274 Brannan St., San Francisco.
Engineer—Ellison & Russell, 712 Pacific Bldg., San Francisco. \$2500

DWELLING

(692) S SAN JUAN 25 W CAYUGA. One-story and basement frame dwelling.
Owner—R. A. Helgesson, 2695 23rd Ave.
Architect—Not Given. \$3750

DWELLING

(693) S SAN JUAN 50 W CAYUGA. One-story and basement frame dwelling.
Owner—R. A. Helgesson, 2695 23rd Ave.
Architect—Not Given. \$3750

ADDITION

(694) E ALABAMA ST., bet. 24th and 25th Sts. Addition to school.
Owner—The Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.
Architect—Martin J. Rist, Phelan Bldg., San Francisco.
Contractor—Moore & Roberts, 693 Mission St., San Francisco. \$2800

ALTERATIONS

(695) NO. 3820 DIVISADERO ST. Alter apartments.
Owner—Mrs. H. Kahn, % Contractor.
Architect—Not Given.

Contractor—Jacks & Irvine, Inc., 74 New Montgomery St., San Francisco. \$1000

ADDITION

(696) SE TWENTY-SECOND AND Iowa Sts. Add to factory.
Owner—Tubbs Cordage Co.
Engineer—F. J. Clapham, 901 Grizzly Perk Blvd., Berkeley.
Contractor—Lindgren & Swinerton, Inc., 625 Standard Oil Bldg., San Francisco. \$3000

ALTERATIONS

(697) NO. 1037 MARKET ST. Alter store building.
Owner—I. Weinstein Investment Co., Ltd., Premises.
Architect—Hyman & Appleton, 68 Post St., San Francisco.
Contractor—Jacks & Irvine, Inc., 74 New Montgomery St., San Francisco. \$3000

ALTERATIONS

(698) NO. 520 CASTRO ST. Alter stores and flats.
Owner—Mr. Stoltz, Premises.
Architect—Not Given.
Contractor—Robert McCarthy, 1363 14th Ave., San Francisco. \$1000

DWELLINGS

(699) W TWENTY-THIRD AVE. 120 S Ocean Ave. Three one-story and basement frame dwellings.
Owner—R. F. Galli, 1574 28th Ave., San Francisco.
Architect—Not Given. \$4000 each

SHED

(700) 2075 FOLSOM ST. One-story frame plaster shed.
Owner—H. Bosch, 2075 Folsom St., San Francisco.
Architect—Not Given.
Contractor—H. Bosch, 2075 Folsom St., San Francisco. \$2000

RESIDENCES

(701) W TWENTY-THIRD AVE. 40 & 80 S Ocean Ave. Two one-story and elevated room and basement residences.
Owner—R. F. Galli, 1574 28th Ave., San Francisco.
Architect—Not Given. \$4500 each

DWELLING

(702) SW TWENTY-THIRD AND Ocean Aves. One-story and basement frame dwelling.
Owner—R. F. Galli, 1574 28th Ave., San Francisco.
Architect—Not Given. \$4000

DWELLINGS

(703) W THIRTY-FIRST AVE. 225 and 250 S Irving St. Two one-story and basement frame dwellings.
Owner—R. F. Galli, 1574 28th Ave., San Francisco.
Architect—Not Given. \$4000 each

ALTERATIONS

(704) NO. 1077-79-81 ALABAMA ST. Alter flats.
Owner—Dante Sergianni, 1081 Alabama St., San Francisco.
Architect—Not Given.
Contractor—G. Cappelletti, 1020 Florida St., San Francisco. \$2880

DWELLING

(705) E TICALOMA 248 N Blanken. One-story and basement frame dwelling.
Owner—W. H. Grahn, 2965 Mission St., San Francisco.
Architect—Not Given. \$2750

ALTERATIONS

(706) NW EIGHTH AND TOWNSEND. Alter shed and offices.
Owner—Missouri Coal Co., 3020 20th St., Oakland.
Architect—Not Given. \$1500

WAREHOUSE

(707) N JESSIE 80 W Sixth St. Two-story Class C warehouse.
Owner—I. Weinstein Investment Co., 1041 Market St., San Francisco.
Architect—Hyman & Appleton, 68 Post St., San Francisco.
Engineer—H. Rosenthal, 821 Market St., San Francisco.
Contractor—Cahill Bros., 206 Sansome St., San Francisco. \$14,500

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
416	Windsor	Owner	7900
417	Silverman	Owner	1600
418	Perkins	Rodger	2940
419	Medina	Rose	1500
420	Rothmell	Crocker	3000
421	Florsheim	Dunn	5000
422	Mid-Valley	Allen	4000
426	Kesti	Owner	5400

DWELLING

(416) No. 839 PORTAL AVE., OAKLAND. Two-story 7-room dwlg.
Owner—Geo. Windsor, 928 Kingston Ave., Oakland.
Architect—Not Given. \$7000

DWELLING

(417) NO. 4118 WATERHOUSE RD., OAKLAND. One-story four-room dwelling.
Owner—Mrs. I. Silverman, 3765 Fruitvale Ave., Oakland.
Architect—Not Given. \$1600

DWELLING

(418) NO. 1741 105TH AVE., OAKLAND. One-story 5-room dwlg.
Owner—Lawrence Perkins, Angel Island.
Architect—Not Given.
Contractor—J. C. Rodger, 2257 106th Ave., Oakland. \$2940

ALTERATIONS

(419) NO. 3642 E-FOURTEENTH ST., OAKLAND. Alterations.
Owner—Mr. Medina.
Architect—Not Given.
Contractor—Mervin P. Rose, 6329 Shattuck Ave., Oakland. \$1500

DWELLING

(420) NO. 6133 MARGARIDO DRIVE, OAKLAND. One-story 4-room dwelling.
Owner—Geo. Rathmell, 5102 West St., Oakland.
Architect—Not Given.
Contractor—H. L. Crocker Jr., 30 Wilding Lane, Oakland. \$3000

ALTERATIONS

(421) NO. 1444 BROADWAY, OAKLAND. Alterations.
Owner—Florsheim Shoe Co., 1304 Broadway, Oakland.
Architect—Not Given.
Contractor—Louis C. Dunn, Monadnock Bldg., San Francisco. \$5000

STORES

(422) NO. 3721-3725 HOPKINS ST., OAKLAND. One-story stores.
Owner—Mid-Valley Corporation.
Architect—Not Given.
Contractor—Allen & Allen, 1239 106th Ave., Oakland. \$4000

DWELLING
 (426) NO. 1768 LEIMERT BLVD.,
 OAKLAND. Two-story eight-room
 dwelling.
 Owner—David Kestli, 2217 Browning
 St., Berkeley.
 Architect—Not Given. \$5100

BUILDING CONTRACTS
 SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
146	Southern Pacific	Healy	54754

147 Weinstein Cahill 14314
 ALTERATIONS
 (146) FOOT OF HYDE ST. All work
 to remove old slips and wharves
 and construction of new wharf,
 slip and breakwater.
 Owner—Southern Pacific and Golden
 Gate Ferries, Ltd., 64 Market St.,
 San Francisco.
 Architect—Not Given.
 Contractor—Healty Tibbitts Constr.
 Co., 64 Pine St., San Francisco.
 Filed Sept. 18, '33. Dated ———
 Payments not given.....
 TOTAL COST, \$54,754
 Bond, limit, forfeit, not given. Plans
 and specifications filed.

WAREHOUSE
 (147)—N JESSIE ST. 80 W Sixth N
 75xW 75, between 6th and 7th Sts.
 All work for two-story warehouse.
 Owner—Isidor Weinstein Investment
 Co., 1041 Market St., San Fran-
 cisco.
 Architect—Not Given.
 Contractor—Cahill Bros., Inc., 206
 Sansome St., San Francisco.
 On 15th of each month.....
 Usual 35 days.....Final
 TOTAL COST, \$14,314.81
 Bond, limit, forfeit, none. Plans and
 specifications filed.

SAN FRANCISCO UNDER \$1000

MOVE sign, \$—; 228 Columbus Ave.
 owner, E. Cortese, Premises.
 SIGN, electric, \$475; 1454 Market St.;
 owner, G. Ruef, 1454 Market St.;
 contractor, Neon Sign Service Co.,
 1707 Folsom St.
 SIGN, electric, \$135; 1617 Polk St.;
 owner, Globe Brewing Co., San-
 some and Greenwich Sts.; contrac-
 tor, Golden Gate Neon Sign Co.;
 355 8th St.
 SIGN, electric, \$265; 1160 Polk St.;
 owner, D. Bercovich, Premises;
 contractor, Neon Sign Service Co.,
 1707 Folsom St.
 REPAIR fire damage to apartments,
 \$75; NE Stockton and Washington
 Sts.; owner, J. Howard, 5 2048
 Market St.; contractor, I. W. Co-
 burn, 2048 Market St.
 ALTER restaurant, \$700; 2368 Third
 St.; owner, C. Castellino, Prem.
 STUCCO dwelling, \$150; 1110-1112 Ful-
 ton St.; owner, S. Bergero, 1112
 Fulton St.
 SIGN, electric, \$175; 846 Jackson St.;
 owner, D. R. Gooding, 846 Jack-
 son St.; contractor, Neon Sign
 Service Co., 1707 Folsom St.
 SNGN, electric, \$100; 2745 Mission
 St.; contractor, QRS Neon Corp.,
 Ltd., 690 Potrero Ave.
 SIGN, electric, \$400; 716 Market St.;
 owner, Kelleher & Browne, 716
 Market St.; contractor, Golden
 Gate Neon Sign Co., 355 8th St.
 BARBER pole, \$10; 109 6th St.; own-
 er, A. Pizi, 109 6th St.; contrac-
 tor, W. H. Kirsten, 55 McAllister.
 ADD to kindergarden, \$250; 85 21st
 Ave.; owner, Miss Rosenthal, 85
 21st Ave.
 ALTER dwelling, \$250; 2921 Washing-
 ton St.; owner, R. Thompson and
 L. Casasola, 2928 Washington St.;
 contractor, H. S. Hanson, 455
 Grafton Ave.
 ALTER store, \$75; 61 Waverly Place;

owner, L. Garson, Premises; con-
 tractor, J. Lee, 113 Waverly Place.

SIED, \$150; 1214 Fell St.; owner, S.
 Summerville, Premises.

SIGN, electric, \$150; 574 Pacific Ave.;
 owner, Spider Kelly's, 574 Pacific
 Ave.; contractor, Golden Gate
 Neon Sign Co.; 355 8th St.

ALTER funeral home, \$450; 1123 Sut-
 ter St.; owner, Halsted & Co., 1123
 Sutter St.; architect, A. Nordin,
 706 Mills Bldg.

ALTER factory, \$90; 607 Front St.;
 owner, Half Moon Box Factory,
 607 Front St.; contractor, S. Guisti
 200 Green St.

GARAGE, private, \$300; 3077 Califor-
 nia St.; owner, J. Padjisky, 3077
 California; contractor, H. E.
 Murer, 2516 California St.

SIGN, electric, \$150; 1609 Polk St.;
 owner, Gallenkamp's Stores Co.,
 Inc., Premises; contractor, QRS
 Neon Corp., Ltd., 690 Potrero Ave.

SIGN, electric, \$150; 1151 Grant Ave.;
 owner, Gallenkamp's Stores Co.,
 Premises; contractor, QRS Neon
 Corp., Ltd., 690 Potrero Ave.

PLATFORM, frame, \$130; 735 Mont-
 gomery St.; owner, F. Biagini &
 C. De Mechilli 735, Montgomery
 St.; contractor, Barrett & Hilp,
 918 Harrison St.

ADD to apartments, \$350; 79 Tele-
 graph; owner, J. Ronconi, 79 Tele-
 graph.

GARAGE, private, \$125; NE Leaven-
 worth and Chestnut Sts.; owner,
 R. Howard, Premises; contractor,
 G. Nimmo, 804 Montgomery St.

GARAGE, private, \$300; N Magnolia
 Alley 112 W Laguna; owner, R.
 Adda, 1725 Chestnut St.; contrac-
 tor, L. Murer, 1815 Mason St.

ALTER dwelling, \$250; 759 Nineteenth
 Ave.; owner, Whitney Investment
 Co., 36th Ave. and Kirkham St.

GARAGE, one-story private, \$300; 126
 W. Laguna; owner, R. Adda, 1725
 Chestnut St.; contractor, L. Murer,
 1815 Mason St.

CIGAR stand, \$150; 1701 Powell St.;
 owner, F. Giannini, 1701 Powell;

ALTER flats, \$500; 28-30 Kent St.;
 owner, Mr. and Mrs. R. Mosca,
 1244 Jackson St.; contractor, P. J.
 Hurley, 1076 Hayes St.

SIGN, electric, \$45; 1552 Market St.;
 owner, Wilson's Cafe, 1552 Market
 contractor, American Elec. Sign
 Co., 1750 Eddy St.

NURSERY, one-story frame, \$150; 128
 Hanover St.; owner, Angelo Boc-
 coleri, 500 Lombard St.

BARBER pole, \$20; 1804 McAllister;
 owner, M. Anderson, 1467 Lombard
 St.; contractor, Deckleman Bros.,
 ALTER store, \$400; 574 Pacific Ave.;
 owner, Mario De Poali, 550 Lake.

ALTER store, \$150; 325 Davis St.;
 owner, S. S. Parsons, Pacific
 Grove.

MOVE sign, \$50; 120 11th St.; owner,
 Thompson Tire Co., 120 11th St.,
 contractor, Apex Electric Co., 363
 Fell St.

REPAINT wood sign, \$12; 25 Drumm;
 owner, Sunland Packing Co., 25
 Drumm St.

STATION, one-story battery, \$200;
 NW Bacon and Bayshore Blvd.;
 owner, F. Arata, 1909 Egbert St.

ADDITION to dwelling, \$25; 1396
 Golden Gate Ave.; owner, E. M.
 Watkins, 1396 Golden Gate Ave.

BARBER pole, \$250; 3172 Mission St.;
 owner, G. E. Rendell, 3172 Mission
 SIGN, electric, \$150; 661 Clay St.;
 owner, Diamond Shrimp Co., 661
 Clay St.; contractor, Apex Electric
 Co., 363 Fell St.

ALTER store, \$150; 3251 Scott St.;
 owner, O. Viotto, 3251 Scott St.
 ADD to dwelling, \$350; 3639 Divisa-
 dero St.; owner, A. Lippi, 3638
 Divisadero St.; contractor, G. Galli
 & Co., 1900 Hyde St.

ALAMEDA COUNTY UNDER \$1000

ALTERATIONS, \$250; 1808 Rose St.,
 Berkeley; owner, J. Drucquer,
 1808 Rose St.; contractor, Crown
 Roof Co.; 2609 E-14th St., Oak-
 land.

ALTERATIONS, \$145; 1510 Oregon
 St., Berkeley; owner, J. Heide,
 1510 Oregon St.; contractor,
 Crown Roof Co., 2609 E-14th St.,
 Oakland.

ALTERATIONS, \$125; 1726 Stuart St.,
 Berkeley; owner, Mrs. E. Schmidt
 1726 Stuart St.; contractor, A. R.
 Fontes, 4279 Monterey Blvd.

BILLBOARD, \$100; NE 17th and San
 Pablo Ave., Oakland; owner, Post-
 er & Kleiser, 22nd and Market.

ADDITION, \$300; 5909 Monadnock
 Way, Oakland; owner, J. N Feld-
 hausen, 5909 Monadnock Way; con-
 tractor, D. W. Van Horn, 6004
 Monadnock Way.

SIGN, electric, \$35; 383 40th St., Oak-
 land; owner, Sonora Tamale; con-
 tractor, Ace Elec. Sign Co., 1243
 E-12th St.

ALTERATIONS, \$140; 3529 69th Ave.,
 Oakland; owner, Frank Jones,
 3529 69th Ave.

CHIMNEY, patent, \$20; 657 Vernon
 St., Oakland; owner, Mrs. Miller,
 657 Vernon St.; contractor, C. O.
 Carlson; 2138 23rd Ave.

ALTERATIONS and repairs, \$150;
 1249 E-14th St., Oakland; owner,
 G. Gogolin, 1120 Dwight Way, Ber-
 keley.

ADDITION, \$600; 5925 Holway, Oak-
 land; owner, Mrs. L. Horn, 5925
 Holway St.; contractor, J. B. Pet-
 ersen & Son, 4021 Agua Vista Ave.

SIGN, electric, \$155; 2092 Telegraph
 Ave., Oakland; owner, S. V. Davi-
 dow; contractor, Radiant Neon
 Displays, 2561 San Pablo Ave.

REPAIRS, \$100; 872 Willow St., Oak-
 land; owner, Sarah Robertson, 872
 Willow St.

GARAGE, one-story, \$125; 3719 Rhoda
 Ave., Oakland; owner, E. G. Kem-
 mler, 3799 Rhoda Ave.

ALTERATIONS, \$300; 6125 Fremont
 St., Oakland; owner, Mrs. Belle
 Conery, Premises.

SIGN, electric, \$225; 3438 Fruitvale
 Ave., Oakland; owner, J. S. Grif-
 fen; contractor, Radiant Neon
 Displays, 2561 San Pablo Ave.

ADDITION, \$250; 2919 West St., Oak-
 land; owner, F. Tristan, Prem.;
 contractor, Gaubert Bros., 5735
 Brookdale Ave.

ADDITION, \$500; 3021 McKillop Rd.,
 Oakland; owner, J. R. Johnston,
 3021 McKillop Road.

RESHINGLE, \$68; 5344 Locksley St.,
 Oakland; owner, Chester Miller,
 609 Excelsior Ave.

SIGN, electric, \$175; 9612 E-14th St.,
 Oakland; owner, Jos. Colonico;
 contractor, Radiant Neon Displays
 2561 San Pablo Ave.

ALTERATIONS, \$200; 928 Fresno Ave.,
 Berkeley; owner, E. Frit, Prem.;
 contractor, Bert Raines, 032 Fresno
 Ave.

WRECK building, \$150; SE Third and
 Castro Sts., Oakland; owner, Dol-
 an Bros., 3006 San Pablo Ave.

SIGN, electric, \$100; 802 7th St., Oak-
 land; owner, Oakland Drug Co.;
 contractor, Imp Elec. Sign Co.,
 2228 Myrtle St.

SIGN, electric, \$125; 2268 E-14th St.,
 Oakland; owner, Dr. A. L. Silva;
 contractor, Imp Electric Sign Co.,
 2228 Myrtle St.

ALTERATIONS, \$475; 2314 Bancroft,
 Berkeley; owner, St. Marks Par-
 ish, Premises; contractor, Guy
 Tyler, 1502 Cedar St.
 ALTERATIONS, \$185; 1724 Rose St.,
 Berkeley; owner, Geo. Bardet, 1724
 Rose St.; contractor, Edw. Lar-
 mer, 90 Fairview Ave., Oakland.

BUILDING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

1.—Apartments	Offices
2.—Bonds	11.—Ice and Cold Storage Plants
3.—Churches	12.—Power Plants
4.—Factories and Warehouses	13.—Public Buildings, Fire Houses and Jails
5.—Flats	14.—Residences
6.—Garages and Service Stations	15.—Schools
7.—Federal Buildings	16.—Banks, Stores and
8.—Club Buildings	17.—Theatres
9.—Hospitals	18.—Wharves & Docks
10.—Hotels	19.—Misc. Const.
	20.—Misc. Supplies & Materials

1—APARTMENTS

Sub-Bids Being Taken.

ALTERATIONS Cost, \$2000
SAN FRANCISCO. No. 2118-28 Fillmore Street.

Alterations to two-story frame and stucco flats for apartments (six apts. and four stores) new store fronts, etc.

Owner—Matt I. Sullivan.

Architect—A. H. Knoll, Hearst Bldg., San Francisco.

Sub-bids are being taken by foreman on site.

Contract Awarded.

ALTERATIONS Cost, \$1000
SAN FRANCISCO. No. 3820 Divisadero Street.

Owner—Mrs. H. Kahn.

Architect—Not Given.

Contractor—Jacks & Irvine, 74 New Montgomery St., San Francisco.

Brick Work and Roofing Awarded.

APARTMENTS Cost, \$50,000
SAN FRANCISCO. W Pierce St. 110 N McAllister St.

Three-story and basement frame and stucco apartments (15 2- and 3-room apts.) composition ten-year roof, 18-car garage, gas-steam heating plant, elevator, individual electric refrigeration, canvas walls hardwood floors, tiled baths and showers, electric ranges, etc.

Owner and Builder—Patrick Horgan, 930 Pierce St., San Francisco.

Architect—Richard R. Irvine, 2048 Market St., San Francisco.

Roofing—Malott & Peterson, 20th and Harrison Sts., San Francisco.

Brick Work—Albert Nelson, 242 Ocean Ave., San Francisco.

Other sub-contracts were reported Sept. 8.

Sub-Contracts Awarded—Taking Bids for Electric Work, Tile, Brick, Tile Work, etc.

APARTMENTS Cost, \$40,000
SAN FRANCISCO. SE Webster and North Point Sts.

Three-story and basement frame and stucco apartments (15 2- and 3-room apts.), composition roofing, some tile, steam heating system, colored tiled wainscoat in baths, showers and kitchens, electric refrigeration, etc.

Owner & Builder—Viggo Rasmussen, 1580 Beach St., San Francisco.

Architect—Richard R. Irvine, 2048 Market St., San Francisco.

Heating & Plumbing: J. Gibbs & Sons, 1706 Geary St., San Francisco.

Lumber: Christenson Lumber Co., 5th and Hooper Sts., San Francisco.

Painting: Herman Wachter, 630 8th Ave., San Francisco.

Plastering: G. Boni & Co., 2352 Lombard St., San Francisco.

Roofing: Jas. Cantley, 666 Mission St., San Francisco.

Glass: W. P. Fuller Co., 301 Mission St., San Francisco.

2—BONDS

SEATTLE, Wash.—Until October 6, 12 noon, bids will be received by H. W. Carroll, City Comptroller, for the sale of \$700,000 of Seattle sewer bonds to finance construction of sewers, trunk sewers, pumping plants and sewage disposal plant with all necessary appurtenances.

SEATTLE, Wash.—Until October 6, 12 noon, bids will be received by H. W. Carroll, City Comptroller, for the sale of \$85,000 of Seattle bridge bonds for the purpose of financing the construction of a reinforced concrete viaduct on Admiral Way in the vicinity of West Stevens Street, across Schmitz Boulevard.

SACRAMENTO, Cal.—An election to approve a revenue bond issue will be held November 7th by Sacramento Utility District to finance the construction of a municipal water supply system from Silver Creek drainage basin, including the following projects:

Union Valley reservoir, \$3,140,000.
 Silver Creek-Brush Creek conduit, \$2,081,000.

Brush Creek-Sweetwater conduit, \$3,367,000.

Sweetwater reservoir, \$1,025,000.
 Sweetwater-Sacramento pipe line, \$2,765,000.

Power development, \$3,042,000.
 Albert E. Givan, chief engineer, Sacramento Utility District.

4—FACTORIES & WAREHOUSES

September 15, 1933

Sub-Contracts Awarded.

WAREHOUSE Cost, \$5000
OAKLAND, Alameda Co., Cal. No. 2633 Telegraph Ave. (rear).

One-story Class C brick warehouse (30 by 50 ft.) steel sash, composition roof, etc.

Owner—Sears-Roebuck Co., 2633 Telegraph Ave., Oakland.

Plans by Owner.

Contractor—John M. Bartlett, 1706 Parker St., Oakland.

Lumber—Sunset Lumber Co., 400 High St., Oakland.

Glass—East Bay Glass Co., Oakland.

Brick—Hallert & Kneale, 65th Ave. Oakland.

Electric—Scott-Buttner Co., 19 Grand Ave., Oakland.

SAN DIEGO, Cal.—Walter Trepte, 211 Scripps Bldg., San Diego, will start work at once on the erection of a warehouse on K St., between 8th and 9th Sts., San Diego, for Wellman Peck & Co., 301 The Embarcadero, San Francisco. Julius E. Krafft & Sons, architects, Phelan Bldg., San Francisco. The building will be a one-story and mazzanine structure, 100x200 feet in area. Cost, \$35,000.

LOS ANGELES, Cal.—Rainey & McIsaac, 2100 E. 25th St., have been awarded a contract for the erection of a factory building at 3600 Mines Ave., in the Union Pacific Industrial tract, for the Las Vegas Land & Wa-

ter Co.; General Cable Corp., lessee. McClintic-Marshall, 11,100 S. Central Ave., will furnish and erect the structural steel. Ernest C. Batty, architect, 424 Pacific Electric Bldg. One-story class D structure, 152x322 feet in area; frame, brick and galvanized iron construction, composition monitor type roof, steel roof trusses, steel sash, plastered exterior, collapsible steel gates, steel rolling doors, cement floors, metal toilet partitions, gas radiators, steel lockers, etc. Cost, \$55,000. General Cable Corp. has a contract for furnishing cable for the Los Angeles Water and Power Bureau's 271-mile transmission line.

Taking Bids.

WAREHOUSE Cost, \$2500
SAN FRANCISCO. Federal Street near Rincon St.

Alter warehouse.

Owner—Hawley Terminal Co., 274 Brannan St., San Francisco.

Engineers—Ellison & Russell, 712 Pacific Bldg., San Francisco.

OAKLAND, Alameda Co., Cal.—The Bay City Box Company's factory at 19th Avenue and E-Tenth St., was totally destroyed by fire September 13. Building will probably be reconstructed. Damage estimated at \$35,000.

Taking Sub-Bids.

PLANT Cost, \$50,000
SAN FRANCISCO. Washington St. Two-story reinforced concrete printing plant.

Owner—Edward Barry Co., 32 Clay St., San Francisco.

Architect—H. A. Minton, 525 Market St., San Francisco.

Engineer—L. H. Nishkian, 525 Market St., San Francisco.

Contractor—David Paganini, 519 California St., San Francisco.

Sub-bids are being taken on steel rolling door, steel sash, sheet metal work and glass. Work will be started September 18.

Piling is now under way by M. B. McGowan, 74 New Montgomery St. As previously reported, reinforcing steel contract awarded to W. S. Wettenhall, 17th and Wisconsin Sts., San Francisco.

CUTLER, Fresno Co., Cal.—Fire destroyed the packing plant of Zaninivich Bros. at a loss of \$5000. The owners plan to rebuild.

Sub-Contracts to Be Awarded Next Week.

FACTORY Cost, \$50,000
BERKELEY, Alameda Co., Cal. 63rd and Overland Sts.

Two-story steel frame factory (120x140 ft.), brick walls, concrete work composition roofing, etc.

Owner—Peterson Tallow Co., 65th and Bay Sts., Oakland.

Engineer—E. W. Remnitz, 1594 63rd St., Oakland.

Contractor—S. G. Johnson, 4654 Dolores St., Oakland.

Contract Awarded.

ADDITION Cost, \$—
SAN FRANCISCO. Stevenson Street near Sixth St.

Two-story Class C reinforced concrete addition to warehouse (steel sash composition roof, wood floors, etc.)

Owner—Weinstein Co., 1041 Market St., San Francisco.

Architect—Hyman & Appleton, 68 Post St., San Francisco.

Contractor—Cahill Bros., 206 Sansome St., San Francisco.

VERNON. Los Angeles Co., Cal.—California Brewing Association of Southern California has started work on the erection of a new brewery at 2060 East 49th St., Vernon. Construction will be handled on a segregated contract basis under the supervision of E. L. Chaffee, who is making his headquarters at the site; telephone Klmball 1313. The plant will consist of four reinforced concrete buildings: A six-story brew house; three-story stock house; three-story power plant building, and a two-story bottling house. Cost of the structures and equipment will total about \$750,000. California Brewing Association is the beverage subsidiary of Cereal Products Refining Co., of San Francisco

Contract Awarded.
ADDITION Cost, \$3000
SAN FRANCISCO. SE Twenty-second and Iowa Street.
Addition to factory.
Owner—Tubbs Cordage Co.
Engineer—F. J. Chapham, 901 Grizzly Peak Blvd., Berkeley.
Contractor—Lindgren & Swinerton, Inc., Standard Oil Bldg., San Francisco.

Planned.
BREWERY Cost, \$100,000
BENICIA. Solano Co., Cal. Benicia Tannery Property.
Alterations to brick building for brewery.
Owner—Benicia Brewing Co., 333 Kearny St., San Francisco.
Architect—Not Given.
Contractor—Barrett & Hilp, 918 Harrison St., San Francisco.

When construction will be started has not been decided as plans have not been drawn. J. M. Warren, 672 Russ Bldg., San Francisco, has filed articles of incorporation for \$1,000,000 with the Secretary of State.

Work Started.
WINERY Cost, \$—
MODESTO. Stanislaus Co., Cal. 11th and D Streets.
Alterations for winery.
Owner—Beard Land & Investment Co.
Architect—Not Given.
Lessee—Ernest J. Gallo, Maze Road, Modesto.

Fifteen huge wooden vats, with an estimated capacity of 10,000 gallons each, are being installed in the building, under the direction of Gallo.

Steel Awarded.
WAREHOUSE Cost, \$2500
SAN FRANCISCO. Federal Street near Rincon St.
Alter warehouse.
Owner—Hawley Terminal Co., 274 Brannan St., San Francisco.
Engineers—Ellison & Russell, 712 Pacific Bldg., San Francisco.
Steel Work—Western Iron Works.
Other work will be done by day's labor under supervision of the owner.

Steel Work Awarded.
FACTORY Cost, \$750,000
OAKLAND. Alameda Co., Cal. Foot of Adeline Street on the Estuary.
Steel frame and concrete coconut products factory (650x100 ft.) steel frame and reinforced concrete warehouse (40x146 ft.) pile foundations, flat slab roofing, corrugated iron roof and siding.
Owner—El Dorado Oil Works, Third and University Ave., Berkeley.
Engineers—Ellison & Russell, Pacific Bldg., San Francisco.
Manager of Constr.—L. S. King.
Steel work for elevator tower, scale house, etc., awarded to Steel Tank & Pipe Co. of Calif., 1100 4th Street, Berkeley.

Taking Sub-Bids.
ALTERATIONS Cost, \$—
SAN FRANCISCO. NE Sansome and Filbert Streets.
Alterations to warehouse.
Owner—North Star Brewery Co., Sansome and Filbert Sts., S. F.
Engineer—A. J. Mazurette, 576 Fifth St., Oakland.
Sub-bids will be taken in a few days by Mr. Brown on the premises.
As previously reported, structural steel awarded to McClintock-Marshall Co., 20th and Illinois Sts.

BAKERSFIELD. Kern Co., Cal.—Bakersfield Brewery will construct a plant in Bakersfield shortly to cost approximately \$150,000. Will have a capacity of 150 bbls. of beer per day. Officers of the company include: Jas. B. Bower, Vice President; Howard J. Scott, Treasurer and C. Fred Baker, Secretary. The site has not yet been selected.

To Be Done By Day's Work.
DARN Cost, \$1500
NAPA. Napa Co., Cal. On Jackson Street.
One-story galvanized iron barn (72x97 feet).
Owner—Poultry Producers of Central Calif., Napa.
Architect—Not Given.

Contract Awarded.
WAREHOUSE Cost, \$4200
SAN MATEO. San Mateo Co., Cal. Broadway.
Class B warehouse.
Owner—J. H. Dore, 1123 California Drive, Burlingame.
Work is being done by sub-con-

Bids Opened.
HEADQUARTERS BLDG. \$—
SACRAMENTO. Sacramento Co., Cal. Addition to headquarters building (work involves excavation, concrete, masonry, carpentry, mill work, structural steel, sheet metal steel sash, roofing, painting, glazing, plumbing and electrical installations).
Owner—State of California.
Architect—George B. McDougall, State Architect, Public Works Building, Sacramento.
Following bids received:
Leo Epp, 4745 Geary St., S. F.....\$16,770
C. J. Hopkinson, Sacramento..... 17,869
Holdener Constr. Co., Sacto..... 18,200
Azevedo & Sarmento, Sacto..... 18,200
P. F. Bender, North Sacto..... 18,795
Geo. Johanns, San Francisco..... 18,998

6— GARAGES & SERVICE STATIONS

September 15, 1933
To Be Done By Day's Work.
ALTERATIONS Cost, \$1000
SAN FRANCISCO. 100 Bush St.
Alter office and garage.
Owner—Shell Oil Co., 100 Bush St.
Plans by Engineering Dept. of Owner. (2697) 6

Plans Completed.
GARAGE Cost, \$—
GRASS VALLEY. Nevada Co., Cal. One-story frame and corrugated iron garage (22x42 feet).
Owner—Pacific Gas & Electric Co., 245 Market St., San Francisco.
Plans by Engineering Dept. of Owner.
Work will probably be done by owner's forces.

Ready For Figures This Week.
OIL STATION Cost, \$—
REDWOOD CITY. San Mateo Co., Cal. Middlefield Road and Jefferson St.
Concrete oil service station.
Owner—Mrs. Annabelle Grandi.

Structural Engr.—L. H. Nishkian, 525 Market St., San Francisco.
Lessee—Signal Oil & Gas Co.

Contract Awarded.
ALTERATIONS Cost, \$2900
NAPA. Napa Co., Cal. No. 74 Main Street.
Alter garage (concrete floor, remodel front, etc.)
Owner—Frank G. Johnson.
Architect—C. L. Hunt.
Contractor—Tom Jessiman, Napa.

Sub-Contracts Awarded.
GARAGE Cost, Price, \$8500
SALINAS. Monterey Co., Cal. One-story reinforced concrete garage 50x116 feet) concrete floors and walls, Summerbell trusses, steel sash, guarantee mineral roof, etc.
Owner—Mrs. Nellie Muller, Monterey Ave., Salinas.
Architect—Charles McKenzie, Twohy Bldg., San Jose.
Contractor—E. F. Reese, 35 Santa Lucia Ave., Salinas.
Reinforcing Steel—Concrete Engineering Co., 1280 Indiana St., San Francisco.
Plumbing and Sheet Metal—Anderson & Dougherty, Salinas.
Roof Trusses—Summerbell Roof Co., 354 Hobart St., Oakland.
Electric Work—Ealinas Electric Co., Salinas.
Roofing—Tynan Lumber Co., Salinas.
Mill Work—Salinas Planing Mill, Salinas.
Glass—W. P. Fuller & Co., 301 Mission St., San Francisco.

Contract Awarded.
SERVICE STATION Cont. Price, \$3700
SAN FRANCISCO. Seventeenth and Dolores Streets.
Steel service station.
Owner—Standard Oil Co., 225 Bush St., San Francisco.
Plans by Engineering Dept. of Owner.
Contractor—J. A. Grant, 666 Mission St., San Francisco.
Following submitted bids:
F. J. Early.
Barrett & Hilp.
Lindgren & Swinerton, Inc.
A. H. Vogt.

Plans Being Figured—Bids Close Sept. 25, 7:30 P. M.
GARAGE Cost, \$—
EUREKA. Humboldt Co., Calif. One-story frame garage building.
Owner—City of Eureka Board of Education.
Architect—Newton Ackerman, 102 W. Fourth St., Eureka.
Plans may be obtained from the architect's office, deposit of \$5 required.

7— FEDERAL BUILDINGS

CUSHING. Okla. — Until 3 P. M., October 6 (opening date postponed from Sept. 15), bids will be received by the Treasury Department, Office of the Supervising Architect, Washington, D. C. for the construction of the United States Post Office at Cushing, Okla. Plans may be obtained from the architect in Washington upon deposit of \$20, checks to be made payable to the Treasurer of the United States. Jas. A. Wetmore, acting supervising architect.

WASHINGTON. D. C. — Following bids received Sept. 11, by U. S. Treasury Department for screens for the Post Office building at Salt Lake City, Utah:
Steel Engineering Co., Salt Lake City, \$1750.
S. A. Robinson Co., Salt Lake City, \$2500.
The Robins Mfg. Co., Chicago, Illinois, \$1180.
Orange Screen Co., Maplewood, New Jersey, \$1192.

Chamberlin Metal Weatherstrip Co., Inc., Detroit, Mich., \$1294.
 Ceco Weatherstrip & Screen Products Chicago, \$1321.
 Cory Metal Corp., Cory, Pa., \$1487.
 Watson Mfg. Co., Inc., Jamestown, New York, \$1619.
 Kane Mfg. Co., Kane, Pa., \$1630.
 Cincinnati Fly Screen Co., \$1640.
 The Burrows Corp., Portland, Maine, \$2250.
 Chris Bernston, Salt Lake City, \$2490

WASHINGTON, D. C.—Bureau of Yards and Docks, Navy Department, announces the following additional proposed work:

Spec. 7446—Improve rifle range water supply (Yd. opening)
 Pearl Harbor, T. H. \$ 20,000
 Spec. 7447—Add improvement fuel oil plant (Bu. opening), Pearl Harbor, T. H. 85,000
 Spec. 7448—Causeway, Mare Island (funds not available) 90,000
 Spec. 7462—General repairs, Challas Heights and Port Lama (Yd. opening) 2,575
 Spec. 7463—Aircraft signs and pump house, Port Hueneme, Calif. 500
 Spec. 7466—Office and shop facilities, Sunnyvale 10,000
 Spec. 7471—Barracks, Coco Solo, C. Z. (funds not available) 185,000
 Spec. 7274—Adm. bldg. and dispensary, Coco Solo (funds not available) 180,000
 Spec. 7474—Barracks and mess Hall, Pearl Harbor (funds not available) 490,000

SUNNYVALE, Santa Clara Co., Cal.—Roy Lind, 54 Stanton St., San Francisco, submitted lowest bid at \$937 to Public Works Officer, 12th Naval District, 100 Harrison St., San Francisco, for alterations and additions to operations office at the Naval Air Station, Sunnyvale. Specification No. 7357.
 Other bidders were: Dinwiddle Construction Co., S. F., \$1230; Theo. Johanns, San Francisco, \$1328.

8—CLUB BUILDINGS

Final Sub-Contracts Awarded.
CLUB BLDG. Cont. Price, \$574,000
SAN FRANCISCO. NE Taylor and Post Streets.
 Four-story Class A brick and terra cotta club, gymnasium, dormitory, dining room, kitchen, elevators.
 Owner—Bohemian Club (Timothy Healy, Secretary).
 Architect—Lewis P. Hobart, Crocker Bldg., San Francisco.
 Structural Engineer—W. P. Day, Financial Center Bldg., San Francisco.
 Mechanical Engineer—Atkins & Parker, Hobart Bldg., San Francisco.
 Contractor—Dinwiddle Constr. Co., Crocker Bldg., San Francisco.
Masonry—Wm. Rainey & Sons, Inc., 323 Clementina St.
Hardwood Floor—J. E. Higgins Lumber Co., 423 51st St.
Metal Toilet Partitions—Price Specialties Co., 683 Howard St.
Steel Windows—Detroit Steel Products Co., 111 Sutter St.
Dampproofing—O. H. Mann & Co., Inc., 116 New Montgomery St.
Composition Sleepers—National Kellastone Co., 220 Bush St.
Medicine Cabinets—Hallenscheld & McDonald, 839 Howard St.
Glass—W. P. Fuller & Co., 301 Mission St.

OROVILLE, Butte Co., Cal.—G. W. Tolley, L. Van Vlack and H. B. Hlbard, Chico, at \$3476.08 awarded contract by County Supervisors to repair roof of the Chico Veterans' Memorial Building at Oroville.

Completing Plans.
HOT AIR SYSTEM Cost, \$—
ALAMEDA, Alameda Co., Cal. Neptune Beach.
 Hot air system for dance pavilion.
 Owner—Alameda Park Company.
 Architect—Willis Lowe, 1056 Hubert Road, Oakland.
 Bids will be called for in ten days.

Contracts Awarded.
LODGE BLDG. Cost, \$—
SAN FRANCISCO. Fourteenth and Landers Streets, 125x85 feet).
 Two-story and mezzanine floor and basement Class B reinforced concrete lodge building (auditorium 55x100 ft.), handball and basketball courts, showers, banquet rooms, seven lodge rooms, two card rooms and two committee rooms.
 Owner—United Irish Societies.
 Architect—John J. Foley, 770 5th Ave., San Francisco.
 Contractor—Robert McCarthy, 1363 14th Ave., San Francisco.
Heating, Ventilating & Plumbing: P. J. Wright, 2720 McAllister St., San Francisco.
Electric: Dowd Seid Electric Co., 2118 Mission St., San Francisco.
Painting—Thomas Walsh, 259 Church St., San Francisco.

SAN DIEGO, Cal.—Architect Wm. P. Lodge, California Bank Bldg., San Diego, is preparing plans for a club building to be erected at 2720 Midway Dr., San Diego, for the San Diego Supper Club, 630 C St., San Diego. Two-story, reinforced concrete, 104x146 feet in area, containing a large dining room with cork-cushioned dance floor, a casino, three bars, etc.

VALLEJO, Solano Co., Cal.—The Knights of Columbus plans to alter their present building early in the coming year at a cost of \$10,000. Work will include installation of an elevator, lobby, new offices and small lodge rooms.

SANTA MONICA, Los Angeles Co., Cal.—Architect Pierpont Davis, 3215 W. 6th St., Los Angeles, will prepare plans for a yacht club to be erected on a site, 60x100 feet, on the Santa Monica pier for the South Coast Corinthian Yacht Club; A. H. Kemp, vice commodore. It will be a two-story, Colonial style structure; frame and stucco construction, shingle roofing, etc. Estimated cost \$20,000. A general contractor will be selected from the club membership. Construction is scheduled to start within sixty days.

Plans Being Figured—Bids Close September 27, 4 P. M.
CHURCH Cost, \$15,000
CRESCENT CITY, Del Norte Co., Cal. One-story reinforced concrete church (to seat 275).
 Owner—Roman Catholic Archbishop (Father Nolan, Pastor), Crescent City.
 Architect—Harry Devine, California State Life Bldg., Sacramento.
 Bids are being taken for a general contract from a selected list of bidders. Names will be given later.

Plans Being Figured.
MEMORIAL BLDG. Cost, \$70,000
SAN LEANDRO, Alameda Co., Cal. Bancroft Ave. near Estudillo.
 Two-story reinforced concrete Veterans' memorial building (100x125 feet); tile roof, steam heating, system.
 Owner—County of Alameda.
 Architect—Henry H. Meyers, Kohl Bldg., San Francisco.
 A tentative opening date has been set for October 24 at 10:30 A. M.

9—HOSPITALS

September 15, 1933

Funds Allotted .
HOSPITAL Cost, \$243,000
FORT STANTON, New Mexico.
 Construct Marine Hospital.
 Owner—United States Government.
 Architect—Not Given.
 Project has been approved by the Treasury Department.

Commissioner to Prepare Plans.
COUNTY HOSPITAL
 Cost, \$300,000 to \$400,000
SEATTLE, Wash. 17-acre site, south end of Beacon Hill.
 Four-story reinforced concrete tuberculosis hospital.
 Owner—King County.
 Architect—V. W. Voorhees, Lloyd Bldg., Seattle, Wash.

Contract Awarded.
HOSPITAL Cost, \$12,000
SAN MATEO, San Mateo Co., Cal. El Camino Real and El Cerrito Aves.
 Two-story frame and stucco medical building.
 Owner—Dr. Alan Benner, 27 San Mateo Drive, San Mateo.
 Architect—Leo Sharps, 1477 Burlingame Ave., Burlingame.
 Contractor—Lengfeld & Olund, 220 3rd Ave., San Mateo.
 Building will contain office, laboratories, a minor operating room, and one or two rooms to take care of emergency patients.

10—HOTELS

Completing Plans.
HEATING PLANT Cost, \$—
ALAMEDA, Alameda Co., Cal. Neptune Beach.
 Reinforced concrete central heating plant building for 38 cottages.
 Owner—Alameda Park Company.
 Architect—Willis Lowe, 1056 Hubert Road, Oakland.
 Bids will be called for in ten days.

Contract Awarded.
HOTEL Cost, \$—
BOULDER CREEK, Santa Cruz Co. Frame hotel.
 Owner—Mrs. Frank Murphy, Santa Cruz.
 Architect—Not Given.
 Lessee—Wm. D. Alexander, Boulder Creek.
 Contractor—W. T. Ralston, Boulder Creek.
 Work has started on tearing down wall of building which was recently destroyed by fire.

12—POWER PLANTS

PASADENA, Los Angeles Co., Cal.—Until October 3, 11 a. m., bids will be received by City Directors to furnish and deliver metal clad switch gear at the Samanda Park Substation. Previous bids opened August 26, rejected. Benjamin F. Deharty, Superintendent.

PASO ROBLES, Cal.—City Council rescinded previous action rejecting bid on Diesel Power Plant and awarded contract to Superior Engine Co. of Los Angeles.

PASADENA, Los Angeles Co., Cal.—Until 11 a. m., October 3, new bids will be received by Pasadena city board of directors for furnishing and delivering metal clad switch gear for Municipal Light Plant, to be installed at Lamanda Park Substation. Benjamin F. DeLanty, superintendent. Bids received August 22 rejected.

LOS ANGELES, Cal.—Wm. Davidson, 1006 Hall of Records, county mechanical engineer, submitted a cost estimate of \$20,000 to the county supervisors September 18 for constructing extensions to the power house building at the General Hospital, 1100 Mission Road.

HEALDSBURG, Sonoma Co., Cal.—The Geysers Development Co. (R. E. Berling, president), 417 South Hill St., Los Angeles, is planning the following improvements in the city of Healdsburg.

Install and place a power plant consisting of two 1000 K.V.A. turbo-generator units with necessary power lines and appurtenances for delivery of electricity. Install at the city pumping plant a low speed, multi-cylinder, heavy duty gasoline engine and three phase, 60 cycle, 2400 volt, 100 K.V.A. alternating current generator and proper exciter.

Further details will be announced at a later date.

**13— PUBLIC BUILDINGS
FIRE HOUSES A JAILS**

WOODLAND, Yolo Co., Cal.—According to Robert G. Alderman, secretary of the Chamber of Commerce, preliminary plans are under way for the construction of a municipal swimming pool. Funds to be obtained from the Reconstruction Finance Corporation.

SANTA BARBARA, Santa Barbara Co., Cal. — Associated Architects of Santa Barbara, John Frederick Murphy, chairman, 116 E. Sola St., Santa Barbara have been commissioned by the Santa Barbara City Council to prepare preliminary plans for the proposed civic auditorium to be built in Santa Barbara at a cost of approximately \$300,000. The city expects to finance the project with Federal funds.

PHOENIX, Ariz.—Arizona Museum Association has requested the Phoenix City Commission to include an item of \$25,000 in the sum sought for the Public Works Administration. If obtained, the money would be used for the construction of an addition to the museum.

LOS ANGELES, Los Angeles Co., Cal.—The Los Angeles County Supervisors approved the application that will be made to the Federal Administration of Public Works for \$3,000,000 to finance the construction of a county office building in the Civic Center.

SAN FRANCISCO—San Francisco Board of Supervisors will ask Federal Aid to construct proposed new Hall of Justice estimated to cost \$2,000,000. Board approved the project and voted to submit it to State Advisory Board on the NRA. Project must also be voted by the people.

MARTINEZ, Contra Costa Co., Cal.—Contra Costa County Board of Supervisors awarded a contract Sept. 18 for moving a frame building from the county courthouse grounds to the grounds of the county hospital to Herbert D. Baker of Richmond. Baker's bid was \$334.

Other bidders were P. J. Roth, \$510; T. Sino & Sou, \$548.50; H. C. Johnson \$450 and Ferdinand Stamm, \$500.

SAN MATEO CO., Cal.—San Mateo County will make application to Public Works Administration for federal loans to finance the following:

Construct new county office building on site of juvenile home on Middlefield road, Redwood City, estimated to cost \$200,000.

Addition to county courthouse, to cost \$148,000.

Addition to county relief home, to cost \$24,075.

LOS ANGELES, Cal.—The Los Angeles County Supervisors approved the application that will be made to the Federal Administration of Public Works for \$3,000,000 to finance the construction of a county office building in the Civic Center. Regional Planning Commission has been authorized by the supervisors to prepare tentative plans and specifications for the building, which will be erected near the junction of extended Spring St. and the proposed traffic circle on Sunset Blvd.

14— RESIDENCES

Contract Awarded.
RESIDENCE Cost, \$6340
FIREBAUGH, Fresno Co., Cal.
One-story frame residence.
Owner—Robert Stevenson.
Architect—Not Given.
Contractor—Clyde B. Jones, 1525 Thomas St., Fresno.

Plans Being Prepared.
RESIDENCE Cost, \$—
SAN FRANCISCO, Forest Hill.
Two-story frame and brick veneer residence.
Owner—Albert Dallenkamp.
Architect—Edward E. Young, 2202 California St., San Francisco.

Contract Awarded.
RESIDENCE Cost, \$—
SAN MATEO, San Mateo Co., Calif.
Baywood Park.
One-story and basement frame and stucco residence (6 rooms and 2 baths); tile and composition roofing, hardwood floors, etc.
Owner—Ernest Pierre.
Architect—William H. Toepke and G. Hinterman, Associated, 74 New Montgomery St., San Francisco.
Contractor—H. H. Larsen Co., 64 South Park, San Francisco.

Sub-Contracts Awarded.
RESIDENCE Cost, \$9000
BERKELEY, Alameda Co., Cal. 2827 Shasta Ave.
Two-story frame and stucco residence (rustic exterior) (6 rooms); shingle roof.
Owner—Gerald P. Pearce, 1717 Oxford St., Berkeley.
Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.
Carpentry—Dildine & McKibben, 350 63rd St., Oakland.
Plumbing—C. W. Knights, 1634 Grove St., Berkeley.
Hardware—Sunset Hardware Co., 2104 Shattuck Ave., Berkeley.
Tile—Rigney Tile Co., 3012 Harrison Street.
Brick—Charles Hummer, 2221 34th St.

Completing Plans.
RESIDENCE Cost, \$7500
CARMEL, Monterey Co., Cal.
Two-story frame and stucco residence (7 rooms and 2 baths) and garage.
Owner—C. T. Anderson.
Architect—C. J. Ryland, Spazier Bldg., Monterey.
Ready for bids shortly.

Sub-Contracts Awarded.
RESIDENCE Cost, \$8000
OAKLAND, Alameda Co., Cal. No. 378 Longridge Road.
Two-story and basement frame and stucco residence (8 rooms).
Owner—C. E. Bardwell Jr., 4217 Bal-four Ave., Oakland.
Architect—Not Given.
Concrete—Allen MacDonald, 1539 39th Ave., Oakland.
Millwork—Pacific Mfg. Co., 1315 7th St., Oakland.

Fixtures—Voorhees & Maschio, 4121 Broadway, Oakland.
Electric—Dimond Electric Co., 2100 Hopkins St., Oakland.
Plumbing—A. Itowse, 978 Appar St., Oakland.
Roofing—Mastercraft Tile & Roofing Co., 1 20th St., Richmond.

Sub-Contracts Awarded.
RESIDENCES Cost, \$5000 each
OAKLAND, Alameda Co., Cal. No. 2762 E-38th St. and 3763 Elston Avenue.
Two one-story and basement frame and stucco residences (6 rooms).
Owner and Builder—J. W. Scammell, 424 Scenic Ave., Piedmont.
Plans by Owner.
Plastering—Herman Thorndyke, 2450 E-21st St., Oakland.
Cement Work—John Devoto, 5268 Lawton Ave., Oakland.
Roofing—M & L Roofing Co., 9224 Foothill Blvd., Oakland.
Tile—Superior Tile Co., 3743 Broadway, Oakland.
Electric—Dimond Electric Co., 2100 Hopkins St., Oakland.
Plumbing—Wm. R. Rouse, 3606 Ardley Ave., Oakland.
Excavating—Ariss-Knapp Co., 961 41st St., Oakland.
Painting (on Part)—J. F. Quigley, 7516 Outlook Ave., Oakland.
Heating—Atlas Heating & Ventilating Co., 1451 32nd St., Oakland.
Roofing—California Pottery Co., East 12th St. and 22nd Ave., Oakland.
Hardware—Maxwell Hardware Co., 1320 Washington St., Oakland.
Flooring—Ability Hardwood Floor Co., 1807 40th Ave., Oakland.
Lumber—Scammell Lumber Co., Foot of Ninth Ave., Oakland.
Archie Cook, 100 Greenbank Ave., Piedmont, is the engineer.

Sub-Contracts Awarded.
RESIDENCE Cost, \$3400
OAKLAND, Alameda Co., Cal. No. 4526 West Street.
One-story frame residence (5 rooms).
Owner—John Brusasco, 46th and West Sts., Oakland.
Architect—Not Given.
Contractor—John Taramila, 827 Madison St., Oakland.
Plastering—Giachetti & Marietti, 1209 Derby St., Berkeley.
Millwork and Lumber—Tilden Lumber Co., Foot of University Ave., Berkeley.
Plumbing—Suendermann Plumbing Co., 921 University Ave., Berkeley
Brick—William S. Dill.
Hardwood Floors—Dominic Ranconi, 5127 Lawton Ave., Oakland.
Concrete—Triberti & Massaro, 957 38th St., Oakland.

Plans Being Revised.
RESIDENCE Cost, \$10,000
SAN FRANCISCO, E San Pablo Ave. N Yerba Buena.
Two-story and basement frame and stucco residence (8 rooms and 3 baths); slate roof, gas hot air heating system, tiled baths, hardwood floors, etc.
Owner—John B. King.
Architect—Martin Rist, Phelan Bldg., San Francisco.

Bids Opened.
RESIDENCE Cost, \$7500
PALO ALTO, Santa Clara Co., Cal.
Two-story frame and stucco residence
Owner—Dr. McKinley Reynolds.
Architect—Arch Dole Thompson and E. R. Reichel, Associate, 532 Emerson St., Palo Alto.
Vance Brown, 532 Emerson St., Palo Alto\$7494
Orton & Tunburg, Palo Alto..... 7717
Wells P. Goodenough, Palo Alto 7960
Henry Hoyt, Palo Alto..... 7990
J. W. Cabbage, Palo Alto..... 7993
Bids were taken under advisement.

Preliminary Sketches Being Prepared.

RESIDENCE Cost, \$—
SAN FRANCISCO. Balboa Terrace.
 Two-story frame and stucco Spanish style residence (9 rooms and 2 baths and social hall); gas heating, canvas walls, tile roof, oak plank floors, tile terrace, etc.
 Owner—Withheld.
 Architect—S. A. Colton, 544 Market St., San Francisco.

Owner Taking Gen. rel Bids.
RESIDENCE Cost, \$3250
CROCKETT, Contra Costa Co., Cal.
 One-story and basement frame and stucco residence (5 rooms), detached garage, English style, shake roof, gas heating system, pine floors, etc.
 Owner—Glen L. Markeley, Crockett.
 Architect—Mario Corbett, 683 Sutter St., San Francisco.

Construction Postponed Until Spring.
RESIDENCE Cost, \$—
LAFAYETTE, Contra Costa Co., Cal.
 One-story and basement frame and stucco residence (6-room) Spanish style, tile roof, gas heating system, hardwood floors, etc.
 Owner—Withheld.
 Architect—Miller & Warnecke, Financial Center Bldg., Oakland.

Sub-Contracts Awarded.
RESIDENCE Cost, \$25,000
BERKELEY, Alameda Co., Cal. Tamalpais Road.
 Two-story and basement frame, brick veneer and stucco residence (12 rooms and 3 baths) terra cotta tile roof, gas hot air heating system, colored tile baths, steel sash, hardwood floors, etc.
 Owner—Frederick Benner, 220 Montgomery St., San Francisco.
 Architect—William Wilson Wurster, 260 California St., San Francisco.
 Contractor—Walter Sorensen, 2940 Piedmont Ave., Berkeley.
Glass—W. P. Fuller & Co., J. C. Owens Sheet Metal Works, 1612 Carlton St., Berkeley.
Steel Sash—East Bay Glass Co., 621 Sixth St., Oakland.
Ornamental Iron Work—Pacific Iron Works, 1155 67th St., Oakland.
Plastering—Spaan Bros.
Concrete Work—Fred Nelsen.
Mill Work—Pacific Mfg. Co.
Roofing—General Roofing Co., 3985 Beach St., Oakland.
Decorative Tile—Brockhurst Tile Co., 2819 Shattuck Ave., Berkeley.
Painting—Peter Madsen, 2431-B Jefferson St., Berkeley.
Electrical Work—Geo. Wolfe, 795 Alcatraz Ave., Berkeley.
Plumbing—W. H. Picard, 5656 College Ave., Oakland.
Lumber—Hogan Lumber Co., Second and Alice Sts., Oakland.
Sheet Metal Work—J. C. Owens, 1612 Carlton St., Berkeley.

Excavating Contract Awarded.
RESIDENCE Cost, \$9000
SAN FRANCISCO. St. Francis Wood.
 Two-story and basement frame and stucco residence.
 Owner—Mr. Stocker.
 Architect—Masten & Hurd, 233 Post St., San Francisco.
 Contractor—Clinton-Stephenson Construction Co., 550 Montgomery St., San Francisco.
Excavating—Devencenzi Bros., 150 Collins St.

Planned.
RESIDENCES Cost, \$—
NAPA, Napa Co., Cal. On Trancas Road and Foothill Blvd.
 Nine one-story frame residences.
 Owner—D. F. Armstrong, Napa.
 Architect—Not Given.

Plans Completed.
RESIDENCE Cost, \$4000
SAN FRANCISCO. SE Twenty-first Ave. and Kirkham St.
 One-story and basement frame residence.
 Owner—H. Christensen, 1422 27th Ave., San Francisco.
 Architect—Charles Strothoff, 2274 15th St., San Francisco.

Contract Awarded.
ALTERATIONS Cost, \$3590
CARMEL, Monterey Co., Cal. Lots 1 to 6 Blk 42, Addition No. 2.
 Alterations and additions to residence and garage.
 Owner—Mrs. Nell Bosworth, Torres and Mt. View Sts., Carmel.
 Architect—Not Given.
 Contractor—Hugh Comstock, Dolores and Seventh Sts., Carmel.

Taking Sub-Bids — Roofing contract Awarded.
RESIDENCE Cost, \$20,000
HILLSBOROUGH, San Mateo Co., Cal.
 Two-story and basement frame and stucco residence (13 rooms and 4 baths) English type, slate roof, gas heating system, hardwood floors.
 Owner—Nathan Rothman.
 Architect—Hyman & Appleton, 68 Post St., San Francisco.
 Contractor—Jacks & Irvine, Call Bldg., San Francisco.
Roofing—Alta Roofing Co., 976 Indiana St., San Francisco.

Sub-Contracts Awarded
RESIDENCE Cost, \$12,000
ROSS, Marin Co., Cal.
 One-story and basement frame and brick veneer residence (6 rooms), redwood shake roof, oil hot air heating system, hardwood floors, bath, etc.
 Owner—Victor E. Kleven.
 Architect—W. W. Wurster, 260 California St., San Francisco.
 Contractor—Young & Horstmeier, 461 Market St., San Francisco.
Plumbing: Geo. Shield Co., San Rafael.
Electrical Work: North Bay Electric Co., San Rafael.
Tile Work: Art Tile & Mantel Co., San Francisco.
Roofing: Marsh Shingle Roof Co., Oakland.

Contract Awarded.
RESIDENCE Cost, \$6390
HEALDSBURG, Sonoma Co., Cal. Fenton Acres.
 One-story and basement frame residence and garage.
 Owner—Mrs. Kenneth L. Fenton, Healdsburg.
 Draftsman—W. Weston Chance, 233 Post St., San Francisco.
 Contractor—Heitz & Witter, Healdsburg, Cal.

Plans Being Prepared.
RESIDENCE Cost, \$6500
CLARENDEN HEIGHTS.
 One-story frame and stucco residence, 6 rooms, two baths.
 Owner—Miss Ethel McFadden.
 Architect—Chas. Strothoff, 2274 15th St., San Francisco.
 Ready for figures in a few days.

Plans Being Prepared.
YOSEMITE PARK, Mariposa Co., Cal.—Plans are under way in the architectural department of the National Park Service, 409 Underwood Building, San Francisco, for several residence buildings in Yosemite Valley, according to Edward A. Nickell, supervising architect.

The Yosemite work includes present drawings for a rustic style \$19,000 four-family apartment structure of two stories, a \$7,000 dormitory build-

ing, a \$15,000 group of three-story, six-room employees' residences, and an eight-stall garage. A \$6,500 residence and minor buildings are contemplated for erection at Wawona.

Work is to commence shortly on a comfort station and ranger station at Chinquapin.

Col. C. G. Thompson, superintendent of construction in Yosemite National Park.

Work has started on one of the buildings. Work will be done mostly by day's labor.

Sub-Contracts Awarded.
RESIDENCE Cost, \$10,000
SAN FRANCISCO. Balboa Terrace, Darien Way and San Benito.
 Two-story and basement frame and stucco residence (8 rooms and 3 baths, tile roof, gas heating system, canvas walls, hardwood floors and trim, brick exterior, colored tile baths, etc.).
 Owner—Dr. W. G. Burkhard, 359 Fair Oaks St.
 Architect—Charles Strothoff, 2274 15th Street.
 Contractor—Joseph Bettancourt, 422 San Anselmo St., San Bruno.
Plumbing: Scott Co., 243 Minna St., San Francisco.
Tile Work: Albert Cantrell, 346 22nd Ave., San Francisco.
Roofing: Alta Roofing Co., 976 Indiana St., San Francisco.
Glass: W. P. Fuller Co., 301 Mission St., San Francisco.

As previously reported, grading is being completed by L. Devencenzi & Co., 148 Blake St.

Sub-Bids Wanted.
RESIDENCE Cost, \$4000
BURLINGAME, San Mateo Co., Cal.
 One-story and basement frame and stucco residence (6 rooms), garage, tile and composition roof, gas heating system, tiled bath, hardwood floors, etc.
 Owner & Builder—Charles Hammer, 1524 Floribunda Ave., Burlingame.
 Architect—D. E. Jaekle, Call Bldg., San Francisco.

Contract Awarded.
RESIDENCE Cost, \$—
STOCKTON, San Joaquin Co., Cal.
 Two-story and basement frame and brick veneer residence (9 rooms, and 3 baths) shingle roof, wood sash, gas heating system, electric refrigerating, etc.
 Owner—Dr. G. H. Sanderson, Medicodental Bldg., Stockton.
 Architect—W. W. Wurster, 260 California St., San Francisco.
 Contractor—E. Merlo, Moreing's Lané, Stockton.

Plans Being Figured.
RESIDENCE Cost, \$10,000
SAN FRANCISCO. Nineteenth Ave. 100 S Anza Street.
 Two-story and basement frame and stucco residence (11 rooms and 2 baths), tile roof, tiled baths and kitchen, hardwood floors and trim, hot water heating system or warm air fired boiler, etc.
 Owner—Minnie Cope, 1957 McAllister St., San Francisco.
 Architect—J. Lloyd Conrich 214 9th Ave., San Francisco.
 Following will submit bids. To be opened Sept. 25, 12 Noon.
 L. Cohn, Russ Bldg.
 William Spivock, Hohart Bldg.
 C. O. Blincoe, 2663 15th Ave.
 Fred Anderson, 827 25th Ave.
 G. P. W. Jensen, 320 Market St.
 Fred H. Field, 2370 Sutter St.

Sub-Bids Wanted.
RESIDENCE Cost, \$—
SAN FRANCISCO. Thirty-seventh Ave. S Balboa Street.

One-story and basement frame and stucco residence (five rooms) tile and composition roof, gas heat, colored tile bath, canvas walls, hardwood floors, etc.

Owner—L. Sangiacomo, 759 37th Ave., San Francisco.

Plans by L. Dallarso, 32 Jansen St., San Francisco.

Contractor—A. Sangiacomo, 422 Ninth Ave., San Francisco.

Sub-bids are wanted on plastering, painting, steel sash, steel beams and warm air furnace.

As previously reported, excavation awarded to Devincenzi Co., 148 Blake St.

Contract Awarded.

RESIDENCE Cost, \$5500
SAN JOSE, Santa Clara Co., Cal. NW University Ave. and Chapman St. One-story frame residence (6 rooms).
Owner—Lester A. Bunds, 1247 Liberty St., San Jose.
Architect—Not Given.
Contractor—Pacific Mfg. Co., San Jose

To Be Done By Day's Work.

RESIDENCES Cost, \$4500 each
SAN FRANCISCO, W Twenty-third Ave. 40 and 80 S Ocean Ave.; SW Ave. 225 and 250 S Irving St.
Five one-story and basement frame residences.

Owner—R. F. Galli, 1574 28th Ave., San Francisco.

Architect—Not Given.

Plans Being Revised.

RESIDENCE Cost, \$6500
WALNUT CREEK, Contra Costa Co. One-story frame and stucco residence 8 rooms and 2 baths), asbestos shingle roof, oil burning heating system, hardwood floors, tiled baths, etc.

Owner — Misses Alice and Aileen Martin.

Architect — Ray Keefer, 770 Wesley Ave., Oakland.

New bids will be called for in two weeks.

Preparing Plans.

RESIDENCES Cost, \$5000 each
OAKLAND, Alameda Co., Cal. Mills-view Avenue.
Five one-story frame residences.

Owner — Wm. Sims, 1930 Courtland Ave., Oakland.

Plans by Owner.

Work will be done by day's labor and will start in two weeks.

Sub-Contracts Awarded.

RESIDENCE Cost, \$8000
SAN FRANCISCO, Forest Hill.
Two-story and basement frame, stucco and brick veneer residence (seven rooms and 3 baths); shingle tile roof, hot air heating system, tiled baths, hardwood floors, etc.

Owner—W. G. Cannon, 109 Madrone St., San Francisco.

Architect—Masten & Hurd, 233 Post St., San Francisco.

Contractor—Henry Papenhausen, 595 Victoria St., San Francisco.

Mill Work—Worden Bros.

Lumber—Spring Valley Lumber Co.
Electrical Work—Galvin Bros.
Plastering—Campbell & King.

Sheet Metal Work—Atlas Sheet Metal Works.

Plumbing—Higgins & Krause.
Painting—Reliable Painting Co.
Concrete Work—P. Dannelly.
Glass—W. P. Fuller & Co.

Sub-Contracts Awarded.

RESIDENCE Cost, \$10,000
ATHERTON, San Mateo Co., Cal.
One-story and basement frame and stucco residence (11 rooms and 4 baths) slate roof, gas heating system, hardwood floors, tiled baths, colored fixtures, slate terraces.

Owner—Mrs. Alice Brown.

Architect — F. F. Amandes, 1879 18th Ave., San Francisco.

Contractor — Aetna Constr. Co., 160 Miramar Ave., San Francisco.

Excavation & Carpentry—Aetna Construction Co., San Francisco.

Concrete — Blacalau Concrete Co., San Francisco.

Lumber—Wisnom Lumber Co., San Mateo.

Plumbing—Hartson, San Francisco.

Sheet Metal—Cottler, San Mateo.

Roofing — Empire Roofing Co., San Francisco.

Plastering—Donalson, San Carlos.

Painting—Wollnick, San Francisco.

Heating—Cottier, San Francisco.

Electric Wiring—Electric Service, San Mateo.

Glass—W. P. Fuller & Co., San Francisco.

Tiling—Burgess Tile Co., San Francisco.

Brick Work — Martin Nelson, San Francisco.

Mill Work—Warden Bros., San Francisco.

Sub-Contracts Awarded.

RESIDENCE Cost, \$5000
OAKLAND, Alameda Co., Cal. No. 2922 Sheffield Avenue.
Two-story frame and stucco residence (6 rooms).

Owner — Carl Larson, 4481 Moraga Ave., Oakland.

Architect—Not Given.

Contractor—C. W. Leekins, 4481 Moraga Ave., Oakland.

Plastering—Pryor & Walsh.

Electric—E. L. Reed, 2541 Seminray Ave., Oakland.

Hardwood Floors — F. M. Seat, 3115 64th Ave., Oakland.

Painting — J. W. Timmis, 3327 35th Ave., Oakland.

Plumbing—Albert Petitjean, 1649 11th Ave., Oakland.

Brick—A. E. McMurtry, 6326 Broadway Terrace, Oakland.

Tile—Superior Tile & Products Co., 3743 Broadway, Oakland.

Millwork—Eureka Mill & Lumber Co., 3615 E-14th St., Oakland.

Heating—M. C. Henry, 1183 53rd St., Oakland.

15—SCHOOLS

PORTERVILLE, Tulare Co., Cal.—Fred W. Stone of Porterville at \$1,639.60 awarded contract by E. M. Hammond, Clerk, Porterville School District, for the installation of a heating plant in the Morton Street School House in Porterville.

Other bidders were:
Price Hardware Co., Porterville, \$1697.90.

E. A. Winn, Porterville, \$1807.20.
2613 1st report Sept. 5, 1933

LOS ANGELES, Los Angeles Co., Cal.—The Los Angeles Board of Education has appointed the following structural engineers to prepare plans and specifications, including preliminary drawings, analyses, structural design computations and estimates of cost, for the work of repairing, reconstructing and reinforcing Los Angeles school buildings:

Oliver G. Bowen, 1144 S. Grand Ave., George Washington high school.
D. D. Smith, 816 W. Fifth St., Thomas Jefferson high school.

Murray Erick, 811 W. Seventh St., Manual Arts high school.

Ralph DeLine, 1144 S. Grand Ave., Graham school.

W. M. Bostock, 6732 Passaic, Huntington Park, Pacific Blvd. school.

C. J. Derrick, 2021 Kenilworth Ave., Russell school.

Elaine Noice, 5436 Carlton Way, Seventy-fifth Street school.

COMPTON, Los Angeles Co., Cal.—Compton City School District has made application to the Public Works

Administration for aid in financing the reconstruction of the following city schools in Compton: Tamarind school, \$91,400; George Washington school, \$50,000; Clark Street school, \$18,000; Holly Avenue school, \$39,000; Francis Willard school, \$42,500; Orange Street school, \$73,100; Colonel Lindbergh school, \$41,400; Mayo Avenue school, \$65,000; H. L. Gogerty, Oil Exposition Bldg., Compton, is the architect for the district, and Wm. H. Baker, Compton, is the structural engineer.

SAN FRANCISCO, Cal.—Western Asbestos Magnesia Company, 675 Townsend St., at \$86.50, submitted low bid to Department of Public Works for insulating boiler at the Bryant School. Only other bid was submitted by the Standard Asbestos Company, at \$99.50. Bids held under advisement.

SANTA MONICA, Los Angeles Co., Cal.—Santa Monica City School District has applied to the Public Works Administration for a loan of \$500,000 with which to finance the strengthening and reconstruction of twenty school buildings in Santa Monica. Marsh, Smith & Powell, Architects' Ldg., Los Angeles, are the architects for the district. 15

FILLMORE, Ventura Co., Cal.—Fillmore Grammar School District has postponed the opening of bids, formerly scheduled for September 18, for the erection of a five-classroom addition to the Sespe Avenue School in Fillmore. A bond election will be called at once for the purpose of providing additional funds in the sum of \$7500, necessary to completely finance the project. This district has \$20,000 on hand at the present time. Frank R. Schaefer, 1117 Kerckhoff Bldg., Los Angeles, is the architect.

SANGER, Fresno Co., Cal.—Until October 2, 1933, 8 P. M., bids will be received by H. F. Knapp, Clerk of the Sanger Union High School District, for re-roofing the old part of the high school building.

LOS ANGELES, Cal.—The Los Angeles Board of Education has appointed the following structural engineers to prepare plans and specifications, including preliminary drawings, analyses, structural design, computations and estimates of cost, for the work of repairing, reconstructing and reinforcing Los Angeles school buildings.

D. L. Narver, 514 N. Rexford Drive, Beverly Hills (CR 4765), State Street School.

Grant & Bruner, 607 Ferguson Bldg. (MI 2805), Burnside Avenue school.

R. McC. Benfield, 615 Chamber of Commerce Bldg., Cienega school.

Harold A. Nelson, 236 S. Lapeer Dr., Beverly Hills (CR11289), Brentwood school.

Lawrence J. Waller, 4350 Beverly Blvd. (NO 4511), Bandini Street school
Ellis Wing Taylor, 803 W. 3rd St. (TR 7231), Cabrillo Avenue school.

Wm. Mellema, 1661½ Beverly Blvd. (MU 3951), David Starr Jordan high school.

SEALE BEACH, Orange Co., Cal.—Seal Beach Elementary School District has requested the Public Works Administration for a loan of \$49,000 and a grant of \$21,000 to be used for constructing new schools and remodeling existing buildings. New construction would include an auditorium-gymnasium to cost \$21,400; other buildings, \$33,400; grounds, \$1000; equipment, \$6000. Marsh, Smith & Powell, 516 Architects' Bldg., Los Angeles, are the architects for the dist.

WHITTIER, Los Angeles Co., Cal.—
 Bids received by the Whittier Union High School District September 18, for construction of a new classroom and science building in Whittier, in accordance with plans and specifications prepared by Architect R. L. Warren, Emporium Bldg., Whittier, are as follows:

Clearing of Site—Jos. Maiser, \$39,800
 Steel Joists—Jones & Laughlin, \$3750.

Miscellaneous and Ornamental Iron—Hurley Wilson, \$1056.
 Roofing—Barr Lumber Co., \$2120.
 Sheet Metal and Skylights—James Hamilton, \$173.
 Steel Windows—Druwhlt Metal Products Co., \$6720.
 Carpentry—J. N. Linkletter, \$27,000.
 Furring, Lathing and Plastering—A. J. Karelius, \$11,478.
 Metal Toilet Partitions—Continental Bldg. Specialties Co., \$350.
 Glass and Glazing—Farmer's Hardware Co., \$1333.75.
 Tile Work—H. L. Keck, \$855.
 Painting—W. S. Neilson, \$2180.
 Acoustical Treatment—Warren & Bailey Co., \$1317.
 Plumbing—Allan Black, \$10,000.
 Heating—H. Barkelew, \$10,325.
 Electrical Work—R. R. Jones Elec. Co., \$14,622.
 All bids held under advisement.

ADDITION Cost, \$2800
 Contract Awarded.
SAN FRANCISCO, E Alabama St.,
 bet. 24th and 25th Sts.
 Addition to school.
 Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.
 Architect—Martin J. Rist, 944 Phelan Bldg., San Francisco.
 Contractor—Moore & Roberts, 693 Mission St., San Francisco.

Bids Wanted—To Close Sept. 30, 7:30 P. M.
SCHOOL Cost, \$—
FORT JONES, Siskiyou Co., Cal.
 One-story wood frame fireproof grammar school (3 classrooms) concrete foundations, cement stucco exterior, etc.
 Owner—Fort Jones Union Elementary School District.
 Architect—Starks & Flanders, Forum Bldg., Sacramento.
 Bids will be received by W. D. Mathews, President School Board.
 Plans and specifications obtainable from the Architect upon deposit of \$10.

Contract Awarded.
ALTERATIONS Cost, \$—
PETALUMA, Sonoma Co., Cal. Cor.
 Liberty and Washington Sts.
 Alter kindergarten (new roof, plumbing, painting, etc.)
 Owner—Pepper Free Kindergarten.
 Architect—Not Given.
 Contractor—Vogensen Construction Co., Petaluma.

16—BANKS, STORES AND OFFICES

Contract Awarded.
ALTERATIONS Cost, \$1500
SAN FRANCISCO, No. 38 Third St.
 Alter restaurant.
 Owner—Leighton Industries, Inc., 25 Taylor St., San Francisco.
 Architect—E. G. Bolles, 631 Market St., San Francisco.
 Engineer—C. F. Wieland.
 Contractor—Royal Show Case Co., 770 McAllister St., San Francisco.

Contract Awarded.
ALTERATIONS Cost, \$—
SAN FRANCISCO, E Alabama St.,
 bet. 24th and 25th Sts.
 Addition to school.
 Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.
 Architect—Martin J. Rist, 944 Phelan Bldg., San Francisco.
 Contractor—Moore & Roberts, 693 Mission St., San Francisco.

Bids Being Taken.
PINE FLOOR Cost, \$200
SAN FRANCISCO, No. 1351 Harrison Street.
 New pine floor for grocery store (iron cloth and brick work foundations).
 Owner—C. DeNevers, 105 Montgomery St., San Francisco.
 Architect—Not Given.
 Bids being taken by owner.

FRESNO, Fresno Co., Cal.—The
 Colyear Motor Sales Co., Frank C. Lewis, manager, has leased the building at 2037 Toulumne St. near Van Ness Ave. and will remodel with new steel counters, storage shelves, etc. Building has 60-foot frontage and 5400

Contracts to Be Awarded.
REBUILD STORE Cost, \$15,000
TURLOCK, Stanislaus Co., Cal. Main and Center Streets.
 Rebuild one-story brick store (recently destroyed by fire); plate glass, maple flooring, tile work, tile and composition roof.
 Owner—E. B. Osborne, Turlock.
 Architect—G. N. Hillburn, 1312 I St., Modesto.

General Work
Niel & Wirtner, 322 Myrtle St.
 Turlock, approx. \$11,000
Electrical Work
Hansen's, Modesto, approx. \$ 800
Painting
John O'Hea, 127 Columbia,
 Turlock, approx. \$ 400

Being Done By Day's Labor.
STORE Cost, \$—
SANTA CRUZ, Santa Cruz Co., Cal.
 Cooper Street.
 Grocery store building, 45x45 feet.
 Owner—Leland B. Chin, San Francisco
 Architect—Not Given.
 Mill work and lumber has been awarded to Wood Bros., Santa Cruz.

Contract Awarded.
REMODEL Cost, Approx. \$35,000
NAPA, Napa Co., Cal. Second and Brown Streets.

Remodel store and loft building (new store fronts, steel, heating, elevator, painting, roofing, etc.)
 Owner—D. L. Beard, Behlow Bldg., Napa.
 Plans by Frederick H. Whitton, 369 Pine St., San Francisco.
 Lessee—Winship & Beard Co.
 Contractor—E. W. Dougherty, 1125 First St., Napa.

Taking Sub-Bids.
STORE Cost, \$—
SAN FRANCISCO, Twenty-first Ave.
 and Irving Street.
 One-story reinforced concrete store building.
 Owner—Richard Faulkner, 1336 Judah St., San Francisco.
 Architect—Not Given.
 Real Estate Agent—Waymire & Cunningham, 1950 Irving Street, San Francisco.
 Contractor—George Wagner, 181 South Park, San Francisco.

Planned.
ALTERATIONS Cost, \$20,000
FRESNO, Fresno Co., Cal. Van Ness Ave. and Mariposa St.
 Alterations to building for grocery store (11,000 sq. ft. of floor space)
 Owner—Booras & Pappas, Fresno.
 Architect—Not Given.

LOS ANGELES, Cal.—Howe Bros.,
 1198 San Pedro St., have been awarded a contract for the plumbing to be installed in the newspaper building to be erected at the southwest corner of First and Spring Sts. for the Los Angeles Times. Grinnell Company of the Pacific was awarded the contract for the sprinkler system. P. J. Walker Co., 3900 Whiteside Ave., are managers of construction. Gordon B. Kaufmann, architect, 610 Union Bank Bldg.

Bids Opened.
SALESROOM BLDG. Cost, \$—
SAN JOSE, Santa Clara Co., Cal.
 Julian Street.
 One-story reinforced concrete and brick salesroom building, glass front (66x61 ft); asphalt & gravel roof, cement floors, etc.
 Owner—John Bean Mfg. Co., 217 W. Julian St., San Jose.
 Architect—William Higgins, 19 N. Second St., San Jose.
 Low Bidder—Chas. Thomas, 127 Clayton Ave., San Jose.
 Following bids received:
 Charles Thomas \$4550
 George Honore 4750
 Wm. Cauldwell 4791
 Megna & Newell 4870
 Neves & Harp, Santa Clara 4885
 Carl N. Swenson 5123
 Robert Gray 5169
 R. O. Summers 5380
 J. D. Carlsen 5683
 All of San Jose.
 Contract in all probability will be awarded to low bidder.

Contracts to Be Awarded.
ALTERATIONS Cost, \$5000
OAKLAND, Alameda Co., Cal. No.
 1444 Broadway.
 Alter store.
 Owner—Florshelm Shoe Co., 1304 Broadway, Oakland.
 Architect—Not Given.
 Contractor—Louis C. Dunn, Monadnock Bldg., San Francisco.

Plans Being Figured.
STORE Cost, \$12,000
VALLEJO, Solano Co., Cal. Sonoma St.
 near Georgia St.
 One-story brick, terra cotta and cement store with steel columns and beams (five stores); tar and gravel and part hand-made tile roof.
 Owner—F. D. Jones, Vallejo.
 Architect—F. H. Solcombe, 3830 Harrison St., Berkeley.

Contract Awarded.
STORES Cost, \$4000
OAKLAND, Alameda Co., Cal. No.
 3721-3725 Hopkins Street.
 One-story store building.

Bids Opened.
REBUILDING Cost, \$15,000
FRESNO, Fresno Co., Cal. N. Fulton St. and Sumner Ave.
 Two-story concrete, frame and stucco medical office building (70x80 ft.), 20 rooms and five-room apartment (flat composition roof, gas heating system, etc.).
 Owner—Dr. Roscoe F. Wallace, Fresno.
 Architect—Charles E. Butler, Cory Bldg., Fresno, and Glikberg Bldg., Sahnas.

Bids were taken under advisement for a few days.
General Contract
R. Pedersen Co., 446 Clark St.,
 Fresno \$19,995
Walter Harris, 577 McKinley Ave.,
 Fresno 21,466
Joly & Harrington, Fresno,
 Fresno 21,626
J. D. Shorb, Fresno,
 Fresno 21,850
T. C. Irwin, Fresno,
 Fresno 22,594

Heating
Standard Sheet Metal Works,
 704 "R" St., Fresno \$ 385
Devlin & Drew, Fresno,
 Fresno 386
Barrett & Hicks, Fresno,
 Fresno 415
Patton Sheet Metal Works,
 Fresno 418
Dowd Sheet Metal Works,
 Fresno 526
Victor Cox, Fresno
 Fresno 523

Ventilating
Standard Sheet Metal Works,
 Fresno \$ 1,192
Barrett & Hicks, Fresno,
 Fresno 1,354
Dowd Sheet Metal Works,
 Fresno 1,365
Patton Sheet Metal Works,
 Fresno 1,679
Devlin & Drew, Fresno,
 Fresno 1,826

Bids Opened.
SALESROOM BLDG. Cost, \$—
SAN JOSE, Santa Clara Co., Cal.
 Julian Street.
 One-story reinforced concrete and brick salesroom building, glass front (66x61 ft); asphalt & gravel roof, cement floors, etc.
 Owner—John Bean Mfg. Co., 217 W. Julian St., San Jose.
 Architect—William Higgins, 19 N. Second St., San Jose.
 Low Bidder—Chas. Thomas, 127 Clayton Ave., San Jose.
 Following bids received:
 Charles Thomas \$4550
 George Honore 4750
 Wm. Cauldwell 4791
 Megna & Newell 4870
 Neves & Harp, Santa Clara 4885
 Carl N. Swenson 5123
 Robert Gray 5169
 R. O. Summers 5380
 J. D. Carlsen 5683
 All of San Jose.
 Contract in all probability will be awarded to low bidder.

Contract Awarded.
ALTERATIONS Cost, \$5000
OAKLAND, Alameda Co., Cal. No.
 1444 Broadway.
 Alter store.
 Owner—Florshelm Shoe Co., 1304 Broadway, Oakland.
 Architect—Not Given.
 Contractor—Louis C. Dunn, Monadnock Bldg., San Francisco.

Plans Being Figured.
STORE Cost, \$12,000
VALLEJO, Solano Co., Cal. Sonoma St.
 near Georgia St.
 One-story brick, terra cotta and cement store with steel columns and beams (five stores); tar and gravel and part hand-made tile roof.
 Owner—F. D. Jones, Vallejo.
 Architect—F. H. Solcombe, 3830 Harrison St., Berkeley.

Contract Awarded.
STORES Cost, \$4000
OAKLAND, Alameda Co., Cal. No.
 3721-3725 Hopkins Street.
 One-story store building.

Owner—Mid-Valley Corp.
Architect—Not Given.
Contractor—Allen & Allen, 1239 106th Ave., Oakland.

Sub-Figures To Be Taken In Two Weeks.

FACTORY & OFFICES Cost, \$—
SAN FRANCISCO. N Fulton St. E Webster St.

Three-story reinforced concrete factory and office building.

Owner—Ceral Products Co., 763 Fulton St., San Francisco.
Architect—Not Given.

Contractor—Richard J. H. Forbes, Monadnock Bldg., San Francisco.

Plumbing and Heating Contract Awarded.

ALTERATIONS Cost, \$18,000
SAN FRANCISCO. No. 239 Geary St. Alterations to loft building (frame construction).

Owner—J. Brickell Co., % Contractor.
Architect—Hymau & Appleton, 68 Post St., San Francisco.

Contractor—Jacks & Irvine, Call Bldg., San Francisco.

Plumbing & Heating: E. Sugarmann, 3624 Geary St., San Francisco.

As previously reported:
Marble Work—Joseph Musto Sons-Keenan Co., 555 North Point St., San Francisco. Plastering—A. Knowles, 982 Bryant St., San Francisco. Elevator Work—Otis Elevator Co., 1 Beach St., San Francisco. 16, 1933.

Contract Awarded.
STORE Cost, \$5000

BERKELEY, Alameda Co., Cal. Telegraph Ave. near Bancroft Way. Alterations to store.

Owner—Anna B. Weeks.
Architect—Albert Williams Humboldt Bank Bldg., San Francisco.

Lessee—Roos Bros.
Contractor—Mullen Mfg. Co., 64 Rausch St., San Francisco.

18—WHARVES & DOCKS

September 15, 1933
Working Drawings Being Prepared.

BULKHEAD BLDG. Cost, \$100,000
SAN FRANCISCO. On waterfront.

Bulkhead building at front and connecting Piers Nos. 38 and 40 (stucco exterior).

Owner—State of California (Harbor Commission), Ferry Bldg.
Engineer—Frank G. White, Ferry Building.

(7537) 1st report Jan. 4. 1932. 18

PEARL HARBOR, T. H.—New bids will be asked shortly by the Bureau of Yards and Docks, Navy Department, to construct pier and two quays of reinforced concrete construction at Pearl Harbor. Specification No. 7224. Complete list of bids previously received published May 8, 1932.

SAN FRANCISCO—Healy Tibbits Constr. Co., 64 Pine St., at \$54,754 awarded contract by Southern Pacific Railway Company, 64 Market St., to construct new wharf, slip and breakwater and remove old slips and wharves at the foot of Hyde Street. Plans prepared by the Engineering Department of owner.

Construction Started.
WHARF Cost, \$—

DAVENPORT, Santa Cruz Co., Cal. Construct 2000 foot all steel wharf.

Owner—Santa Cruz Portland Cement Co., Crocker Bldg., San Francisco, (Geo. R. Gay, General Mgr.)

Plans by Engineering Dept. of Owner. Supervising Engineers—Merritt, Chapman & Scott, San Pedro (A. R. McGrath, Supt., Hotel Palomar, Santa Cruz).

19—MISC. CONSTRUCTION

REDDING, Shasta Co., Cal.—The eleven established camps of the Civilian Conservation Corps in the Redding district will be retained throughout the winter and improvements will be made, including new plumbing, tanks for heating water, erection of wooden buildings to replace the tents, damp-proofing walls and floors of present wooden barracks, etc. Major Willis J. Tack is commanding officer.

Preliminary Plans Approved.
CROSS Cost, \$21,000

SAN FRANCISCO. Mt. Davidson. Reinforced concrete cross, 100 feet high (500 cu. yds. concrete).

Owner—Golden Gate Park Commission (For Sunrise Easter Service Committee).

Architect—George W. Kelham, 315 Montgomery St., San Francisco.
Engineer—H. J. Brunner, Sharon Bldg., San Francisco.

Working drawings will be started shortly.

ALTADENA, Los Angeles Co., Cal.—Cecil E. Bryan, 2300 N. Marengo St., Altadena, will build a mausoleum, crematory and columbarium at 2300 N. Marengo Ave., Altadena, for Mountain View Mausoleum Association. Plans were prepared by Architect Clarence N. Jay, 871 E. Washington St., Pasadena. The structure will be two stories and will contain 1200 crypts. Reinforced concrete, tile and composition roofing, art stone trim, plaster exterior, marble walls, terrazzo floors, art glass, bronze work, ornamental iron, etc. The estimated cost is \$100,000. The following sub-contracts have been awarded: Rock and sand to Ducey & Atwood; lumber to Hammond Lumber Co.; reinforcing steel to Soule Steel Co.

Planned.
AUTO CAMP Cost, \$15,000

NORTH SACRAMENTO, Cal. Construction bungalow auto camp.

Owner—Joseph Edenhoffer, 3030 17th St., Sacramento.
Architect—Not Given.

WEST POINT, Calaveras Co., Cal.—Construction of a group of buildings for the Calizona Mining Co., at a cost of \$50,000, has been postponed indefinitely. George S. Young, Central Bank Bldg., Oakland, is the engineer.

GLENDALE, Los Angeles Co., Cal.—Forest Lawn Memorial Park, 1712 S. Glendale Ave., Glendale, is having plans prepared by their architectural department for a new mausoleum unit to be erected at Forest Lawn. Construction will be carried on under the supervision of the owner, segregated contracts being let for the various parts of the work. Excavating started. Two-story Class A, 117x100 feet in area, and will contain 1730 crypts; reinf. concrete construction, exposed concrete exterior, marble interior, bronze work, stained glass, etc. Cost, \$300,000.

MARE ISLAND, Cal.—The date of opening bids under the Bureau of Yards and Docks Specification No. 7416, for Diesel Oil Purification Plant, Navy Yard, Mare Island, has been postponed. The new date of opening will be determined later.

HUMBOLDT COUNTY, Cal.—Standard Oil Company of California, at \$1.12 per barrel awarded contract by county supervisors to supply courthouse and county jail with fuel oil during the coming year.

SAN FRANCISCO, Cal.—Globe Wrecking Company, 201 N. Wells St., Chicago, Ill., at \$7,616 (Item 1), and \$11,700 (Item 2), submitted high bid to Purchasing Officer, Ninth Corps Area, Presidio, San Francisco, to wreck seventy buildings at Mather Field, 13 miles east of Sacramento. Approximately 3,000,000 board feet of lumber involved. Structures include airplane hangars and barracks and all miscellaneous buildings appertaining to the field. Others bids follow:

(1) If concrete foundations are to be moved;
(2) If concrete foundations are not moved.

William J. & J. D. Symons, San Francisco:
(1)\$1,345.00
(2) 4,741.50

T. J. Dolan:
(1)\$3,850.00
(2) 4,350.00

S. M. Goldman, San Francisco:
(1)\$3,676.00
(2)

M. Cohen, San Francisco:
(1)\$3,160.00
(2)

Charles MacKral, Sacramento:
(1)\$3,100.00
(2)

Lummis & Botsford, San Francisco:
(1)\$2,676.00
(2) 3,670.00

Cleveland Wrecking Co., Los Angeles:
(1)\$2,065.00
(2)

John Fahlstrom, San Francisco:
(1)\$2,100.00
(2) 1,400.00

A. Nelson, San Francisco:
(1)\$1,500.00
(2)

William Spivoek, San Francisco:
(1)\$1,300.00
(2) 3,177.00

Capital Lumber Co., Sacramento:
(1)\$ 855.00
(2)

Bids held under advisement.

WASHINGTON, D. C.—Section of 67 winter camp sites in 15 states was announced by Director Robert Feckner of the Civilian Conservation Corps. Five will be erected in Sequoia National Park, one in Yosemite Park, two in Death Valley National Monument, one in Muir Wood National Monument and one in Pinacles National Monument.

SAN DIEGO, Cal.—Until 11 A. M. October 5, bids will be received by the Eleventh Naval Dist. San Diego, for extension to dispensary at the Naval Operating Base (Air Station), San Diego; Specification No. 7436. The work consists of a one-story building extension, approximately 34x45 feet, and includes plain and reinforced concrete; brick and hollow tile work; built-up roofing; sheet metal work; plaster and stucco; wood ceiling joists and sheathing; wood sash, doors, screens and finish; terrazzo floor and base; hardware; glazing; painting; plumbing; heating, water, gas, air and sewer piping; and electrical work. Bidding data may be obtained from the district upon deposit of a check or postal money order for \$10, payable to the Chief of the Bureau of Yards and Docks.

SANTA CRUZ, Santa Cruz Co., Cal.—Santa Cruz Lumber Company has been awarded the contract of \$3800 to furnish lumber for eight new buildings to be erected at the C. C. C. redwood camp on the old Bloom Mill site, to be used as winter quarters for the men.

Earl Lyons of Ben Lomand was awarded the contract to do the electrical work on the newly constructed buildings.

20—MISC. SUPPLIES AND MATERIALS

LOS ANGELES, Cal.—Graham Bros. Inc., 3425 Flower St., awarded contract by county supervisors Sept. 11, at \$16,958.61 to supply reinforcing steel for outlet tunnels of San Gabriel Dam No. 1. The material amounting to 648,800 lbs., is to be furnished f.o.b. district freight yard, Azusa.

LOS ANGELES, Cal.—G. E. Supply Corp. (agents Anaconda Wire & Cable Co.) awarded contract by Saul A. Joseph, Purchasing Agent, Metropolitan Water District, Sept. 11, at \$3180.02 to furnish copper cable under Bid No. 14798.

SAN FRANCISCO—Pioneer Rubber Company, 333 Sacramento St., at \$22 per lin. ft. awarded contract by U. S. Forest Service to furnish 10,000 lin. ft. 3/4-in. pneumatic air hose.

BREMERTON, Wash.—Until Sept. 26, 10 A. M., bids will be received by Supply Officer, Puget Sound, Navy Yard, Bremerton, Wash., to furnish 26 lin. ft. copper tubing, 5.563 in. O.D., .109 in. wall, Type A, about 188 lbs.

BREMERTON, Wash.—Until Sept. 27, 10 A. M., bids will be received by Supply Officer, Puget Sound Navy Yard, Bremerton, Wash., to furnish Class B steel boiler in accordance with Navy Department Specification 48-P-2D.

SAN FRANCISCO—Dallman Supply Co., Sacramento, at \$711 for 36 standard 52-gal. extra heavy galv. vertical range boilers and fittings and Dohrmann Hotel Supply Co., 972 Mission St., San Francisco, at \$4788 for 36 portable steel ranges with hot water coil and warming oven awarded contract by U. S. Forest Service. Complete bids published Sept. 8.

SAN FRANCISCO—Following bids received by City Purchasing Agent, to furnish valves for Hetch Hetchy:

PROPOSAL A

- (1) 3 24-in. gate valves;
- (2) 3 30-in. do;
- (3) 1 48-in. gate or butterfly valve.

PROPOSAL B

- (1) 3 24-in. cast steel body gate valves and 3 30-in. cast steel body gate valves;
- (2) 1 48-in. semi-steel or cast steel body gate valve;
- (3) 1 cast steel or semi-steel butterfly valve (alternate to Item 2).

Kramer Valve Co.....(a)	(1) \$6196.13	(2) 2870.00
	(3)	
	(b) (1) 6196.12	(2) 2870.00
	(3)	

Chapman Valve Mfg. (a)	(1) \$6885.90	(2) 1410.00
	(3)	
	(b) (1) 5247.00	(2) 1410.00
	(3)	

Rensselaer Valve Co....(a)	(1) \$6885.90	(2) 1850.00
	(3)	
	(b) (1) 6558.00	(2) 1762.00
	(3)	

Pelton Water Wheel.(a)	(1) \$7221.45	(2)
	(3)	
	(b) (1) 2564.55	(2) 7521.45
	(3)	

Ludlow Valve Mfg. Co.(a)	(1) \$.....	(2) 1635.00
	(3)	
	(b) (1) 6093.00	(2) 1815.00
	(3)	

SAN FRANCISCO, Cal.—Columbia Steel Corp., Russ Bldg., San Francisco, submitted low bid and was

awarded contract by the U. S. Forest Service, Ferry Bldg., San Francisco, for:

- (1) 4 pes. 85 ft. each 3/4x8/19 wire hemp core plow steel hoisting rope, all ends to be welded250 ft.
 - (2) 2 pes. 33 ft. each 3/4x6/37 wire hemp core plow steel hoisting rope, all ends to be welded 66 ft.
 - (3) 2 pes. 12 ft. each 3/4x6/37 wire hemp core plow steel hoisting rope, all ends to be welded 24 ft.
- Columbia Steel Corp., S. F. (1), \$45.50; (2), \$6.00; (3), \$2.18.
 John A. Roebling's Sons Co., S. F., (1), \$45.50; (2), \$6.00; (3), 2.18;* welding extra (1), 4.56; (2), \$1.52; (3), \$1.52.
 Fred E. Barnett Co., S. F. (1), \$47.96; (2), \$7.93; (3), \$3.90.
 Hazard Wire Rope Co., S. F. (1), \$47.72; (2), \$8.19; (3), \$3.58.
 *Not welded.

DENVER, Colo.—Until October 3, 2 p. m., bids will be received by Chief Engineer, Bureau of Reclamation, Denver, Colo., to furnish:

- (1) One motor-driven gate hoist with motor;
- (2) Two gates, with all leaves, stems, rack, etc.;
- (3) Trussbracks and I-beams;
- (4) One flap valve.

Specifications No. 600-D, available from above office. 20

LOS ANGELES, Cal.—General Cable Corp. awarded contract by City Purchasing Agent at \$7446.69 (estimated total), for furnishing Department of Building and Safety with lead-covered cable under Specifications No. 3192. Bids opened August 31.

OAKLAND, Alameda Co., Cal.—C. C. Moore Co., 450 Mission St., San Francisco, at \$3.24 per ton submitted low bid to City Council to furnish 3000 tons emulsified oil premix. Only other bid submitted by Ransome Co., Oakland, at \$3.50 per ton.

OAKLAND, Alameda Co., Cal.—Following bids received by Oakland City Council to furnish 300 tons fuel oil premix.

- (1) Delivered at plant;
 - (2) Delivered at corporation yard.
- Ransome Company, Oakland:
 (1)\$2.36 per ton
 (2) 2.86 per ton
 Hutchinson Co., Oakland:
 (1)\$2.50 per ton
 (2) 2.80 per ton

C. C. Moore Co., San Francisco:
 (1)\$2.65 per ton
 (2) 2.90 per ton
 Bids held under advisement.

LOS ANGELES, Cal.—Until 11 a. m., September 28, bids will be received by A. J. Holm, Los Angeles City Purchasing Agent, 107 City Hall, for furnishing and delivering to Water and Power Department 19,850 ft. No. 12 AWG, 12-conductor, rubber insulated lead covered control cable, on reels, under Specifications No. 3222. Bids will be taken as follows:

- (1) f.o.b. cars, bidder's factory;
- (2) f.o.b. cars, Davie's extension spur, S. P. delivery;
- (3) f.o.b. trucks, Water and Power Department warehouse, 257 E. 3rd St.;
- (4) f.o.b. cars bidder's factory with full freight allowed to 257 E. 3rd St.

For number of reels, maximum lengths of cable per reel, reel numberings, etc., see specifications on file in office of Los Angeles City Purchasing agent.

SAN FRANCISCO—Following bids received by United States Forest Service to furnish two 300 ampere, one-arc gasoline driven engine welder. Following bids received:

Pittsburgh, Penn., each.....	1324.00
Roberts Moore Machinery Co., (Westinghouse)	\$1624.00
Enclosure for controls, add	50.00
Alternate, f.o.b., L. A.	1674.00
Alternate two machines at	
Air Reduction Sales Co.....	2618.00
U. S. L. Battery Co.....	2550.00
General Electric Co.....	3570.00
Weber & Company.....	2900.00
Edward R. Bacon.....	2673.20
Kratz & McClelland.....	3,220.00
Herron, Rickard & McCone, f.o.b. Milwaukee	2940.00
f.o.b. any R. R. Station.....	3600.00
Lincoln Electric Co.....	3080.00
Welding Service, Inc. (accessories only)	189.00

Bids held under advisement.

LOS ANGELES, Cal.—Plans for reinforced concrete incinerator for the Treatment Plant at Figueroa St. and Lomita Blvd., have been approved by the directors of County Sanitation Districts Nos. 1, 2, 5 and 8. Proposed structure will be 10x12x8 ft. with a 30-ft. stack, with gas burner, piping, etc. The cost is estimated at \$1978. A. K. Warren, 202 Law Bldg., is the engineer.

SAN FRANCISCO—Isaacson Iron Works, 2917 E. Marginal Way, Seattle Wash., at \$464.15 each submitted low bid to U. S. Forest Service to furnish 36 road rippers, 4500 lb. class to be drawn by tractor; no less than 50 or more than 60 D. B. H. P. for Government Island. Following bids received:

Isaacson Iron Works, Seattle, f.o.b. San Francisco.....	\$ 464.15
f.o.b. Seattle	445.40
Killifer Mfg. Co., S. F.....	482.80
Los Angeles	469.00
Associated Equipment Co., San Francisco	485.50
Los Angeles	464.00
J. D. Adams Co., S. F.....	701.76
Alternate	504.62
Ohio	536.50
Alternate	434.00
B. Hayman Co., San Francisco	523.00
Onxard	503.00
Sacramento Tractor & Equipment Co., S. F.....	562.00
Spears Wells Machinery Co., San Francisco	650.00
Bodinon Mfg. Co., S. F.....	750.00
Los Angeles	750.00
Robinson Tractor Co., S. F.....	988.00
Los Angeles	970.00
M. P. McCaffrey, S. F.....	1020.00
Los Angeles	995.00
R. G. Le Tourneau, Inc., San Francisco	1295.00

Bids held under advisement.

SAN FRANCISCO, Cal.—Isaacson Iron Works, 2917 E. Marginal Way, Seattle, at \$464.15 each awarded contract by U. S. Forest Service to furnish 36 road rippers, 4500 lb. class, to be drawn by tractor; no less than 50 or more than 60 D.B.H.P.; for Government Island.

ALBANY, Alameda Co., Cal.—Hill Lumber & Hardware Co., Albany, Cal., at \$1182.72 awarded contract by city council to furnish fence material for a 120x110-ft. tennis court in the city park, involving chain link fencing, rails, top guard, etc.

PANAMA CANAL ZONE.—Until September 27, 10:30 a. m., under Schedule No. 2903 will be received by General Purchasing Officer, Panama Canal Zone, to furnish rotary type pump with 20-gallon capacity per minute.

ENGINEERING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

21.—Bridges	30.—Reservoirs and Dams
22.—Dredging, Harbor Works, Excava.	31.—Pipe Lines and Wells
23.—Irrigation Proj.	32.—Sewers & Sewage Disposal Plants
24.—St. Light. Systems	33.—Water Works
25.—Machinery and Equipment	34.—Parks & Playgrounds
26.—Railroads	35.—Tunnels
27.—Fire Alarm Sys.	
28.—Fire Equipment	
29.—Streets & Highways	

21— BRIDGES

LOS ANGELES, Cal.—Until 2 P. M., Oct. 2, bids will be received by county supervisors to construct a steel and timber bridge 118 ft. 6 in. long on Grand Ave. over Rubio Wash. The structure will consist of three 38-ft. standard "A" frame truss spans, 21-ft. roadway (wood floor), steel floor beams. Bids will be taken as follows:

- (1) timber and steel bridge complete and being part redwood and part Douglas fir;
- (2) timber and steel bridge complete and being all redwood.

W. D. Armstrong, county bridge engineer, 1202 Hall of Records, Mame B. Beatty, clerk of the board, 501 Hall of Records.

LOS ANGELES, Cal.—Bannister-Field Co., Ltd., 4101 Goodwin Ave., submitted low bid to county supervisors September 11 at \$20,857.60 for the construction of a reinforced concrete rigid frame bridge to be built on Muscatel Ave., over Eaton Wash. The proposed bridge will be 120 ft. in width with a 40 ft. clear span.

ELDORADO COUNTY, Cal.—Until October 3, 2 p. m., bids will be received by Arthur J. Koletzke, clerk, Board of Supervisors, Placerville, to construct timber approaches and new floor for Camp Creek Bridge in Road District No. 2, in Eldorado County. Plans and specifications available from above office upon deposit of \$5.00.

WOODLAND, Yolo Co., Cal.—Yolo County Supervisors approved plans and specifications in connection with the proposed bridge over Sutter Slough linking Sacramento and Yolo Counties. Sacramento and Yolo Counties each will contribute \$14,000 toward financing the construction.

TEHAMA COUNTY, Cal.—Until October 2, 10 A. M., bids will be received by H. M. Kopplin, Clerk, to furnish and move a steel span 100 feet in length from Stockton and erect same over Dry Creek on Shasta Blvd. about 5 mi. north of the Town of Los Molinos, and constructing wooden bent trestle approach, concrete abutments and concrete pier. Also furnish and move a steel span, 72 ft. 8 in. in length from Stockton and construct same together with concrete abutments over creek on Woodson Ave. about 2 mi. south of Corning. Both spans are dismantled and are property of James E. Fitzsimmon, Lodi. Plans and specifications available from above office. Certified check 10% required with bid. Bids to be made separately on each bridge.

MODESTO, Stanislaus Co., Cal.—Until October 10, 11 a. m., bids will be received by C. C. Eastin, County Clerk, to construct 46-ft. bridge over Lone Tree Creek, $\frac{3}{4}$ mile southeast Valley Home on the Valley Home-Oakdale Valley Highway. Bids are being taken on lump sum basis. Approximately 74 cu. yds. of concrete involved. Specifications available from County Engineer, Courthouse, Modesto.

MENDOCINO COUNTY, Cal.—A. T. Howe, Santa Rosa, at \$26,428 awarded contract by State Highway Commission to construct a bridge across Feliz Creek at Hopland, consisting of nine, 38-ft. steel stringer spans with concrete decks on concrete pile bents.

BUTTE COUNTY, Cal.—F. C. Amoros & Sons, Wallace and Keith Sts., San Francisco, at \$59,930.20 awarded contract by State Highway Commission to construct a reinforced concrete bridge across west branch of Feather River about 14 mi. north of Oroville, consisting of one 155 ft. open spandrel arch span, three 40 ft. concrete girder spans and six 38 ft. concrete girder spans.

SONOMA COUNTY, Cal.—Until October 11, 2 p. m., bids will be received by State Highway Commission, Sacramento, to construct overhead crossing over the tracks of the Northwestern Pacific Railroad at Preston, consisting of one 63-ft. steel beam span on concrete piers and 25½ ft. of timber trestle approach on framed bents with concrete pedestals, involving:

- (1) 665 cu. yds. structure excav.;
- (2) 212 cu. yds. class A Portland cement concrete struc.;
- (3) 219 cu. yds. class A Portland cement concrete trestle slab;
- (4) 84 cu. yds. class B Portland cement concrete;
- (5) 49,000 lbs. bar reinforcing steel;
- (6) 87,000 lbs. structural steel;
- (7) 240 lbs. cast steel;
- (8) 71 M feet board measure redwood timber, dense select allheart struc. grade;
- (9) 63 M ft. board measure redwood timber, select allheart struc. grade;
- (10) 1 lot misc. items of work.

MENDOCINO COUNTY, Cal.—Until Oct. 11, 2 P. M., bids will be received by State Highway Commission, Sacramento, to construct overhead crossing over the tracks of the Northwestern Pacific Railroad near Hopland consisting of one, 32 foot steel beam track span on concrete piers, three 27 foot and twelve 19 foot timber stringer spans on pile bents and

framed bents with concrete pedestals, involving:

- (1) 570 cu. yds. struc. excav.;
- (2) 164 cu. yds. Class A Port. cem. conc. structure;
- (3) 231 cu. yds. Class A Port. cem. conc. timber trestle slab;
- (4) 46 cu. yds. Class B Portland cem. concrete;
- (5) 49,500 lbs. bar reinf. steel;
- (6) 24,000 lbs. struc. steel;
- (7) 89 M bd. ft. redwood timber dense sel. allheart struc. grade;
- (8) 56 M bd. ft. Redwood timber sel. allheart struc. grade;
- (9) 2700 lin. ft. fur. redwood piles Includ. test piles;
- (10) 54 each driving redwood piles including test piles;
- (11) 60 lin. ft. 8-in. C.M.P.;
- (12) 1 only assembly;
- (13) 1 lot misc. items of work.

KERN COUNTY, Cal.—Until Oct. 11, 2 P. M., bids will be received by State Highway Commission, Sacramento, to construct overhead crossing over tracks of the Southern Pacific Company, about 5 mi. north of Bakersfield at Oil Junction, consisting of 6 61 foot and 2 25 foot steel girder spans, involving:

- (1) 1125 cu. yds. struc. excav.;
- (2) 1895 cu. yds. Class A Port. cem. concrete;
- (3) 237,000 lbs. bar reinf. steel;
- (4) 323,000 lbs. struc. steel;
- (5) 9042 lbs. cast bearings;
- (6) 1 lot misc. items of work.

MADERA COUNTY, Cal.—F. O. Bohnett, Campbell, at \$32,951 awarded contract by State Highway Commission to construct a timber bridge across Ash Slough 0.5 mi. north of Chowchilla, consisting of 34 10-ft. spans on pile bents.

Complete bids publisher Sept. 15.
MARIN & SONOMA COS., Cal.—Alfred H. Vogt Co., 251 11th St., San Francisco, at \$20,957.40 awarded contract by State Highway Commission for repairing east timber trestle approach to a bridge across Petaluma Creek at Green Point, consisting of replacing defective stringers and bracing and reconstructing floor and railing and paving with asphalt concrete.

PLUMAS CO., Cal.—Lynch Cannon Engineering Co., 5658 Wilshire Blvd., Los Angeles, at \$23,251.10 awarded contract by State Highway Commission to construct a bridge across North Fork of Feather River at Howells, consisting of a 30-ft. steel arch span with concrete deck.

MENDOCINO COUNTY, Cal.—J. H. Pomeroy & Co., Inc., 333 Montgomery St., San Francisco, at \$133,518.10 awarded contract by State Highway Commission to construct a bridge across the Russian River two miles south of Hopland, consisting of one 247 ft. 7 in. through steel truss span on concrete piers and twenty-one steel beam spans having a total length of 889 ft.

SACRAMENTO COUNTY, Cal.—M. A. Jenkins, 3560 Y St., Sacramento, at \$14,964 awarded contract by State Highway Commission to widen eight reinforced concrete slab bridges and one culvert from 24 ft. roadway to 34-ft. roadway at points between Sacramento and McConnell.

Complete bids published Sept. 16.

CAPITAL CITY TITLE COMPANY

J. C. PALEN,
Manager

914 Seventh Street
Sacramento :: California

22—DREDGING, AHRBOK WUKKS, EXCAVATION

PASADENA, Los Angeles Co., Cal.—Until 11 A. M., October 3, bids will be received by Pasadena City Board of Directors, City Hall, for driving 1625 ft. of small tunnels, lining same with concrete, and constructing 850 ft. of steel and concrete syphon, at the Pine Canyon Reservoir site, in accordance with plans prepared by Samuel B. Morris, Chief Engineer, 319 City Hall. Plans obtainable from Bessie Chamberlain, City Clerk, upon deposit of \$5. Certified check or bond,

5% Work involves:

- (1) 2000 cu. yds. excav. for tunnels, A, F, H. and I;
- (2) 130 cu. yds. excav. for struc. B;
- (3) 1500 cu. yds. excav. for struc., C, D, E and G;
- (4) 400 cu. yds. conc. lining of walls and floors of tunnel A, F, H and I;
- (4a) 400 cu. yds. Gunite lining of walls and floors of tunnel A, F, H, and I; (alt. to item 4);
- (4b) 500 sacks Gunite in floors, walls or roof of tunnels in special thickness at option of city;
- (5) 150 cu. yds. conc. or Gunite lining of roof of tunnels A, F, H and I;
- (6) 85 cu. yds. conc. for structures, C, D, E and G;
- (7) 45 cu. yds. concrete for struc. B;
- (8) 10 M. B. M. furnishing and installing tunnel timbering;
- (9) 4000 sacks furnishing Portland cement;
- (10) 15,000 lbs. furnishing and installing reinf. steel;
- (11) 220 lin. ft. erecting 54-in. steel pipe at structure B;
- (12) 240 lin. ft. erecting 54-in. steel pipe at structures G and E;
- (13) 25 joints, welding and painting field points of 54-in. steel pipe;
- (14) 412 lin. ft. installing 54-in. conc. pipe for structures C and D;
- (15) extra payment if workmen's compensation insurance (if not placed with state) faithful performance bond and laborer's and materialmen's bond, are required by the city to be obtained through bona fide Pasadena agents.

PORTLAND, Ore.—As previously reported, Winston Brothers Co. and Guy F. Atkinson Co., Porter Bldg., Portland, Ore., at \$1,111,945 submitted low bid to U. S. Engineer, Portland, to repair South Jetty at mouth of Columbia River, Oregon and Washington, involving approximately 600,000 tons of stone. Only other bid submitted by Columbia Contract Co., Portland, Ore., at \$1,163,790. Engineer's estimate, \$1,163,790.

Locations of quarries from which bidders propose to furnish stone:

Bid No. 1—Little Green Mountain, Clatsop County, Ore., and Lucia, Clark County, Wash.

Bid No. 2—Fisher's Quarry, Fisher Landing, Washington.

SACRAMENTO, Cal.—Roberts Island Dredging Co., Antioch, (R. P. Easley) low bidder at \$1,224 awarded contract by U. S. District Engineer, Sacramento, to construct stretches of new levee and raise stretches of old levee along northeasterly side of Haas Slough from nar its junction with Cache Slough to its junction with Reclamation District No. 2068 Canal, and on easterly side of said canal to near pumping plant, total length of levee 16,500 ft.

25—MACHINERY AND EQUIPMENT

WASHINGTON, D. C.—Bids for furnishing 14 road rippers, opened by the Department of the Interior, Washington, D. C., Sept. 6, were:

American Tractor Equip. Co., Oakland, Calif., \$1600 each f.o.b.

Isaacson Iron Works, Seattle, \$920 each, f.o.b. 19%, no guaranty.

Keliher Mfg. Co., Los Angeles, \$891 each f.o.b.

Mack-Woolridge Co., Los Angeles, \$950 each f.o.b., 3%.

J. D. Adams Co., Indianapolis, Ind., \$520, 2%, f.o.b., Sidney, Ohio.

Baker Mfg. Co., Springfield, Ill., \$468.75 each, f.o.b., no guaranty.

R. G. Le Tourneau, Stockton, Calif., \$1500 each, f.o.b., 5%.

OAKLAND, Alameda Co., Cal.—J. E. French Company, 2345 Broadway, Oakland, at \$908.40 (including state tax) submitted low bid to Oakland Board of Education to furnish one canopy delivery truck under Schedule No. 19. Only other bid was submitted by General Motors Co., Oakland, at \$1028. Bids under advise-

LOS ANGELES, Cal.—The Cooling and Air Conditioning Corp. awarded contract by Saul A. Joseph, purchasing agent, Metropolitan Water District, Sept. 11, at \$5379, for furnishing cooler under Bid No. 14707.

DENVER, Colo.—Until October 16, 2 p. m., bids will be received by U. S. Bureau of Reclamation, Denver, Colo., for furnishing structural steel trash racks for installation in intake towers at Boulder Dam, Boulder Canyon Project, Arizona - California - Nevada. Racks will be installed by Government. Specifications available from above office, Boulder City, Nev., and Washington, D. C.

SAN FRANCISCO — U. S. Forest Service made the following awards to furnish 75 rock drills, air, 50 to 59 lbs. weight:

Rix Somppany, Fourth and Harrison Sts., 40 at \$190 each.

Chicago pneumatic Tool Co., 175 1st St., 15 at \$190 each.

Edward R. Bacon, 17th and Folsom Sts., 20 at \$190.

SACRAMENTO COUNTY, Cal.—Until September 28, 8 P. M., bids will be received by H. G. Denton, City Clerk, to furnish one Allis Chalmers "35" track type tractor or equal. Specifications available from above office. Certified check, 5% required with bid.

LOS ANGELES, Cal.—Until 11 A. M., September 26, bids will be received by A. J. Holm, Los Angeles City Purchasing Agent, 107 City Hall, for furnishing and delivering to Water & Power Dept., f.o.b., 1630 N. Main St., 6-wheel and 4-wheel trailers under Specifications No. 3225. The items are:

(1) 2 only 6-wheel trailers, gross capacity 34,000 lbs. each;

(2) 2 only 4-wheel trailers, gross capacity 22,000 lbs. each.

LOS ANGELES, Cal.—Smith Booth Usher Co. awarded contract by Saul A. Joseph, Purchasing Agent of the Metropolitan Water District, September 19, at \$28,440, to furnish locomotives under Bid No. 15056.

28—FIRE EQUIPMENT

SAN FRANCISCO, Cal.—General Engineering & Drydock Co., 1100 Sansome St., San Francisco, at \$2743 submitted low bid to Board of Fire Commissioners, Room 2, City Hall, for dry-docking, repainting of hulls, overhauling and repairs to the fire boats "Dennis T. Sullivan" and "David Scannell."

(A) General Engineering & Drydock Co., S. F. \$2743

(B) Bethlehem Shipbuilding Co., San Francisco 2889

(C) Moore Shipbuilding Co., San Francisco 2947

30—RESERVOIRS & DAMS DISPOSAL PLANTS

PASADENA, Los Angeles Co., Cal.—Until 11 a. m., October 3, bids will be received by Pasadena city board of directors for the manufacture and furnishing of operating mechanism and appurtenances for top of outlet tower for Pine Canyon Dam. Specifications obtainable from city clerk, Bessie Chamberlain, upon deposit of \$5.00. Samuel B. Morris, 319 City Hall, chief engineer. Certified check 5%. Schedules are:

Schedule 1—One hydraulic gate cylinder for 9x9 ft. slide gate together with one length of gate stem and other appurtenances.

Schedule 2—18 hydraulic gate cylinders for 2x8 ft. slide gates together with one length of gate stem for each cylinder and other appurtenances.

Schedule 3—One gib crane and hoist together with base, motors, limit switches and other appurtenances.

Schedule 4—32 screen sections, one screen lifting device, 11 screen guide sections, 2 split-pipe protecting bands.

Schedule 5—One 24x30-in. manhole frame and cover, one 5-ft. 9-in. by 5-ft. 9-in. manhole frame and cover; one 3-ft. by 12-ft. hatchway, 2 ladders.

Schedule 6—One lot of anchor bolts, nuts, sleeves, plates and locating cages.

Schedule 7—One lot of small piping material as detailed.

BELLINGHAM, Wash.—City Engineer J. C. Mills will make a survey of Lake Hills in connection with the construction of a new dam at the lake. Lake Padden is the water supply for southern section of the city.

PASADENA, Los Angeles Co., Cal.—Sub-contracts on the Pine Canyon conduit have been awarded by the Consolidated Steel Corp., general contractors, as follows:

Excavation to Artukovich Bros., 912 Atlantic Blvd., Hynes.

Hauling and distribution of pipe along the route to Belyea Truck Co., 6810 S. Alameda St., Los Angeles.

31—PIPE LINES & WELLS

SAN FRANCISCO, Cal.—Western Pipe & Steel Co., 444 Market St., at \$48,604.65 awarded contract by Public Utilities Commission to construct Early intake tail pipe line (H. H. W. S. Contract No. 145). published Aug. 31st.

SAN DIEGO, Cal.—Until 11 a. m., September 27, bids will be received by H. J. Schaper, assistant city purchasing agent, 524 F St., San Diego, to furnish 1320 lin. ft. 72-in. (7-in. wall) reinforced concrete pipe. The pipe will be used for repairs to the "B" St. flume at the San Diego Harbor. The cost is estimated at between \$10,000 and \$12,000. The work

is open to any contractor having the forms. The bidder may make the pipe on the job, the city furnishing the space for manufacture and a power crane for lifting. Specifications may be obtained at above office. Certified check, 5%.

32—SEWERS & SEWAGE DISPOSAL PLANTS

BEVERLY HILLS, Cal.—Until 8 P. M., October 10 (tentative date), bids will be received by the Beverly Hills City Council to furnish an electrically driven vertical sump pump for the La Cienega Booster Plant. Specifications may be obtained from the engineers, Salisbury, Bradshaw & Taylor, 714 W. Tenth St.

SAN MATEO, Cal.—City of San Mateo will make application to Public Works Administration for a loan of \$125,000 to finance construction of a sewerage system in San Mateo. E. P. Wilsey, City Manager.

ROSEVILLE, Placer Co., Cal.—Special election will be held October 11 by city of Roseville to vote bonds for the purpose of acquisition, construction and completion of a water system, including all reservoirs, lands, rights of way, water rights, wells, pipe pipeline, machinery, equipment, etc. Improvements estimated to cost \$250,000.

PUGET SOUND, Wash.—Until October 4 (date postponed from Sept. 20) bids will be received by Puget Sound Navy Yard, Puget Sound, Wash., for replacing water main at Puget Sound. Specification No. 7339. Estimated cost \$35,000.

CLOVERDALE, Sonoma Co., Cal.—All bids rejected Sept. 19 by City Council to construct Imhoff tank and 12-in. discharge pipe line. Work may proceed at a later date when decision is received on city's application for a Federal loan.

33— WATER WORKS

SIGNAL HILL, Cal.—Until 3 p. m., October 2, new bids will be received by the Signal Hill city council to construct a reinforced concrete water tank on Signal Hill. New specifications are being prepared to provide for bids on a straight cylinder type of tank and an alternate on a tank in accordance with previous specifications. The proposed tank is about 20 ft. in dia., 40 ft. high and will have a capacity of 94,000 gallons. W. V. Thompson, water superintendent, is preparing the plans and specifications, copies of which will be ready for bidders September 18. Geo. H. Cooper, city clerk. The previous bids were opened August 14.

REDWOOD CITY, San Mateo Co., Cal.—Redwood City has made application to the Public Works Administration for a loan of \$20,000 to finance construction to extend and improve water system in Emerald Lake District, involving:

- (1) 6200 lin. ft. 8 in. cast iron pipe;
- (2) 1,000,000 gal. reservoir, concrete lined;

C. L. Dimmitt, City Engineer.

34—PARKS AND PLAY-GROUNDS

SAN FRANCISCO, Cal.—Standard Fence Company, 1940 San Bruno Ave., awarded contract by Recreation and Playground Commission for fencing and back shop on playgrounds in the City of San Francisco. 34

29—STREETS AND HIGHWAYS

LOS ANGELES, Cal.—Griffith Co., 502 L. A. Railway Bldg., awarded contract by County Supervisors, Sept. 11, at \$32,285.88, for the improvement of Slauson Avenue and Alameda St., under Cash Contract No. 436. The project includes the improvement of Slauson Ave., from Wilmington Ave. to Alameda St., and Alameda St., from Slauson Ave. to Florence Ave., in the vicinity of Huntington Park, 5688 ft. or 1.08 miles.

OREGON.—Kuckenbergl & Wittman, Portland, Ore., submitted low bid to U. S. Bureau of Public Roads, Portland, Ore., at \$68,373 to furnish labor and materials and perform all work constructing two Salt Creek bridges and Salmon River bridge, Willamette Highway, Project E-21-E2, F1, National Forest Road Project, located within Willamette National Forest, County of Lane, State of Oregon.

OREGON.—J. F. Johnston, Newberg, Ore., submitted low bid to U. S. Bureau of Public Roads, Portland, Ore., September 7 at \$21,793 to construct or improve one steel deck span with concrete approaches over Diamond Creek, Tiller Trail Highway, Project NR-16-F3, National Forest Road Project, located adjacent to Umpqua National Forest, County of Douglas, State of Oregon.

Complete bids follow:

J. F. Johnston, Newberg, Ore.	\$21,793.75
Tom Libbebo, Reedsport, Ore.	22,609.00
Kuckenbergl & Wittman, Portland, Ore.	23,535.00
D. Nygren, Seattle, Wash.	24,320.00
Medford, Ore.	37,330.00
R. I. Stuart & Sons,	

COCONINO COUNTY, Ariz.—Until October 3, 10 A. M., bids will be received by U. S. Bureau of Public Roads, 802 Title & Trust Bldg., Phoenix, Arizona, for grading 2.947 miles Section H of Route 7, Oak Creek National Forest, Arizona, involving:

- (1) 28,600 cu. yds. unclass. excav.;
- (2) 350 cu. yds. unclass. excav. for struc.;
- (3) 7600 cu. yds. unclass. excav. for borrow;
- (4) 24,000 sta. yds. overhaul;
- (5) 2.976 miles finish earth graded roads;
- (6) 724 M. gallons watering (lump sum);
- (7) 248 cu. yds. concrete;
- (8) 22,000 lbs. reinf. steel;
- (9) 706 lin. ft. corr. gal. metal pipe;
- (10) 3670 lin. ft. wood guardrail;
- (11) 3700 cu. yds. miles borrow haul;
- (12) 5300 lin. ft. protection ditch;
- (13) 5800 lin. ft. remove and reset fence;
- (14) 450 lin. ft. fence;
- (15) 28 right-of-way monuments.

Plans and specifications available from above office upon deposit of \$10.

SACRAMENTO, Cal.—Until October 2, 10 a. m., bids will be received by Harry W. Hall, County Clerk, Sacramento Board of Supervisors, Room 201, Courthouse Bldg., Sacramento, for construction of an asphaltic surface on the Vorden-Locke Road. Plans and specifications available from above office.

MARIPOSA COUNTY, Cal.—Fredrickson & Watson, 873 81st St., Oakland, at \$146,094.10 awarded contract by State Highway Commission to surface with crushed gravel or stone and bituminous seal coat 15.1 miles between Orange Hill School and Mariposa.

DOUGLAS COUNTY, Oreg.—Clarence Young, 5250 Broadway Terrace, Oakland, at \$68,311.60 (concrete), and \$68,100.60 (metal), submitted low bid to U. S. Bureau of Public Roads, Portland, to construct Tiller-Trail Grading Project NR-16-F2, Umpqua National Forest.

GRANT COUNTY, Oregon.—Von der Hellen & Pierson, Medford, at \$90,129 (concrete and \$88,579 (metal) submitted low bid to U. S. Bureau of Public Roads, Portland, to construct Pendleton-John Day N.F.R. Pro. E-33-F Umatilla National Forest

KLAMATH COUNTY, ORE.—Von der Hellen & Pierson, Medford at \$309,657 (concrete) and \$308,789 (metal) submitted low bid to U. S. Bureau of Public Roads, Portland, to construct Rim Road Grading Project NR-7-B, Crater Lake National Park Road Project, Crater Lake National Park.

LOS ANGELES, COUNTY, Cal.—Oswald Bros., 366 E. 58th St., Los Angeles, at \$144,668.20 awarded contract by State Highway Commission to grade and pave with Portland cement concrete 3.8 miles between Orange Ave. and Barranca St.

SANTA CRUZ COUNTY, Cal.—Union Paving Co., Call Bldg., San Francisco, at \$67,467 awarded contract by State Highway Commission to grade about 0.8 mile between one mile north of Inspiration Point and Inspiration Point.

CRESCENT CITY, Del Norte Co., Cal.—Until October 6, 11 a. m., bids will be received by Public Works Officer, Mare Island Navy Yard, for repairs and maintenance of road to the U. S. Naval Direction Finder Station, Point St. George, Crescent City, Cal. Specification No. 7387. Plans and specifications available from above office.

VALLEJO, Solano Co., Cal.—Bids will be asked October 4 and will be opened October 12 by Alf. E. Edgecumbe, City Clerk, to pave with asphaltic concrete one block on Butte Street, from Tennessee to Alabama. T. D. Kilkenny City Engineer. Estimated cost \$5000.

HUMBOLDT COUNTY, Cal.—Until September 26, 2 P. M., bids will be received by C. H. Sweetser, District Engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco, for maintenance of roads in the Hoopa Indian Reservation, Humboldt County, California Federal Funds, Project No. 1. Work involves:

- (1) 1300 sq. yds. bituminous wearing surface;
- (2) 250 sq. yds. seal coat;
- (3) 500 lin. ft. painting hand rail.

Specifications available from above office and from F. J. Hughes, Res. Engineer, Hoopa, Calif.

LOS ANGELES COUNTY, Cal.—Alex B. Chalmers and Max Winters, Jr. Los Angeles, at \$12,801.50 awarded contract by District Engineer, State Highway Commission, Los Angeles, to apply bituminous surface treatment over 1.8-mi. between Vasquez Rock Road and 2-mi. easterly to grade and surface with waterbound macadam base and bituminous macadam surface about 0.2-mi.

SHASTA COUNTY, Cal.—Fredrickson & Watson, 873 81st St., Oakland, at \$186,243, awarded contract by State Highway Commission to grade and surface with bituminous treated crushed gravel or stone about 9.1 miles between Boulder Creek and 1.5 mile east of Bella Vista

CALIFORNIA STATE HIGHWAY (San Bernardino County)—Geo. Herz & Co., Platt Bldg., San Bernardino, have been awarded the contract by the State Director of Public Works at \$7400.00 for highway oiling in San Bernardino County, between Needles and Colorado River Bridge near Topock (VIII-S.Ed.-58-P), about 14.3 miles in length, bituminous surface treatment to be applied, involving:

- (1) 180 tons road oil (emulsified asphalt);
- (2) 1000 tons screenings.

LOS ANGELES, Cal.—Until 10 A. M., October 4, bids will be received by Board of Public Works for Improving Barrington Ave., between Wilshire Blvd. and Santa Monica Blvd., and portions of other streets and alleys in the Barrington Ave. and Rochester Ave. Improvement District.

NAPA COUNTY, Cal.—J. C. Compton, McMinnville, Oregon, at \$42,044 awarded contract by State Highway Commission to surface with bituminous treated crushed gravel or stone 8.2 mi. between easterly boundary and Nape Wye and between Napa Wye and southerly boundary.

COLUSA AND GLENN COS., Cal.—Peninsula Paving Company, Standard Oil Bldg., San Francisco, at \$103,432 awarded contract by State Highway Commission to grade and surface with gravel about 7.1 mi. between Maxwell and Norman.

PLACER COUNTY, Cal.—Morgan Paving Co., 5410 Wilshire Blvd., Los Angeles, at \$234,057 awarded contract by State Highway Commission to grade and pave with Portland cement concrete and asphalt concrete 5.2 mi. between Loomis and Newcastle.

LOS ANGELES COUNTY, Cal.—Jahn & Bressi Construction, Inc., Lane Mortgage Bldg., Los Angeles, at \$297,529 awarded contract by State Highway Commission to grade four miles between Colby Canyon and Mt. Wilson.

SOLANO AND NAPA COS., Cal.—Granfield, Farrar & Carlin, 67 Hoff St., San Francisco, at \$383,769 awarded contract by State Highway Commission to grade 10.3 miles between Carquinez Bridge and Cordelia.

MENDOCINO COUNTY, Cal.—C. W. Wood, County Club Bldg., Stockton, at \$45,600 awarded contract by State Highway Commission to apply bituminous surface treatment over 9.5 miles between Ukiah and Hopland.

MERCED COUNTY, Cal.—Granite Construction Co., Watsonville, at \$25,857 awarded contract by State Highway Commission to apply bituminous surface treatment over 6.2 miles between the north boundary and Livingston.

RIVERSIDE COUNTY, Cal.—Dimmitt & Taylor, 815 E. 59th St., Los Angeles, at \$40,214 awarded contract by State Highway Commission to treat shoulders with fuel oil over 41.6 mi., between Corona and the south boundary.

IMPERIAL COUNTY, Cal.—R. E. Hazard Contracting Company, Inc., 2548 Kettner Blvd., San Diego, at \$36,997 awarded contract by State Highway Commission to surface with bituminous treated crushed gravel or stone 10.1 mi., between El Centro and Calexico.

RIVERSIDE AND IMPERIAL COS., Cal.—Mattich Bros., and George Gardner, Elsinore, at \$21,994 awarded contract by State Highway Commission to

treat shoulders with fuel oil over 21.7 miles between Avenue 62 and Riverside-Imperial County line and between 3 mi. and 10 mi. south of the Riverside-Imperial county line.

ARIZONA STATE—Pearson & Dickerson 4485 Cypress Ave., Riverside, and Rogers Bros., Phoenix, were awarded contract by T. S. O'Connell, State Highway Engineer, Phoenix, Ariz., at \$23,587.64, for highway construction on Holbrook-Lupton Highway, N.R.H. 83-G.

ORANGE AND LOS ANGELES COS., Cal.—Kovacevich & Price, South Gate, at \$24,511 awarded contract by State Highway Commission to oil treat 31.0 mi. of existing roadbed shoulders between Doheny Park and Galivan, 7.8 mi.; bet. Fullerton and Los Angeles-Orange County line, 4.7 mi.; between Arroyo Ave. and Pomona 6.1 mi.; bet. the Coast Blvd. and Newport 1.3 mi.; between Newport and Laguna 7.2 mi., and between Laguna and Dana Point 3.9 mi.

RIVERSIDE COUNTY, Cal.—Mattich Bros. and George Gardner & Son, Elsinore, at \$23,983 awarded contract by State Highway Commission to treat shoulders with fuel oil over 25.1 miles between Riverside and Elsinore.

VENTURA AND LOS ANGELES COS., Cal.—Mattich Bros. and Gardner & Sons, Elsinore, at \$19,915 awarded contract by State Highway Commission to apply bituminous seal coat to existing shoulders over 40.3 miles between Ventura and Castaic Junction.

TULARE COUNTY, Cal.—Union Paving Co., Call Bldg., San Francisco, at \$75,931 awarded contract by State Highway Commission to grade and pave with asphaltic concrete 5 mi. between the western boundary and 2 miles south of Plaza Garage.

ARIZONA STATE—New Mexico Construction Co., Albuquerque, N. M., awarded contract by State Highway Engineer, Phoenix, Ariz., at \$128,641.33 for highway construction on N. R. M. 24-A and N. R. H. 24-A, Flagstaff and extends easterly to the pavement at Flagstaff excepting Project 24-B, consists of additional base course material, a three (3") inch plant mix oil cake and is to be completed on or before January 31, 1934.

ARIZONA STATE—Hodgman & McVicar, Flagstaff, Ariz., and 714 Plymouth Rd., San Marino, awarded contract by T. S. O'Connell, State Highway Engineer, Phoenix, Ariz., at \$107,017.47 (using steel guard rail), for highway construction on the Flagstaff-Fredonia Highway, N.R.H. 95-G. The work, which begins at a point about six miles east of Flagstaff and extends northerly approximately 8.7 miles, consists of the grading, draining and placing of base course, and is to be completed on or before January 31, 1934.

MONO COUNTY, Cal.—Hemstreet & Bell, Marysville, at \$46,137 awarded contract by State Highway Commission to grade, surface with selected material, and a hituminous treatment over 3.7 mi., between Sherwin Hill Summit and Whiskey Canyon.

SAN LUIS OBISPO, MONTEREY and San Benito Cos., Cal.—L. A. Brisco, Arroyo Grande, at \$20,682 awarded contract by State Highway Commission to oil treat 17.2 mi. existing road-bed shoulders north and south of Cuesta Grade, 4.8 mi. north and south of Bradley Bridge, 0.5 mi. southerly from San Juan Bautista, 1.9

mi.; and 10 mi. between San Juan Bautista and 3.2 mi. north of Hollister.

WHITMAN COUNTY, Wash.—Norris Bros., Burlington, Wash., at \$347,209.78 awarded contract by State Director of Highways to pave with Portland cement concrete 10 miles State Road No. 3, Pullman to Parvian Road, N.R.H. Project No. 152-B.

KERN COUNTY, Cal.—Union Paving Company at \$97,061.25 awarded contract by State Highway Commission to grade and pave with asphalt concrete 2.1 miles between Pierce Road and Tank Farm.

IMPERIAL COUNTY, Cal.—V. R. Dennis Construction Co., 3911 5th Ave., San Diego, at \$5,576 awarded contract by District Engineer, State Highway Commission, San Bernardino, for highway oiling between Araiz and the Colorado River, 6 miles earth shoulders to be treated with fuel oil.

LOS ANGELES, Cal.—City Council will request the sum of \$42,025 from the county supervisors to provide for the purchase of materials, etc., to complete the improvement of Eastern Ave. from Huntington Drive to a point south of Klamath Place.

SAN BERNARDINO COUNTY, Cal.—Until October 11, 2 P. M., bids will be received by State Highway Commission, Sacramento to treat with fuel oil approximately 25 mi. between a point about five miles north of Adelanto and a point near Kramer, involving:

- (1) 25 miles preparing roadbed;
- (2) 9450 bbls. heavy fuel oil;
- (3) 25 miles mixing and shaping oiled material.

29

VENTURA COUNTY, Cal.—Until October 11, 2 P. M., bids will be received by State Highway Commission, Sacramento, to widen pavement with Portland cement concrete about 1.6 mi. between the west city limits of Ventura and Sanjon Road, involving:

- (1) 3550 cu. yds. rdwy. excav. without class;
- (2) 130,000 station yds. haul;
- (3) 20,100 sq. yds. subgrade for pave.;
- (4) 3575 cu. yds. Class A Portland cement concrete pavement;
- (5) 21,500 lbs. bar reinf. steel pave.

29

CONTRA COSTA COUNTY, Cal.—Until Oct. 11, 2 P. M., bids will be received by State Highway Commission, Sacramento, to pave with asphalt concrete 1.4 mile in Contra Costa County, between San Pablo and Pinole involving:

- (1) 120 cu. yds. struc. excav.;
- (2) 70 cu. yds. Portland cem. conc. to be removed for existing pavement;
- (3) 1800 tons crusher run base;
- (4) 5000 sq. yds. asphaltic paint binder;
- (5) 8420 tons asphalt concrete;
- (6) 150 bbls. light fuel oil;
- (7) 120 tons screenings;
- (8) 160 lin. ft. 8-in. C.M.P.;
- (9) 132 lin. ft. 15-in. C.M.P.;
- (10) 11 each spillway assemblies complete in place;
- (11) 4450 lin. ft. laminated timber guard rail;
- (12) 75 sta. finish rdwy.

29

SANTA CLARA COUNTY, Cal.—Until Oct. 2, 11 A. M., bids will be received by Santa Clara Supervisors to improve Buena Vista Ave. in Supervisor District No. 1, involving 38,900 sq. ft. oil macadam pavement. Specifications obtainable from above office upon deposit of \$1.00.

29

ARIZONA STATE—Hodgman & McVicar, 714 Plymouth Rd., San Marino, and Packard & Tanner, Flagstaff, awarded contract by T. S. O'Connell, State Highway Engineer, Phoenix, at \$206,851.28 based on alternate, for highway construction on the Flagstaff-Fredonia Highway, N.R.H. 95-E and N. R. P. L. 4-B. The work on these projects begins approximately 9 mi. southwest of Grand Canyon bridge and extends approx. 18.7 mi. westerly consists of grading, draining and placing of base course and to be completed on or before July 30, 1934.

29

UNION COUNTY, Ore.—George P. Price, Dayton, at \$47,539.90 (concrete and \$46,868.96 (metal) submitted low bid to U. S. Bureau of Public Roads, Portland, to construct Weston-Elgin Highway Grading Project NR-37-B1, Umatilla National Forest. Complete bids follow:

- (1) concrete; (2) metal.
- Geo. P. Price, Dayton, (1) \$47,539.90, (2) \$46,868.96.
- S. H. Newell, Portland, (1) \$60,466.00, (2) \$59,216.00.
- Clifton & Applegate, Spokane, (1) \$60,190.00, (2) \$59,517.60.
- Sixton & Looney, Corvallis, (1) \$61,802.10, (2) \$61,633.10.

IMPERIAL COUNTY, Cal.—Dennis Constr. Co., 3911 Fifth Ave., San Diego, at \$21,520 awarded contract by State Highway Commission to construct oil treated crushed gravel or stone borders over 6.9 mi. between Holtville and East Highline Canal.

SONOMA AND MENDOCINO COS. Cal.—Basch Bros., Torrance, at \$115,405 awarded contract by State Highway Commission to surface with gravel base 13.9 mi. between Cloverdale and Hopland.

SANTA BARBARA COUNTY, Cal.—United Concrete Pipe Corp., Box 1, Station P Los Angeles, at \$63,367.50 awarded contract by State Highway Commission to grade and pave with Portland cement concrete 0.8 mi. Ellwood overhead approaches.

KLAMATH COUNTY, Ore.—Dunn & Baker, Klamath Falls, at \$228,534 submitted low bid to U. S. Bureau of Public Roads, Portland, to construct Rim Road Grading Pro. NR-7-C, Crater Lake National Park Road project, Crater Lake National Park. Following bids received:

Dunn & Baker.....\$228,534
Guthrie-McDougal.....239,129
General Constr. Co.....242,534
P. L. Crooks.....267,377
Morrison-Knudson.....272,164

COCONINO CO., Ariz.—J. E. Had-dock, 357 N. Chester Ave., Pasadena, and C. A. Lindbergh, 448 N. American St., Stockton, awarded the contract by U. S. Bureau of Public Roads, Phoenix, Ariz., at \$168,495 for grading 9.658 miles Section G, Route 7, to O k Creek National Forest Highway, Coconino National Forest, Coconino County, Ariz.

SANTA BARBARA, Cal.—Oscar Oberg, 150 N. Vista St., Los Angeles, awarded contract by Santa Barbara city council at \$4587 to construct timber groyne on East Cabrillo Blvd. Work consists of 200 ft. groyne to be constructed from 6x12 in. by 18 ft. grooved creosoted sheet piling with 1 1/4 x 2 3/4 -in. creosoted splines, double 6x8-in. creosoted wales and staggered round piles along the side. Approximate quantities:

- 25 M.L.F. of creosoted timber;
- 15 creosoted round piles, 30 ft. long;
- 9 creosoted round piles, 35 ft. long;
- 11 creosoted round piles, 40 ft. long; and necessary hardware.

MONTEREY COUNTY, Cal.—Granite Constr. Co., Watsonville, at \$31,068.50 awarded contract by State Highway Commission to apply bituminous surface treatment over 7.4 mi. at various locations between San Ardo and King City.

GRANT AND HARNEY COS., Ore.—Newport Constr. Co., Portland, at \$39,837 submitted low bid to U. S. Bureau of Public Works, Portland, to construct Canyon City-Burns Highway Oil Mix N.F.R. Pro. NR-35-E2-112-12, Malheur National Forest. Following bids received:

Newport Constr. Co.....\$39,837
F. J. Kernan.....47,285
Northwest Roads Co.....50,950

OKANOGAN COUNTY, Wash.—Columbia Power & Investment Co., Stevenson, submitted low bid at \$45,241 to U. S. Bureau of Public Roads, Portland, to construct Loup Loup Highway Grading, Project NR-28-B, National Forest Road Project, Chelan National Forest

LOS ANGELES, Cal.—Griffith Co., L. A. Railway Bldg., Los Angeles, at \$101,803.50 awarded contract by State Highway Commission to grade and pave with Portland cement concrete and asphalt concrete 5.1 mi. between Santa Clara River and Castaic School,

29

IMPERIAL COUNTY, Cal.—Dswald Bros., 366 E. 58th St., Los Angeles, at \$71,000.10 awarded contract by State Highway Commission to construct oil treated crushed gravel or stone borders 25.6 mi. between the northerly boundary and Trifolium Canal.

29

LOS ANGELES COUNTY, Cal.—Oswald Bros., 366 E. 58th St., Los Angeles, at \$32,338.30 awarded contract by State Highway Commission to grade and pave with asphalt concrete 0.6 mi. between Foothill Blvd. and Alosta Ave.

BERKELEY, Alameda Co., Cal.—W. H. Larsen, 432 Michigan Ave., Berkeley, at \$2685 awarded contract by Board of Education (High School District) for grading, paving and concrete work at the Burbank School at Curtis and Addison streets.

29

SAN BERNARDINO CO., Cal.—United Concrete Pipe Corp., Box 1, Station H, Los Angeles, at \$26,926 awarded contract by State Highway Commission to grade and pave with Portland cement concrete 0.2 mi. at Mt. Vernon Avenue crossing in San Bernardino.

Complete bids published Sept. 16.

BERKELEY 6, Alameda Co., Cal.—W. H. Larson, 432 Michigan Ave., Berkeley, at \$2123 awarded contract by Berkeley Board of Education for grading and paving at the Burbank School, University Ave. and Curtis St., Berkeley.

29

CONTRA COSTA COUNTY, Cal.—Southern California Roads Co., 2145 E. 25th St., Los Angeles, at \$32,158 awarded contract by State Highway Commission to grade and pave with asphaltic concrete 0.2 mi. in Valona Complete bids published Sept. 16.

INYO COUNTY, Cal.—Basch Bros., Torrance, at \$25,627 awarded contract by State Highway Commission to grade, surface with selected material and a bituminous treatment applied over 3.5 miles between Bishop and Owens River Canal.

Complete bids published Sept. 16.

STATE OF ARIZONA—Until October 10, 10 A. M., bids will be received by U. S. Bureau of Public Roads, 802 Title & Trust Bldg., Phoenix, Arizona, to grade 10,933 miles Northern Arizona, Cameron Desert View Approach to Grand Canyon National Park, Section D, involving:

- (1) 103,000 cu. yds. unclass. excav.;
- (2) 3000 unclass. excav. for struc.;
- (3) 21,000 cu. yds. unclass. excav. for borrow;
- (4) 56,000 sta. yds. overhaul;
- (5) 10,938 mi. finishing earth grade roads;
- (6) 2235 cu. yds. concrete;
- (7) 18,600 lbs. reinf. steel;
- (8) 3770 lin. ft. conc. met. pipe;
- (9) 375 lbs. Browns bearing plate;
- (10) 39,000 cu. yd. mi. borrow haul;
- (11) 69 lin. ft. steel handrail;

Specifications obtainable from above upon deposit of \$10.

OAKLAND, Cal.—Until Sept. 23, 8 P. M., bids will be received by Oakland City Council for furnishing 50-60 road oil to the City of Oakland for the remainder of the fiscal year. Specifications obtainable from W. W. Chappell, City Clerk.

29

SAN FRANCISCO, Cal.—Until October 4, 2:30 p. m., bids will be received by Dept. of Public Works, S. J. Hester, chief deputy director, for repair and maintenance work, Joost Ave. Slide No. 1, from Acadia to Baden, involving:

- (1) 500 cu. yds. excav. to be hauled away;
- (2) 200 cu. yds. clay fill;
- (3) 4200 sq. yds. rolling and oiled surface;
- (4) 8 hours furnishing and operating 6-horse plow with operator;
- (5) 16 hours furnishing and operating 60 h.p. tractor with operator;
- (6) 600 lin. ft. 12-in. pref. metal pipe drains in trench not over 12 ft. deep;
- (7) 100 lin. ft. 8-in. perf. metal pipe drains in trench not over 12 ft. deep;
- (8) 9 wooden manholes with concrete inverts and remov. plank covers;
- (9) 380 lin. ft. macadam gutter (4 ft. 12 in. thick) with oiled surface;
- (10) 2 wooden manhole covers (with remov. plank section);
- (11) Under lump sum price, resetting redwd. curb, reconstructing wood fence and 4 "No Dumping Signs";
- (12) 10 cu. yds. extra rock backfill;
- (13) 100 cu. yds. rubbish excav.

\$10 deposit required for plans.

NEVADA STATE—Until October 4, 2:30 P. M., bids will be received by S. C. Durkee, State Highway Engineer, Heroes Memorial Bldg., Carson City, Nevada, to reconstruct a portion of the State Highway System in Lander and Eureka Counties, bet. 27 miles east of Austin and 14 miles west of Hay Ranch, Route 2, Sections F-2 and A-1, a length of 18.72 miles. Plans and specifications available from State Highway Engineer upon deposit of \$15, of which \$10 is returnable. Complete list of quantities published Sept. 20.

SAN FRANCISCO — E. J. Treacy, 309 Call Bldg., San Francisco, submitted low bid to the Department of Public Works, City Hall, San Francisco, September 20, to improve Rutledge St. from Alabama to Peralta, as follows:

- (1) 150 ft. armored conc. curb.....\$1.00
- (2) 40 ft. V.C.P. side sewer......50
- (3) 1125 sq. ft. class E conc. pavement......45

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

MENDOCINO COUNTY — BRIDGE — STATE

MENDOCINO COUNTY, Cal.—J. H. Pomeroy & Co., Inc., 333 Montgomery St., San Francisco, at \$133,518.10 submitted low bid to State Highway Commission to construct a bridge across the Russian River two miles south of Hopland, consisting of one 247-ft. 7-in. through steel truss span on concrete piers and twenty-one steel beam spans having a total length of approximately 889 ft., and supported by reinforced concrete pile bents and two concrete abutments, involving:

- (1) 1100 cu. yds. struc. excavation;
- (2) 4040 lin. ft. furnish reinf. conc. piles inc. test piles;

- (3) 114 drive reinf. conc. piles inc. test piles;
 - (4) 270 cu. yds. Class A Port. cem. conc. (footing blocks);
 - (5) 1535 cu. yds. do (struc.);
 - (6) 213,000 lbs. bar reinf. steel;
 - (7) 1,283,000 lbs. struc. steel;
 - (8) 77,800 lbs. struc. steel (railing);
 - (9) 11,200 lbs. cast steel;
 - (10) 80 lin. ft. 8-in. corr. metal pipe;
 - (11) 1 lot misc. items of work.
- Complete bids follow:
- (A) J. H. Pomeroy Co., San Francisco\$133,518.10
 - (B) Rocca & Calletti, San Rafael 135,490.00

- (C) M. B. McGowan, S. F. ... 125,281.00
- (D) J. F. Knapp, Oakland ... 125,490.00
- (E) Lindgren & Swinerton, San Francisco 136,988.00
- (F) Neves & Harp, Santa Clara 139,881.54
- (G) Barrett & Hilp, S. F. ... 140,251.20
- (H) Fredrickson & Watson, Oakland 145,713.00
- (I) Mercer, Fraser & Co., Eureka 146,413.50
- (J) McDonald & Kahn, S. F. 147,900.00
- (K) Bodenhamer Const. Co., Oakland 147,940.50
- (L) K. E. Parker Co., S. F. 148,458.96

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)
(1)	\$ 3.22	\$ 6.50	\$ 4.00	\$ 5.00	\$ 5.85	\$ 1.25	\$ 3.00	\$ 6.00	\$ 4.90	\$ 7.00	\$ 4.00	\$ 14.82
(2)	1.95	2.25	1.35	2.00	2.00	2.00	1.80	2.00	2.70	2.00	2.00	2.99
(3)	27.00	28.75	40.00	35.00	23.50	50.00	70.00	40.00	50.00	60.00	35.00	46.62
(4)	11.60	14.25	9.00	13.00	13.23	11.00	15.00	16.00	15.00	10.00	15.00	31.13
(5)	18.50	17.10	17.00	0001	00'0081	00'0082	06'982	00'0001	21.50	20.40	17.50	15.48
(6)	.0412	.044	.0425	00'E	00'I	01'I	01'I	04	.046	.05	.05	.0455
(7)	.052	.05	.056	81'	82E1'	91'	71'	051	.052	.0545	.06	.04902
(8)	.13	.11	.12	11'	18E1'	22E1'	22E1'	15	.105	.105	.14	.1017
(9)	.125	.12	.13	290'	290'	290'	90'	15	.12	.20	.13	.1278
(10)	.75	2.00	1.00	78E0'	8F0'	8F0'	7F0'	00	1.10	1.00	1.00	1.00
(11)	425.00	3665.00	569.50	7	00'02	00'02	00'81	00'61	1200.00	203.00	500.00	588.00

BIDS OPENED

DEL MORTE COUNTY, Cal.—Yoddall Construction Co. and Chas. Harlow, Jr., 215 Market St., San Francisco, at \$678,799 submitted low bid to State Highway Commission to grade and surface with crusher run base and untreated crushed gravel or stone surfacing 9.5-mi. between Last Chance Slide and Flannigans, involving:

- (1) 62 acres clear and grub right-of-way (Loc. A);
- (2) 13 acres do. (Loc. B);
- (3) 17 acres do. (Loc. C);
- (4) 80 remove and grub redwood trees, size 1;
- (5) 120 do, size 2;
- (6) 160 do, size 3;
- (7) 88 do, size 4;
- (8) 35 do, size 5;
- (9) 17 do, size 6;
- (10) 6 do, size 7;
- (11) 2 do, size 8;
- (12) 55 remove redwood trees, size 1;
- (13) 60 do, size 2;
- (14) 60 do, size 3;
- (15) 40 do, size 4;
- (16) 25 do, size 5;
- (17) 11 do, size 6 and larger;
- (18) 120 remove and grub spruce, fir and hemlock trees, size 1;
- (19) 185 do, size 2;
- (20) 65 do, size 3;
- (21) 9 do, size 4;
- (22) 2 do, size 5 and larger;
- (23) 60 remove spruce, fir and hemlock trees, size 1;
- (24) 110 do, size 2;
- (25) 30 do, size 3;
- (26) 6 do, size 4 and larger;
- (27) 34,000 sq. yds. seal surf. (log fills)
- (28) 670,500 cu. yds. rdwy. excav. un-class.;
- (29) 1,440,000 sta. yds. overhaul;
- (30) 16,400 cu. yds. imp. sel. matl.;
- (31) 9550 cu. yds. struc. excav.;
- (32) 95 cu. yds. Class A Port. cem. conc. (struc.);
- (33) 6300 lbs. bar reinf. steel (struc.);
- (34) 46,000 cu. yds. crusher run base;
- (35) 16,500 cu. yds. untreat. crushed gravel or stone (surf.);
- (36) 5240 cu. yds. screenings;
- (37) 4750 M. gals. water;

- (38) 5400 lin. ft. 18-in. corr. metal pipe;
 - (39) 800 lin. ft. 24-in. do;
 - (40) 120 lin. ft. 30-in. do;
 - (41) 450 lin. ft. 36-in. do;
 - (42) 500 lin. ft. 42-in. do;
 - (43) 60 lin. ft. 54-in. do;
 - (44) 500 lin. ft. 8-in. perf. metal pipe;
 - (45) 6 MFBM redwood timber dense sel. all-heart struc. grade (cattle passes);
 - (46) 15.5 MFBM redwood timber sel. all-heart struc. grade (cattle passes);
 - (47) 190 MFBM redwood timber sel. all-heart structural grade (cribs Types A and B);
 - (48) 8300 horizontal redwood timber members (cribs Type C);
 - (49) 590 timber guide posts and culvert markers complete in place;
 - (50) 1.5 miles exist. property fence, remove and dispose of;
 - (51) 4 miles new property fence;
 - (52) 15 fence gates complete in place;
 - (53) 510 sta. finish rdwy.;
 - (54) 180 monuments complete in place.
- (A) Yoddall Construction Co. and Chas. Harlow, Jr., San Francisco, \$678,799.
- (B) Mercer Fraser Co. and George Pollock Co., Eureka and Sacramento, \$713,961.
- (C) Hanrahan Co., San Francisco, \$806,030.
- (D) McDonald & Kahn, San Francisco, \$845,640.

	(A)	(B)	(C)	(D)
(1)	\$550.00	\$750.00	\$900.00	\$1000.00
(2)	400.00	625.00	700.00	600.00
(3)	100.00	280.00	350.00	200.00
(4)	50.00	52.00	40.00	40.00
(5)	70.00	125.00	100.00	70.00
(6)	100.00	260.00	250.00	150.00
(7)	160.00	430.00	400.00	240.00
(8)	250.00	650.00	600.00	500.00
(9)	350.00	840.00	900.00	500.00
(10)	400.00	1050.00	1200.00	800.00
(11)	600.00	1400.00	1600.00	1000.00
(12)	35.00	30.00	30.00	20.00
(13)	50.00	85.00	70.00	35.00
(14)	80.00	165.00	200.00	60.00
(15)	140.00	290.00	350.00	90.00
(16)	240.00	450.00	500.00	200.00
(17)	350.00	900.00	800.00	300.00
(18)	50.00	24.00	20.00	40.00
(19)	60.00	58.00	50.00	70.00

BIDS OPENED

STOCKTON, Cal. — San Francisco Bridge Co., 503 Market St., San Francisco, at \$1172 per cu. yd. submitted low bid to U. S. District Engineer, Sacramento, for dredging to 30-foot depth San Joaquin river channel between the easterly end of the turning basin at Stockton and a point just below Black Slough landing along a distance of approximately 39,600 feet, involving removal of 2,706,000 cubic yards of material (Unit 1 of the Stockton channel project). Complete bids follow:

	Per cu. yd.
(A) San Francisco Bridge Co.	\$1,172
(B) Hydraulic Dredging Co.	1,225
Engineer's Estimate	1,431

PLACER & NEVADA COUNTIES—GR. & SURF.—STATE

PLACER & NEVADA COS., Cal.—A. Teichert & Son, P. O. Box 1118, Sacramento, at \$237,203.00 submitted low bid to State Highway Commission to grade and surface with crusher run base and bituminous treated crushed gravel or stone 4.2 miles between Drum Canal and Rt. 37 near Yuba Pass, involving:

- (1) 35 acres clear and grub right of way;
- (2) 170,000 cu. yds. rdwy. excav., unclass.;
- (3) 612,000 sta. yds. overhaul;
- (4) 5400 cu. yds. struc. excav.;
- (5) 8100 cu. yds. sel. material;
- (6) 15,400 tons crusher run base;
- (7) 8,500 tons crushed gravel or stone (bit. treated surface);
- (8) 400 tons cut-back asphalt;
- (9) 400 bbls. light fuel oil (prime coat);
- (10) 325 cu. yds. rock backfill under-drain;
- (11) 400 cu. yds. Class A Port. cem. conc. (struc.);
- (12) 33,000 lbs. bar reinf. steel (struc.);
- (13) 132 lin. ft. 12-in. corru. metal pipe

- (14) 2442 lin. ft. 18-in. do;
 - (15) 480 lin. ft. 24-in. do;
 - (16) 176 lin. ft. 30-in. do;
 - (17) 212 lin. ft. 36-in. do;
 - (18) 65 lin. ft. 120-in. multiplate metal pipe;
 - (19) 1694 lin. ft. 8-in. perf. metal pipe;
 - (20) 8 lin. ft. 3-in. wrought iron pipe;
 - (21) 140 cu. yds. rubble masonry;
 - (22) 45 lin. ft. rubble masonry parapet
 - (23) 3600 M gals. water;
 - (24) 6.5 miles new property fence;
 - (25) 85 cu. yds. conc. and rubble masonry in exist. struc. to be removed;
 - (26) 9 gates;
 - (27) 90 lin. ft. pipe handrail;
 - (28) 222 sta. finish roadway;
 - (29) 92 monuments complete in place.
- Complete bids follow:
- (A) A. Teichert & Son, Sacramento\$237,203.00
 - (B) Union Paving Co., S. F. 247,826.00
 - (C) Utah Const. Co., S. F. 250,170.40
 - (D) Fredrickson & Watson, Oakland 268,793.35
 - (E) Hemstreet & Eell, Marysville 322,224.65
- Unit prices follow:

	(A)	(B)	(C)	(D)	(E)
(1)	\$400.00	\$300.00	\$250.00	\$350.00	\$300.00
(2)	.65	.72	.74	.78	1.15
(3)	.005	.008	.015	.005	.01
(4)	1.50	2.50	1.00	2.00	2.00
(5)	1.00	1.00	1.00	.53	.60
(6)	1.92	2.00	1.50	2.50	2.10
(7)	2.45	2.50	3.50	2.50	2.25
(8)	20.00	15.00	19.00	21.00	20.00
(9)	3.00	2.20	2.00	2.50	2.50
(10)	2.50	2.50	2.00	2.40	3.25
(11)	20.00	17.00	18.00	21.50	27.50
(12)	.05	.06	.05	.06	.055
(13)	1.50	1.00	1.20	1.10	1.10
(14)	1.75	1.50	1.90	1.50	1.50
(15)	3.00	2.50	2.70	2.30	2.25
(16)	3.50	3.00	3.60	3.00	3.00
(17)	5.00	4.00	5.00	4.40	4.00
(18)	35.00	40.00	26.00	36.00	35.00
(19)	1.00	1.75	.90	.80	.80
(20)	.50	.60	1.00	.65	1.00
(21)	12.00	10.00	12.00	9.00	12.50
(22)	5.00	10.00	3.00	3.00	5.00
(23)	1.00	.25	.60	1.75	1.25
(24)	700.00	500.00	850.00	825.00	800.00
(25)	5.00	2.00	3.00	1.75	2.50
(26)	30.00	16.00	15.00	13.00	12.00
(27)	2.00	1.00	2.00	2.30	2.25
(28)	5.00	5.00	6.00	8.25	5.00
(29)	3.00	5.00	3.00	2.70	3.00

SONOMA COUNTY — BRIDGE — STATE

SONOMA COUNTY, Cal.—M. B. McGowan, 74 New Montgomery St., San Francisco, at \$67,793 submitted low bid to State Highway Commission to construct a bridge over the Russian River at Preston, consisting of one 150-foot through steel truss span, two 38-foot 3-in. steel beam spans and three 37-foot steel beam spans.

Complete bids follow:
 (A) M. B. McGowan, 74 New Montgomery St., San Francisco, \$67,793.
 (B) J. F. Knapp, Oakland, \$68,247.
 (C) Neves & Harp, Santa Clara, \$72,343.80.

	(A)	(B)	(C)	(D)	(E)
(1)	\$ 3.15	\$ 3.00	\$ 1.75	\$ 4.00	\$ 4.00
(2)	7.00	12.50	10.00	12.50	13.00
(3)	19.00	18.00	21.00	18.50	20.00
(4)	.045	.042	.04	.045	.04
(5)	.05	.052	.055	.053	.052
(6)	.13	.125	.12	.12	.11
(7)	.15	.12	.12	.14	.12
(8)	5.00	2.50	2.50	5.00	3.00
(9)	450.00	500.00	1250.00	1000.00	2000.00
(10)	1.50	1.00	1.00	1.00	1.00
(11)	540.00	600.00	2860.00	2656.00	.....

- (D) Rocco & Calletti, San Rafael, \$74,097.50.
- (E) Barrett & Hilp, San Francisco, \$75,135.40.
- (1) 1600 cu. yds. struc. excav.;
- (2) 285 cu. yds. class A Port. cem. conc. (footing blocks);
- (3) 1180 cu. yds. do (struc.);
- (4) 134,300 lbs. bar reinf. steel;
- (5) 515,800 lbs. struc. steel;
- (6) 34,100 lbs. struc. steel (ralling);
- (7) 5790 lbs. cast steel;
- (8) 20 cu. yds. gravel for sidewalk;
- (9) 1 exist. bridge to be removed;
- (10) 75 lin. ft. temporary guard rail;
- (11) 1 lot misc. items of work.

CONTRACT AWARDED

ARIZONA STATE.—Pearson & Dickerson, 4485 Cypress Ave., Riverside, and Rogers Bros., Phoenix, at \$23,587.64 awarded contract by State Highway Commission for highway construction on the Holbrook-Lupton Highway, N.R.H. 83-G. The work, which begins approximately 18 miles east of Holbrook and extends east approximately 3.3 miles to the county line, consists of the grading, draining and placing of base course and is to be completed on or before January 31, 1934. The items are:

- (1) 8,943 cu. yds. roadway excav. (unclass.);
- (2) 772 cu. yds. drainage excav. (unclass.);
- (3) 100 cu. yds. slides and overbreakage;
- (4) 242 cu. yds. structural excav. (unclass.);
- (5) 14,984 cu. yds. borrow excav. (unclass.);
- (6) 7,313 sta. yds. earthwork overhaul;
- (7) 3,000 cu. yds. stripping pits;
- (8) 11,625 cu. yds. aggregate base course;
- (9) 10,311 sq. mi. aggregate base course, haul;
- (10) 70 cu. yds. class "A" concr. (incl. cem.);
- (11) 4,920 lbs. reinf. steel bar (C.I.P.);
- (12) 74 lin. ft. 24-in. C.M.P. (C.I.P. incl. bands);
- (13) 140 lin. ft. 30-in. C.M.P. (C.I.P. incl. bands);
- (14) 114 lin. ft. 36-in. C.M.P. (C.I.P. incl. bands);
- (15) 34,875 lin. ft. standard line fence (C.I.P.);
- (16) 20 each right-of-way markers (C.I.P.);

The total bids were:
 (A) Pearson & Dickerson, and Rogers Bros., Phoenix, Ariz., \$23,587.64.
 (B) Packard & Tanner, Phoenix, \$25,712.62.
 (C) All Arizona Engineering & Construction Co., Clifton, Ariz., \$31,116.58.

The unit bids were:

	(A)	(B)	(C)
(1)	\$.33	\$.50	\$.60
(2)	.25	.40	.40
(3)	.2475	.375	.45
(4)	1.00	1.25	1.25
(5)	.25	.32	.35
(6)	.10	.04	.06
(7)	.20	.32	.22
(8)	.60	.60	.75
(9)	.20	.17	.25
(10)	30.00	25.00	30.00
(11)	.10	.07	.10
(12)	2.80	2.80	2.75
(13)	3.75	3.30	3.75
(14)	4.75	4.80	5.40
(15)	.06	.07	.10
(16)	4.00	2.50	1.20

WASHOE COUNTY, Nev.—Dodge Construction, Inc., Fallon, Nev., at \$8,361.97, submitted low bid to Nevada State Highway Commission to surface with oil mixed gravel 3.39 mi. between Brown and the Foot of Geiger Grade, involving:

- (1) 71,684 gal. asphaltic road mat. type SC-2;
- (2) 3.39 mi. roadmix;
- (3) 3.39 mi. finish roadway.

Complete bids follow:
 (A) Dodge Construction Co., Fallon, Nev.\$8,361.97
 (B) Jack Casson, Oakland, Cal. 8,570.31
 (C) Engineer's Estimate 8,502.86

Unit bids follow:

	(A)	(B)	(C)
(1)	\$.08	\$.09	\$.07
(2)	700.00	600.00	700.00
(3)	75.00	25.00	100.00

VENTURA & LOS ANGELES COS. BIT SEAL COAT STATE

VENTURA AND LOS ANGELES COS., Cal.—Mattich Bros. and Gardner & Sons, Elsinore, at \$19,915.60 submitted low bid to State Highway Commission to apply bituminous seal coat to existing shoulders over 40.3 miles, between Ventura and Castaic Junction, involving:

- (1) 440 tons asphalt road oil;
(2) 3880 tons screenings;
(3) 1260 bbls. heavy fuel oil.
Complete bids follow:

Table with 6 columns (A-F) and 3 rows of bid amounts for asphalt, screenings, and fuel oil.

TEHAMA COUNTY, Cal.—Hemstreet & Bell, 501 Eleventh St., Marysville, at \$198,183.25 submitted low bid to State Highway Commission to grade 13.3 miles between Red Bluff and 1.5 miles east of Dales.

- Complete bids follow:
(1) 15 acres clear and grub right-of-way;
(2) 229,650 cu. yds. roadway excav., unclass.;
(3) 4,201,000 sta. yds. overhaul;
(4) 46,400 cu. yds. imp. borrow;
(5) 5000 cu. yds. struc. excav.;
(6) 4000 M gal. water;
(7) 770 cu. yds. class A Port. cem. conc. (struc.);
(8) 68,700 lbs. bar reinf. steel (struc.);
(9) 180 lin. ft. 12-in. reinf. conc. pipe;
(10) 3285 lin. ft. 18-in. do;
(11) 348 lin. ft. 24-in. do;
(12) 120 lin. ft. 30-in. do;
(13) 279 lin. ft. 36-in. do;
(14) 252 lin. ft. 48-in. do;
(15) 160 culvert markers;
(16) 705 sta. finish roadway;
(17) 117 monuments complete in place.

(A) Hemstreet & Bell, 501 11th St., Marysville, \$198,183.25.

(B) Heafey-Moore Co., Oakland, \$271,609.50.

(C) Isbell Construction Co., Carson City, Nev., \$408,151.25.

Unit prices follow:

Table with 3 columns (A, B, C) and 17 rows of unit prices for various construction items.

LOS ANGELES COUNTY, Cal.—San Francisco Bridge Co., 508 Market St., San Francisco, at \$.31 per cu. yd. submitted low bid to District Engineer, Los Angeles, for dredging in the Los Angeles Outer Harbor, involving 170,000 cu. yds. of materials. Only other bid submitted by Standard Dredging Co., Los Angeles, at \$.3416.

LOS ANGELES COUNTY, Cal.—Oil Fields Trucking Co., Taft, at \$11,240 submitted low bid to District Engineer, State Highway Commission, Los Angeles, to treat with fuel oil 14.5 ml. shoulders, gutters, and dykes on Ridge Route Alternate between Castic and Piru Gorge, involving 1105 sq. yds. scarifying, mixing oil and finish finish and 5000 bbls. heavy fuel oil in place.

Unit prices follow:
(1) 105,000 sq. yds. \$.048
(2) 5,000 bbls fuel oil 1.24

- (A) Mattich Bros. and Gardner & Son Elsinore, \$19,915.60.
(B) Griffith Constr. Co., Los Angeles, \$20,784.
(C) Kemper Constr. Co., Los Angeles, \$21,747.
(D) Geo. K. Thompson, Los Angeles, \$23,216.
(E) P. J. Akmadich, Los Angeles, \$25,561.
(F) M. J. Bevanda, Stockton, \$25,692.

Unit prices follow:

Table with 6 columns (A-F) and 3 rows of unit prices for asphalt, screenings, and fuel oil.

SAN FRANCISCO—Eaton & Smith, 715 Ocean Ave., San Francisco, submitted low bid to the Department of Public Works, City Hall, Sept. 20, to improve Gaven street from Barneveld to Merrill Sts. Bid follows:

- (1) 100 ft. armored conc. curb. .01
(2) 80 ft. 6-in. side sewer. .01
(3) 2000 sq. ft. asph. conc. pave. .50

BIDS OPENED

IMPERIAL COUNTY, Cal.—Oswald Bros., 366 E. Fifty-eighth St., Los Angeles, at \$74,624 submitted low bid to State Highway Commission to grade and place Portland cement concrete widening strips on 3.2 miles between 4 miles west of Westmoreland and Trifolium Canal involving:

- (1) 12,200 cu. yds. rdwy. excav., unclass.;
(2) 52,000 sta. yds. overhaul;
(3) 2330 cu. yds. struc. excav.;
(4) 2600 sq. yds. subgrade for pave.;
(5) 2490 cu. yds. Class A Port. cem. conc. (pave.);
(6) 225 cu. yds. do (struc.);
(7) 101,000 lbs. bar reinf. steel (pave. and struc.);
(8) 505 cu. yds. Class A Concrete (slope paving);
(9) 3100 sq. yds. reinf. steel (slope paving);
(10) 246 lin. ft. 24-in. corr. metal pipe
(11) 72 lin. ft. 30-in. do;
(12) 62 lin. ft. 48-in. do;
(13) 976 lin. ft. 4-in. tile underdrain;
(14) 63 lin. ft. 24-in. vit. clay pipe;
(15) 573 lin. ft. 36-in. do;
(16) 3200 tons crushed gravel or stone (borders and detours);
(17) 850 bbls. heavy fuel oil (borders and detours);
(18) 443 cu. yds. Port. cem. conc., remove from existing pave. and struc.;
(19) 169 sta. finish rdwy.;
(20) 44 monuments complete in place.

Complete bids follow:

- (A) Oswald Bros., L. A. \$74,624.00
(B) Griffith Co., L. A. 74,869.50
(C) Walter Traepfe, San Diego \$79,832.90
(D) Weymouth Crowell Co., Los Angeles 80,425.89

Unit prices follow:

Table with 4 columns (A, B, C, D) and 20 rows of unit prices for various construction items.

BIDS OPENED

MONO COUNTY, Cal.—Basich Bros., 20550 Normandie Ave., Torrance, at \$117,005.80 submitted low bid to State Highway Commission to grade and surface with bituminous treated crushed gravel or stone 6.2 miles between Point Ranch and Dressler's Corner, involving:

- (1) 33,400 cu. yds. rdwy. excav., unclass.;
(2) 300,000 sta. yds. overhaul;
(3) 51,000 cu. yds. imp. borrow;
(4) 6300 cu. yds. ditch excav.;
(5) 2450 cu. yds. struc. excav.;
(6) 18,800 cu. yds. pit run gravel;
(7) 34,000 tons screened gravel;
(8) 12,000 tons crushed gravel or stone (bit. treat. surf.);
(9) 670 tons cut-back asph.;
(10) 380 tons screenings;
(11) 470 bbls. light fuel oil;
(12) 145 cu. yds. Class A Port. cem. concrete;
(13) 75 cu. yds. Class B do (footings);
(14) 16,100 lbs. bar reinf. steel;
(15) 54 lin. ft. 8-in. corr. metal pipe;
(16) 2130 lin. ft. 18-in. do;
(17) 426 lin. ft. 24-in. do;
(18) 626 lin. ft. 30-in. do;
(19) 84 lin. ft. 36-in. do;
(20) 506 lin. ft. 12-in. perf. metal pipe underdrain;
(21) 14 lin. ft. corr. metal pipe, clean and relay;
(22) 566 lin. ft. corr. metal pipe, remove and salvage;
(23) 2500 M gals. water;
(24) 30 cu. yds. light riprap;
(25) 3.47 miles new property fence, type A;
(26) .57 mile do, type B;
(27) 3.4 miles do, type C;
(28) .3 mile do, type D;
(29) 28 fence gates;
(30) 23 MFMB redwood timber dense sel. all-heart struc. grade;
(31) 17 MFMB redwood timber sel. all-heart struc. grade;
(32) 1 existing reinf. conc. bridge, remove and dispose of;
(33) 6 timber guide posts;
(34) 227 sta. finish rdwy.;
(35) 95 monuments complete in place.

Complete bids follow:

- (A) Basich Bros., Torrance, \$117,005.80.
(B) Hemstreet & Bell, Marysville, \$124,997.90.
(C) Southwest Paving Co., Los Angeles, \$135,944.32.
(D) Isbell Constr. Co., Carson City, Nevada, \$155,262.40.

Unit bids follow:

Table with 4 columns (A, B, C, D) and 35 rows of unit bids for various construction items.

LOS ANGELES COUNTY — GRADE — STATE

LOS ANGELES CO., Cal.—Jahn & Bressl Construction Co., Inc., Lane Mortgage Bldg., Los Angeles, at \$297,529.10 submitted low bid to State Highway Commission to grade four miles between Colby Canyon and Mt. Wilson, involving:

- (1) 914,000 cu. yds. rdwy. excav., unclass.;
- (2) 5,000,000 sta. yds. overhaul;
- (3) 5870 cu. yds. struc. excav.;
- (4) 150 cu. yds. Class A Port. cem. conc. (struc.);
- (5) 12,100 lbs. bar reinf. steel (struc.);
- (6) 1900 lin. ft. 8-in. corru. metal pipe
- (7) 4780 lin. ft. 24-in. do;
- (8) 240 lin. ft. 30-in. do;
- (9) 260 lin. ft. 36-in. do;
- (10) 112 lin. ft. 84-in. do;
- (11) 310 lin. ft. 90-in. multiplate metal pipe;

- (12) 162 lin. ft. 105-in. do;
- (13) 208 lin. ft. 135-in. do;
- (14) 500 lin. ft. lam. timber guard rail
- (15) 2950 bbls. fuel oil;
- (16) 130 culvert markers;
- (17) 209 sta. finish roadway.

Complete bids follow:

(A) Jahn & Bressl, L. A. \$297,529.10	
(B) Mittry Bros. Const. Co., Los Angeles	326,204.00
(C) Geo. Pollock Co., Sacto.	346,466.00
(D) Guy F. Atkinson Co., San Francisco	388,849.00
(E) Vonderhelen & Pierson, Castaic	391,258.50
(F) Morrison & Knudsen Co., Los Angeles	467,662.00
(G) Sharp & Fellows Const. Co., Los Angeles	516,825.40

Unit prices follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
(1) .....	.265	.29	.31	.34	.34	.42	.46
(2) .....	.001	.005	.0025	.004	.005	.005	.007
(3) .....	.60	1.25	.80	1.10	1.00	.80	1.75
(4)	18.00	25.00	16.00	30.00	30.00	20.00	20.00
(5) .....	.05	.055	.05	.04	.05	.05	.044
(6) .....	.85	1.00	1.00	1.00	.90	.90	.90
(7)	2.05	2.35	2.25	2.10	2.00	2.40	2.20
(8)	2.55	2.75	2.75	3.00	2.60	3.20	2.90
(9)	4.25	4.00	3.15	4.50	4.00	4.80	4.20
(10)	15.30	15.00	16.25	15.00	17.00	17.00	16.00
(11)	22.95	21.00	24.00	25.00	24.00	26.00	23.50
(12)	28.90	27.00	27.00	30.00	30.00	32.00	29.00
(13)	41.65	40.00	39.00	45.00	44.00	48.00	43.00
(14)	1.00	1.50	.80	.85	1.00	.80	1.20
(15)	2.00	3.00	1.50	2.50	2.25	2.50	2.50
(16)	2.50	1.00	1.00	2.50	2.00	2.20	2.00
(17)	7.00	6.00	10.00	5.00	4.00	10.00	12.50

SURFACING — LINCOLN COUNTY, NEVADA

LINCOLN CO., Nevada.—Gibbons & Reed Co., Salt Lake City, at \$134,282.88, submitted low bid to Nevada State Highway Commission to surface with crushed gravel or stone 14.37 mi. between Maynard Lake and Alamo, involving:

- (1) 187,500 cu. yds. rdwy. excav.;
- (2) 85 acres clear and grub;
- (3) 149,196 sta. yds. overhaul;
- (4) 24,453 cu. yds. select borrow;
- (5) 1570 cu. yds. struc. excav.;
- (6) 14.37 miles subgrade;
- (7) 34,000 cu. yds. crushed gravel or stone surf.;
- (8) 120 cu. yds. Class A concrete;
- (9) 200 cu. yds. Class B concrete;
- (10) 17,700 lbs. reinf. steel;
- (11) 28,607 lin. ft. remove fence;
- (12) 1064 lin. ft. 18-in. corru. metal pipe;
- (13) 1066 lin. ft. 24-in. do;
- (14) 114 lin. ft. 30-in. do;
- (15) 414 lin. ft. 36-in. do;

- (16) 160 lin. ft. 48-in. do;
- (17) 702.5 lin. ft. 18-in. vit. pipe;
- (18) 977.5 lin. ft. 24-in. do;
- (19) 522.5 lin. ft. 36-in. do;
- (20) 2482 lin. ft. reconstruct fence;
- (21) 47,731 lin. ft. construct fence;
- (22) 2900 cu. yds. handlaid riprap;
- (23) 240 monuments;
- (24) remove 4 buildings, lump sum;
- (25) 14.37 miles finish roadway.

Complete bids follow:

(A) Gibbons & Reed, Salt Lake City	\$134,282.88
(B) Utah Constr. Co., Ogden, Utah	150,717.63
(C) M. J. Bavanda, Stockton, Cal.	156,161.65
(D) Jack Casson, Oakland, Cal.	180,597.21
(E) Isbell Constr. Co., Carson City, Nev.	195,463.89
(F) Engineer's Estimate	168,977.27

Unit prices follow:

	(A)	(B)	(C)	(D)	(E)	(F)
(1) .....	.27	.38	.35	.50	.46	.45
(2)	12.50	17.00	50.00	25.00	25.00	10.60
(3) .....	.025	.02	.02	.01	.03	.02
(4) .....	.28	.35	.35	.35	.40	.35
(5)	1.00	.80	1.50	.75	1.50	1.00
(6)	100.00	50.00	100.00	200.00	100.00	100.00
(7) .....	.70	.75	.75	.60	1.00	.80
(8)	20.00	25.00	24.00	25.00	32.00	27.00
(9)	20.00	25.00	22.00	23.00	32.00	25.00
(10) .....	.06	.08	.06	.07	.06	.06
(11) .....	.02	.02	.05	.05	.03	.02
(12)	1.65	1.50	1.75	2.00	1.90	1.50
(13)	2.50	2.25	2.50	3.00	2.75	2.25
(14)	2.90	2.75	4.00	3.50	3.50	3.25
(15)	4.60	4.25	5.00	4.50	5.50	4.00
(16)	7.20	6.50	7.50	6.00	8.25	6.50
(17)	2.30	2.50	2.00	2.20	3.00	2.50
(18)	4.30	4.25	4.00	3.60	4.50	3.75
(19)	11.10	10.00	8.50	10.00	10.00	5.00
(20) .....	.07	.06	.07	.10	.05	.08
(21) .....	.11	.08	.12	.15	.15	.12
(22)	3.50	1.50	2.50	3.50	4.00	3.00
(23)	2.25	3.00	3.00	5.00	4.00	3.00
(24)	200.00	300.00	2000.00	200.00	200.00	250.00
(25)	100.00	100.00	125.00	150.00	150.00	100.00

BIDS OPENED

LOS ANGELES COUNTY, Cal.—Oswald Bros., 366 E. 58th St., Los Angeles, at \$2,338.30 submitted low bid to State Highway Commission to grade and pave with asphalt concrete 0.6 mile between Poothill Blvd. and Abosta Ave., involving:

- (1) clear and grub right of way;
- (2) 3,500 cu. yds. rdwy. excav., unclass.;
- (3) 12,000 cu. yds. imp. borrow;
- (4) 600 cu. yds. struc. excav.;
- (5) 14,350 sq. yds. subgrade for pave.
- (6) 800 sq. yds. asph. paint binder;
- (7) 6,200 tons asph. concrete;
- (8) 232 cu. yds. salvage macadam;
- (9) 160 tons broken stone (bit. mac.)
- (10) 14 tons grade "E" asph. (bit. macadam);
- (11) 500 bbls. fuel oil;
- (12) 220 cu. yds. Class "A" Port. cem. conc. (struc.);
- (13) 215 cu. yds. do (curbs);
- (14) 20,000 lbs. bar reinf. steel (struc.);
- (15) 2,800 lbs. misc. iron and steel (struc.);
- (16) 16 lin. ft. 8-in. corru. metal pipe;
- (17) 510 lin. ft. 18-in. corru. metal pipe
- (18) 100 lin. ft. solid timber guard rail
- (19) 32 sta. finish roadway.

Complete bids follow:

(A) Oswald Bros., L. A.	\$2,338.30
(B) W. E. Hall Co., Alhambra	34,514.50
(C) Griffith Co., L. A.	34,543.50
(D) P. J. Akmadzich, L. A.	45,938.23

Unit prices follow:

	(A)	(B)	(C)	(D)
(1)	\$110.00	\$200.00	\$100.00	\$300.00
(2) .....	.30	.35	.25	.375
(3) .....	.35	.40	.50	.81
(4) .....	.50	.75	.60	1.00
(5) .....	.06	.08	.07	.125
(6) .....	.02	.045	.03	.025
(7)	2.55	2.68	2.65	2.93
(8)	2.15	1.25	1.00	3.12
(9)	3.65	3.50	1.60	2.82
(10)	22.50	17.50	20.00	25.00
(11)	1.80	2.00	1.70	3.00
(12)	15.00	15.00	15.00	21.25
(13)	11.00	12.00	12.00	16.88
(14) .....	.015	.038	.04	.056
(15) .....	.06	.06	.05	.112
(16) .....	.75	1.00	2.00	.94
(17)	1.65	1.75	2.00	1.81
(18) .....	.75	1.00	1.00	1.25
(19)	1.00	4.00	5.00	1.25

BIDS OPENED

NEVADA COUNTY, Cal.—A. Teichert & Son, 1846 Thirty-seventh St., Sacramento, at \$122,408.50 submitted low bid to State Highway Commission to surface with bituminous treated crushed gravel or stone 7.4 miles west of Washington Road and 0.5 miles east of Summit. Complete bids follow:

- (A) Teichert & Son, 1846 Thirty-seventh St., Sacramento, \$122,408.50.
- (B) Hemstreet & Bell, Marysville, \$126,057.50.
- (C) Basich Bros., Torrance, \$129,882.50.
- (D) Central States Construction Co., Oakland, \$130,860.00.
- (1) 31,500 tons crusher run base;
- (2) 14,100 tons crushed gravel or stone (bit. treated surf.);
- (3) 1360 M. gals. water;
- (4) 540 bbls. light fuel oil (prime coat);
- (5) 635 tons cut-back asph. (bit. treated surface);
- (6) 36 tons cut-back asph. (seal coat);
- (7) 390 sta. finish rdwy.

Unit prices follow:

	(A)	(B)	(C)	(D)
(1)	\$ 2.17	\$ 2.25	\$ 2.25	\$ 2.30
(2)	2.43	2.40	2.80	2.80
(3)	1.50	2.00	3.50	2.00
(4)	3.10	2.75	3.00	3.00
(5)	21.50	22.50	16.50	26.00
(6)	24.00	25.00	20.00	20.00
(7)	4.00	5.00	5.00	3.00

SURFACING — LANDER COUNTY, NEVADA

LANDER CO., Nevada — Nevada Rock & Sand Co., Inc., Reno, Nev., at \$85,736.66, submitted low bid to Nevada State Highway Commission to surface with crushed gravel or stone 15.92 mi. between Campbell Creek Ranch and Railroad Pass, involving:

- (1) 75,000 cu. yds. excav.;
- (2) 25,207 sta. yds. overhaul;
- (3) 57,118 cu. yds. borrow;
- (4) 1100 cu. yds. struc. excav.;
- (5) 15.92 mi. sub-grade;
- (6) 50,300 cu. yds. cru. grav.- stone surf.;
- (7) 70 cu. yds. class A conc.;
- (8) 127 cu. yds. class B conc.;
- (9) 9955 lbs. reinf. steel;
- (10) 116 l. f. 15-in. C.M.P.;
- (11) 392 l. f. 18-in. C.M.P.;
- (12) 2744 l. f. 24-in. C.M.P.;
- (13) 160 l. f. 30-in. C.M.P.;
- (14) 214 l. f. 36-in. C.M.P.;

- (15) 44 monuments;
- (16) 172 l. f. remove culv. pipe;
- (17) 36 remove culv. headwalls;
- (18) Lump sum remove conc. culv.;
- (19) 1968 l. f. remove fence;
- (20) 5596 l. f. reconstruct fence;
- (21) 15.92 mi. finish rdwy.

Unit bids follow:

- (A) Nevada Rock & Sand Co., Reno, Nev. \$85,736.66
- (B) Dodge Constr., Inc., Fallon, Nev. 87,268.44
- (C) Utah Constr. Co., Ogden, Utah 93,422.97
- (D) Houser & Garnett, Glendale, Cal. 95,212.36
- (E) Jack Casson, Oakland, Cal. 104,109.00
- (F) Isbell Constr. Co., Carson City, Nev. 114,452.50
- (G) Engineer's Estimate 102,372.50

Unit prices follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
(1)	\$.24	\$.26	\$.30	\$.28	\$.30	\$.33	\$.30
(2)	.04	.04	.03	.03	.01	.02	.03
(3)	.36	.32	.35	.35	.50	.40	.40
(4)	1.00	1.00	.80	1.00	1.00	1.50	1.00
(5)	50.00	50.00	70.00	100.00	100.00	100.00	100.00
(6)	.56	.60	.60	.60	.65	.85	.70
(7)	27.50	28.00	28.00	40.00	20.00	30.00	27.00
(8)	27.00	28.00	28.00	40.00	17.50	30.00	28.00
(9)	.06	.08	.08	.07	.05	.07	.08
(10)	1.20	1.25	1.50	1.25	1.75	1.65	1.50
(11)	1.35	1.50	1.75	1.50	2.00	1.90	1.75
(12)	2.05	2.00	2.50	2.25	3.00	2.70	2.50
(13)	2.65	2.75	3.00	3.00	3.50	3.50	3.50
(14)	4.00	4.00	5.00	4.00	5.00	5.50	4.50
(15)	2.50	2.50	3.00	5.00	2.50	4.00	3.00
(16)	.50	.50	1.00	.50	1.00	.85	.50
(17)	2.50	2.50	3.00	5.00	4.00	4.00	7.00
(18)	50.00	50.00	100.00	250.00	100.00	225.00	100.00
(19)	.05	.05	.02	.05	.05	.03	.03
(20)	.10	.10	.05	.10	.05	.05	.12
(21)	100.00	100.00	100.00	150.00	100.00	150.00	100.00

MENDOCINO COUNTY — SURFACING — STATE

MENDOCINO COUNTY, Cal. — C. W. Wood, Country Club Blvd., Stockton, at \$45,600 submitted low bid to State of California to apply bituminous surface treatment over 9.5 miles bet. Ukiah and Hopland, involving:

- (1) 9200 tons coarse rock and screenings;
- (2) 250 tons emul. asph. road oil Type A;
- (3) 300 tons do, Type B;
- (4) 3000 cu. yds. screened gravel (shoulders);

- (5) 600 bbls. fuel oil (shoulders);

Complete bids follow:

- (A) C. W. Wood, Stockton, \$45,600.
- (B) E. A. Ford, San Anselmo, \$46,272.50.
- (C) Granite Construction Co., Watsonville, \$48,518.
- (D) Pacific Truck Service, Inc., San Jose, \$49,776.30.
- (E) J. C. Compton, McMinnville, Oregon, \$51,405.
- (F) A. Telchert & Son, Sacramento, \$57,090.

Unit prices follow:

	(A)	(B)	(C)	(D)	(E)	(F)
(1)	\$ 2.75	\$ 2.83	\$ 2.79	\$ 2.884	\$ 3.10	\$ 3.65
(2)	20.00	19.65	20.00	22.746	20.50	21.80
(3)	22.00	21.00	23.00	25.626	23.00	24.20
(4)	2.50	2.60	3.25	2.86	3.15	3.10
(5)	2.00	2.04	2.00	2.15	2.35	2.50

IMPERIAL COUNTY — OIL TREATMENT — STATE

IMPERIAL COUNTY, Cal.—Oswald Bros., 366 E. 58th St., Los Angeles, at \$71,000.10 submitted low bid to State Highway Commission to construct oil treated crushed gravel or stone borders, 25.6 miles, between the northerly boundary and Trifolium Canal, involving:

Trifolium Canal, involving:

- (1) 31,250 tons crushed gravel or stone (borders);
- (2) 7810 lbs. heavy fuel oil (borders);
- (3) 25.6 miles finish roadway.

Complete bids follow:

- (A) Oswald Bros., Los Angeles, \$71,000.10.
- (B) United Concrete Pipe Corp., Los Angeles, \$75,290.50.
- (C) R. E. Hazard Constr. Co., San Diego, \$79,770.
- (D) Griffith Co., Los Angeles, \$84,587.
- (E) B. G. Carroll, San Diego, \$94,959.90.
- (F) V. R. Dennis Constr. Co., San Diego, \$141,900.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)
(1)	\$ 1.80	\$ 1.94	\$ 2.12	\$ 2.20	\$ 2.49	\$ 4.00
(2)	1.61	1.55	1.60	1.70	1.54	2.00
(3)	85.00	100.00	40.00	100.00	200.00	50.00

TULARE COUNTY, Cal. — Union Paving Co., Call Bldg., San Francisco, at \$75,931.64 submitted low bid to State Highway Commission to grade and pave with asphaltic concrete 5 miles between the western boundary and 2 miles south of Plaza Garage, involving:

- (1) 650 cu. yds. rdwy. excav., unclass;
- (2) 29,600 cu. yds. imp. borrow;
- (3) 1550 cu. yds. struc. excav.;
- (4) 9800 sq. yds. subgrade for pave;
- (5) 17,800 tons asph. conc.;
- (6) 155 cu. yds. class A Port. cem. conc. (struc.);
- (7) 8550 lbs. bar reinf. steel (struc.);
- (8) 174 lin. ft. 18-in. corr. metal pipe
- (9) 76 lin. ft. 36-in. do;
- (10) 208 lin. ft. 42-in. do;
- (11) 60 lin. ft. 54-in. do;
- (12) 9 conc. joints (pipe culverts);
- (13) 5450 tons cru. run base;
- (14) 49,750 sq. yds. a sph. paint binder
- (15) 360 cu. yds. conc. to be removed from exist. pave and struc.;
- (16) 2100 M gal. water;
- (17) 4930 bbl. fuel oil;
- (18) 0.24 mi. move and reset property fence;
- (19) 24 culvert markers;
- (20) 32 timber guide posts;
- (21) 267 sta. finish roadway;
- (22) 24 monuments complete in place.

Complete bids follow:

- (A) Union Paving Co., San Francisco, \$75,931.64.
- (B) Basich Bros., Torrance, \$84,565.
- (C) Valley Paving & Constr. Co., Fresno, \$95,786.
- (D) P. J. Akmadich, Los Angeles, \$106,905.50.

Unit bids follow:

	(A)	(B)	(C)	(D)
(1)	\$.16	\$.20	\$.50	\$.30
(2)	.20	.25	.30	.45
(3)	.60	.60	.50	1.00
(4)	.06	.08	.10	.10
(5)	2.10	2.76	3.00	3.15
(6)	18.00	18.00	20.00	20.00
(7)	.05	.05	.04	.10
(8)	1.50	1.50	1.50	1.50
(9)	3.80	5.00	4.00	5.50
(10)	5.90	7.50	6.00	8.50
(11)	9.00	11.00	10.00	10.80
(12)	7.50	10.00	2.00	12.00
(13)	2.30	1.50	1.50	2.15
(14)	.02	.02	.02	.02
(15)	2.00	1.00	3.00	2.50
(16)	.40	.40	2.00	1.20
(17)	1.50	1.72	2.00	3.00
(18)	36.00	100.00	200.00	300.00
(19)	2.00	2.00	1.00	2.00
(20)	5.00	2.50	1.00	2.00
(21)	10.00	5.00	4.00	5.00
(22)	1.50	2.00	3.00	3.00

NAPA COUNTY, Cal.—C. Compton, McMinnville, Oregon, at \$42,044 submitted low bid to State Highway Commission to surface with bituminous treated crushed gravel or stone 8.2 ml. bet. easterly boundary and Napa Wye; and between Napa Wye and southerly boundary, involving:

- (1) 108,600 sq. yds. asph. paint binder;
- (2) 8800 tons cur. gravel or stone (bit. tr. surf.);
- (3) 550 tons cut-back asph. (surf. and seal coat);
- (4) 1100 tons screenings (seal coat);
- (5) 2300 tons cru. run base (shoulders)

Complete bids follow:

- (A) J. C. Compton, McMinnville, Ore., \$42,044.
- (B) Granite Constr. Co., Watsonville, \$44,487.
- (C) Pacific States Constr. Co., San Francisco, \$44,788.50.
- (D) A. Telchert & Son, Sacramento, \$46,509.80.

Unit bids follow:

	(A)	(B)	(C)	(D)
(1)	\$.015	\$.015	\$.01	\$.018
(2)	2.85	3.00	3.05	2.95
(3)	16.00	16.00	15.25	17.90

MARIPOSA COUNTY — SURFACING — STATE

MARIPOSA COUNTY, Cal.—Fredrickson & Watson Constr. Co., 873 81st Ave., Oakland, at \$146,094.10 submitted low bid to State Highway Commission to surface with crushed gravel or stone and bituminous seal coat 15.1 miles between Orange Hill School and Mariposa, involving:

- (1) 35,000 cu. yds. rdwy. borrow excavation, unclass.;
- (2) 350 cu. yds. struc. excav.;
- (3) 176,700 sq. yds. subgrade surf.;
- (4) 87,000 tons crush. gravel or stone surface;
- (5) 1600 bbls. light fuel oil;
- (6) 230 tons asph. road oil;
- (7) 3200 tons rock screenings;
- (8) 6 cu. yds. Class A Port. cement concrete (struc.);
- (9) 250 lbs. bar reinf. steel (struc.);
- (10) 756 lin. ft. 8-in. corr. metal pipe;
- (11) 30 lin. ft. 12-in. do;
- (12) 120 lin. ft. 18-in. do;
- (13) 700 lin. ft. 8-in. perf. metal pipe underdrain;

- (14) 8000 lin. ft. lam. timber guard rail;
- (15) 700 1/2" lumber guide posts;
- (16) 50 culv. markers;
- (17) 3550 M. gals. water;
- (18) 796 sta. finish roadway.

Complete bids follow:

- (A) Frederickson & Watson, Oakland, \$146,094.10.
- (B) Union Paving Co., San Francisco, \$173,014.40.
- (C) A. Teichert, Sacramento, \$183,585.50.
- (D) Basich Bros., Torrance, \$188,012.
- (E) M. J. Bevanda, Stockton, \$197,412.10.
- (F) J. Casson, Hayward, \$198,592.
- (G) Hemstreet & Bell, Marysville, \$219,528.
- (H) Clyde W. Wood, Stockton, \$236,026.
- (I) E. B. Bishop and Chas. Harlow, Jr., Sacramento, \$242,506.90.
- (J) Geo. Pollock, Sacramento, \$243,405.80.

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
(1) ..	.38	.25	.35	.25	.49	.50	.45	.40	.60	.50
(2) ..	1.00	1.00	1.20	1.20	2.00	1.00	2.00	.75	1.00	1.00
(3) ..	.02	.03	.04	.03	.039	.03	.04	.015	.10	.10
(4) ..	1.10	1.51	1.40	1.60	1.56	1.60	1.75	2.00	1.90	1.95
(5) ..	2.00	1.50	2.50	1.85	2.85	2.50	2.50	1.60	2.70	2.50
(6) ..	20.00	15.00	16.00	16.00	20.50	20.00	22.00	14.50	23.50	18.50
(7) ..	1.60	2.00	3.25	1.60	2.55	3.00	3.50	3.00	1.90	3.00
(8) ..	30.00	16.00	25.00	50.00	30.50	20.00	35.00	30.00	20.00	40.90
(9) ..	.06	.10	.07	.10	.12	.05	.10	.10	.08	.07
(10) ..	.85	.90	1.00	1.00	1.10	1.00	1.00	1.25	.90	1.30
(11) ..	1.25	1.00	1.25	1.50	1.20	1.50	1.50	1.60	1.60	1.90
(12) ..	2.50	1.50	1.75	2.00	1.58	2.00	1.50	2.00	1.80	2.50
(13) ..	2.40	1.00	1.00	1.50	2.00	1.10	1.50	2.00	1.50	2.50
(14) ..	.80	1.00	1.00	.80	.91	1.00	.90	1.25	.85	.90
(15) ..	3.00	3.00	3.00	2.00	2.55	1.00	2.50	3.00	2.65	1.00
(16) ..	2.50	1.00	2.25	1.50	2.45	1.00	2.00	2.00	2.35	.75
(17) ..	1.00	.20	2.00	2.00	.45	1.00	2.00	2.50	1.60	1.00
(18) ..	5.00	2.00	4.00	5.00	6.10	3.00	4.00	5.00	5.00	5.00

RIVERSIDE & IMPERIAL COUNTIES—FUEL OIL—STATE

RIVERSIDE & IMPERIAL COS., Cal.—Mattich Bros. & George Gardner, Elsinore, at \$21,994 submitted low bid to State Highway Commission to treat shoulders with fuel oil over 21.7 miles between Avenue 62 and Riverside-Imperial county line, and between three miles and ten miles south of the Riverside-Imperial county line, involving:

- (1) 11,000 bbls. heavy fuel oil;
- (2) 21.7 miles finish roadway.

Complete bids follow:

- (A) Mattich Bros. and Geo. Gardner, Elsinore, \$21,994.00
- (B) C. W. Wood, Stockton, 23,856.50
- (C) P. J. Akmadich, L. A., 25,270.00
- (D) United Concrete Pipe Corp., Los Angeles, 26,358.00
- (E) Walter Trapke, San Diego, 26,927.50
- (F) Geo. K. Thompson, L. A., 27,477.50
- (G) Southwest Paving Co., Los Angeles, 29,055.50

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
(1) ..	1.96	2.08	2.00	2.12	2.30	2.35	2.60
(2) ..	20.00	45.00	100.00	140.00	75.00	75.00	21.90

SACRAMENTO COUNTY — WIDEN BRIDGES — STATE

SACRAMENTO COUNTY, Cal.—M. A. Jenkins, 3560 Y St., Sacramento, at \$14,964.75 submitted low bids to State Highway Commission to widen eight reinforced concrete slab bridges and one culvert from 24-ft. roadway to 34-ft. roadway, at points between Sacramento and McConnell, involving:

- (1) 700 cu. yds. struc. excav.;
- (2) 120 cu. yds. exist. conc. to be removed;
- (3) 690 cu. yds. class A Port. cem. concrete;
- (4) 64,500 lbs. bar. reinf. steel;
- (5) 1275 lin. ft. solid timber railing;
- (6) 1 lot temporary timber guard-rail;

(7) 1 lot misc. items of work.

Complete bids follow:

- (A) M. A. Jenkins, Sacramento, \$14,964.75.
- (B) J. W. Hoopes, Sacramento, \$16,695.25.
- (C) Valley Contractors, Inc., Modesto, \$18,047.50.
- (D) Lord & Bishop, Sacramento, \$18,230.
- (E) P. F. Bender, North Sacramento, \$20,964.90.
- (F) Holdener Constr. Co., Sacramento, \$22,527.50.
- (G) Geo. Pollock Co., Sacramento, \$23,687.50.

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
(1) ..	1.00	1.00	1.00	1.00	1.50	2.25	1.60
(2) ..	5.00	5.00	4.50	2.50	6.00	8.00	14.00
(3) ..	13.80	15.00	17.00	17.00	19.75	19.30	18.00
(4) ..	.042	.042	.045	.05	.0475	.047	.05
(5) ..	.85	.95	1.00	1.00	.95	1.25	1.50
(6) ..	150.00	450.00	300.00	400.00	892.50	931.00	2430.00
(7) ..	200.00	675.00	600.00	600.00	400.00	1037.00	900.00

BIDS OPENED

RIVERSIDE COUNTY, Cal.—Walter Trepte, 211 Scripps Building, San Diego, at \$47,670.75 submitted low bid to State Highway Commission to grade and surface with oil treated crushed gravel or stone 9.2 miles between Black Butte and Blythe, involving:

- (1) 9000 cu. yds. rdwy. ex. unclass;
- (2) 15,000 cu. yds. imp. borrow;
- (3) 19,800 tons cru. gravel or stone surf.;
- (4) 700 cu. yds. screenings (seal coat)
- (5) 5410 bbls. fuel oil;
- (6) 9.15 mil. paint traffic stripe;
- (7) 484 sta. finish roadway.

Complete bids follow:

- (A) Walter Trepte, San Diego, \$47,670.75
- (B) Oswald Bros., L. A., 52,873.00
- (C) A. Teichert, Sacto., 54,049.75
- (D) W. E. Hall Co., Alhambra, 64,405.75
- (E) Geo. Herz & Co., San Bernardino, 64,437.70

Unit prices follow:

	(A)	(B)	(C)	(D)	(E)
(1) ..	.17	.20	.22	.20	.29
(2) ..	.46	.70	.63	.87	1.00
(3) ..	1.50	1.47	1.32	1.75	1.70
(4) ..	1.10	1.00	2.50	3.00	2.40
(5) ..	1.40	1.85	2.20	1.95	1.85
(6) ..	25.00	30.00	45.00	35.00	40.00
(7) ..	2.00	1.00	5.00	4.00	2.30

BIDS OPENED

LOS ANGELES COUNTY, Cal.—Griffith Company, Los Angeles Railway Bldg., Los Angeles, at \$101,803.50 submitted low bid to State Highway Commission to grade and pave with Portland cement concrete and asphalt concrete 5.1 miles between Santa Clara River and Castaic School, involving:

- (1) 272 sta. yds. clear and grub right of way;
- (2) 29,000 cu. yds. rdwy. excav., unclass.;
- (3) 230,000 sta. yds. overhaul;
- (4) 15,500 cu. yds. imp. borrow;
- (5) 160 cu. yds. struc. excav.;
- (6) 41,700 sq. yds. subgrade for pave.
- (7) 3,100 cu. yds. Class "A" Portland cem. conc. (pave.);
- (8) 8 cu. yds. do (struc.);
- (9) 69,000 lbs. bar reinf. steel (pave. and struc.);
- (10) 21,100 tons asph. conc.;
- (11) 36,250 sq. yds. asph. paint binder;
- (12) 134 lin. ft. 18-in. corr. metal pipe
- (13) 72 lin. ft. 24-in. do;
- (14) 10 lin. ft. 30-in. do;
- (15) 2,000 M. gals. water;
- (16) 7 culvert markers;
- (17) 2,300 bbls. heavy fuel oil;
- (18) 1.7 miles move and reset property fence;
- (19) 272 sta. finish roadway;
- (20) 40 monuments complete in place.

Complete bids follow:

- (A) Griffith Co., L. A., \$101,803.50
- (B) Jahn & Bressi, L. A., 137,163.00
- (C) P. J. Akmadich, L. A., 138,600.62

Unit prices follow:

	(A)	(B)	(C)
(1) ..	2.00	2.00	3.12
(2) ..	.25	.25	.375
(3) ..	.004	.005	.006
(4) ..	.35	.40	.375
(5) ..	1.00	.75	1.00
(6) ..	.08	.08	.125
(7) ..	1.35	8.00	9.33
(8) ..	25.00	25.00	21.25
(9) ..	.04	.045	.0525
(10) ..	2.53	3.80	3.32
(11) ..	.02	.05	.019
(12) ..	1.75	1.80	1.81
(13) ..	2.50	2.40	2.52
(14) ..	3.50	3.00	3.25
(15) ..	.30	.50	1.25
(16) ..	2.00	2.50	5.00
(17) ..	2.10	2.00	2.37
(18) ..	60.00	200.00	312.50
(19) ..	5.00	3.00	6.25
(20) ..	1.50	4.00	4.34

OVERPASS HEAD — ARIZONA STATE

ARIZONA STATE—All-Arizona Engineering & Construction Co., Clifton, Ariz., at \$40,467.19 awarded contract by State Highway Commission for highway construction on Flagstaff-Williams Highway, N.R.H.-24-B. Work located approximately five (5) miles west of Flagstaff, consists of construction of overpass and approaches with incidental grading and draining and is to be completed on or before February 15, 1934. The items are:

- (1) 2,143 cu. yds. roadway excav. (unclass.);
- (2) 2,421 cu. yds. drainage excav. (unclass.);
- (3) 150 cu. yds. slides and overbreakage;
- (4) 304 cu. yds. structural excav. (unclass.);
- (5) 18,456 cu. yds. borrow excav. (C.I.P.) (unclass.);
- (6) 763 sta. yds. earthwork overhaul;
- (7) 913 cu. yds. selected borrow;
- (8) 1,187 cy. mi. selected borrow, haul;
- (9) 717 cu. yds. agg. base course;
- (10) 2,300 cy. mi. agg. base course, haul;
- (11) 8 cu. yds. class "AA" conc. (incl. cement);

- (12) 467 cu. yds. class "A" conc. (incl. cement);
 - (13) 62,542 lbs. reinf. steel bars (C. I. P.);
 - (14) 75,250 lbs. struc. steel (C. I. P.);
 - (15) 4 each blast plates (C. I. P.);
 - (16) 40 lin. ft. 36-in. C. M. P. (C. I. P. incl. bands);
 - (17) 68 cu. yds. plain rip rap (C. I. P.);
 - (18) 1,708 lin. ft. cable road guard, type "A" (C. I. P.);
 - (19) 1,110 lin. ft. standard line fence (C. I. P.);
 - (20) 250 hours rolling fills;
 - (21) 6 each corrugated metal catch basins (C. I. P.);
- Non-Federal Aid**
- (22) 302 lin. ft. cable road guard, type "A" (C. I. P.).
- The total bids were:
- (A) All Arizona Engineering & Construction Co., Clifton, Ariz., \$40,467.19.
 - (B) New Mexico Constr. Co., Inc., Albuquerque, N. M., \$46,709.50.
 - (C) Hodgman & McVicar, P. C. Box 337, Flagstaff, Ariz., \$49,578.09.
 - (D) H. J. Hagen, Globe, Ariz., \$50,274.13.
 - (E) Phoenix-Tempe Stone Co., Phoenix, Ariz., \$50,410.82.
- The unit bids were:

	(A)	(B)	(C)	(D)	(E)
(1)	\$ 1.25	\$ 1.50	\$ 1.75	\$ 2.00	\$ 1.00
(2)	1.25	2.40	1.75	.75	.85
(3)	.9375	1.125	1.3125	1.50	.75
(4)	2.00	3.25	2.50	3.00	5.00
(5)	.40	.35	.50	.60	.65
(6)	.05	.02	.05	.05	.10
(7)	.40	.26	.50	.80	.55
(8)	.15	.16	.15	.20	.25
(9)	.50	.19	.50	.60	.55
(10)	.20	.11	.15	.15	.25
(11)	90.00	60.00	70.00	100.00	100.00
(12)	26.00	30.00	35.00	33.33	37.00
(13)	.05	.08	.06	.06	.06
(14)	.0675	.08	.07	.08	.07
(15)	15.00	10.00	20.00	20.00	25.00
(16)	5.00	5.40	6.00	5.00	6.00
(17)	3.00	1.30	3.00	4.00	3.50
(18)	.80	1.10	1.00	1.00	.85
(19)	.08	.07	.10	.10	.10
(20)	7.00	3.40	5.00	5.00	4.00
(21)	42.00	40.00	35.00	20.00	40.00
(22)	.80	1.10	1.00	1.00	.85

MODOC COUNTY — GRADE—GOVERNMENT

MODOC CO., Cal.—Larsen Bros., 5220 21st Ave., Sacramento, at \$64,070.60 submitted low bid to U. S. Bureau of Public Roads, San Francisco, to grade Section B, Rt. 11, the Lava Beds National Forest Highway, Modoc National Forest, involving:

- (1) 40,300 cu. yds. unclass. excav.;
- (2) 340 cu. yds. unclass. excav., struc.;
- (3) 77,650 cu. yds. unclass. excav. borrow;
- (4) 20,500 sta. yds. overhaul;
- (5) 11,597 mi. finish earth graded rd.;
- (6) 16,000 cu. yds. mi. haul borrow;
- (7) 40 cu. yds. class A concrete;
- (8) 40 cu. yds. class B concrete;
- (9) 4,550 lbs. reinf. steel;
- (10) 1,500 lin. ft. 18-in. corru. metal

- pipe in place;
 - (11) 258 lin. ft. 24-in. do;
 - (12) 76 lin. ft. 30-in. do;
 - (13) Extra work (lump sum);
 - (14) 42 each R-W monuments;
 - (15) Extra work (lump sum);
 - (16) 15,000 li. ft removing and re-setting fence.
- Complete bids follow:
- (A) Larsen Bros., Sacramento, \$64,070.60.
 - (B) Hemstreet & Bell, Marysville, \$69,099.75.
 - (C) Dunn & Baker, Klamath Falls, \$69,214.60.
 - (D) Young & Son Co., Ltd., Berkeley, \$69,585.30.
 - (E) Engineer's estimate, \$73,666.05.
- Unit prices follow:

	(A)	(B)	(C)	(D)	(E)
(1)	.47	.60	.65	.70	.60
(2)	1.00	1.50	1.50	1.00	1.50
(3)	.35	.35	.33	.30	.40
(4)	.03	.02	.01	.02	.03
(5)	300.00	250.00	300.00	300.00	250.00
(6)	.15	.20	.20	.26	.25
(7)	30.00	35.00	25.00	.24	32.00
(8)	30.00	35.00	27.00	.24	30.00
(9)	.08	.06	.08	.07	.07
(10)	2.00	1.50	1.75	1.65	1.75
(11)	3.00	2.50	2.50	2.65	2.25
(12)	4.00	4.00	3.50	3.00	3.30
(12)	1200.00	1200.00	1200.00	1200.00	.....
(14)	3.00	3.00	3.00	3.00	3.50
(15)	1000.00	1000.00	1000.00	1000.00	.....
(16)	.06	.06	.05	.06	.50

Contract recommended to be awarded to low bidder. 29

CONTRACT AWARDED

ARIZONA STATE—Hodgman & McVicar, 714 Plymouth Road, San Marino, at \$206,851.28 awarded contract by State Highway Commission for highway construction on the Flagstaff-Fredonia Highway, N.R.H. 95-E and N.R.P.L. 4-B. Work on these projects which begins approximately 9 miles southwest of the Grand Canyon Bridge and extends approximately 18.7 miles westerly consists of the grading, draining and placing of base course and is to be completed on or before July 30, 1934. The items are:

N.R.H. 95-E—ROADWAY

- (1) 4974 cu. yds. rdwy. excavation (unclass.);
- (2) 1615 cu. yds. drainage excav. (unclass.);
- (3) 446 cu. yds. structural excav. (unclass.);
- (4) 19,688 cu. yds. borrow excavation (unclass.);
- (5) 2263 sta. yds. earthwork overhaul;
- (6) 7294 cu. yds. aggregate base course;
- (7) 8523 cu. mi. aggregate base course, haul;
- (8) 121 cu. yds. class A conc. (incl. cement);
- (9) 9484 lbs. reinf. steel bars (C.I.P.);
- (10) 96 lin. ft. 24-in. C.M.P. (incl. bands);
- (11) 300 lin. ft. 36-in. C.M.P. (incl. bands);
- (12) 216 lin. ft. 48-in. C.M.P. (incl. bands);
- (13) 2800 lin. ft. grader ditches;

STRUCTURES OVER 20 FOOT

CLEAR SPAN

- (14) 1516 cu. yds. drainage excav. (unclass.);
 - (15) 803 cu. yds. structural excav. (unclass.);
 - (16) 353 cu. yds. class A conc. (incl. cem.);
 - (17) 71 cu. yds. class B concr. (incl. cement);
 - (18) 33,400 lbs. reinf. steel bars (C.I.P.);
 - (19) 60,745 lbs. struc. steel (C.I.P.);
- N. R. P. L. 4-B—ROADWAY**
- (20) 67,460 cu. yds. roadway excav. (unclass.);
 - (21) 8553 cu. yds. drainage excav. (unclass.);
 - (22) 939 cu. yds. struc. excav. (unclass.);
 - (23) 51,305 cu. yds. borrow excav. (unclass.);
 - (24) 19,965 sta. yds. earthwork overhaul;
 - (25) 32,931 cu. yds. aggregate base course;
 - (26) 55,674 cy. mi. aggregate base course, haul;
 - (27) 797 cu. yds. class A concr. (incl. cement);
 - (28) 64,362 lbs. reinf. steel bars (C.I.P.);
 - (29) 918 lin. ft. 24-in. C.M.P. (incl. bands);
 - (30) 132 lin. ft. 30-in. do;
 - (31) 266 lin. ft. 36-in. do;
 - (32) 76 lin. ft. 42-in. do;
 - (33) 398 lin. ft. 48-in do;
 - (34) 12,390 lin. ft. cable road guard, type A (C.I.P.);
 - (35) 8100 lin. ft. grader ditches;
 - (36) 155 cu. yds. plain rip rap (C.I.P.)

STRUCTURES OVER 20 FOOT CLEAR SPAN

- (37) 6620 cu. yds. drainage excavation (unclass.);
- (38) 1280 cu. yds. struc. excav. (unclass.);
- (39) 61 cu. yds. aggregate base course
- (40) 108 cy. mi. aggregate base course, haul;
- (41) 1258 cu. yds. class A concr. (incl. cement);
- (42) 115,500 lbs. reinf. steel bars (C. I. P.);
- (43) 44,750 lbs. struc. steel (C.I.P.);

ALTERNATE FOR ITEM 34

(31-A) 12,399 lin. ft. steel plate road guard type C (C.I.P.).

The total bids were:

(A) Hodgman & McVicar, Packard & Tanner, Flagstaff, Ariz., \$204,992.78; alt. \$206,851.28.

(B) Phoenix-Tempe Stone Co., Phoenix, Ariz., \$227,201.94; alt. \$228,440.94.

(C) O. A. Lindberg, Fredonia, Ariz., \$224,119.76; alt. \$228,456.26.

Unit bids were:

Table with 3 columns (A), (B), (C) and rows 1-34a listing unit bids for various construction items like excavation, grading, paving, etc.

SAN FRANCISCO—Kellog Switchboard & Supply Co., 246 First Street, awarded contract by U. S. Forest Service to furnish 430 fir cross arms, unpainted, and various quantities of clamps, brackets, braces, pines and bolts.

- (1) 430 cross arms, f.o.b. Seattle; (2) 430 cross arms, f.o.b., Willows; (3) 80 guy clamps 5/16; (4) 80 guy clamps 1/4; (5) 5 transportation brackets; (6) 1290 short shank pins; (7) 960 machine bolts; (8) 45 transportation brackets; (9) 900 cross arm braces;

Bidders were:

- (A) Kellog Switchboard & Supply Co. (B) Madwell & Hartzell, San Francisco. (C) Graybar Electric Co., San Francisco. (D) General Electric Supply Co., San Francisco.

Unit bids were:

Table with 4 columns (A), (B), (C), (D) and rows 1-7 listing unit bids for various construction items.

LOS ANGELES COUNTY — PAVING — STATE

- LOS ANGELES COUNTY, Cal.—United Concrete Pipe Corp., Box 1, Station A, Los Angeles, at \$38,713.50 submitted low bid to State Highway Commission to grade and pave with Portland cement concrete 0.8 mile in the city of Long Beach between Anaheim St. and State St., involving: (1) 41 sta. clear and grub right-of-way; (2) 8000 cu. yds. rdwy. excav., unclass.; (3) 200 cu. yds. struc. excav.; (4) 17,500 sq. yds. subgrade for pave.; (5) 3700 cu. yds. Class A Port. cem. concrete (pave.); (6) 45 cu. yds. do. (struc.); (7) 86,000 lbs. bar reinf. steel (pave. and struc.); (8) 110 bbls. light fuel oil (subgrade treatment); (9) 29 tons asph. road oil (subgrade treatment);

- (10) 350 bbls. heavy fuel oil (shoulders); (11) 1.4 miles new property fence; (12) 8 fence gates complete in place; (13) 2 culvert markers complete, in place; (14) 16 monuments complete, in place; (15) 41 sta. finish rdwy. Complete bids follow: (A) United Concrete Pipe Corp., Box 1, Station A, Los Angeles, \$38,713.50. (B) Griffith Co., Los Angeles, \$39,007.50. (C) J. L. McLain, Los Angeles, \$40,681.00. (D) Kovacevich & Price, South Gate, \$41,002.50. (E) Sander Pierson, Santa Monica, \$43,902.00. (F) Weymouth Crowell, Los Angeles, \$44,487.50.

Table with 6 columns (A) through (F) and rows 1-15 listing unit bids for various construction items.

MONTEREY COUNTY — PAVING — STATE

MONTEREY COUNTY, Cal.—A. J. Ralsch, Burrell Bldg., San Jose, at \$141,745.80 submitted low bid to State Highway Commission to grade and surface with asphaltic concrete 6 miles between Gonzales and Chualar, involving:

- (1) 41,350 cu. yds. rdwy. excav., unclass.; (2) 461,000 sta. yds. overhaul; (3) 40,600 cu. yds. imp. borrow; (4) 1870 cu. yds. struc. excav.; (5) 34,000 sq. yds. subgrade for pave. (6) 28,100 sq. yds fl asph. paint binder (7) 25,700 tons asph. conc.; (8) 173 cu. yds. Class A Port. cem. conc. (struc.); (9) 12,700 lbs. bar reinf. steel (struc.); (10) 24 lin. ft. 8-in. corr. metal pipe; (11) 52 lin. ft. 12-in. do; (12) 792 lin. ft. 18-in. do; (13) 472 lin. ft. 24-in. do; (14) 216 lin. ft. 30-in. do; (15) 358 lin. ft. 36-in. do; (16) 640 lin. ft. corr. metal pipe (clean and relay); (17) 750 cu. yds. Port. cem. conc. in existing pave and struc. to be removed and disposed of;

- (18) 3500 M. gals. water; (19) 6100 bbls. heavy fuel oil; (20) 46 timber fluide posts; (21) 20 timber culvert markers; (22) 5.2 miles new property fence; (23) 36 fence gates; (24) 318 sta. finish rdwy.; (25) 34 monuments complete in place. Complete bids follow: (A) A. J. Ralsch, Burrell Bldg., San Jose, \$141,745.80. (B) Peninsula Paving Co., San Francisco, \$143,778.70. (C) Hanrahan Co., San Francisco, \$155,303.50. (D) A. Telchert & Son, Sacramento, \$157,799. (E) David H. Ryan, San Diego, \$159,134.25. (F) Jones & Kling, Hayward, \$161,408.90. (G) M. J. Bevanda, Stockton, \$165,505.82. (H) Gogo & Rados, Los Angeles, \$167,909.80. (I) Granite Constr. Co., Watsonville, \$169,300.20.

Unit bids follow:

Table with 9 columns (A) through (I) and rows 1-25 listing unit bids for various construction items.

COLUSA AND GLENN COUNTIES—GRADE—STATE

BIDS OPENED

COLUSA & GLENN COS., Cal.— Peninsula Paving Company, Standard oil Buildng, San Francisco, at \$103,-432.75 submitted low bid to State Highway Commission to grade and surface with gravel about 7.1 miles between Maxwell and Norman, involving:
(1) 160 sta. clear and grub;
(2) 105,000 cu. yds. rdwy. excav., unclass.;
(3) 997,000 sta. yds. overhaul;
(4) 2300 cu. yds. struc. excav.;
(5) 665 cu. yds. Class A Port. cem. conc. (struc.);
(6) 6 cu. yds. do. (railing);
(7) 880 lin. ft. furnish reinf. concrete piles (inc. test piles);
(8) 25 drive reinf. concrete piles (inc. test piles);
(9) 77,000 lbs. bar reinf. steel (struc.)
(10) 61,000 cu. yds. gravel base;
(11) 6 tons bit. treated crushed stone or gravel surf.;
(12) 176 lin. ft. 8-in. corru. metal pipe
(13) 320 lin. ft. 12-in. do;
(14) 368 lin. ft. 18-in. do;
(15) 58 lin. ft. 24-in. do;
(16) 300 lin. ft. 30-in. do;
(17) 45 lin. ft. 42-in. corru. metal pipe siphon;
(18) 82 lin. ft. 24-in. do;
(19) 5 8-in. corru. metal pipe inlets;
(20) 200 lin. ft. pipe culvert removed and salvaged;

- (21) 2800 M gals. water;
(22) 40 cu. yds. concrete remove from exist. pave. and struc. and dispose of;
(23) 1 conc. headwall, remove and reset;
(24) 0.5 miles new property fence;
(25) 2 miles special property fence;
(26) 1.75 miles remove and dispose of property fences;
(27) 3.5 miles move and reset property fences;
(28) 25 drive gates;
(29) 5 walk gates;
(30) 400 lin. ft. existing guard rail, remove and salvage;
(31) 210 bbl. light fuel oil;
(32) 210 bbl. heavy fuel oil;
(33) 380 sta. finish roadway;
(34) 19 monuments, move and reset;
(35) 59 monuments complete in place.
Complete bids follow:
(A) Peninsula Paving Co., San Francisco \$103,432.75
(B) Basich Bros., Torrance 110,284.95
(C) Clyde W. Wood, Stockton 123,205.70
(D) Union Paving Co., S. F. 127,898.30
(E) Larsen Bros., Sacto. 129,142.50
(F) A. Teichert & Son, Inc., Sacramento 135,338.90
(G) Hemstreet & Bell, Marysville 140,792.00
(H) D. MacDonald, Sacto. 163,937.80
Unit prices follow:

Table with 8 columns (A)-(H) and 35 rows of unit prices for various construction items.

CONTRA COSTA COUNTY, Cal.— Southern California Roads Company, 2145 E. 25th St., Los Angeles, at \$32,-158.60 submitted only bid to State Highway Commission to grade and pave with asphaltic concrete 0.2 ml. in Valona, involving:
(1) 1 lot readjust private improvements (Group 4);
(2) 1 lot do, (Group B);
(3) 1 lot do, (Group C);
(4) 24,5040 cu. yds. rdwy. excav., unclass.;
(5) 357,000 sta. yds. overhaul;
(6) 50 cu. yds. struc. excav.;
(7) 760 cu. yds. cru. conc. (base and shoulders);
(8) 1340 sq. yds. exist. bit. mac. to be removed;
(9) 560 cu. yds. conc. remove from exist. pave. and struc.;
(10) 740 tons asph. conc.;
(11) 200 sq. yds. subgrade for pave (2nd Ave.);
(12) 35 cu. yds. class A Port. cem. conc. (pave);
(13) 15 cu. yds. do (curbs, gutters and sidewalks);
(14) 40 cu. yds. do (struc.);
(15) 4500 lbs. bar reinf. steel (struc);
(16) 5 tons cut-back asph.;
(17) 13 tons screenings;
(18) 1 footbridge to be removed;
(19) 80 lin. ft. 8-in. corru. metal pipe;
(20) 3 catchbasins complete in place;
(21) 920 lin. ft. solid timber guardrail;
(22) 8 sta. finish rdwy.;
(23) 4 monuments complete in place.

Unit bids follow: Table with 2 columns (Bid number, Price) for items 1-23.

SAN LUIS OBISPO, Monterey and San Benito Cos., Cal.—L. A. Brisco, Arroyo Grande, at \$20,682.05 submitted low bid to State Highway Commission to oil treat 17.2 ml. existing road-bed shoulders north and south of Cuesta Grade, 4.8 ml.; north and south of Bradley Bridge, 0.5 ml.; southerly from San Juan Bautista, 1.9 mi.; and between San Juan Bautista and 3.2 ml. north of Hollister, 10 miles. Involving:

- (1) 2150 bbls. heavy fuel oil (Loc. A);
(2) 360 bbls. do (Loc. B);
(3) 6620 bbls. do (Loc. C).
Complete bids follow:
(A) L. A. Brisco, Arroyo Grand, \$20,-682.05.
(B) Tiffany Constr. Co., San Jose, \$21,329.
(C) Granite Constr. Co., Watsonville, \$21,344.30.
(D) M. J. Bevanda, Stockton, \$22,163
(E) Oilfields Trucking Co., Bakersfield, \$31,486.10.

Unit bids follow: Table with 5 columns (A)-(E) and 3 rows of unit prices.

RIVERSIDE COUNTY — TREAT FUEL OIL — STATE

RIVERSIDE COUNTY, Cal. — Dimm- mitt & Taylor, 815 E. 59th St., Los Angeles, and Mattich Bros. and Geo. Gardner & Son, Elsinore, at \$40,214 submitted identical low bids to State Highway Commission to treat should- ers with fuel oil over 41.6 miles be- tween Corona and the south boundary, involving:
(1) 21,460 bbls. heavy fuel oil;
(2) 41.6 miles finish roadway.
Complete bids follow:
(A) Dimm mitt & Taylor, L. A. \$40,214.00
(A) Mattich Bros. & Geo. Gardner & Son, Elsinore 40,214.00

- (B) C. W. Wood, Stockton, 41,682.00
(C) Weymouth Crowell, Co., Los Angeles 43,584.40
(D) V. R. Dennis Co., San Diego 43,626.00
(E) United Concrete Pipe Corp., Los Angeles 45,414.00
(F) Geo. K. Thompson, L. A. 45,950.00
(G) P. J. Akmatich, L. A. 46,960.00
(H) Southwest Paving Co., Los Angeles 48,982.00
(I) Martin Bros. Trucking Co., Long Beach 49,618.00
(J) E. L. Yeager, San Bernardino 55,152.00
Unit prices follow:

Table with 10 columns (A)-(J) and 3 rows of unit prices.

SURFACING — EUREKA COUNTY, NEVADA

EUREKA COUNTY, Nevada.—Gibbons & Reed, Salt Lake City, at \$76,162.59, submitted low bid to Nevada State Highway Commission to surface with crushed gravel or stone 10.15 mi. from Eureka to the East County Line, involving:

- (1) 59,000 cu. yds. rdwy. excav.;
- (2) 62,518 sta. yds. overhaul;
- (3) 38,868 cu. yds. select borrow;
- (4) 1050 cu. yds. struc. excav.;
- (5) 10.15 miles subgrade;
- (6) 94 remove culvert headwalls;
- (7) 32,100 cu. yds. crushed gravel or stone surface;
- (8) 227 cu. yds. Class A concrete;
- (9) 74 cu. yds. Class B concrete;
- (10) 23,050 lbs. reinf. steel;
- (11) 222 lin. ft. 15-in. corr. metal pipe
- (12) 814 lin. ft. 18-in. do;
- (13) 146 lin. ft. 24-in. do;
- (14) 62 lin. ft. 30-in. do;
- (15) 38 lin. ft. 36-in. do;
- (16) 250 lin. ft. 8-in. perf. drain;
- (17) 242 lin. ft. remove culvert pipe;

- (18) 110 lin. ft. relay culvert pipe;
 - (19) 37 cubic yards hand laid rip rap (grout);
 - (20) 140 monuments;
 - (21) 10.15 miles finish roadway;
 - (22) 90 lin. ft. 4-in. water pipe;
 - (23) 2,580 lin. ft. remove water pipe;
 - (24) 820 lin. ft. relay water pipe;
 - (25) 87 lin. ft. construct fence;
 - (26) 1,837 lin. ft. remove fence;
 - (27) 55 cu. yds. gravel backfill.
- Complete bids follow:
- (A) Gibbons & Reed Co., Salt Lake City \$76,162.59
 - (B) Wheelwright Constr. Co., Ogden, Utah 76,187.41
 - (C) Utah Construction Co., Ogden, Utah 93,656.20
 - (D) Heuser & Garnett, Glendale, Cal. 99,223.10
 - (E) Union Paving Co., San Francisco 104,642.11
 - (F) Engineer's Estimate 85,097.56

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)
(1)	\$.35	\$.40	\$.65	\$.56	\$.50	\$.45
(2) .....	.03	.02	.02	.03	.03	.02
(3) .....	.28	.30	.40	.45	.50	.35
(4)	1.65	1.00	1.00	1.50	1.50	1.00
(5)	100.00	150.00	70.00	100.00	150.00	100.00
(6)	5.50	5.00	3.00	5.00	6.00	3.00
(7) .....	.76	.60	.60	.85	.90	.80
(8)	24.00	28.00	28.00	40.00	35.00	27.50
(9)	24.00	28.00	28.00	40.00	30.00	27.50
(10) .....	.06	.06	.07	.07	.09	.06
(11)	1.70	2.00	1.75	1.25	1.40	1.25
(12)	1.80	2.50	2.00	1.50	1.60	1.50
(13)	2.80	3.50	3.00	2.50	2.25	2.25
(14)	3.30	4.00	3.50	3.50	3.75	3.00
(15)	5.00	4.50	5.50	4.00	4.50	4.00
(16)	1.50	1.30	1.10	1.50	2.00	1.40
(17) .....	.50	1.00	1.00	.50	.75	.50
(18) .....	.70	.50	1.50	1.00	.50	1.00
(19)	6.00	4.00	4.00	5.00	8.00	6.50
(20)	2.50	2.00	3.00	3.00	3.00	3.00
(21)	200.00	150.00	100.00	180.00	175.00	100.00
(22)	1.30	1.00	1.00	.50	1.00	.80
(23) .....	.05	.30	.30	.15	1.00	.25
(24) .....	.10	.40	.80	.10	.25	.50
(25) .....	.20	.20	.20	.20	.20	.15
(26) .....	.03	.05	.02	.05	.06	.05
(27)	1.00	1.00	1.00	3.00	3.00	1.50

INYO CO., Cal.—Basich Bros., Torrance, at \$25,627.25 submitted low bid to State Highway Commission to grade, surface with selected material and a bituminous treatment applied over 3.5 miles between Bishop and Owens River Canal, involving:

- (1) 650 cu. yds. rdwy. excav., unclass.
- (2) 8200 cu. yds. imp. borrow;
- (3) 45 cu. yds. struc. excav.;
- (4) 525 M gals. water;
- (5) 8 cu. yds. Class A Port. cement concrete (struc.);
- (6) 200 lbs. bar reinf. steel (struc.);
- (7) 6500 lbs. struc. steel;
- (8) 1700 cu. yds. binder for salvaged base;
- (9) 3.65 miles scarify, salvage and relay base;
- (10) 5000 cu. yds. sel. surf. material;
- (11) 360 tons cut-back asph. road oil;
- (12) 3.64 miles mix bituminous binder and surface material;
- (13) 900 bbls. light fuel oil;
- (14) 26 lin. ft. 18-in. corr. metal pipe;
- (15) 1.75 MFBM redwood timber dense select all-heart struc. grade;
- (16) 193 sta. finish roadway.

State will furnish corr. metal pipe. Complete bids follow:

- (A) Basich Bros., Torrance, \$25,627.25
- (B) Hemstreet & Bell, Marysville 26,367.75
- (C) Southwest Paving Co., Los Angeles 30,428.00

	(A)	(B)	(C)
(1)	\$.50	\$.75	\$.70
(2) .....	.50	.60	.90
(3) .....	.75	2.00	.70
(4)	2.00	1.25	2.60
(5)	24.00	30.00	25.00
(6) .....	.08	.10	.06
(7) .....	.10	.10	.10
(8) .....	.75	.60	1.00
(9)	250.00	300.00	300.00
(10) .....	.80	.80	.30
(11)	21.50	21.00	22.50
(12)	450.00	600.00	500.00
(13)	2.35	2.75	2.50
(14)	1.50	1.00	2.50
(15)	110.00	100.00	90.00
(16)	7.00	4.00	5.00

SAN BERNARDINO COUNTY, Cal.—United Concrete Pipe Corp., Box 1, Station H, Los Angeles, at \$26,926 submitted low bid to State Highway Commission to grade and pave with Portland cement concrete, 0.2 mile at Mt. Vernon Ave. crossing in San Bernardino, involving:

- (1) 700 cu. yds. rdwy. excav., unclass.;
- (2) 9800 cu. yds. imp. borrow;
- (3) 390 cu. yds. struc. excav.;
- (4) 5500 sq. yds. subgrade for pave.;
- (5) 1250 cu. yds. Class A Port. cem. conc. (pave.);
- (6) 2 cu. yds. do (struc.);
- (7) 96 cu. yds. do (curbs and gutters)
- (8) 70 cu. yds. Class A Port. cem. conc. (sidewalks);
- (9) 30,500 lbs. bar reinf. steel (pave and struc.);
- (10) 24 lin. ft. 24-in. corr. metal pipe
- (11) 204 lin. ft. 48-in. do;
- (12) 455 cu. yds. conc. to be removed from existing pave. and struc.;
- (13) 10 sta. finish rdwy.

Complete bids follow:

- (A) United Concrete Pipe Corp., Los Angeles, \$26,926.
- (B) Geo. Herz & Co., San Bernardino, \$27,353.50.
- (C) El Yeager, \$28,431.20.

Unit prices follow:

	(A)	(B)	(C)
(1)	\$.75	\$.40	\$.50
(2) .....	.86	.90	.83
(3) .....	.60	.90	1.00
(4) .....	.12	.12	.15
(5)	9.20	9.50	9.85
(6)	30.00	20.00	25.00
(7)	12.00	12.00	15.00
(8)	12.00	15.00	13.50
(9) .....	.06	.049	.07
(10) .....	.50	.50	.55
(11)	1.25	1.00	1.00
(12)	3.00	3.00	3.50
(13)	6.5\$	5.00	4.00

RIVERSIDE COUNTY—TREAT FUEL OIL—STATE

RIVERSIDE CO., Cal.—Mattich Bros. & George Gardner & Son, Elsinore, at \$23,988.50 submitted low bid to State Highway Commission to treat shoulders with fuel oil over 25.1 miles between Riverside and Elsinore, involving:

- (1) 12,900 bbls. heavy fuel oil;
- (2) 25.1 miles finish roadway.

Complete bids follow:

- (A) Mattich Bros. & Geo. Gardner & Son, Elsinore, \$23,988.50
- (B) C. W. Wood, Stockton, 25,127.00

- (C) Dimmitt & Taylor, Los Angeles 25,782.50
- (D) Weymouth Crowell Co., Los Angeles 26,273.40
- (E) United Concrete Pipe Corp., Los Angeles, 26,734.00
- (F) P. J. Akmadich, L. A., 28,955.00
- (G) Southwest Paving Co., Los Angeles 29,785.00
- (H) E. L. Yeager, San Bernardino 33,247.00
- (I) Oilfields Trucking Co., Bakersfield 38,536.00

Unit prices follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
(1)	\$ 1.83	\$ 1.87	\$ 1.95	\$ 1.99	\$ 1.80	\$ 2.05	\$ 2.27	\$ 2.48	\$ 2.89
(2)	15.00	40.00	25.00	24.00	140.00	100.00	20.00	50.00	50.00

MERCED COUNTY — SURFACE — STATE

MERCED COUNTY, Cal.—Granite Construction Co., Watsonville, at \$25,857 submitted low bid to State Highway Commission to apply bituminous surface treatment over 6.2 mi. bet. the north boundary and Livingston, involving:

- (1) 5700 tons screenings;
- (2) 360 tons emul. asph. road oil.

Complete bids follow:

- (A) Granite Constr. Co., Watsonville, \$25,857.

- (B) Tiffany Constr. Co., San Jose, \$27,840.
- (C) Valley Paving & Constr. Co., Fresno, \$28,230.
- (D) Stewart & Nuss, Inc., Fresno, \$28,992.
- (E) Willard, Blasottil & Lavotte, Stockton, \$29,199.
- (F) A. Teichert & Son, Sacramento, \$30,606.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)
(1)	\$ 3.21	\$ 3.40	\$ 3.50	\$ 3.70	\$ 3.55	\$ 3.98
(2)	21.00	23.50	23.00	21.00	24.90	22.00

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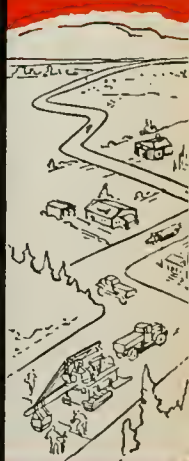
\$523,000 California Highway Bids Opened

State C. C. C. Camps Issue Big Material Orders

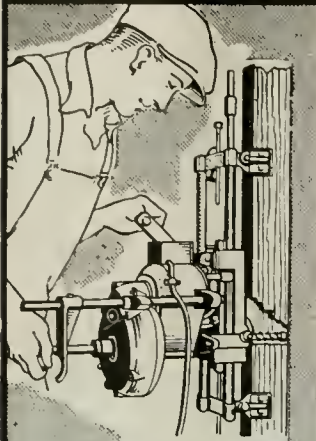
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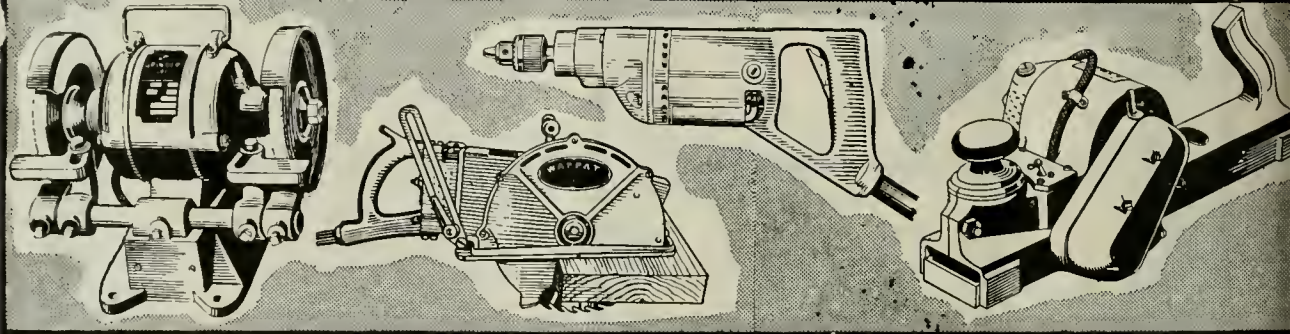
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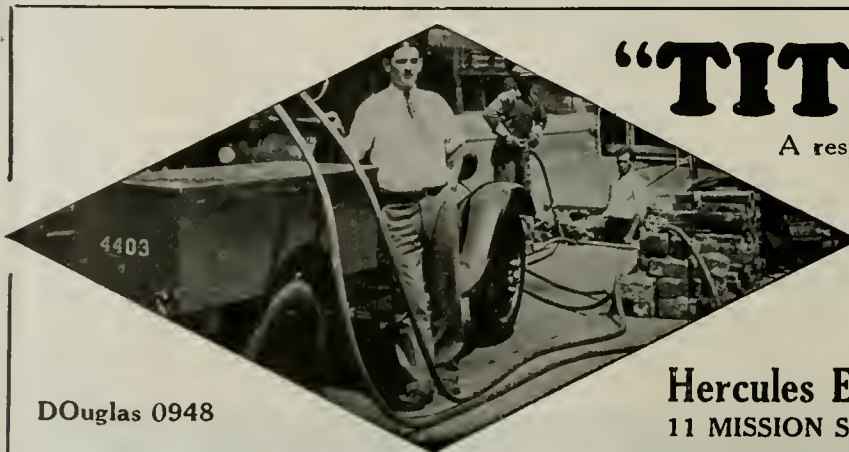
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SAN FRANCISCO, CALIF., SEPTEMBER 30, 1933

No. 37

SANFORD NAMED PRESIDENT OF STATE EXCHANGE

**Convention Elects Officers For
New Year; Endorses
Code**

H. M. Sanford of Richmond was elected president of the California Builders' Exchange at the exchange's two-day annual convention in Merced.

Harry Cayford of Fresno was re-elected secretary and C. E. McMullen of Fresno was elected a director.

A resolution declaring efforts to encourage the modernization of California communities through the replacement of antiquated buildings with modern ones to be the major project of the exchange for the coming year was adopted unanimously.

Compensation insurance rates within the construction industry are growing from year to year and have already reached such proportions they put a heavy burden on contractors, another resolution adopted by the convention stated. To meet this growing menace the exchange went on record as favoring legislation that will require that "the employe share his part of medical expenses, and that all exchanges take a more active part in the accident prevention program as outlined by the state accident prevention committee."

Much of the session was devoted to discussion of the building industry code proposed by the exchange.

Sanford succeeds Ralph Holmann of Los Angeles as president. Other officers were named as follows: C. W. Pettifer of Long Beach, first vice president; G. L. Peletz of Stockton, second vice president; H. L. Sweeney of Santa Barbara, third vice president; Roy M. Butcher of San Jose, fourth vice president; H. J. Weeks of Vallejo, treasurer.

New directors in addition to McMullen are: C. W. Pettifer, Long Beach; W. T. Loesch, Pasadena; S. J. Weeks, Vallejo; George Vance, Santa Ana; Roy M. Butcher, San Jose.

The holdover directors are: W. H. George, San Francisco; Ralph Homann, Los Angeles; L. S. Peletz, Stockton; P. M. Sanford, Richmond, and H. L. Sweeney, Santa Barbara.

THE WEEK'S NEWS Highlights

HIGHWAY WORK—Low bids on the six contracts for California state highway work received this week totaled \$523,588, bringing the total on 61 contracts opened at Sacramento since September 13 to \$5,887,000.

With twelve weeks remaining before Christmas, the commission must average a pace of a little more than \$1,000,000 per week to reach its promised \$20,000,000 awards before the holidays.

PWA FUNDS—Applications from public agencies are starting toward the California Public Works Advisory Board from every section of the state, promising expenditure of more millions in construction of every description.

Major applications to date include:

Sacramento Utility District, \$15,700,000.

East Bay Utility District, \$8,409,506.

Joint Highway District No. 13, \$3,752,035.

Los Angeles Water and Power Bureau, \$37,794,000.

ARMY BUILDING—With more than four and a half million dollars at their disposal, constructing quartermasters at San Francisco Bay district army posts, Hamilton Field and Presidio of San Francisco are rushing specifications to the advertising stage with the prospect of receiving bids early in October. Work to be done includes completion of Hamilton Field in Marin County at a cost of about \$3,500,000, and major reconstruction and improvements at the Presidio to cost \$1,000,000.

BIG LUMBER ORDERS FROM STATE CAMPS

**Many Building Material Items
Requisitioned by
C. C. C.**

Location in California of 134 camps of the Civilian Conservation Corps, or about one-tenth of all the camps in the United States, means that local material men will benefit greatly from the huge expenditure involved in converting these camps into suitable winter quarters.

Reconstruction of the camps, just started under supervision of district commanders, is to be completed by the end of October. Officials have indicated that in many instances skilled labor will be engaged to assist in erecting the buildings, although wherever possible camp labor will be utilized.

General Fechner, director of the camps, announced in Washington yesterday that 250,000,000 board feet of lumber will be required for the camp building program at 1466 winter camp sites. Orders for this lumber will be issued on competitive bids through the district commander in each locality.

In California these district commanders are located at the following points: Fort MacArthur, March Field, Presidio of Monterey, Rockwell Field, 201 Federal Building, Eureka; 326 Brix Building, Fresno; California Packing Corporation Plant, Marysville; Postoffice Building, Redding, 208 State Library Building, Sacramento.

A typical camp will require 75,000 feet of lumber, according to specifications issued by the quartermaster.

This is used as follows:

Barracks (each)	18,205 ft.
Kitchen and mess	10,565 ft.
Administration building	20,715 ft.
Infirmary	9,145 ft.
Foresters' building	8,941 ft.
Miscellaneous small build- ings	10,000 ft.

In addition to the lumber and hardware, each camp plan requires building paper, roofing felt, floor covering, plumbing, water heating, sheet metal and electrical materials and equipment. The estimated cost of materials used at each camp is from \$4000 to \$5000, depending upon the number of men to be accommodated.

MASONRY CODE HEARING SET NEXT THURSDAY

National Association Sponsors
Proposed Trade
Charter

Hearing on the code of the concrete masonry industry will start October 5 at Washington, Deputy Administrator Malcolm Muir announced yesterday.

The code is sponsored by the National Concrete Masonry Association, which claims to represent 60 per cent of the industry.

The code provides a basic maximum work week of 40 hours, not more than 48 hours in any one week or more than 8 hours in any one day, averaged over 15 weeks. Minimum wages, 48 cents an hour for factory workers, except that for employes on piece work a guaranteed minimum of 30 cents an hour; for clerical employes not less than \$15 a week and for those engaged in professional, executive or supervisory capacities, not less than \$35 a week. The code stipulates that employers shall provide for the safety and welfare of their workmen and to that end shall comply with all legal requirements affecting the safety and health of workers. It also declares that employes shall so administer work as to provide the maximum practical continuity of employment.

Those wishing to be heard must comply with the following requirements:

(1) A written or telegraphic request for an opportunity to be heard must be filed before noon on Wednesday, October 4, 1933, with the Administrator, Room 442, Department of Commerce, Washington, D. C.

(2) Such request shall state the name of (a) any person seeking to testify in the hearing, and (b) the persons or groups whom he represents.

(3) Such request shall contain a statement setting forth without argument a proposal: (1) for the elimination of a specific provision of the code; or (2) a modification of a specific provision, in language proposed by the witness, or (3) a provision to be added to the code, in language proposed by the witness.

(4) At the public hearings, all persons are regarded as witnesses and shall present orally facts only and not argument. Written briefs or arguments may be filed, but oral presentations will be confined to factual statements only.

SELFRIDGE NAMED LUMBER ADVISOR

M. W. Stark, Columbus, Ohio, has resigned as lumber industry adviser to Thomas Glasgow, deputy NRA administrator, and E. A. Selfridge has been appointed by General Johnson to succeed him. Mr. Stark has accepted the position of executive director of the National Millwork Association, which constitutes a division under the lumber code. Mr. Stark's offices will be in Chicago.

Mr. Selfridge is well known in the lumber industry and in the government. He was for many years a successful lumber manufacturer in the California redwood region. After retirement he was urged to become a lumber trade commissioner of the Department of Commerce, and he served some years in that capacity in the Far East and in Europe, having his headquarters respectively at Tokyo and London. He designed four years ago to follow his agricultural hobbies on a farm in Connecticut, but General Johnson persuaded him to return to public life for a while.

C. Arthur Bruce, executive of the lumber code authority, has called authority meetings as follows: Price committee, October 2; central control committee, October 9; full meeting of the authority, October 16. All meetings will be held in the authority offices at 1337 Connecticut Ave., Washington, D. C.

NAME ADVISORS TO NRA BOARD

Appointments of advisors to the National Recovery Administration have been announced as follows: John Logan, president of the Logan-Long Company, Chicago, as industry advisor for the asphalt shingle and roofing industry; Frank Kaston, United Brick and Clay Workers of America, labor advisor for the floor and wall clay tile manufacturing industry; L. M. Wicklein, labor advisor for the fabricated metal products industry.

(5) In the discretion of the Deputy Administrator in charge of the hearing, persons who have not complied with the requirements of paragraph (1), above, may be permitted at any time prior to the close of the hearing to file written statements containing proposals for elimination from, modifications of, or additions to the code supported by pertinent information or argument. Such written statements must be condensed as much as possible.

\$523,000 IN NEW BIDS RECEIVED BY COMMISSION

J. F. Knapp Is Low Bidder on
San Bernardino
Viaduct

SACRAMENTO, Sept. 27.—Bids were opened today by the State Highway Commission on eight contracts, the low bids aggregating \$523,588.

Largest one of the group was that for construction of a viaduct in the city of San Bernardino, on which the low bid was submitted by J. F. Knapp, Oakland, at \$189,985.

Today's openings brought the total of low bids on 61 contracts issued by the commission in the past two weeks to \$5,887,000.

Low bids received today follow. (Complete tabulation in Advance Report Section):

SONOMA COUNTY: 0.9 mile grade and surface with crusher run base and bituminous treated crushed gravel or stone surfacing between Fairville and Shellville, Peninsula Paving Co., San Francisco, \$63,021.

ORANGE COUNTY: 1.0 mile grade and pave with asphaltic concrete in Anaheim between Sycamore St. and Romneya Drive, Griffith Co., Los Angeles, \$41,801.

SACRAMENTO COUNTY: Construct undergrade crossing under the Southern Pacific tracks between Cosumnes River bridge and 1.25 mile north of McConnel and grade and pave 0.37 mile with Portland cement concrete, Lord & Bishop, Sacramento, \$86,871.

SAN BERNARDINO COUNTY: Construct overhead crossing over the tracks of A. T. & S. F. Railway in the city of San Bernardino and grade and pave approaches, J. F. Knapp, Oakland, \$189,985.

RIVERSIDE COUNTY: 19.6 miles treat with fuel oil between 4 miles east of Mecca and Shavers Summit, Clyde W. Wood, Stockton, \$16,545.

YOLO & BUTTE COUNTIES: 3.9 miles apply bituminous surface treatment between Davis Wye and Willow Slough, Yolo County, and 4.0 miles between 0.75 mile north of Rock Creek and 0.1 mile south of Pine Creek, Butte County, E. A. Ford, San Anselmo, \$35,851.

LOS ANGELES COUNTY: 5.0 miles apply bituminous surface treatment and super-elevate curves between Oak Garage and Palmdale, Griffith Co., Los Angeles, \$35,090.

MONO COUNTY: 2.9 miles apply bituminous treatment between 2 miles north of Leevining and Mono Inn, Isbell Construction Co., Carson City, Nevada, \$54,424.

Phone TRinity 0241 for —
Rock-Sand-Gravel-Plaster
Cement-Mixed Mortar-Stucco
Lath-Lime Putty-Reinforcing Steel

**Consolidated Rock
Products Co.**

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Los Angeles, Calif.

Johnson Address Clarifies Relation Of Employers and Labor Under NIRA

The most authoritative statement which has yet come from the National Recovery Administration with relation to the controversial subject of Section 7 (a) of the National Recovery Act, relating to the right of organized labor to bargain collectively, is contained in the address which General Johnson delivered before the Illinois Federation of Labor at the Century of Progress Exposition in Chicago on September 4, says a bulletin issued by the Industrial Association of San Francisco.

The quotation relating to this question as reported by the association follows:

"One of the most unfortunate developments in the recovery program is the suspicion and conflict that it seems in a few cases to have aroused between management and workers. The part of this administration is to execute this law faithfully and as it came from Congress. This law establishes the right of workers to organize and to deal with their employers through any representatives whom they may choose. Workers are not compelled to do this. They can deal with their employers individually if they so choose. And whether they are organized or not their interests will be protected as to maximum and minimum wages in every hearing under a code.

"The obligation of employers is not to seek to interfere with efforts of workers to organize or with their choice of representatives. Employers cannot refuse to bargain about conditions of employment with the self-chosen representatives of their workers. Employers cannot make as a condition of employment that their workers join a company union. But employers are not compelled to agree on any particular scale of wages or conditions of employment merely because they are bargaining with self-chosen representatives of organized workers. And no employer is denied the right to bargain individually with any worker if the worker so chooses.

"It is, however, the workers'

choice as to whether he shall bargain individually or collectively through a representative. If an employer should make a contract with a particular organization to employ only members of that organization, especially if that organization did not have 100 per cent membership among his employes, that would in effect be a contract to interfere with his workers' freedom of choice of their representatives or with their right to bargain individually and would amount to employer coercion on these matters, which is contrary to the law.

"That is the meaning and effect of the law as this administration understands it. Most of the trouble we have seen comes from the attempt of employers on the one hand or organizations on the other to read some different or more favorable interpretation into the law. We cannot permit that. We cannot be for or against any particular organization or any particular partisan view.

"It is our job to protect the rights of both workers and management exactly as they are written in the law. In this administration there is one advisory board of outstanding industrial leaders and another of outstanding labor leaders. These devoted men are working regardless of hours and personal convenience. The views of both sides are thus adequately represented on every question that comes up, but neither board votes and this administration is neither dominated by nor under the influence of either. Thus far there have been no disagreements between them or with the administration. It is our duty to hear every view, and of course great weight is given to the opinion of these men. But the responsibility for ultimate decision rests with the President.

"Coercive measures on either side are wrong. It is as bad for an organization to tell workers that if they do not join a particular union they will get no rights as it is for employers to tell their men that if they do not join company unions they will get no rights.

UNIVERSITY COURSE IN CONSTRUCTION

University of Southern California announces an evening course of "Estimating and Economics of Building Construction," to begin September 25, at University College, downtown adult education division of U. S. C.

This course is designed to equip members with a general and practical knowledge of actual building construction practices pertaining to quantity surveys, application of costs of labor, materials, and other elements entering into modern methods of construction.

The field of study is wide in scope and will cover the work of various building classifications such as excavation, reinforced concrete construction, masonry, carpentry, plastering, painting, architectural terra cotta, cut stone, granite, glass, metal windows, structural steel, reinforcing steel, millwork, hardware, ornamental iron, etc., together with a general knowledge of mechanical trades such as plumbing, heating, ventilating, electrical wiring, elevators, sprinklers, etc.

Ira J. Smith, for the past ten years with the P. J. Walker Company, will be in charge of the course.

SHIFT HIGHWAY POST ASSIGNMENTS

C. M. Fosgate has been appointed superintendent of maintenance in District II of the State Division of Highways, with headquarters in Redding. Mr. Fosgate formerly was in San Francisco.

He succeeds S. M. Lowden, who has been transferred to Bishop, headquarters of District IX.

J. W. Adams is now in charge of maintenance on highway in the vicinity of Napa, with headquarters at 1019 Pearl St., Napa.



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ENGINEER'S CONSULTATION FREE

R. G. LE TOURNEAU, INC.

Wilson Way at Roosevelt

Stockton, Calif.

PERMITS AND CONTRACTS

SAN FRANCISCO COUNTY

708	Cavo	Blincoe	2000
709	Little	Owner	3750
710	Little	Owner	3750
711	Little	Owner	4000
712	Sanders	McSheehy	1800
713	Gleger	Lindsay	3500
714	Threlkeld	Jacks	6000
715	Paulson	Owner	2200
716	Christian	Owner	2500
717	McKales	Price	8000
718	Crocker	Owner	4000
721	Lindsay	Owner	2500
722	Novello	Novello	3000
723	Romey	Malloch	9000
724	Carr	Nelson	8000
726	Verzello	Blincoe	5006
727	Albertazzi	Lino	3000
727	Tufo	Owner	1000
728	Hanks	Owner	4000
729	McKales	Price	1000

DWELLING

(708) W MORSE 84 N Lowell St. One-story and basement frame dwelling.
Owner—Miss A. Cavo, Colma.
Architect—Not Given.
Contractor—C. Blincoe, 2663 15th Ave San Francisco. \$2000

DWELLING

(709) W TWENTY-FIFTH AVE 493 N Ocean Ave. One-story and basement frame dwelling.
Owner—M. A. Little, 535 Geary St., San Francisco.
Architect—E. E. Young, 2002 California St., S. F. \$3750

DWELLING

(710) W TWENTY-FIFTH AVE. 404 N Ocean Ave. One-story and basement frame dwelling.
Owner—M. A. Little, 535 Geary St., San Francisco.
Architect—E. E. Young, 2002 California St., S. F. \$3750

DWELLING

(711) W TWENTY-FIFTH AVE 451 N Ocean Ave. One-story and basement frame dwelling.
Owner—M. A. Little, 535 Geary St., San Francisco.
Architect—E. E. Young, 2002 California St., S. F. \$4000

ALTERATIONS

(712) SW TWENTY-SECOND AND Potrero Ave. Alter store.
Owner—Etta Sanders, Premises.
Architect—Not Given.
Contractor—J. McSheehy, 137 Clifford Terrace., S. F. \$1800

DWELLING

(713) E PLYMOUTH 225 N Holloway. One-story and basement frame dwelling.
Owner—C. Gleger, 1148 Plymouth St., San Francisco.
Architect—Not Given.
Contractor—Boyd C. Lindsay, 183 Oxford St., San Francisco. \$3500

ALTERATIONS

(714) NO. 611 CAMINO DEL MAR. Alter dwelling.
Owner—J. H. Threlkeld, Promises.
Architect—Bertz, Winter & Maury, 681 Market St., San Francisco.
Contractor—Jacks & Irvine, Inc., 74 New Montgomery St., San Francisco. \$6000

DWELLING

(715) N NEWCOMB 187 E Jennings. One-story frame dwelling.
Owner—P. A. Paulson, 1204 Newcomb St., San Francisco.
Architect—Not Given. \$2200

ADDITION

(716) NO. 1101 ULLOA ST. Addition to dwelling.
Owner—J. D. Christian, Premises.
Architect—Not Given. \$2500

STATION

(717) NE OCEAN AVE. AND MIRAMAR St. Brick service station.
Owner—McKales, Inc., 1600 Mission St., San Francisco.
Architect—Not Given.
Contractor—Price Constr. Co., 1723 Webster St., San Francisco. \$8000

ALTERATIONS

(718) NO. 626 MARKET ST. Alter store.
Owner—Crocker Estate, 252 Crocker Bldg., San Francisco.
Architect—Kent & Hass, Underwood Bldg., San Francisco. \$4000

DWELLING

(721) S Silliman 95 W Cambridge; 1-story and basement frame dwelling.
Owner—C. T. Lindsay, 140 Duboce.
Day's work \$2500

DWELLING

(722) N OCEAN AVE 138 W Mission St. One-story and basement frame dwelling.
Owner—J. Novello, 172 Bertita St., San Francisco.
Architect—R. R. Irvine, 2040 Market St., San Francisco.
Contractor—J. Novello, 172 Bertita St., San Francisco. \$3000

STORES

(723) N CHESTNUT 194 E Pierce St. One-story Class C stores.
Owner—A. J. Romey & Co., 2150 Chestnut St., San Francisco.
Architect—S. Heiman, 605 Market St., San Francisco.
Contractor—J. S. Malloch, 666 Mission St., San Francisco. \$9000

DWELLING

(724) E SAN ANDREAS WAY 458 N Monterey Blvd. Two-story and basement frame dwelling.
Owner—J. L. Carr, M. D., 15 Santa Paula St., San Francisco.
Architect—Masten & Hurd, 233 Post St., San Francisco.
Contractor—F. F. Nelson, Inc., 2 Edgehill Way, S. F. \$8000

DWELLING

(726) SW ITALY & LONDON STS. One-story and basement frame dwelling.
Owner—Louis Verzello, 2663 15th Ave. San Francisco.
Contractor—C. O. Blincoe, 2663 15th Ave., San Francisco. \$5000

DWELLING

(727) W CONNECTICUT 200 S 17th St. One-story and basement frame dwelling.
Owner—V. Albertazzi, 228 Connecticut St., San Francisco.
Architect—Not Given.
Contractor—R. Lino, 54 Stanton St., San Francisco. \$3000

ALTERATIONS

(727) NO. 471-473-475 FILBERT ST. Alter flats.
Owner—F. Tufo, 473 Filbert St., San Francisco.
Architect—W. H. Armitage, 3560 California St., San Francisco. \$1000

DWELLING

(728) W TWENTY-FIFTH AVE — S Sloat Blvd. One-story and basement frame dwelling.
Owner—D. C. Hanks, 2441 Cabrillo St., San Francisco.
Plans by J. W. Plackek, Berkeley. \$4000

STATION

(729) NE MIRAMAR AND OCEAN Ave. Brick service station building.
Owner—McKales, Inc.
Architect—Not Given.
Contractor—Price Constr. Co., 723 Webster St., San Francisco. \$1000

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
427	Associated	Independent	1300
428	Lerner	Owner	3000
431	Lyon	Beckett	1450
429	Sterling	Reese	2500
430	Peters	Owner	2000
432	Shemanski	Bigge	1394
433	Morlan	Owner	1000
434	Buckman	Hammarberg	4500
435	Rutherford	Walker	4700
436	Bischoff	Owner	6000
437	Shand	Owner	1000
438	Torrano	Zaballos	5500
439	Dolan	Owner	4500
440	Dolan	Owner	4500

SERVICE BLDG.

(427) NO. 3170 COLLEGE AVENUE, BERKELEY. Steel super service station building.
Owner—Associated Oil Co., 2395 Webster St., Alameda.
Architect—Not Given.
Contractor—Independent Iron Works, 821 Pine St., Oakland. \$1300

ALTERATIONS

(428) NO. 1205 WASHINGTON ST., OAKLAND. Alterations.
Owner—Lerner Stores Corp., 354 4th Ave., New York.
Architect—Not Given. \$3000

ADDITION

(429) NO. 1607 THIRTY-SECOND ST., OAKLAND. Add to warehouse.
Owner—Sterling Lumber Co., 1607 32nd St., Oakland.
Architect—Not Given.
Contractor—T. O. Reese, 2557 63rd Ave., Oakland. \$2500

ALTERATIONS

(430) NO. 700 FRANKLIN STREET, OAKLAND. Alterations.
Owner—Peters Bros., 700 Franklin St., Oakland.
Architect—Not Given. \$2000

ALTERATIONS, ADDITIONS

(431) 151 TUNNEL ROAD, BERKELEY. Alterations, additions.
Owner—H. D. Lyon, 151 Tunnel Rd., Berkeley.
Architect—Not Given.
Contractor—A. T. Beckett, 224 Scenic Rd., Berkeley. \$1450

ALTERATIONS

(432) NO. 2600 KINGSLAND AVE., OAKLAND. Alterations and addition.
Owner—J. Shemanski, San Francisco.
Architect—Chester Treichel American Bank Bldg., Oakland.
Contractor—Lionel Bigge, 1539 E-14th St., Oakland. \$1394

ADDITION
 (433) NO. 4341 REDDING ST., OAKLAND. Addition.
 Owner—E. O. Morlan, 3956 Fruitvale Ave., Oakland.
 Architect—Not Given. \$1000

DWELLING
 (434) NO. 47 BONNIE LANE, BERKELEY. One-story 5-room frame dwelling and garage.
 Owner—George Buckman.
 Architect—Not Given.
 Contractor—A. Hammarberg, 2340 Le Conte St., Berkeley.. \$4500

DWELLING
 (435) NO. 794 SAN LUIS ST., BERKELEY. Two-story 6-room frame dwelling and garage.
 Owner—John Rutherford, 140 Ardmore Road, Berkeley.
 Architect—E. L. Snyder, 2101 Shattuck Ave., Berkeley.
 Contractor—J. M. Walker, 1709 Grove St., Berkeley. \$4700

DWELLING
 (436) NO. 828 SAN DIEGO ST., BERKELEY. One-story 6-room frame dwelling and garage.
 Owner—John A. Bischoff, 2717 Russell St., Berkeley.
 Architect—Not Given. \$6000

ALTERATIONS
 (437) EIGHTH AND CARLTON STS. BERKELEY. Alter factory.
 Owner—Shand & Jurs, 917 Carlton St., Berkeley.
 Architect—Not Given. \$1000

DWELLING
 (438) NO. 5040 PROCTOR AVENUE OAKLAND. One-story 6-room dwelling.
 Owner—Dr. M. A. Torrano, 5816 Ocean View Drive, Oakland.
 Architect—Williams & Wastell, 374 17th St., Oakland.
 Contractor—Zaballos Bros., 914 Soto St., Hayward. \$5500

DWELLING
 (439) NO. 3996 OAKMORE ROAD, OAKLAND. One-story six-room dwelling.
 Owner—Leo J. Dolan, 316 17th St., Oakland.
 Architect—Not Given. \$4500

DWELLING
 (440) NO. 3570 JORDAN ROAD, OAKLAND. One-story five-room dwelling.
 Owner—Leo J. Dolan, 316 17th St., Oakland.
 Architect—Not Given. \$4500

**BUILDING CONTRACTS
 SAN FRANCISCO COUNTY**

148 R C Archibishop	Moore	2790
149 Sanders	McSheehy	1800

(148) E ALABAMA BETWEEN 24TH and 25th Sts. Saint Peter's Parochial School. Excavating, concrete work, lumber, etc., carpenter work, addition 2 classrooms, etc.
 Owner—The Roman Catholic Archbishop of San Francisco, 1190 Franklin St.
 Architect—Martin Rist, Phelan Bldg., San Francisco.
 Contractor—Moore & Roberts, 693 Mission St., San Francisco.
 When roof is on and rough frame\$699.00
 When finished plaster is on..... 699.00
 When all work is completed and accepted 699.00
 Usual 35 days 699.50
TOTAL COST \$2796.50
 Bond, none. Sureties, none. Forfeit, none. Limit, none. Plans and specifications filed.

ALTERATIONS
 (149) SW TWENTY-SECOND ST. and Potrero Ave. All work for alterations and additions to bldg.
 Owner—Etta Sanders, 2601 22nd St., San Francisco.
 Architect—Not Given.
 Contractor—James B. McSheehy, 137 Clifford Terrace, San Francisco.
 Filed Sept. 25, '33. Dated ———.
 Frame up\$450
 Brown mortar on new addition 450
 Contract finished 450
 Usual 35 days 450
TOTAL COST, \$1800
 Bond, none. Limit, 60 days after Sept. 25. Forfeit, none. Plans and specifications filed.

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
61	Roos	Mullen	4983
62	Peterson	Johnson	24942

STORE BLDG.
 (61) TELEGRAPH AVE. near Bancroft Way, Berkeley. Install store fixtures, complete painting, electric work and glass for store.
 Owner—Roos Bros., Inc., 64 Shattuck Square, Berkeley.
 Architect—Albert R. Williams, 785 Market St., San Francisco.
 Contractor—Mullen Mfg. Co., 60 Rausch St., San Francisco.
 Filed Sept. 22, '33. Dated Sept. 19, '33.
 When completed\$3283
 Usual 35 days 1700
TOTAL COST, \$4983
 Bond, none. Limit, October 16, 1933. Forfeit, none. Plans and specifications filed.

PLANT
 (62) SIXTY-THIRD ST. AND OVERLAND AVE., Emeryville. All work for circulating rendering plant.
 Owner—Peterson Tallow Co., 65th and Bay Sts., Emeryville.
 Engineer—A. W. Remnitz, California Hotel, Oakland.
 Contractor—S. G. Johnson, 4652 Dolores St., Oakland.
 Filed Sept. 26, '33. Dated Sept. 18, '33.
 Last day of each month..... 80%
 Completion, 75% of contract price
 Usual 35 daysBalance
TOTAL COST, \$24,942
 Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed.

SAN FRANCISCO UNDER \$1000

ALTER dwelling, \$400; 370 18th Ave.; owner, Carl Granbaum, 1082 Church St.
 ALTER dwelling, \$600; 235 Edgewood Ave.; owner, E. Robinson, Prem.
 SIGN, electric, \$200; Mission and Army Sts.; owner, Sears Roebuck Co., Premises; contractor, Elec. Prod. Corp., 255 Golden Gate Ave.
 SIGN, electric, \$200; 201 Turk St.; owner, Chamberlain & Proctor, 201 Turk St.; contractor, Electric Prod. Corp., 255 Golden Gate Ave.
 ALTER restaurant, \$300; 499 Third St.; owner, Mrs. J. Peterson, 499 Third St.
 GARAGE, one-story frame, \$65; 8 Newell Alley; owner, G. Trupiano, Premises.
 BILLBOARD, \$6.25; NE Franklin & Austin Sts.; owner, Foster & Kleiser, 1675 Eddy St.
 SHED, one-story frame, 75; S Union 53 W Leavenworth St.; owner, J. Cuneo, 6 Sharp Place.
 GARAGE, one-story, \$120; 560 Funston Ave.; owner, M. G. Witzel, 130 Funston Ave.
 SIGN, electric, \$200; Mission and Army Sts., \$200; owner, Sears Roebuck Co., Premises; contractor, Electric Prod. Corp., 255 Golden Gate.

ALTER flats, \$124; 1917 Stockton St.; owner, J. Blaghl, 1917 Stockton St.; contractor, L. Polidoro Co., 780 Vallejo St.
 SIGN, electric, \$50; 5503 Mission St.; owner, Williams Realty Co., 5503 Mission St.; contractor, Wonderlite Neon Prod. Co., 170 Otis St.
 ALTER dwelling, \$350; 534 Geary St. (rear) 116 Shanon St.; owner, W. C. Jones, 1132 Guerrero St.; contractor, W. C. Jones, 1132 Guerrero St.
 SIGN, wood, \$15; 962 Market St.; owner, J. Thorn, 962 Market St.
 SIGN, electric, \$22.50; 228 Valencia St.; owner, Toby Radlo, Prem.; contractor, Laib, 7th and Folsom
 SIGN, electric, \$100; 1595 Van Ness Ave.; owner, Earl C. Anthony, 1595 Van Ness Ave.; contractor, Wonderlite Neon Prod. Co., 170 Otis St.
 ALTER store, \$140; 735 Montgomery St.; owner, Biagini & Michilli, 735 Montgomery St.; contractor, Barrett & Hilp, 1918 Harrison St.
 SIGN, electric, \$350; 636 Montgomery St.; owner, Florence Cafe, Prem.; contractor, Wonderlite Neon Prod Co., 170 Otis St.
 SIGN, electric, \$250; Powell & O'Farrell Sts.; owner, The Abrams Co.; contractor, Elec. Products Corp., 255 Golden Gate Ave.
 SIGN, electric, \$250; 1595 Van Ness Ave.; owner, Earl C. Anthony, 1595 Van Ness Ave.; contractor, Wonder Lite Neon Prod. Co., 170 Otis.

ALAMEDA COUNTY UNDER \$1000

ADDITION, \$175; 3529 Lincoln Ave., Oakland; owner, M. J. Andrade, Premises.
 SHED, one-story, \$70; 5000 Manila Ave., Oakland; owner, W. Johanson, Premises.
 SIGN, electric, \$130; 3016 Lakeshore Ave., Oakland; owner, G. C. Little; contractor, Radiant Neon Displays, 2561 San Pablo Ave.
 GARAGE, one-story, \$140; 2472 Rawson St., Oakland; owner, Milton Morris, Premises.
 ALTERATIONS, \$225; 484 13th St., Oakland; owner, Mrs. E. D. Porter 236 Hillside Ave., Piedmont.
 SIGN, electric, \$120; 3321 Foothill Blvd., Oakland; owner, Flaths Bakery; contractor, Imp Electric Sign Co., 2228 Myrtle St.
 ALTERATIONS, \$125; 1937 Haste St., Berkeley; owner, A. Nelson, Prem.
 ALTERATIONS, \$167; 1531 Delaware St., Berkeley; owner, Chas. Renning, Premises; contractor, Guy Tyler, 1502 Cedar St.
 ALTERATIONS, \$98; 2534 Piedmont Ave., Berkeley; owner, East Bay Nursery, 2728 Belrose St.; contractor, Guy Tyler, 1502 Cedar St.
 ALTERATIONS, \$250; 3048 Deakin St., Berkeley; owner, M. L. Thompson, San Francisco; contractor, Frank A. Stead, 3206 Boise
 CHIMNEY, patent, \$20; 263 Lester Ave., Oakland; owner, Miss Horn, 261 Lester Ave.; contractor, H. B. Carmichael, 1509 3rd Ave.
 ALTERATIONS, \$100; 910 Poplar St., Oakland; owner, Peter Anton, 910 Poplar St.
 ALTERATIONS, \$490; 1620 Sacramento St., Berkeley; owner, Mrs. P. F. Kling, 1620 Sacramento St.
 ALTERATIONS, \$300; 575 Santa Clara St., Berkeley; owner, W. F. Pape, 575 Santa Clara St.
 ALTERATIONS, \$485; 1969 University Ave., Berkeley; owner, Geo. Davis, 1525 Arch St.; contractor, H. C. Kidder, 3123 Eton St.
 GARAGE, private, \$400; 1171 Sutter St., Berkeley; owner, A. F. Hiltne, 1171 Sutter St.

BUILDING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

1.—Apartments	Offices
2.—Bonds	11.—Ice and Cold Storage Plants
3.—Churches	12.—Power Plants
4.—Factories and Warehouses	13.—Public Buildings, Fire Houses and Jails
5.—Flats	14.—Residences
6.—Garages and Service Stations	15.—Schools
7.—Federal Buildings	16.—Banks, Stores and
8.—Club Buildings	17.—Theatres
9.—Hospitals	18.—Wharves & Docks
10.—Hotels	19.—Misc. Const.
	20.—Misc. Supplies & Materials

1— APARTMENTS

Sub-Contracts To Be Awarded Next Week.

APARTMENTS Cost, \$20,000
VALLEJO, Solano Co., Cal. Marin Avenue.

Two-story and basement frame and stucco apartment building (four 4-room apts.) tile roof, gas hot air heating system, oak floors, wall beds, etc., and two-story detached residence (seven rooms) same construction as apartments.

Owner—C. J. O'Neal.

Architect—Chas. E. Perry, 514 Marfin Ave., Vallejo.

Contractor—David Paganini, 519 California St., San Francisco.

September 27, 1933

Sub-Contracts Awarded.

APARTMENT HOUSE Cost, \$3500
BERKELEY, Alameda Co., Cal. Vine Street.

Two-story frame store and apartment building.

Owner—George L. Leon.

Draftsman—W. A. Doctor, 1629 Telegraph Ave., Oakland.

Contractor—Leslie C. Dawe, 1249 Coventry St., Berkeley.

Brick Work: Koenig Bros., 4418 Ygancho Ave., Berkeley.

Lumber: Tilden Lumber Co., Oakland.

Plumbing: Golden Gate Plumbing Co., 5904 San Pablo Ave., Berkeley.

Plaster: G. Parish, 2415 Oregon St., Berkeley.

Painting: W. McLean, Berkeley.

Roofing: Western.

Taking Sub-bids.

APT. BUILDING Cost, \$—
OAKLAND, Alameda Co. 2523 Market Street.

Remodel 2-story 4-apartment building
 Owner—Miss C. B. Taylor.

Architect—Private Plans.

Contractor—Ernest W. Urch, 1924 50th Ave., Oakland.

The work includes the supplying of new kitchen case work, electric ranges, water heaters, linoleum, plumbing and fixtures, tile work, painting and plastering.

Construction Abandoned.

APARTMENTS Cost, \$—
SAN FRANCISCO. NE Jefferson and Divisadero Streets.

Three-story and basement frame and stucco apartments (9 apts.)

Owner—Mr. and Mrs. Teglia, 3023 Franklin St., San Francisco.

Architect—Richard R. Irvine, 2048 Market St., San Francisco.

Owner has decided not to have the building constructed on account of prices too high at this time.

The lowest bid was submitted by G. Galll & Co., 1900 Hyde St., at \$28,000.

3— CHURCHES

Contract Awarded.

CHURCH Cost, \$4771
DUNSMUIR, Siskiyon Co., Cal.
 One-story frame and stucco church, (85x33 feet).

Owner—Dunsmuir Church (Father M. J. O'Connell, Pastor), Dunsmuir.

Architect—Chester Cole, Chico.

Contractor—Luigi Cosentino, Dunsmuir.

September 22, 1933

Revising Plans.

CHURCH Cost, \$35,000
LONG BEACH, Los Angeles Co., Cal.
 Church (steel frame, steel studs and gunite construction); 750 seats.

Owner—Roman Catholic Bishop of Los Angeles and San Diego.

Architect—Emmett G Martin, 4350 Beverly Blvd., Los Angeles.

Engineer—L. J. Waller, 4350 Beverly Blvd., Los Angeles.

All bids received recently were rejected. 3

LONG BEACH, Los Angeles Co., Cal.—E. J. Gerhart, 2360 Linden Ave., Long Beach, has been awarded a contract for reconditioning a church building at 440 Elm Ave., Long Beach, for the First Church of Christ, Scientist. Plans were prepared by Harvey H. Lochridge, engineer, 304 Orizaba St., Long Beach. Work will consist of new reinforced concrete walls, gunite work, interior plastering, repairs to steel roof trusses, staff work, metal lath and plaster partitions, painting and decorating, etc. Estimated cost is \$25,000.

Bids Opened.

CHURCH Cost, \$—
CRESCENT CITY, Del Norte Co., Cal.
 One-story reinforced concrete church (to seat 275).

Owner—Roman Catholic Archbishop (Father Nolan, Pastor), Crescent City.

Architect—Harry Devine, California State Life, Bldg., Sacramento.

Following firms submitted bids:

J. P. Brennan, Redding, \$15,396; deduct \$400.

T. B. Goodwin, Tule Lake, \$15,678; deduct \$450.

H. W. Robertson, Sacramento, \$17,898; deduct \$860.

4— FACTORIES & WAREHOUSES

Sub-Contracts Awarded.

WINERY Cost, \$150,000
LODI, San Joaquin Co., Cal. Victor Road.

One-story steel frame and brick winery (420x100 ft.) will house bottling and labeling plant, fermenting room, 36-ton refrigeration plant.

Owner—John B. Cella, Lodi.

Architect—H. C. Baumann, 251 Kearny St., San Francisco.

Contractor—L. Franceschi, 1900 Beach St., San Francisco.

Brick Work—Dick Williams, Stockton.

Concrete Work—Jules Perrin, Lodi

Roof Lumber—Lodi Lumber Co., Lodi

Truss Lumber—Valley Lumber Co., Lodi.

Completing Plans.

BREWERY Cost, \$750,000
SAN FRANCISCO. (Paul Tract) Bayshore Ave. and Third St.

Group of buildings for brewery, steel and concrete construction.

Owner—General Brewing Corporation (C. W. Ahrens, director).

Architect—Fred H. Meyer, 525 Market St., San Francisco.

Engineer—C. H. Snyder, 251 Kearny St., San Francisco.

Contractor—Cahill Bros., 206 Sansome St., San Francisco.

Contracts Awarded.

FACTORY Cost, \$750,000
OAKLAND, Alameda Co., Cal. Foot of Adeline Street on the Estuary.
 Steel frame and concrete coconut products factory (650x100 ft.) steel frame and reinforced concrete warehouse (40x146 ft.) pile foundations, flat slab roofing, corrugated iron roof and siding.

Owner—El Dorado Oil Works, Third and University Ave., Berkeley.

Engineers—Elison & Russell, Pacific Bldg., San Francisco.

Conveying Frame—Independent Iron Works, Oakland.

Sheet Metal Work—Central Sheet Metal & Roofing Co., 3246 Eattie St., Oakland.

Sub-Contracts Awarded.

ADDITION Cost, \$14,314.81
SAN FRANCISCO. N Jessie St. 80 W Sixth St.

Two-story Class C reinforced concrete addition to warehouse (steel sash composition roof, woor floors, etc.)

Owner—Weinstein Co., 1041 Market St., San Francisco.

Architect—Hyman & Appleton, 68 Post St., San Francisco.

Contractor—Cahill Bros., 206 Sansome St., San Francisco.

Reinforcing Steel—Concrete Engineering Co., 1280 Indiana St.

Lumber—Loop Lumber Co., Central Basin, San Francisco.

Other contracts will be awarded next week.

LOS ANGELES, Cal.—P. J. Walker Co., builder, 3900 Whiteside Ave., Los Angeles, applied for building permit to construct reinforced concrete plers and foundation for six-story Class A newspaper building at 202 W. First St. for Times-Mirror Co., owner; Gordon B. Kaufmann, architect, 610 Union Bank Bldg. 163x365 feet. Cost, \$40,000.

CORONA, Riverside Co., Cal.—Herbert A. Hamm, 579 N. Holliston Ave., Pasadena, has prepared plans for a pre-cooling and storage plant he will build at the foot of Sheridan St., Corona, for the Corona Citrus Assn.; F. J. Mueller, secretary-manager. The building will be a two-story structure, 91x77 feet in area and 25 feet high. It will be equipped with a refrigeration system and will have a capacity of 50 cars. Cost \$40,000.

Permit Applied For.

ADDITION Cost, \$9000
SAN JOSE, Santa Clara Co., Cal. 400 block East Empire St.

Addition of bottling room, cooling room, bottle washing room, etc., to milk plant.

Owner—Golden State Co., Ltd., 400 N. First St., San Jose.

ROSEMEAD, Los Angeles Co., Cal. —J. C. Thurman, 130 E. Main St., El Monte, will be the contractor for a brewery to be erected at 2215 E. Valley Blvd., Rosemead, for the Bailey Brewing Co.; R. M. Bailey, president, at site. Construction of several new reinforced concrete buildings is proposed. Some foundation work has been done but, due to revision of the plans, actual work on the buildings will probably not be started for several weeks.

Completing Plans.
PIER EXTENSION Cost, \$100,000
SAN FRANCISCO. Pier 42, waterfront.

140-foot timber shed extension, etc. Owner—State Board of Harbor Commissioners, Ferry Bldg., San Francisco.

Engineer—Frank G. White, Ferry Bldg., San Francisco.
Plans will be ready for figures in about two weeks.

PACKING HOUSE Cost, \$3000
WATSONVILLE, Santa Cruz Co., Cal. Beach Road.

One-story frame and corrugated iron packing shed (50x135 ft.), corrugated iron roof, concrete and wood floors, etc.

Owner—Mr. Strobel.
Architect—A. W. Story, Pajaro Valley Bank Bldg., Watsonville.
Friend & Wrath.....\$4039
Snyder & Biddle, Watsonville..... 4074
Timothy & Hunter, Watsonville..... 4087
Jos. A. Lechleiter, Watsonville..... 4182
P. T. Wallstrom, Watsonville..... 4200
A. L. Short, Watsonville..... 5226
Bids were taken under advisement.

Work Started.
WAREHOUSE \$10,000
ASTI, Sonoma Co., Cal.

One-story concrete warehouse for 500,000 gals. of wine.
Owner—Italian Swiss Colony, 51 Broadway, San Francisco.
Architect—Not Given.
Contractor—Cahill Bros., 206 Sansome St., San Francisco.

Work was started Sept. 25 by day's labor under the supervision of Cahill Bros.

FRESNO, Fresno Co., Cal. — G. Masell & Sons, Inc., 2310 Railroad Ave., Fresno, will alter their olive oil plant into a winery. More than \$25,000 will be spent on the cooperage and machinery for the winery.

SUB-Contracts Awarded
FACTORY Cost, \$50,000
BERKELEY, Alameda Co., Cal. 63rd and Overland Sts.

Two-story steel frame factory (120x140 ft.), brick walls, concrete work composition roofing, etc.
Owner—Peterson Tallow Co., 65th and Bay Sts., Oakland.
Engineer—E. W. Remnitz, 1594 63rd St., Oakland.
Contractor—S. G. Johnson, 4654 Dolores St., Oakland.

Concrete Work: J. H. Fitzmaurice, 2857 Hannah St., Oakland.
Reinforcing Steel: McGrath Steel Co., 280 San Bruno Ave., San Francisco.
Brick Work: Herschel & Reinecke, 830 E. 11th St., Oakland.
Lumber: Sunset Lumber Co., 400 High St., Oakland.

Mill Work: California Mill & Lumber Co., 1829 Webster St., Alameda.
Sheet Metal Work: Superior Metal Products Co., 4400 Market St., Oakland.

Roofing: General Roofing Co., 3539 Beach St., Oakland.
Miscellaneous Steel, Stairs & Sliding Doors: Independent Iron Works, Ltd., 821 Pine St., Oakland.
Painting: Lindahl & Hersiz, 1641 Grove St., Berkeley.

Corrugated Asbestos Roofing & Siding: 563 Second St., San Francisco.

Segregated Contracts Awarded.
PLANT Cost, \$50,000
BERKELEY, Alameda Co., Cal. Telegraph Ave. near 55th St.
One-story steel frame and brick laundry and cleaning plant.

Owner—Marshall Steel Co., 2124 Center St., Berkeley.
Architect—Alben Froberg, Ray Bldg., Oakland.

Superintendent of Construction—H. J. Christensen, 1955 Webster St., Oakland.

Concrete Work: J. H. Fitzmaurice, 2858 Hannah St., Oakland.

Reinforcing Steel: McGrath Steel Co., 2059 Webster St., Oakland.

Structural Steel: Judson Mfg. Co., Foot of Park Ave., Oakland.

Lumber: Sunset Lumber Co., 400 High St., Oakland.

Terra Cotta: N. Clark & Sons, Pacific and Fourth Sts., Alameda.

Glass: W. P. Fuller Co., 259 10th St., Oakland.

Hardware: Maxwell Hardware Co., 1320 Washington St., Oakland.

Steel Sash: Detroit Steel Products Co., 63rd and Doyle Sts., Oakland.

Tile: Rigney Tile Co., 3012 Harrison St., Oakland.

Sheet Metal Work: Central Sheet Metal & Roofing Co., 3246 Ettie St., Oakland.

Roofing: General Roofing Co., 3985 Beach St., Oakland.

Plumbing and Heating: Frank A. Gottstein, 226 8th St., Oakland.

Other contracts to be awarded shortly.

Sub-Contracts Awarded.
ADDITION Cost, \$3000
SAN FRANCISCO. SE Twenty-second and Iowa Streets.

Addition to factory.
Owner—Tubbs Cordage Co.
Engineer—F. J. Chapham, 901 Grizzly Peak Blvd., Berkeley.

Contractor—Lindgren & Swinerton, Inc., Standard Oil Bldg., San Francisco.

Steel Sash—Detroit Steel Products Co., 111 Sutter St., San Francisco.

Roofing—Bender Roofing Co.

Glass—W. P. Fuller & Co.

Structural Steel—Western Iron Works 151 Beale St., San Francisco.

Ready Mix Concrete—Golden Gate Atlas Materials Co., 2625 25th St., San Francisco.

Mill Work—Lannom Bros. Mfg. Co., Fifth and Magnolia Sts., Oakland.

Lumber—Christensen Lumber Co.

Ready For Figures Next Week.
BREWERY Cost, Bldg., \$35,000
Equipment, \$100,000
FRESNO, Fresno Co., Calif. NE Hedges and Blackstone Ave.

One two-and three-story steel and reinforced concrete brewery, (80x140 feet), malt cooling apparatus, capacity of 100 barrels of beer daily, bottling plant, etc.
Owner—Emilio Giometti, 1480 Blackstone Ave., Fresno.

Architect—W. D. Coates, Rowell Bldg., Fresno.
Bids will be taken for a general contract.

Segregated Bids to Be Taken in a Few Days.

BREW HOUSE Cost, \$100,000
STOCKTON, San Joaquin Co., Calif. 626 N American Street.

Four- or five-story brick and steel brew house (40 ft. square, 90 ft. in height).

Owner—Eldorado Brewing Co. (A. D. Rothenbush), 626 N American St., Stockton.

Designed by C. M. Fraenkel, industrial economist, 461 Market St., San Francisco.

Construction of the foundation has

been started by day's labor under the supervision of the owner. All bids will be taken by the owners.

Contract Awarded.
REINFORCED CONCRETE TANKS Cost, \$13,500
SAN FRANCISCO, Cal. Bay Shore Boulevard.

Eight reinforced concrete tanks for interior of glue factory.

Owner—Pacific Bone, Coal & Fertilizing Co., Financial Center Bldg., San Francisco.

Plans by Owner's Engineering Department.

Contractor—MacDonald & Kahn, 405 Montgomery St., San Francisco.

Wood piling has been awarded to Butte Construction Co., 2014 Folsom St., San Francisco.

5—FLATS

September 22, 1933
Lumber Contract Awarded.

FLATS Cont. Price, \$9285
SAN FRANCISCO. Union St. 136 W Baker St.

Two-story and basement frame and stucco flats (two 6-room flats) asphalt, gravel and terra cotta tile roof, steam heating, gas furnace, hardwood floors, canvas walls, hardwood trim, electric refrigeration, etc.)

Owner—Leon Kulmellis.

Architect—Martin Sheldon, Monadnock Bldg., San Francisco.

Contractor—G. P. W. Jensen, 320 Market St., San Francisco.

Lumber—Loop Lumber Co., Central Basin.

Other awards reported Sept. 7. (2362) 1st report Aug. 7; 4th Sept. 7, 1933.

6—GARAGES & SERVICE STATIONS

Sub-Contracts Awarded.
SERVICE STATION Cost, \$—
SAN FRANCISCO. Ocean Ave. and Miramar Street.

Steel frame and brick service station. Owner—McKale's, Inc., Mission and Twelfth Sts., San Francisco.

Plans by Engineering Dept. of Owner. Contractor—Price Construction Co., 1723 Webster St., Oakland.

Reinforcing Steel—Awarded to W. F. Wetenhall Co., 17th and Wisconsin Sts.

Sub-contracts on the balance of the items will be awarded on the job by J. H. Reavey, Randolph 9316.

As previously reported:
Lumber—Roth-Meir Lumber Co., 2800 Third St., San Francisco.

Plumbing—J. J. McLeod, 1246 Golden Gate Ave., San Francisco.

7—FEDERAL BUILDINGS

PEARL HARBOR, T. H.—Bids will be received on November 15 by Bureau of Yrds and Docks, Navy Department, Washington, D. C., for erecting extension to foundry building at Pearl Harbor Navy Yard. Estimated cost \$107,500.

WASHINGTON, D. C.—The General Fire Proofing Company, of Washington, D. C., submitted a bid at \$14,134 for furnishing and installing metal shelving and counters in the Post Office at Seattle, Wash.

Other bidders were: Berger Mfg. Co., Canton, Ohio, \$21,325; Jamestown Metal Equipment Co., Jamestown, N. Y., \$22,703; Art Metal Construction Co., Washington, D. C., \$30,180.

PEARL HARBOR, T. H.—Until November 15, at 11 a. m., bids will be received at the Bureau of Yards and Docks, Navy Department, Washing-

ton, D. C., under Specification No. 7094 for extension of foundry at the Navy Yard, Pearl Harbor, T. H. The work includes concrete work, steel framing, corrugated asbestos roofing and siding, steel doors and windows, electric bridge crane and pneumatic hoists and plumbing and electrical systems. Estimated cost, \$107,500.

Plans and specifications obtainable from the Bureau, Commandant 12th Naval District, 100 Harrison St., San Francisco, or Commandant 14th Naval District, Navy Yard, Pearl Harbor, T. H. Deposit of \$10 required.

WASHINGTON, D. C.—W. J. Dean & Sons Co., Salt Lake City, Utah, at \$36,843 awarded contract by Treasury Department for the construction of the U. S. Post Office building at Logan, Utah.

The extension will be one-story, 72x40 ft., with brick walls, face brick exterior, stone trim, composition roof, pipe steam heating system, etc.

YUMA, Ariz.—Sterling Bronze Co., Inc., Long Island City, N. Y., awarded contract by Treasury Department, Washington, for interior lighting fixtures for Post Office Building at Yuma.

BREMERTON, Wash.—Following firms have applied at the Supervising Architect's Office, Washington, for plans for the construction of a brick and reinf. concrete shop type building, 805 x 251 feet, at the Puget Sound Navy Yard, under Spec. No. 7338. Estimated cost \$1,350,000. Bids will be opened by the Public Works Officer, Puget Sound, on October 9, 10 A. M.

Albertson-Cornell Bros., Inc., 1113½ A St., Tacoma.

Elvind Anderson, 517 North I St., Tacoma.

The Austin Co., Dexter Horton Bldg., Seattle.

Harry Boyer, Son & Co., Olympna. Geo. H. Buckler Co., Lewis Bldg., Portland.

Clinton Constr. Co., 923 Folsom St., San Francisco.

Edward Ekrem, 100 North 74th St., Seattle.

Flitton & Livergreen, 503 Colman Bldg., Seattle.

General Constr. Co., 3840 Iowa Ave., Seattle.

Peter Gjarde, Lyon Bldg., Seattle.

Great Lakes Constr. Co., Chicago. Hedeon Constr. Co., 408 American Bank Bldg., Seattle.

Henrikson-Alstrom Constr. Co., 1710 Textile Tower, Seattle.

Haddow Engineering Co., 747 Tacoma Ave., Tacoma.

Jacobson Bros. Co., 19 C. LaSalle St., Chicago, Ill.

Lawlor-Woodward Co., 512 Colman Bldg., Seattle.

MacDonald & Kahn Co., Financial Center Bldg., San Francisco.

Macrea Brothers, 614 Fifth Avenue, Seattle.

McClintle-Marshall Corp., Box 444, Alameda.

K. E. Parker Co., 135 South Park, San Francisco.

A. W. Quist Co., Exchange Bldg., Seattle.

Sound Constr. & Eng. Co., Northern Life Tower, Seattle.

Teufel & Carlson, 803 Skinner Bldg., Seattle.

Western Constr. Co., Textile Tower, Seattle.

William Wills, 1529 Eighth Ave. W., Seattle.

D. Zelinsky & Sons, Inc., 165 Grove St., San Francisco.

Associated General Contractors of America, Arcade Bldg., Seattle.

Herbert M. Baruch Corp., Fort Milley, San Francisco.

C. C. Belknap Glass Co., R. R. Ave. and Stewart St., Seattle.

Builders Exchange, Worcester Bldg. Portland.

Builders' Exchange, 666 Mission St., San Francisco.

Builders' Exchange, 106 Securitles Bldg., Seattle.

Fred W. Fein Co., 217 Second St., Bremerton.

Ingalls Iron Works Co., Birmingham, Ala.

Isaacson Iron Works, 2917 E. Marginal Way, Seattle.

Johns-Manville Co., Henry Bldg., Seattle.

Mesker Brothers, 92 Battery St., Seattle.

NePage-McKenny Co., 804 Sixth Ave. S., Seattle.

Pacific Car & Foundry Co., White Bldg., Seattle.

Star Iron & Steel Co., Tacoma.

Truscon Steel Co., Lloyd Bldg., Seattle.

University Plumbing & Heating Co., 3939 University Way, Seattle.

Wallace Bridge & Structural Steel Co., West Marginal Way and Idaho St., Seattle.

Western Building Specialties, 520 Denny Way, Seattle.

The William Bagley Co., Springfield, O.

H. H. Robertson Co., 2000 Grant Bldg., Pittsburgh.

Wm. MacDonald Constr. Co., 3829 W. Pine Blvd., St. Louis.

J. A. Jones Constr. Co., P. O. Box 115, Maxwell Field, Ala.

The Austin Eng. Co., 1612 Euclid Ave., Cleveland, O.; attention, G. A. Bryant.

Graybar Elec. Co., 420 Lexington Ave., N. Y. City.

Truscon Steel Co., Investment Bldg., Washington, D. C.

Boga Constr. Co., 410 N. Michigan Ave., Chicago.

L. E. Eck & Sons, 313 State St., Jamestown, N. Y.

Belmont Iron Works, 22nd St. and Washington Ave., Philadelphia, Pa.

Virginia Bridge & Iron Co., Roanoke, Va.

W. P. Thurston Co., P. O. Box 2089, Richmond, Va.

Pittsburgh-Des Moines Steel Co., 1015 Tuttle St., Des Moines.

MARE ISLAND, Cal.—Until October 17, 11 a. m., bids will be received by the Public Works Officer, U. S. Navy Yard, Mare Island, under Specifications No. 7382, for new tin roof and gutters, wood cornice, wood framing, plaster ceiling and other work for Marine Barracks Bldg., No. M-53, Mare Island. Plans obtainable from A. L. Parsons, Chief of Bureau of Yards and Docks, Mare Island, on a deposit of \$5.00.

WASHINGTON, D. C.—Stockton Sheet Metal Works, Stockton, awarded contract by Treasury Department for metal counter covering for Stockton Post Office. Contract price \$47.00.

September 26, 1933

PORTLAND, Ore.—The Howe Scales Co., 415 Arch St., Philadelphia, Pa., awarded contract by Treasury Department, Washington, D. C., for platform beam scales for courthouse.

SUNNYVALE, Santa Clara Co., Cal.—New bids will be received until October 2, 11 a. m., by Public Works Officer, 12th Naval District, 100 Harrison St., San Francisco, for alterations and additions to operations office at the Naval Air Station, Sunnyvale. Specification No. 7357.

Roy Lind, 54 Stanton St., San Francisco, submitted lowest bid recently at \$937.

MARE ISLAND, Cal.—Until October 3, 1933, bids will be received by Public Works Officer, Navy Yard,

Mare Island, Cal., for magnesite floors in building A-74, Naval Ammunition Depot, Mare Island; Spec. 7442.

SAN DIEGO, Cal.—Until October 17, 11 A. M., bids will be received by the Public Works Officer, Eleventh Naval District, Foot of Broadway, San Diego, under Specification 7462—Weather-Stripping, Sinks and Tile Drain Boards at the Naval Operating Base (Chollas Heights and Point Loma Radio Stations) San Diego.

The work includes (a) the provision of materials for and the weather-proofing of all exterior doors and windows of existing four-family Quarters "F" and single Quarters "A" at Chollas Heights Radio Station; (b) the provision of materials for and the installation of new sinks and tile drainboards and miscellaneous work and materials in existing double Quarters "D" and single Quarters "E" at Chollas Heights Radio Station, and Quarters "A" and "E" at Point Loma Radio Station, and two new porcelain combined sinks and drainboards in double Quarters "D" and "G" at Point Loma Radio Station.

Plans are obtainable from the Public Works Officer on a deposit of \$10, payable to the chief of the Bureau of Yards and Docks.

SAN DIEGO, Cal.—Until 11 a. m., October 12, bids will be received by the Public Works Officer, Eleventh Naval District, San Diego, for extension to Building No. 27, Naval Operating Base, San Diego; Specification No. 7427.

The work consists in general of a 100 by 180-foot building extension and includes concrete, steel and iron work, brick work, steel windows and doors, plaster work, carpentry, plumbing fixtures, electrical systems and fire protection.

Plans are obtainable from Public Works Officer, Headquarters Eleventh Naval District, foot of Broadway, San Diego, on a deposit of \$10.00 payable to the Chief of the Bureau of Yards and Docks.

SAN DIEGO, Cal.—Until October 18, 11 A. M., bids will be received by Public Works Officer, Eleventh Naval District, Foot of Broadway, San Diego, under Specification 7463—Pump House and Air Mark at the Eleventh Naval District (Navy Direction Finder Station) Point Hueneme, Calif.

The work consists of the provision of materials for and (a) the construction of a one-story wood frame pump house approximately eleven feet square and includes wood framing, wood door, double hung sash, drop siding, built-up roofing and miscellaneous work and (b) the painting of an air mark on an existing building roof.

Plans are obtainable from the Public Works Officer on a deposit of \$10, payable to the Bureau of Yards and Docks.

8— CLUB BUILDINGS

Completing Plans.
LODGE BLDG. Cost, \$200,000
SACRAMENTO, Sacramento Co., Cal.
Ninth and K Streets.

Five and ten-story reinforced concrete Class A store, office and lodge building; terra cotta front, hollow tile and metal lath partitions, steel frame; two passenger elevators, steam heating oil system, auditorium to seat 800; gymnasium, kitchen, etc.

Owner—J. O. O. F. (G. W. McKay, Chairman of Building Committee) 9th and K Sts., Sacramento.
Architect—Starks & Flanders, Forum Bldg., Sacramento.

Sub-Contracts Awarded.
LODGE BLDG. Cost, \$82,000
SAN FRANCISCO. Fourteenth and Landers Sts. (125x85 feet).
 Two-story and mezzanine floor and basement Class B reinforced concrete lodge building (auditorium 55x100 ft.), handball and basketball courts, showers, banquet rooms, seven lodge rooms, two card rooms and two committee rooms.
 Owner—United Irish Societies.
 Architect—John J. Foley, 770 5th Ave., San Francisco.
 Contractor—Robert McCarthy, 1363 14th Ave., San Francisco.
Roofing: Jas. Reilly, 20 Isabel St., San Francisco.
Reinforcing Steel: W. S. Wetenhall Co., 17th and Wisconsin Sts., San Francisco.
Structural Steel: McClintic-Marshall Corp., 2050 Bryant St., San Francisco.

Grading: Piombo Bros. & Co., 124 Parker Ave., San Francisco.
Plastering: Will probably be done by day's labor.
 Construction will start in ten days.
 As previously reported, the heating, ventilating and plumbing was awarded to P. J. Enright, 2720 McAllister St., San Francisco. Electrical work to Dowd-Seid Electric Co., 2118 Mission St., San Francisco. Painting, to Thomas Walsh, 159 Church St., San Francisco.

Prospective Bidders.
SAN LEANDRO, Alameda Co., Cal. Bancroft Ave. near Estudillo.
 Two-story reinforced concrete Veterans' memorial building (100x125 ft.); tile roof, steam heating, system.

Owner—County of Alameda.
 Architect—Henry H. Meyers, Kohl Bldg., San Francisco.
 Following firms have applied for plans:
 Sjoberg & Son, 632 Call Bldg., San Francisco.
 E. T. Letter & Son, 811 37th St., Oakland.
 K. E. Parker, 135 South Park, San Francisco.
 Valentine Franz & Son, 180 Jessie St., San Francisco.
 Western Iron Works.

Bids are being taken for a general contract. Plans may be obtained from the Clerk on deposit of \$50, certified check or cash. Five days will be allowed for bidders to return plans, if not bidding, without forfeiting deposit. General contractors will be allowed to keep plans 15 days. Bids close October 24, 10:30 A. M.

9—HOSPITALS

Completing Plans.
HEALTH FARM \$40,000 to \$50,000
PULGAS TUNNEL, San Mateo Co.
 Group one one-story frame cottages for Hassler Health Farm.
 Owner—City and County of San Francisco.
 Architect—S. F. Bureau of Architecture, City Hall.
 Bids will be called for as soon as the sewer disposal problem is settled, which will be about two weeks.

Completing Plans.
HOSPITAL ADDN. Cost, \$—
STOCKTON, San Joaquin Co., Calif.
 State Hospital.
 Reinforced concrete addition to hospital (to accommodate 65 patients)
 Owner—State of California.
 Architect—Geo. B. McDougall, State Architect, Public Works Building, Sacramento.

SACRAMENTO, Sacramento Co., Cal.—County Executive Charles W. Deterding, Jr. is preparing to apply

to the NRA officials for a loan to finance the cost of building a new clinic building and a women's cottage on the Sacramento Hospital grounds. The women's home will cost \$40,000 and the clinic \$30,000.

LOS ANGELES, Cal.—Until 2 p. m., October 16, bids will be received by the Los Angeles county supervisors for furnishing and installing twenty anaesthetic machines and cabinets in the General Hospital under Specification No. 289 and separate bids under Specification No. 288 for:
 (A) 250 wood dining room tables complete,
 (B) 300 wood dining room tables complete.
 Specifications were prepared by William Davidson, Los Angeles County mechanical engineer. Mame B. Beatty, clerk of the board.

10—HOTELS

Segregated Bids to Be Taken in a Few Days.
HOTEL Cost, \$20,000
MARYSVILLE, Yuba Co., Cal. 424 5th Street.
 Rebuild fifth floor (32 rooms) of five-story reinforced concrete and brick hotel which was recently destroyed by fire.
 Owner—Marysville Hotel.
 Architect—Charles Dean, California State Life Bldg., Sacramento.
 Engineer—C. A. Worden, Marysville Hotel, Marysville.
 Bids will be taken by Mr. Worden on the following work: Interior wooden partitions, composition laths, plastering, mill work, tile work, cabinet work, plumbing, electrical, painting, etc.

**13—PUBLIC BUILDINGS
 FIRE HOUSES & JAILS**

Completing Plans.
CITY HALL Cost, \$55,000
SANTA MARIA, Santa Barbara Co.
 Reinforced concrete City Hall (tile roof, steel sash, etc.)
 Owner—City of Santa Maria.
 Architect—Louis N. Crawford, Jones Bldg., Santa Maria.
LONG BEACH, Los Angeles Co., Cal.—Mayor M. E. Paddock reports an \$807,500 bond issue will be submitted to the voters of Long Beach in the near future. The issue will provide for the following improvements:
 Municipal airport, \$105,000.
 Comfort stations, \$50,000.
 City Hall repairs, \$75,000.
 Fire stations repairs, \$177,500.
 Library repairs, \$400,000.

Prospective Bidders.
ADDITION Cost, \$90,000
VISALIA, Tulare Co., Cal.
 Three and one-half-story reinforced concrete addition to courthouse (central heating plant), approximately 20,000 sq. ft. of floor space.
 Owner—County of Tulare.
 Architect—Ernest J. Kump, Rowell Bldg., Fresno.
Structural Engineer—F. W. Kellberg, 320 Market St., San Francisco.
 Bids close October 2, 2 p m]
 Plans may be obtained from the architect's office or Clerk of the County on deposit of \$25. Bidders will be requested to submit a financial statement.
 Following is list of firms who have applied for plans to date:
 W. T. Harris, 577 McKinley, Fresno.
 E. H. Mellencamp, 624 Brooklyn, Oakland.
 Joe J. Maurer Co., 50 York Drive, Piedmont.
 Frank J. Reilly, 6350 Fulton St., San Francisco.

Val Franz, 180 Jessie St., San Francisco.
Francisco.
 Wm. Spilvock, 582 Market St., San Francisco.
 Young & Horstmeyer, 461 Market K. E. Parker Co., 135 South Park, San Francisco.
 Larsen & Larsen, 629 Bryant St., San Francisco.
 MacDonald & Kahn Co., Financial Center Bldg., San Francisco.
 W. J. Ochs, American Trust Co. Bldg., San Jose.
 L. C. Clark, 217 S. West St., Visalia.

CONCORD, Contra Costa Co., Cal.—Mayor C. H. Guy has presented the matter of erecting a new civic building and new fire hall to the Chamber of Commerce to be discussed at the next meeting.

Heating Repairs by Day's Labor.
AUBURN, Placer Co., Cal.
 No bids were received by the Board of Supervisors for the repair and replacement of certain portions of the courthouse heating plant. It was ordered that the purchasing agent be instructed to secure the necessary equipment for its repair. The work to be done by the county under the direction of the county engineer. A. S. Fleming, clerk.

STOCKTON, San Joaquin Co., Cal.—Until October 16, bids will be received by San Joaquin County Board of Supervisors for cleaning and painting all outside metal and wood work of the County Court House, Stockton. Estimatable from County Engineer Julius B. Manthey, Stockton. C. E. Steinemated cost, \$2500. Specifications obgal, chairman of the board.

14—RESIDENCES

Owner Taking Sub-Bids.
RESIDENCE Cost, \$20,000
HILLSBOROUGH, San Mateo Co.
 Two-story and basement frame and stucco French Provincial residence and garage (12 room and 3 baths) hot air gas furnace with air conditioning, slate or shake roof, ornamental iron work, etc.
 Owner—Lloyd Simpson, 888 Culebra Road, Hillsborough.
 Architect—Leo Sharps, 1477 Burlingame Ave., Burlingame.

Contract Awarded.
RESIDENCE Cost, \$18,947
HILLSBOROUGH, San Mateo Co., Cal. Roehampton Road and Richmond Road.
 Two-story frame and stucco residence and garage (12 rooms, 4 baths).
 Owner—L. J. Marcus, 1481 Benito Ave., Hillsborough.
 Architect—Jas. H. Mitchell, 369 Pine St., San Francisco.
 Contractor—C. H. Bessett Bldg. Co., 826 Walnut St., Burlingame.

Sub-Contracts Awarded.
RESIDENCE Cost, \$—
HILLSBOROUGH, San Mateo Co.
 Two-story and basement residence (10 rooms and 3 baths) shakes and plaster exterior, shake roof, gas heating system, hardwood floors, etc.
 Owner—Sydney Lelbes.
 Architect—William I. Garren, 233 Post St., San Francisco.
 Contractor—Moore & Roberts, 693 Mission St., San Francisco.
Plastering—Geo. Frick, 836 Fulton St., San Francisco.
Plumbing—W. E. Trousdale, 422 Turk St., San Francisco.
Electrical Work—M. Schlimetschek, 526 Hayes St., San Francisco.
Stairs—J. Di Cristina & Son, 1025 Capp St., San Francisco.

Other contracts will be awarded soon.

As previously reported, excavation awarded to John Gusse, Palo Alto; concrete to A. Dini & Co., 3275 San Bruno Ave., S. F.; lumber to Smith Lumber Co., Fourth and Channel Sts. S. F.; mill work to Brannan St. Planing Mill, 560 Brannan St., S. F.

Plans Being Figured.

RESIDENCE Cost, \$—
BERKELEY, Cal. Alvarado Road, Claremont District.

Two-story frame and stucco Mediterranean style residence (9 rooms and 4 baths).

Owner—R. E. Wolf.
Architect—Edwin L. Snyder, 2101 Addison St., Berkeley.

Sub-Contracts To Be Awarded Next Week.

RESIDENCE Cost, Approx. \$6000
VALLEJO, Solano Co., Cal. Fleming Tract.

One-story frame and stucco residence (Italian Style).

Owner—E. F. Houseman, Vallejo.
Architect—Charles E. Perry Jr., 514 Main St., Vallejo.

STOCKTON, San Joaquin Co., Cal.—American Dredging Co., 255 California St., San Francisco, at \$0.1049 per cubic yard, submitted low bid to U. S. Engineer's Office, California Fruit Bldg., Sacramento, to dredge 1,881,000 cu. yds. material from the San Joaquin River deep water channel at ten or more shoals between Criminal Point and Suisun Bay, 23 miles, designated as Part III, San Joaquin River 30-ft. channel.

Complete bids follow:
American Dredging Co., S. F. \$0.1049
S. F. Bridge Co.123
Hydraulic Dredging Co.1245
Franks Contracting Co.129
Puget Sound Dredging Co.13
Engineer's estimate0969

Sub-Contracts Awarded

RESIDENCE Cost, \$7890
SAN MATEO PARK, San Mateo Co.

Two-story and basement frame and stucco residence (7 rooms and 2 baths), Spanish tile roof, gas heating system, hardwood floors, hardwood and pine trim, tiled baths.

Owner—Mrs. A. N. Ascherman, 1388 Vancouver, San Mateo.
Architect—N. W. Sexton, deYoung Bldg., San Francisco.

Contractor—Lengfeld & Olund, 220 Third Ave., San Mateo.

Concrete Work: M. Camerotto, San Mateo.

Concrete Materials: San Mateo Feed & Fuel Co., San Mateo.

Reinforcing Steel: Concrete Eng. Co., San Francisco.

Brick Work: C. Ohran & Sons, Burlingame.

Lumber: Wisnom Lumber Co., San Mateo.

Mill Work: Pacific Mfg. Co., Santa Clara.

Medicine Cabinets: W. H. Hammond Co., San Francisco.

Durabit Stairs: Bates Carpenter Co., San Francisco.

Hardwood Floors: Regal Floor Co., San Francisco.

Hardware: Levy Bros., San Mateo.

Sheet Metal Work: G. & M. Sheet Metal Works, San Mateo.

Plumbing: E. C. Cottier, San Mateo.

Electrical Work: Atlas Electric Co., San Mateo.

Painting: A. Petterson, San Mateo.

Tile Roofing: W. J. Anderson, San Francisco.

Tile Work: Art Tile Co., San Francisco.

Linoleum: Frederlek Smith Furniture Co., San Mateo.

Glazing: Peninsular Glass Co., San Mateo.

Roller Screens: H. E. Root, San Francisco.

Plastering: P. Venturelli, San Mateo.

Taking Sub-Bids.

RESIDENCES Cost, \$4500 ea.
SAN FRANCISCO, W 25th Ave. 404, 450 and 498 N Ocean Ave.

Three 1-story and basement frame stucco residences.

Owner—M. A. Little, 525 Geary St., San Francisco.
Architect—E. E. Young, 2002 California St., San Francisco.

Taking Sub-Bids.

RESIDENCE Cost, \$—
ALAMEDA, Alameda Co., Cal. Fernside Tract.

Two-story frame and stucco Spanish style residence, 7 rooms.

Owner—Charles Cox.
Contractor—Harry C. Knight, 315 15th St., Oakland.

Taking Sub-Bids.

RESIDENCES Cost, \$—
OAKLAND, Alameda Co., Cal. Oakland Highland Tract, Leimert Blvd.

Two-story and basement (7-room) frame residence (French type).

Owner—R. H. Seiple, 11th and Alice Sts., Oakland.
Contractor—Harry C. Knight, 315 15th St., Oakland.

Sub-Contracts Awarded.

RESIDENCE Cost, \$10,000
HILLSBOROUGH, San Mateo Co., Cal. Balleynna Road.

Two-story and basement frame and stucco residence (8 rooms and 2 baths), shingle roof, gas heating system, hardwood floors, tiled baths, etc.

Owner—F. T. Covell.
Architect—E. L. Norberg, 407 Occidental Ave., Burlingame.
Contractor—Lengfeld & Olund, 220 Third Ave., San Mateo.

Concrete Work: M. Camerotto, San Mateo.

Concrete Materials: H. E. Casey Co., San Mateo.

Lumber: Wisnom Lumber Co., San Mateo.

Mill Work: Pacific Mfg. Co., Santa Clara.

Hardwood Floors: Regal Floor Co., San Francisco.

Hardware: Levy Bros., San Mateo.

Glazing: Peninsula Glass Co., San Mateo.

Contract Awarded.

RESIDENCE Cost, \$4500
BERKELEY, Alameda Co., Cal. Bonnie Lane N of Marin Ave.

One-story frame residence (5 rooms) and garage.

Owner—George Buckman.
Architect—Not Given.
Contractor—A. Hammarberg, 2340 Le Conte Ave., Berkeley.

Taking Segregated Bids.

RESIDENCE Cost, \$10,000
SAN FRANCISCO, Marina Blvd. 100 E Webster Street.

Two-story and basement frame, stucco and stone residence (7 rooms and 3 baths) slate and flat roof, air conditioning system, tiled baths, hardwood floors and trim, etc.

Owner—Dr. Bernard A. Cody, 350 Bush Street, San Francisco.
Architect—Harvey E. Harris, 38 San Fernando Way, San Francisco.

Contract Awarded.

RESIDENCE Cost, \$10,800
SAN MATEO, San Mateo Co., Cal. In San Mateo Park.

Two-story frame and stucco Monterey Colonial residence (9 rooms and 3 baths); tile roof, hot air gas heating, ornamental iron work, etc.

Owner—J. Gensler.

Architect—Leo Sharps, 1477 Burlingame Ave., Burlingame.

Contractor—Lengfeld & Olund, 220 3rd Ave., San Mateo.

Sub-Contracts Awarded.

RESIDENCE Cost, \$—
LOS ALTOS, Santa Clara Co., Cal. Country Club Property.

Rustic residence (2 dressing rooms & baths, living room, kitchen; 2 sleeping porches), shingle roof, redwood exterior.

Owner—Mr. and Mrs. George L. Hurst.
Architect—W. W. Wurster, 260 California St., San Francisco.

Contractor—Arthur Payne, Upland Drive, Redwood City.

Plumbing—V. Dophee, Redwood City.
Sheet Metal and Patent Flues—Bert Hall, Mountain View.

Lumber and Mill Work—Pacific Mfg. Co., Santa Clara.

Plastering—Not let.

BEVERLY HILLS, Los Angeles Co., Cal.—George M. Holstein, Jr., 9713 Santa Monica, was awarded the general start work this week on the construction of a French Manor house on Rexford Drive, Beverly Hills, for Mrs. Secundo Guasti, Jr. The residence will be L-shaped, extreme dimensions 82x73 feet, and will be two stories and basement, 14 rooms and 6 baths. Construction will be wood frame with gunite exterior, slate roof, marble and parqué floors, marble mantels, orn. iron, marble and tiled bathrooms, gas unit heating system, laundry chute, casement windows, storage water heater, two-car garage, etc. Morgan Walls & Clements, 1135 Van Nuys Bldg., Los Angeles, are the architects. Cost estimated at \$30,000.

September 26, 1933
Sub-Contracts Awarded.

RESIDENCE Cost, \$5000
SAN FRANCISCO—NE Market Street and Morgan Alley.

Two-story and basement frame and stucco residence.

Owner and Builder—T. R. Sharman, 3700 Broderick St., San Francisco.

Architect—Not Given.

Plumbing—F. Sasso, 3137 Scott St.

Plaster—E. Heywood, 1375 44th Ave.

Electric—W. Weindorf, 9 Pomona St.

Concrete—California Concrete Co., 1632 Steiner St.

Sub-contracts Awarded.

RESIDENCE Cost, \$6000
BERKELEY, Alameda Co., Cal. No. 2910-12 Telegraph Ave.

Two-story frame and stucco residence (7 rooms).

Owner—All. M. Yazdi, 1472 University Ave., Berkeley.

Architect—Wm. I. Garren, 233 Post St., San Francisco.

Contractor—W. A. Gegen, 2055 Santa Clara Ave., Alameda.

Lumber and Millwork—Swift Lumber Co., 340 29th Ave., Oakland.

Plumbing—Fazio Plumbing Co., 2059 Webster St., Oakland.

Roofing—Bay Cities Asbestos Co., 188 Tenth St., Oakland.

Painting—Geo. Goodman.

Sheetmetal—Dunn Sheetmetal Works, 6410 E. 14th St., Oakland.

Brickwork—Dorsh & Thomsen.

Concrete—Transit Concrete Co., 2500 Peralta St., Oakland.

Segregated Figures Being Taken.

RESIDENCE Cost, \$25,000
PIEDMONT, Alameda Co., Cal. On Sandringham Road.

Two-story frame and stucco residence English style with slate roof (12 rooms, 4 baths and 3-car garage).

Owner—F. W. Gibson.
Architect—Williams & Wastell, 374 17th St., Oakland.

Contractor—W. E. Lyons, 354 Hobart St., Oakland.

Bids Under Advsement.
RESIDENCE Cost, \$—
OAKLAND, Alameda Co., Cal. Merriwood Tract.
 Group of one-story frame residences (4 rooms each).
 Owner—Merriwood Syndicate Co., % American Trust Co., Oakland.
 Architects—Noble & Archie T. Newson, Russ Bldg., San Francisco.

Permit Applied For.
SWIMMING POOL AND BATH HOUSE Cost, \$5500
ATHERTON, San Mateo Co. Walsh Road.
 Swimming pool and bathhouse for residence.
 Owner—Dr. Louis D. Green, Walsh Road, Atherton.

Contract Awarded.
RESIDENCE Cost, \$8000
ATHERTON, San Mateo Co., Cal. Fair Oaks Lane and the Highway.
 Two-story frame and stucco Spanish style residence.
 Owner—John A. Sutton.
 Contractor—Weeden Bros., Menlo Park.

Permit Applied For.
RESIDENCE Cost, \$3000
ATHERTON, San Mateo Co., Cal. Walnut Avenue.
 One-story frame residence.
 Owner—Wm. Leggett, Atherton.
 Architect—Not Given.

Sub-Contracts Awarded.
RESIDENCE Cost, \$9000
SAN FRANCISCO. E. San Leandro Way 82 S Portola Drive, St. Francis Wood.
 stucco residence.
 Two-story and basement frame and Owner—L. W. Stocker, 425 Mason St., San Francisco.
 Architect—Masten & Hurd, 233 Post St., San Francisco.
 Contractor—Clinton-Stephenson Construction Co., 550 Montgomery St., San Francisco.
 Contractor—H. H. Larsen Co., 64 South Park, San Francisco.
Lumber: Loop Lumber Co., Central Basin, San Francisco.
Plumbing: I. D. Chadbourne, 424 Dewey Blvd., San Francisco.
Electrical Work: George A. Klingler, 1130 Munich St., San Francisco.
Tile Roof: C. L. Frost, Palo Alto.
 As previously reported, excavating by Devencenzi Bros., 150 Collins St., San Francisco.

Sub-Contracts Awarded.
RESIDENCE Cost, \$—
SAN MATEO, San Mateo Co., Calif. Baywood Park.
 One-story and basement frame and stucco residence (6 rooms and 2 baths), tile and composition roofing, hardwood floors, etc.
 Owner—Ernest Pierre.
 Architect—William H. Toepke and G. Hinterman, Associated, 74 New Montgomery St., San Francisco.
Lumber—Roth-Maier Co., 2800 Third St., San Francisco.
Rolling Screens—Soule Steel Co., 1750 Army St., San Francisco.
Electric—Atlas Electric Co., San Mateo.
 Other contracts will be awarded shortly.

To Be Done By Day's Work.
RESIDENCES Cost, \$5000 each
OAKLAND, Alameda Co., Cal. No. 3996 Oakmore Road and 3570 Jordan Road.
 Two one-story frame residences (5 rooms).
 Owner—Leo J. Dolan, 316 17th St., Oakland.
 Architect—Not Given.

Ready for Figures in Ten Days.
RESIDENCE Cost, \$8500
PIEDMONT, Alameda Co., Cal. Piedmont Plines.
 Two-story and basement frame and stucco residence.
 Owner—Wm. H. Green.
 Architect—Edwin L. Snyder, 2101 Addison St., Berkeley.

Contract Awarded.
RESIDENCE Cost, \$6000
BAYWOOD, San Mateo Co., Cal. Two-story frame and stucco residence
 Owner—S. Finneran.
 Architect—Not Given.
 Contractor—Geo. W. Williams Co., 315 Primrose Road, Burlingame.

Completing Plans.
RESIDENCE Cost, \$8500
BAYWOOD, San Mateo Co., Cal. Two-story frame and stucco Spanish style (8 rooms); tile roof, steel sash, brick chimney, gas hot air heat.
 Owner—Withheld.
 Architect—Chester H. Treichel, 679 Hadden Road, Oakland.
 Plans will be ready for figures in about 2 weeks.

Low Bidder.
RESIDENCE Cost, \$—
SAN FRANCISCO. Nineteenth Ave. 100 S Anza Street.
 Two-story and basement frame and stucco residence (11 rooms and 2 baths), tile roof, tiled baths and kitchen, hardwood floors and trim, hot water heating system or warm air fired boiler, etc.
 Owner—Minnie Cope, 1957 McAllister St., San Francisco.
 Architect—J. Floyd Conrich, 214 Ninth Ave., San Francisco.
 Low Bidder—Wm. Spivock, Hobart Bldg., San Francisco.
 Bids were taken under advisement.

Contract Awarded
RESIDENCE Cost, \$9,535.75
HEALDSBURG, Sonoma Co., Cal. One and one-half-story frame and stucco residence (7 rooms and 2 baths), shingle tile roofing, wood furnace, wood sash, hardwood floors, pine trim, etc.
 Owner—Raford Jones.
 Architect—William Herbert, Rosenberg Bldg., Santa Rosa.
 Contractor—Wm. Lindsay, Belmont Court, Santa Rosa.
 Other bidders were:
 Louis Halvorsen, Santa Rosa...\$ 9,598.00
 E. Ahlstrom, Santa Rosa..... 9,841.00
 E. A. Amlott 9,858.00
 G. W. Hansen, Santa Rosa... 10,116.70
 Winter & Heitz, Healdsburg.. 10,193.00
 W. H. Chaney 10,560.00

Sheet Metal and Plastering Contracts Awarded.
RESIDENCE Cost, \$12,000
ROSS, Marin Co., Cal.
 One-story and basement frame and brick veneer residence (6 rooms), redwood shake roof, oil hot air heating system, hardwood floors, bath, etc.
 Owner—Victo; E. Kleven.
 Architect—W. W. Wurster, 260 California St., San Francisco.
 Contractor—Young & Horstmeyer, 461 Market St., San Francisco.
Sheet Metal Work—Knoles Sheet Metal Works, Spaulding and Redhill Aves., San Anselmo.
Plastering—Geo. Frick, 836 Fulton St., San Francisco.
 As previously reported:
Plumbing—Geo. Shield Co., San Rafael.
Electrical Work—North Bay Electric Co., San Rafael.
Tile Work—Art Tile & Mantel Co., San Francisco.
Roofing—Marsh Shingle Roof Co., Oakland.

Date of Opening Bids Extended to Sept. 27, 12 Noon.
RESIDENCE Cost, \$10,000
SAN FRANCISCO. Nineteenth Ave. 100 S Anza Street.
 Two-story and basement frame and stucco residence (11 rooms and 2 baths), tile roof, tiled baths and kitchen, hardwood floors and trim, hot water heating system or warm air fired boiler, etc.
 Owner—Minnie Cope, 1957 McAllister St., San Francisco.
 Architect—J. Floyd Conrich, 214 Ninth Ave., San Francisco.
 Following will submit bids:
 L. Cohn, Russ Bldg.
 William Spivock, Hobart Bldg.
 C. O. Blincoe, 2663 15th Ave.
 Fred Anderson, 827 25th Ave.
 G. P. W. Jensen, 320 Market St.
 Fred H. Field, 2370 Sutter St.

Contract Awarded.
RESIDENCE Cost, \$3000
SAN FRANCISCO. W Connecticut St. 200 S 17th Street.
 One-story frame and stucco residence
 Owner—V. Albertazzi, 228 Connecticut St., San Francisco.
 Architect—Not Given.
 Contractor—R. Lino, 54 Stanton St., San Francisco.

Day's Work.
RESIDENCE Cost, \$4000
FRESNO, Fresno Co., Cal. 562 Vassar Street.
 One-story frame and stucco residence and garage.
 Owner—M. Manogran, 1505 Belmont St., Fresno.

15—SCHOOLS

ALAMEDA, Cal.—A plan is under way to call a bond election to replace two old wooden school buildings and for the erection of a new primary school building. Cost will be approximately \$550,000. Federal aid will be asked.

Preliminary Plans Awaiting Approval
GYMNASIUM Cost, \$36,000
SANTA ROSA, Sonoma Co., Cal.
 One-story frame and brick veneer gymnasium (171x235 ft.); seating capacity of 2200 (separate gymnasium for men & women, swimming tank, etc).
 Owner—Santa Rosa Junior College District (Floyd Bailey, Dean), Santa Rosa.
 Architect—Wm. Herbert, Rosenberg Bldg., Santa Rosa.

MODESTO, Stanislaus Co., Cal.—Modesto Board of Education has \$70,000 available for improvements on Junior College campus. A library building will be erected with the money if permission is obtained from the State Board of Equalization. W. C. Shackelford, president of board; John H. Bradley, superintendent of schools.

KENTFIELD, Marin Co., Cal.—Rettberg & Thompson, 567 Market St., San Francisco, at 545 submitted lowest bid to Ada M. Fusselman, secretary, Junior College Board, Marin Union College District, for a gas steam heating system in the Tamalpais Center Auditorium.
 Other bidders were:
 George A. Shields, San Rafael...\$697.00
 Ernest Ongaro, Fairfax 718.00
 Frederick Snook 725.00
 Clow Gas Steam Co., S. F..... 726.46
 J. A. Nelson, S. F..... 782.00
 Pacific Heating Co. (different type)1298.00
 Bids were taken under advisement.

Sub-Contracts Awarded .
ADDITION Cost, \$2800
SAN FRANCISCO. E Alabama St., bet. 24th and 25th Sts.
 Addition to school.
 Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.
 Architect—Martin J. Rist, 944 Phelan Bldg., San Francisco.
 Contractor — Moore & Roberts, 693 Mission St., San Francisco.
Plumbing — J. E. O'Mara, 2720 McAllister Street.
Heating—John Carmody, 1109 Potrero Avenue.
Plastering—Patt & Lynch.
Lumber—Smith Lumber Co., 4th and Channel Sts.
Mill Work—National Mill & Lumber Co.
Window Hardware—Dalmo Sales Corp. 511 Harrison St.
Ornamental Iron—Kern & Son, 517 Sixth St.
Electric Work—Dowd-Seid Co., 2118 Mission St.
Roofing—Alta Roofing Co., 976 Indiana Street.

BAKERSFIELD, Kern Co., Cal.—Kern County Union High School District has applied to the Public Works Administration for a loan of \$300,000 to be used for financing the construction of a new auditorium building in Bakersfield. The district also proposes erecting a new \$100,000 classroom building at the high school, this structure to be financed out of cash balance. Chas. H. Biggar, Haberfelde Bldg., Bakersfield, is the architect for both projects.

Prospective Bidders.
SCHOOL Cost, \$—
FORT JONES, Siskiyou Co., Cal.
 One-story wood frame fireproof grammar school (3 classrooms) concrete foundations, cement stucco exterior, etc.
 Owner—Fort Jones Union Elementary School District.
 Architect—Starks & Flanders, Forum Bldg., Sacramento.
 The following have secured plans:
 J. P. Brennan, Redding.
 Azevedo & Sarmiento, 920 O St., Sacramento.
 Charles F. Unger, 4532 T St., Sacramento.
 D. M. Reid, Yreka.
 Sig Ash, Medford, Oregon.
 J. W. Anderson, Mt. Shasta.
 Bids will be received by W. D. Mathews, President School Board, until Sept. 30, 7:30 P. M.
 Plans and specifications obtainable from the Architect upon deposit of \$10.

RENO, Nevada—Bids will be received until October 2, 7:30 P. M., by J. D. Cameron, Clerk of the Board of Reno School District No. 10, for repairing Southside Grade School.
 Separate bids will be received Oct. 5, 7:30 P. M., for fire escapes for the same building. Certified check of 10% required. Plans obtainable from Superintendent's office at the High School.

Plans Being Figured—Bids Close Oct. 11, 7 P. M.
SCHOOL BLDG. Cost, \$3000
COALINGA, Fresno Co., Cal. Sun-set School Site.
 One-story frame and stucco kindergarten with patent shingle roof.
 Owner—Board of Trustees, Coalinga Grammar School District.
 Architect — W. D. Coates Jr., 626 Rowell Bldg., Fresno.
 Plans may be obtained from Anne E. Cheney, Clerk of the High School Board, or from the architect. A certified check of 10% is required.

Plans Being Figured—Bids Close Oct. 11, 7:30 P. M.
SCHOOL Cost, \$15,000
COALINGA, Fresno Co., Cal. Present High School Site.
 One-story reinforced concrete Junior College Building (3 rooms); tile roof.
 Owner—Board of Trustees of Coalinga Union High School District.
 Architect — W. D. Coates Jr., 626 Rowell Bldg., Fresno.
 Bids are being taken for a general contract and for plumbing and heating. Plans may be obtained from the Clerk of the Board at the High School Coalinga, or from the architect's office. A certified check of 10% required.

16—BANKS, STORES AND OFFICES

Work Under Way.
ALTERATIONS Cost, \$12,005
SAN FRANCISCO. North Chestnut and East Pierce.
 One-story and mezzanine reinforced store (3 stores), black tile and aluminum modernistic front.
 Owner—A. J. Romey & Son, 1686 Haight St., San Francisco.
 Architect—S. Heiman, 605 Market St., San Francisco.
 Contractor—J. S. Malloch, 666 Mission St., San Francisco.
 Sub-bids will be called for shortly.

Completing Plans.
STORES Cost, \$—
SAN FRANCISCO. 626 Market St.
 Interior finish for stores.
 Owner—Crocker Estate, 525 Crocker Bldg., San Francisco.
 Architect—Kent & Haas, Underwood Bldg., San Francisco.
 Bids will be called for shortly for interior fixtures. Work for the store front alterations will be done by day's labor by the owner.

To Be Done By Day's Work.
ALTERATIONS Cost, \$4000
SAN FRANCISCO. No. 626 Market Street.
 Alterations to store (new store fronts, etc.); marble work, sash and glass electrical work, painting, etc.
 Owner—Crocker Estate, 525 Crocker Bldg., San Francisco.
 Architect—Kent & Haas, Underwood Bldg., San Francisco.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$3000
OAKLAND, Alameda Co., Cal. No. 1907 Broadway.
 Alterations to jewelry store.
 Owner—Albert M. Samuels, 1607 Grand Ave., Oakland.
 Architect—Albert J. Evers, 525 Market St., San Francisco.
 Agent—Coldwell, Cornwall & Banker, Financial Center Bldg., Oakland.
 Contractor—Wilbur Cone, 1605 Jefferson St., Oakland.
Marble: Ray Cook Marble Co., 1535 Powell St., Oakland.
Plumbing: Carl Doell, 3230 Lakeshore Blvd., Oakland.
Electric Work: Scott Butner Electric Co., 19 Grand Ave., Oakland.
Steel: Herrick Iron Works, 18th and Campbell, Oakland.
Mill Work: Oakland Planing Mill, Inc., 2nd and Washington, Oakland.
Plastering: W. Makin, 2141 Livingston, Oakland.

Plans Being Figured — Bids Close October 2, 12 Noon.
STORE Cost, \$50,000
EUREKA, Humboldt Co., Cal. Fourth and F Streets.
 One-story, mezzanine floor and basement reinforced concrete store building (24,500 square feet of floor space).

Owner—Domingo A. Zanone.
 Plans by Engineering Dept. of Montgomery Ward & Co., Chicago.
 Lessee — Montgomery Ward & Co., Chicago.
 Bids are being taken for a general contract with separate bids for plumbing, heating, ventilating and electrical work. Selected list of general contractors follow:
 Cahill Bros., 206 Sansome St., San Francisco.
 H. H. Larsen Co., 64 South Park, San Francisco.
 Lindgren & Swinerton, Inc., 225 Bush St., San Francisco.
 K. E. Parker Co., 135 South Park, San Francisco.
 Mercer-Fraser Co., Second and Commercial Sts., Eureka.

Contract Awarded.
STORE Cost, Approx. \$30,000
SAN MATEO, San Mateo Co., Cal.
 Three-story reinforced concrete store building (50x100 ft.), slate and composition roof, warm air heating system, oak floors, plate glass etc.
 Owner—Gladys D. Layton.
 Architect — Gardner Dailey, 210 Post St., San Francisco.
 Contractor — H. H. Larsen Co., 64 South Park, San Francisco.
 Heating contract will be awarded by owner.

Contracts Awarded.
REBUILD STORE Cost, \$15,000
TURLOCK, Stanislaus Co., Cal. Main and Center Streets.
 Rebuild one-story brick store (recently destroyed by fire); plate glass, maple flooring, tile work, tile and composition roof.
 Owner—E. B. Osborne, Turlock.
 Architect—G. N. Hilburn, 1312 I St., Modesto.

General Work
 Niel & Wirtner, 322 Myrtle St., Turlock, approx. \$11,000
Electrical Work
 Hansen's, Modesto, approx. 800
Painting
 John O'Hea, 127 Columbia St., Turlock, approx. 400
 Contract Awarded.
STORES & OFFICES Cost, \$9000
PORTERVILLE, Tulare Co., Cal. Main and Oak Streets.
 One-story reinforced concrete Spanish style stores and office building (37x126 feet).
 Owner—Ackerman Estate.
 Architect—Not Given.
 Contractor—H. A. Murphy, Porterville.

18—WHARVES & DOCKS

OAKLAND, Alameda Co., Cal.—Until October 3, bet. 7:30 and 8:30 P. M., bids will be received by R. W. Robertson, Secretary of the Board of Playground Directors, City of Oakland for building tennis courts in Aithol laza and for fencing same. Spec. on file at Room 315, City Hall.

SAN LUIS OBISPO COUNTY—Until October 3, at 2 p. m., bids will be received by H. W. Rhodes, superintendent of Lighthouses, Room 424, Custom House, San Francisco, under Proposal No. 620 to construct landing dock, San Luis Obispo Light Station, San Luis Obispo Bay, California.

The work involves: (1) Removing portion of old wharf from outer end, a distance of approximately 59 ft. Lumber removed from old dock to be salvaged as far as found serviceable; (2) constructing new landing dock in accordance with specifications. Alternate bids are to be received as follows:
 (A) Furnishing all labor, plant,

equipment, materials and supplies necessary to complete the work.

(B) Alternate quotation same as above, except Lighthouse Service to transport at its own expense all materials, including portable knockdown piledriver to site of work either from San Francisco or San Pedro and upon completion of work to return all contractor's equipment to point from which received. Transportation service limited to a single trip and to be at contractor's risk.

Plans and specifications obtainable without deposit from above office.

SAN FRANCISCO, Calif. — Meyer Bros., 727 Portola Drive at \$10,996 awarded contract by B. P. Lamb, sec. Park Commissioners, Park Lodge, Golden Gate Park, for constructing concrete parapet walls, concrete curbs and concrete seats on recreation pier, Aquatic Park, at foot of Van Ness Ave., San Francisco.

Other bidders follow:

D. DeLucchi & Son, S. F.	\$11,780
Monson Bros., S. F.	13,350
Anderson & Ringrose, S. F.	13,947
Eaton & Smith, S. F.	14,185
Young & Horstmeyer, S. F.	14,300
H. A. Howkins & Co., S. F.	16,690
Bay Improvement Co., S. F.	16,750
F. C. Amoroso & Son, S. F.	17,593
Healy-Tibbitts Co., S. F.	18,817
E. J. Treacy, S. F.	19,755
P. L. Burr, S. F.	19,900
M. J. Lynch, S. F.	20,000
C. L. Harney, S. F.	21,500
Herman Lawson Co., S. F.	21,850

19—MISC. CONSTRUCTION

OAKLAND, Alameda Co., Cal. — J. H. Fitzmaurice, 2827 Hannah St., Oakland, awarded contract at \$2236 by Playground Directors for surfacing tennis courts in Lakeside Park.

Plans Being Figured—Bids Close Oct. 12, Noon.

CROSS Cost, \$21,000
SAN FRANCISCO, Mt. Davidson.
 Reinforced concrete Cross, 100 feet high (500 cu. yds. concrete).
 Owner—Golden Gate Park Commission (For Sunrise Easter Service Committee).

Architect — George W. Kelham, 315 Montgomery St., San Francisco.
 Engineer — H. J. Brunner, Sharon Bldg., San Francisco.

Plans may be obtained from the architect's office on deposit of \$25. (certified check).

FRESNO, Fresno Co., Cal. — The Fresno Chamber of Commerce, has been instructed by Capt. Rees Skinner of the U. S. M. C. acting assistant quartermaster at Fresno, to ask for bids for lumber, mill work, building paper, roofing felt, floor covering, plumbing, water heating and sheet metal materials, electric fixtures.

These materials will be necessary for re-locating Kramer Meadows and Quaking Aspen Meadows camps for the winter.

Completing Plans.

CREAMERY Cost, \$200,000
SAN FRANCISCO, Sixteenth and Shotwell Streets.
 Group of two-story reinforced concrete creamery buildings.

Owner—New Organization headed by W. F. Cordes, 126 Post St., San Francisco.

Architect—O'Brien Bros. and W. D. Peugh, 333 Montgomery St., San Francisco.

Preparing Plans.

SWIMMING POOL Cost, \$—
KEDDIE, Plumas Co., Cal. (Feather River).

Reinforced concrete swimming pool, (60x100 feet).

Owner—Piedmont Boy Scouts (E. J. Sweetland), 11 Glen Alpine Road, Piedmont.

Architect—Noble and Archle T. Newsum, Russ Bldg., San Francisco.

SACRAMENTO, Cal. — Following bids received Sept. 18, by U. S. Engineer's Office at Sacramento under invitation No. 5725 for electrical fixtures and supplies: (1) junction box covers, etc.; (2) plug receptacles, deck flanges, etc.; (3) copper wire and conduit; (4) blank steel covers; (5) high tension cable (75 feet).

C. H. Carter Co., 1817 8th St., Sacramento (1) \$135.18, (2) \$86.80, (3) \$86.80, (4) \$4.37, (5) \$6.37; 1 day.

General Electric Sup. Corp., 1201 Bryant St., San Francisco (1) \$119.12, (2) \$83.96, (3) \$28.69, (4) \$4.37, (5) \$6.37; 4 and 2 days.

Graybar Electric Co., Inc., 100 9th St., San Francisco (1) \$145.38, (2) \$—, (3) \$31.59, (4) \$4.65, (5) \$2.62; 1 day.

Westinghouse Electric Sup. Co., 260 5th St., San Francisco (1) \$13655, (2) \$95, (3) \$28.69, (4) \$4.37, (5) \$2.74; 3 days.

Marine Electric Co., 195 Fremont St., San Francisco (1) incomp., (2) \$77.70, (3) \$—, (4) \$—, (5) \$—; 3 days.

The Electric Corp., 145 Ninth St., San Francisco (1) incomp., (2) \$—, (3) \$28.69, (4) \$4.65; 1 day.

ALAMEDA, Cal.—The City Clerk of Alameda has been authorized to call for bids for the construction of a double tennis court in Franklin Park.

SAN FRANCISCO—Following bids received by the San Francisco Board of Public Works for repairs to wire fence at the Gas Station, 15th and Harrison streets.

Kamlan Fence Co., 351 Bryant St. San Francisco, \$41.23.

Anchor Post Fence Co., San Francisco, \$41.25.

Michel & Pfeffer Iron Works, San Francisco, \$55.

C. J. Waterhouse Co., San Francisco, \$65.

BERKELEY, Alameda Co., Cal.—Anchor Post Fence Co., 460 5th St., San Francisco at \$1583 awarded contract by Berkeley Board of Education for galvanized wire mesh fence at the site of the gymnasium at the Burbank High School.

SAN FRANCISCO, Cal. — Golden Gate Iron Works, 1541 Howard St., San Francisco, at \$1089 submitted low bid to the U. S. Forest Service, Ferry Building for furnishing one 75-foot steel truss span.

Following is a complete list of bids: Golden Gate Iron Works, S. F. \$1089
 Schrader Iron Works, S. F. 1140
 Western Iron Works, S. F. 1196
 Independent Iron Works,

Oakland	1222
Herrick Iron Works, Oakland	1372
Judson-Pacific Co., S. F.	1381
McClintic-Marshall Co., S. F.	1400
Moore Dry Dock Co., Oakland	1598
Minneapolis Steel & Machine Co., San Francisco	1821

Bids are held under advisement.

EUREKA, Humboldt Co., Cal. — Contracts have been awarded by Capt. Joe S. Underwood, District Quartermaster of the Civilian Conservation Corps in the Eureka District for lumber, plumbing, electrical supplies, etc., in connection with the reconstruction of camps for the winter. List of awards are on file in the office of the DAILY PACIFIC BUILDER for interested parties.

WEST LOS ANGELES, Calif.—Grinnell Co., of the Pacific, 520 Mateo St., Los Angeles, awarded contract at \$33,325 by Supervising Superintendent of Construction, Veterans' Administration, Fort Miley, for furnishing and installing automatic wet pipe fire sprinkling system in warehouse and shop building at the Veterans' Administration Facility, West Los Angeles.

SPOKANE, Wash. — Johnson Bros., Inc., Boyd Bldg., Seattle, submitted low bid, at \$79,200, to the Spokane Hangar Commission for the construction of a hangar to be erected at Felt Field. J. G. Hallin of Spokane submitted the next lowest bid at \$81,845.

SANTA CRUZ, Cal.—Santa Cruz City School Directors have instructed Superintendent C. Ray Holbrook to investigate possibility of constructing five tennis courts on a deferred payment plan.

SAN FRANCISCO, Cal.—I. L. Goldman (Globe Wrecking Co., 201 North Wells St., Chicago, Ill.), at \$11,116 awarded contract by Purchasing Officer, Ninth Corps Area, Presidio, San Francisco, to wreck seventy buildings at Mather Field, 13 miles east of Sacramento. Approximately 3,000,000 board feet of lumber involved. Structures include airplane hangars and barracks and all miscellaneous buildings appertaining to the field.

SACRAMENTO, Cal.—Following bids received by State Architect's Office for re-roofing portion of State Armory in Sacramento. Lowest bid was submitted by Bush Roofing Co., 1912 "K" St., Sacramento.

Bush Roofing Co., Sacramento, \$849; add for copper flashings, \$125.

Capital Roofing & Supply Co., Sacramento, \$874.32; add for copper flashings, \$197.

San Joaquin Lumber Co., Sacramento, \$923; add for copper flashings, \$163.

F. A. Clark Roofing Co., Sacramento, \$952; add for copper flashings, \$145.

Allyn L. Burr Co., Sacramento, \$980; add for copper flashings, \$260.

SAN FRANCISCO—B. J. Doherty, 1725 Church St., at \$325 awarded contract for electrical work in the new Police Station on Eddy Street, between Van Ness Ave. and Polk St. Informal bids were taken on this job.

SAN FRANCISCO — Kamlan Fence Co., 351 Bryant St., at \$41.23 awarded contract by San Francisco Board of Public Works for repairs to wire fence at the Gas Station, 15th and Harrison Streets.

1st report Sept. 22, 1933.

COALINGA, Fresno Co., Cal.—The Coalinga High School District Board of Trustees have discussed the application of a loan of \$50,000 from the Federal Public Works Funds for the construction of a modern swimming plunge and the improvement of the lighting of the tennis courts. The voting of a bond issue will be further discussed at the meeting of the Board on October 11th. W. D. Coates Jr., Rowell Bldg., Fresno, is the architect for the high school and grammar school.

SAN FRANCISCO — Golden Gate Iron Works, 1541 Howard St., San Francisco, at \$1089 awarded contract by the U. S. Forest Service, Ferry Bldg., for furnishing one 75 ft. steel truss span.

Being Done by Day's Labor.
ALTERATIONS Cost, \$3000
FERRY BUILDING, San Francisco.
 Alter waiting room of Key Route.
 Owner—State Board of Harbor Commissioners, San Francisco.
 Architect—Engineer Frank G. White, Ferry Bldg., San Francisco.
 Marble work awarded to J. E. Back Co., Inc., 1533 San Bruno Ave., San Francisco.

MARE ISLAND, Cal.—Until October 6, 11 a. m. (postponed from September 27), bids will be received by Public Works Officer, U. S. Navy Yard, Mare Island, for furnishing and installing oil tanks on a concrete platform, all supported on a pile foundation, including, earth fill berm, asphalt macadam lined oil basin, pump house with pit, pumps, purifier, piping and electric wiring, at the Diesel Oil Purification Plant, Submarine Repair Base, U. S. Navy Yard, Mare Island. Spec. No. 7416. Specifications obtainable from Commandant, Navy Yard, Mare Island, upon deposit of \$10.00.

A list of the prospective bidders was reported in the issue of Sept. 13. 1st report Sept. 5; 5th Sept. 22, 1933.

SPOKANE, Wash.—Until October 4, 2 P. M., new bids will be received by the Spokane Hangar Commission for the construction of a hangar at Felts Field. Bids were recently rejected as being too high. Two lowest bids were as follows: Johnson Bros., Inc., Boyd Bldg., Seattle, \$79,200 and J. G. Halin, Spokane, \$81,845.

SACRAMENTO, Sacramento Co., Cal.—Campbell Construction Co., 800 "R" St., Sacramento, at \$8460 submitted lowest bid to Chas. C. Hughes, secretary of Board of Education of City of Sacramento, for yard work, grading, etc., for junior high school on SW corner Vallejo Way and Land Park Drive.

Complete bids follow:
 Campbell Construction Co., Sacramento, \$8460; for covering add \$1500.
 J. R. Reeves, Sacramento, \$9125; for covering add \$1850.

CRESCENT CITY, Del Norte Co., Cal.—Lloyd C. Byrne of this city was appointed as construction superintendent for the work of improving the Gasquet C. C. C. camp headquarters and barracks buildings for the winter by order of Capt. Joe S. Underwood, district quartermaster.

Bids for the various supplies for the Gasquet camp were let as follows:

Lumber, millwork, roofing paper, electrical supplies and heating stoves, Hobbs, Wall & Co., \$1500, \$240, \$495, \$75 and \$300; hardware, H. H. Buhne Co., \$75; and plumbing, Thos. Warren, \$125. Total, \$2840.

LOS ANGELES, Cal.—Pacific System Homes, 5800 S. Boyle Ave., Los Angeles, submitted the low bid to the Metropolitan Water District on September 25 at \$30,879.15 for constructing twelve frame building at Division 1 Headquarters, San Bernardino Co., about 15 miles northeast of Earp. The bid follows:

Pacific System Homes, (1) office building, \$5042.60; (2) 20-man dormitory, \$5869.55; (3) 12-car garage and shop, \$1163.70; (4) warehouse, \$813.70; (5) 4-man messhall, \$2107.95; (6) lodge, \$3608.85; (7) 5-room dwelling, \$2429.40; (8) three 4-room dwellings, \$7224.30; (9) cancelled; (10) sewer and water supply systems, \$2022.90; (11) gas distribution system, \$595.20; (12) total, \$30,879.15.

Sub-Contracts Awarded
RECREATION BLDG. Cost, \$6500
SAN FRANCISCO. No. 229 Minna St.

Recreation building for St. Patrick's Shelter (steel frame Class C brick construction).

Owner—St. Patrick's Shelter (Mon. Ryan in charge).

Architect—Arnold Constable, 580 Market St., San Francisco.

Contractor—Albert Nelson, 242 Ocean Ave., San Francisco.

Structural Steel: Western Iron Works, Mill Work; National Mill.

Painting: Emil Peterson.

Reinforcing Steel: Pioneer Constr. Co. Steel Windows; Soule Steel Co.

Lumber: Allen & Dettman Lumber Co., 2000 Evans Ave.

Plumbing: J. A. Black.

Electrical Work: Tattenham Electric Co.

Sheet Metal Work: Morrison & Co.

Plastering, Brick Work and Carpentry: By day's labor.

20—MISC. SUPPLIES AND MATERIALS

REDDING, Shasta Co., Cal.—Following is a list of the low bidders for materials for reconstruction of four Redding district C. C. C. Camps for occupancy during the winter months, as announced by Captain George Fruit, district quartermaster:

Hackamore Camp—J. J. LeFebvre, nails, hardware, screening, electrical materials; Pit River Lumber Company, lumber; Diamond Match Company, doors, sashes, millwork.

Hilt Camp—LeFebvre, nails, hardware, screening, electrical materials, plumbing and water heating; Algoma Lumber Company, Montague, doors, sashes, millwork; Fruit Growers' Supply Company, Hilt, lumber.

Oak Knoll Camp—LeFebvre, same as for Hilt Camp and for lumber.

Castella Camp—LeFebvre, same as Hackamore Camp; Diamond Match Company, lumber, plumbing, water heating; Long Bell Sales Corporation, doors, sashes, millwork.

YANKEE HILL, Butte Co., Cal.—Major W. W. Drummy, commanding officer at Yankee Hill C. C. C. Camp, has issued a call for bids for material to be used to construct a winter camp on Yankee Hill. There will be housing accommodations for 200 men and officers.

SONOMA COUNTY, Cal.—Until October 5, 1 P. M., bids will be received by Quartermaster, Eureka District C. C. C., 306 B Street, Eureka, for furnishing materials to enlarge and reconstruct tent camp located at Annapolis, Sonoma County. Material to be purchased includes lumber, nails, hardware, screening, doors, sash and mill work, building paper, roofing felt, floor covering, plumbing, water heating, sheet metal and electrical materials.

Buildings to be erected include barracks, kitchen and mess, administration quarters, infirmary, foresters building, latrines, clothes drying building, cooler house, wash and shower.

SANTA CLARA COUNTY, Cal.—Bids received by Division of Highways, Burlingame, W. F. Holbrook, maintenance superintendent, for rental on one 1/2 cu. yd. gasoline power shovel to be used in Santa Clara County as follows:

Jack Casson, Hayward, \$23; Lance & Kooser, San Jose, \$24; Westover & Steele, Hayward, \$25; Garcia Constr. Co., Irvington, \$32; Pacific Truck Service, San Jose, \$35; Johnson & Nelson, San Anselmo, \$41.

SAN FRANCISCO—Western Pipe & Steel Co., 444 Market St., San Francisco, at approximately \$6381.24 awarded contract by the Regional Forester,

U. S. Forest Service, Ferry Bldg., for furnishing 5630 ft. corrugated galvanized metal pipe culverts of various diameters and band couplers for same. Only other bidder, California Corrugated Culvert Co. at \$6958.

WASHINGTON, D. C.—Bids are wanted until dates indicated by the Bureau of Supplies and Accounts, Navy Dept., Washington, for miscellaneous supplies for navy yards and stations:

For East and West yards, 4000 lbs. dry green chrome; Mare Island, 18,000 lbs. do, and 7500 lbs. dry yellow chrome; sch. 719, bids Oct. 3.

For Mare Island 910 vacuum tubes; Mare Island, 2800 do; Mare Island, 3220 do; Mare Island, 4550 do; Mare Island, 2170 do; Mare Island, 1120 do; sch. 729, bids Oct. 3.

For Mare Island, 8000 ft. linen fire hose, 2 1/2-in.; sch. 732, bids Oct. 3.

For Puget Sound, 1 ton hydraulic bolt forces; sch. 741, bids Oct. 3.

For Puget Sound, steam siren; sch. 742, bids Oct. 10.

For East or West yards, 10,000 gals. paint thinner, volatile mineral spirits; sch. 736, bids Oct. 3.

For Eastern and Western yards, electric water heaters and tanks and spares; sch. 750-R, bids Sept. 29.

For Puget Sound, 4 centrifugal ventilating sets and spares; sch. 746, bids Oct. 3.

For Puget Sound, 50 electric ventilating fans and spares; sch. 745, bids Oct. 3.

For East or West yards, 340,000 lbs. dry zinc oxide; sch. 737, bids Oct. 3.

For Mare Island, carbon and high speed twist drills; sch. 747, bids Oct. 10.

For Mare Island, 50 portable electric drills; sch. 748, bids Oct. 10.

For Eastern and Western yards, electric driven winches and spares; sch. 716, bids Sept. 29.

For Puget Sound, 12,510 lbs. naval brass, sheet, 4950 lbs. commercial brass and approximately 11,000 lbs. sheet copper; sch. 757, bids Oct. 6.

For Puget Sound, 12,175 lbs. medium steel, black, and 43,150 lbs. do; sch. 756, bids Oct. 6.

For Mare Island, 6000 diatomaceous earth blocks; sch. 755, bids Oct. 6.

For Mare Island, 8 pneumatic drills, Sch. 753, bids Oct. 6.

Seamless steel tubing; sch. 698-R, bids postponed from Sept. 19. to Sept. 26.

For Mare Island, 2500 ft. flexible bronze steam hose; sch. 765, bids Oct. 10.

For Mare Island, 300,000 lbs. petroleum-residuum; sch. 760, bids Oct. 10.

For Mare Island, 5000 gal. turpentine; sch. 758, bids Oct. 10.

For Mare Island, sch. 254, lot 1572, castor oil, original date of opening June 27; supplemental bids Oct. 6.

For Puget Sound, conduit breaker; sch. 773-R, bids Oct. 8.

For San Diego, 1 gasoline engine, 200-horsepower, and spares; sch. 767-R, bids Sept. 29.

For Eastern and Western yards, electric drinking fountains and refrigerators; sch. 761, bids Oct. 10.

For Mare Island, 50,000 lbs. magnesium-silicate and 26,000 lbs. manganese resinat; sch. 759, bids Oct. 10.

LOS ANGELES, Cal.—The Los Angeles Water and Power Commission has authorized A. J. Holm, Los Angeles city purchasing agent, to award contracts for furnishing cable under Specifications No. 3201 as follows:

Habirshaw Cable & Wire Co., item (1) \$8160.
 John A. Roebblings Sons Co., item (2) and (6) at \$11,275.
 General Cable Co., items (3), (4) and (5) at \$11,001.

The bids were opened September 15.

SACATON, Ariz.—Until October 5, bids will be received at Pima Indian Agency, Sacaton, Ariz., by United State Department of Interior for furnishing 530 pieces Oregon Pine or Fir; 4000 pieces Redwood lumber; various items of corrugated galvanized iron pipe.

SAN FRANCISCO, Cal.—Following bids received by T. A. Brooks, purchasing agent, 270 City Hall, to furnish loam, manure, sand and tanbark for the Recreation Department for term Nov. 1, 1933, to Oct. 31, 1934.

- (A) D. H. Gallagher & Co.
 - (B) Eclipse Lime & Cement Co.
 - (C) F. X. Lehner.
 - (D) Devencinzi Bros. & Co.
 - (E) L. Devencinzi & Co.
 - (F) Hyman Rosenberg.
- | | | | | | |
|-------------------------|-------------------------------|----------------------------|-------------------------------|------------|------------|
| (1) 7500 cu. yds. loam; | (2) 2300 cu. yds. cow manure; | (3) 1500 cu. yds. tanbark; | (4) 400 cu. yds. sand, white. | | |
| (A) \$2.00 | (B) \$2.00 | (C) \$1.59 | (D) \$1.74 | (E) \$1.75 | (F) \$1.75 |
| (1) 2.85 | (2) 2.85 | (3) 4.00 | (4) 2.75 | (5) 4.15 | (6) 3.00 |
| (1) 6.90 | (2) 6.90 | (3) 4.00 | (4) 2.75 | (5) 4.15 | (6) 3.00 |

REDDING, Shasta Co., Cal.—Following contracts awarded by Capt. Geo. E. Fruit, District Quartermaster of Redding District, for six C. C. C. camps for winter occupancy were as follows:

Camp Big Springs F-17

J. J. LeFebvre & Sons, Redding, nails, hardware, screening, etc., electrical materials; Dallman Supply Co., Sacramento, building paper, roofing felt, etc.; Pitt River Lumber Co., Nubieber, lumber; Diamond Match Co., Chico, doors, sash and millwork, plumbing, water heating, etc.

Camp Sims F-24

McCormick-Saeltzer Co., Redding, building paper, roofing felt, etc.; J. J. LeFebvre & Sons, Redding, nails, hardware, screening, etc., electrical materials; Diamond Match Co., Chico, lumber, plumbing, water heating, etc.; Long-Bell Lumber Sales, Weed, doors, sash and millwork.

Harrison Gulch F-32

McCormick-Saeltzer Co., Redding, building paper, roofing felt, etc.; J. J. LeFebvre & Sons, Redding, nails, hardware, screening, etc., electrical materials; Diamond Match Co., Chico, lumber; Diamond Match Co., Chicago, doors, sash and millwork, plumbing, water heating, etc.

Camp Clear Creek F-24

J. J. LeFebvre & Sons, Redding, nails, hardware, screening, etc., plumbing, water heating, etc., electrical materials; Dallman Supply Co., Sacramento, building paper, roofing felt, etc.; Algoma Lumber Co., Montague, doors, sash and millwork; Fruit Growers Supply Co., lumber.

Camp Callahan F-12

J. J. LeFebvre & Sons, Redding, nails, hardware, screening, etc., plumbing, water heating, etc., electrical materials; Dallman Supply Co., Sacramento, building paper, roofing felt, etc.; Algoma Lumber Co., Montague, lumber.

Camp Whitmore P-203

McCormick-Saeltzer Co., Redding, building paper, roofing felt, etc.; J. J. LeFebvre & Sons, Redding, nails, hardware, screening, etc., electrical materials; Diamond Match Co., Chico, lumber, doors, sash and millwork, plumbing water heating, etc.

Work Starts Soon

Work on the above projects is expected to be under way by the 1st of October. Work will be done by civilian labor as far as is possible.

WASHINGTON, D. C.—Until October 4, 10:30 a. m., bids will be received under Schedule No. 2905 by General

Purchasing Officer, Washington, D. C., for furnishing 800,000 gallons gasoline, U. S. Government motor grade, in bulk (600,000 gallons to be delivered at Balboa and 200,000 gallons at Cristobal, C. Z.)

OAKLAND, Alameda Co., Cal.—Until October 6, 2 P. M., bids will be received by Frank Hayne, Supply Officer, U. S. Department of Agriculture, Forest Service Supply Depot, Government Island, Oakland, under Bid No. 501 for furnishing:

400 steel stamps "F.S." 3/16" letters, band cut and properly tempered for use in stamping wood or metal.

INYO COUNTY, Cal.—The following bids were opened at March Field September 14 for materials to be used at C. C. C. camp in Lone Pine canyon for winter quarters. The largest bid, for that of lumber, was awarded to Lone Pine Lumber and Supply Co., Lone Pine, Cal.

Lumber: Lone Pine Lumber and Supply Co., \$4617; Hammond Lumber Co., \$4653; Patten-Blinn Lumber Co., \$4780.

Hardware: Lone Pine Lumber and Supply Co., \$368; Hammond Lumber Co., \$371; California Hardware Co., \$376.35. Sashes and doors: Patten-Blinn Lumber Co., \$645; Lone Pine Lumber and Supply Co., \$647; Hammond Lumber Co., \$653.

Roofing paper and felts: Hammond Lumber Co., \$757.60; Lone Pine Lumber Co., \$760; Souver Crup of San Bernardino, \$381.95; Patten - Blinn Lumber Co., \$1200.

CANAL ZONE.—Until October 6 bids will be received by General Purchasing Officer, Panama Canal, Washington, D. C., under Schedule 2904 for furnishing 3500 ft. cast iron soil pipe, malleable iron pipe fittings, galvanized flanges, 900 malleable iron unions, brass or bronze pipe fittings, 84 range boilers, 500 garbage cans, 500 can covers, 1 bronze propeller, 5000 lbs. pig tin, 3018 fire bricks, 50,000 lbs. calcium carbide, 30,000 lbs. calcium chloride, 50,000 lbs. quicklime, 24 lavatories, 24 do, 12 cast iron lavatories, 24 water closets, 240 water closet seats, 24 do, 12 laundry tubs, 36 kitchen sinks, 6 slop sinks, 350 shower heads, 200 ball cocks, 24 gate valves, 456 gate valves, 310 globe valves, 1000 rolls asphalt - prepared roofing, 200 rolls tarred felt roofing, 200 rolls asphalt-saturated rag felt, 500 rolls rosin sized paper, 5000 lbs. flour, 3660 boxes carbon paper, 160,000 ft. California redwood lumber, 2000 ft. poplar, 3000 ft. white or sugar pine lumber, 2000 ft. maple lumber, 1000 ft. hickory lumber, 25,000 ft. cypress lumber and 16,000 ft. white ash lumber.

MARYSVILLE, Cal.—Until October 2, at 10 a. m., bids will be received by Headquarters, Marysville District, C. C. C., Office of the District Quartermaster, Marysville, under Specification No. 5907 for building materials to be used in constructing camps.

Materials to be purchased include lumber, nails, hardware, screening, doors, sash and mill work, building paper, roofing felt, floor covering, plumbing, water heating, sheet metal, electrical materials to be delivered at the following sites:

Middle Creek, F-34, Mendocino National Forest, situated 9 miles northwest of Upper Lake on Elk Mountain-Hullville road, and is 34 miles from Ukiah;

Cohasset, F-193, Lassen National Forest, situated 18 miles from Chico on the Chico-Campbellville road;

Concow, F-199, Lassen National Forest, situated 23.4 miles from Croville on Oroville-Yankee Hill road on

Concow Creek; Little Giant, F-200, Lassen National Forest, situated 29.2 miles from Red Bluff-Paynes Creek-Susanville road.

Specifications obtainable from above, Capt. Patrick Kelly, District Quartermaster, and on file at the office of DAILY PACIFIC BUILDER.

HUMBOLDT COUNTY, Cal.—Until October 3, at 1 p. m., bids will be received by Quartermaster, Eureka District C. C. C., 306 B St., Eureka, Cal., for furnishing building materials under Specification 5904 to be used in constructing Prairie Creek C. C. C. camp.

Materials to be purchased include lumber, nails, hardware, screening, doors, sash and mill work, building paper, roofing felt, floor covering, plumbing, water heating and sheet metal materials, electrical materials, outside water system (3000 gal. redwood tank, pipe and fittings).

Specifications obtainable from above office, Capt. Joe S. Underwood, District Quartermaster, and on file at office of DAILY PACIFIC BUILDER.

SAN FRANCISCO — U. S. Forest Service, Ferry Bldg., awarded contract to Eureka Stove Co., San Francisco, for twenty-five cast iron stoves and the balance awarded to Graham Mfg. Co., San Francisco. Awards were at the bidding price.

OAKLAND, Alameda Co., Cal. — Marshall-Newell Co., Spear and Mission Sts., San Francisco, awarded contract by Frank Haynie, Supply Officer, U. S. Department of Agriculture, Government Island, Oakland, for furnishing f.o.b. Government Island, Oakland, 250 night latches, automatic deadlocking, etc., also 500 keys for locks. Inv. No. 489.

Contract price \$2.65 each for night latches and \$2.20 each for keys.

OAKLAND, Cal. — Maydwell & Hartzell, Inc., 158 11th St., awarded contract by Supply Officer, Government Island, at \$18.11 per mile to furnish 120 ml. No. 9 BWG galvanized iron telephone wire and at \$10.25 per mile to furnish 7 ml. BWG galvanized iron telephone wire, delivery to be for shipping point or at Ogden, Utah.

BREMERTON, Wash.—Until October 2, 10 a. m., bids will be received by Supply Officer, Puget Sound Navy Yard, Bremerton, Wash., for 3102 angles, plain steel, 3030 lbs. 20

LOS ANGELES, Cal.—The Los Angeles Water and Power Commission has authorized A. J. Holm, Los Angeles city purchasing agent, to award contract for furnishing steel wire under Specifications No. 3175 as follows: Joslyn Co. of California, items (1) and (2) at \$129,259.

Copperweld Steel Co., item (3) at \$33,935.

The bids were opened August 9.

LOS ANGELES, Cal.—The Los Angeles Water & Power Commission has authorized A. J. Holm, Los Angeles City Purchasing Agent, to award contracts for furnishing cable under Spec. No. 3201 as follows: Habirshaw Cable & Wire Co., item (1) \$8160.

John A. Roeblings Sons Co., items (2) and (6) at \$11,275.

General Cable Co., items (3), (4) and (5) at \$11,001.

The bids were opened Sept. 15.

OAKLAND, Cal.—Graybar Electric Co., 9th and Howard Sts., San Francisco, at \$1164.73 awarded contract by City Council for 6000 feet insulated cable.

ENGINEERING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

21.—Bridges	30.—Reservoirs and Dams
22.—Dredging, Harbor Works, Excava.	31.—Pipe Lines and Wells
23.—Irrigation Proj.	32.—Sewers & Sewage Disposal Plants
24.—St. Light. Systems	33.—Water Works
25.—Machinery and Equipment	34.—Parks & Play-grounds
26.—Railroads	35.—Tunnels
27.—Fire Alarm Sys.	
28.—Fire Equipment	
29.—Streets & Highways	

21— BRIDGES

LOS ANGELES, Cal.—The County of Los Angeles has applied to the Federal Administration of Public Works for \$3,525,236 (loan requested \$2,575,022, granted \$960,214) to finance construction of roads and bridges in Los Angeles County. The bridge projects follow:

Foster bridge	\$54,337
La Tijera Blvd. viaduct.....	26,303
Big Tujunga bridge	10,000
Hollywood Way bridge.....	33,000
Westminster Ave. bridge.....	40,466

TRINITY COUNTY, Cal.—Rolla Arbuckle, Anderson, at \$12,802.50 awarded contract by U. S. Bureau of Public Roads, San Francisco, to construct two bridges on Section C, Route 6, Douglas City-Peanut National Forest Highway.

ARIZONA STATE—Until 2:30 P. M., October 10, bids will be received by the Arizona State Highway Commission, Phoenix, Ariz., for highway construction on the Benson-Vail Highway, N.R.H. 18-G. The work is located approximately twelve and one-half miles west of Benson and consists of a railroad overpass and approaches and is to be completed on or before February 28, 1934. The principal items are:

- (1) 4500 cu. yds. rdwy. excav.;
- (2) 200 cu. yds. struc. excav.;
- (3) 51,000 cu. yds. borrow excav.;
- (4) 500 cu. yds. concrete;
- (5) 67,800 lbs. reinf. steel;
- (6) 84,500 lbs. struc. steel;
- (7) 120 lin. ft. 8-in. C.M.P.;
- (8) 3000 lin. ft. cable guard;
- (9) 18 corr. catchbasins;

ALTERNATE

- (10) 3000 lin. ft. steel plate road guard and other incidental items.

Proposal guarantee in cash or certified check, 5%. Labor lists shall be obtained from the Pima County Re-employment Committee Chairman, Geo. H. Anklem, Cor. Stone and Alameda Sts., Tucson, Arizona. T. S. O'Connell, State Highway Engineer.

SONOMA COUNTY, Cal.—M. B. McGowan, 74 New Montgomery Sts., San Francisco, at \$67,793 awarded contract by State Highway Commission, to construct a bridge over the Russian River at Preston consisting of one 150 foot through steel truss span, two 33 foot, 3-in. steel beam spans and three 37 foot steel beam spans.

LEWIS COUNTY, Wash.—Western Constr. Co., Seattle, at \$49,406, submitted low bid to W. H. Lynch, Dist. Engineer, U. S. Bureau of Public Rds., Portland, to construct a concrete arch

bridge over Cortwright Creek on the Randle-Yakima Highway in Lewis Co.

OREGON STATE—Until October 5 at 9 a. m. bids will be received by Oregon State Highway Commission, Multnomah Hotel, Portland, R. H. Baldock, State Highway Engineer, for bridge construction as follows:

CLATSOP COUNTY—Two bridges over Humbug Creek on Humbug Mountain-Ranger Station Section of the Wolf Creek Highway. Require approximately 195 cu. yds. excav.; 143 cu. yds. concrete; 21,200 lbs. metal reinforcement; 36 MFBM treated timber, and 276 lin. ft. composite handrail.

GRANT COUNTY—Bridge over Middle Fork of John Day River and four frame trestles over Granite Creek on Middle Fork-Forest Boundary Section of the Pendleton-John Day Highway. Require approximately 980 cu. yds. excav.; 982 cu. yds. concrete; 73 tons metal reinf.; 47 tons struc. steel; 53 MFBM treated lumber; 715 lin. ft. concrete handrail and 410 lin. ft. composite handrail.

MALHEUR COUNTY—Three bridges and 6 culverts, either concrete box or metal pipe, on the Drinkwater Pass-Chimney Creek Section of the Central Oregon Highway. Alternate bids to be received for the culvert work. Approximate quantities are: 870 cu. yds. excav.; 5895 cu. yds. embankment; 134 cu. yds. concrete; 22,000 lbs. metal reinforcement; 45 MFBM treated lumber; 281 lin. ft. composite handrail and 173 cu. yds. riprap. Additional approximate quantities for culvert work are: 415 cu. yds. concrete and 45,500 lbs. metal reinforcement for concrete box culverts; 77 lin. ft. of 60-in. diameter pipe and 482 lin. ft. of 105-in. diameter pipe for pipe culverts.

WASHINGTON COUNTY—Bridge over Tualatin River on Farmington Secondary Highway, near Hillsboro, including construction of approaches. Requires approximately 15,000 cu. yds. excav.; 1000 cu. yds. surfacing materials; 25,000 yds. mi. truck haul; 3700 lin. ft. creosoted piling; 185 cu. yds. concrete; 37,000 lbs. metal reinforcement; 47 MFBM treated lumber; 67,000 lbs. struc. steel and 600 lin. ft. composite handrail.

Plans and specifications obtainable from the office of the State Highway Commission, Room 322, State Office Bldg., Salem, Ore., on deposit of \$5 per set.

SANTA CLARA COUNTY, Cal.—Until Oct. 23, 11 a. m., bids will be received by the Santa Clara County Board of Supervisors, Henry E. Pfister, Clerk, County Courthouse, San Jose, for constructing a reinforced

concrete culvert on San Tomas Aquino Road near Hazel Ave. and the widening of the Virginia Ave. culvert over San Tomas Aquino Creek near Budd Ave. Specifications available from above at cost of \$1.

HUMBOLDT COUNTY, Cal.—Until Oct. 10, 2 p. m., bids will be received by Board of Supervisors, Humboldt County, Fred M. Kay, Clerk, for constructing new bridge and fills at Ryan's Slough. Specifications obtainable from County Surveyor, Frank E. Kelly, Eureka.

HUMBOLDT COUNTY, Cal.—Until Oct. 10, 2 p. m., bids will be received by Board of Supervisors, Eureka, Fred E. Kay, Clerk, for constructing a reinforced concrete culvert near Arlynda. Specifications available from County Surveyor, Frank E. Kelly, Eureka.

VENTURA COUNTY, Cal.—Until October 18, 2 P. M., bids will be received by State Highway Commission, Sacramento, to construct a reinforced concrete girder bridge across Coyote Creek, about 9 ml. north of Ventura, consisting of one 85 ft. span; two 42 ft. 7-in. spans; and two 25 ft. 3 7/8-in. spans, on concrete piers with steel pile foundations and concrete abutments with concrete pile foundations, involving:

- (1) 620 cu. yds. struc. excav.;
- (2) 1250 cu. yds. rdwy. excav.;
- (3) 1150 lin. ft. furnish reinf. conc. piles, including test piles;
- (4) 40 each drive reinf. conc. piles incl. test piles;
- (5) 1530 lin. ft. furnish steel piles incl. test piles;
- (6) 62 each drive steel piles, incl. test piles;
- (7) 137 cu. yds. Class A Port. cem. conc. footing blocks;
- (8) 545 cu. yds. Class A Port. cem. conc. struc.;
- (9) 595 lin. ft. solid timber railing;
- (10) 111,500 lbs. bar reinf. steel;
- (11) 3 each spillway assemblies;
- (12) 54 lin. ft. 8-in. C. M. P.;
- (13) 1 lot misc. items of work.

SANTA CRUZ CO., Cal.—All bids received by Santa Cruz County Board of Supervisors to construct concrete bridge abutment at Corralitos, Pajaro Road District, have been rejected. Work will be done by day labor under supervision of Supervisor C. B. Lewis and County Surveyor Lloyd Bowman under specifications on first alternate (gravity type wall). Carl M. Swenson, 355 Stockton St., San Jose, submitted low bid at \$4429.78.

LANE COUNTY, Oregon.—Kuckenberg & Wittman, Portland, Ore., at \$68,373 awarded contract by U. S. Bureau of Public Roads, Portland, Ore., to furnish labor and materials and perform all work for constructing two Salt Creek bridges and Salmon River bridge, Willamette Highway, Project E-21-E2, F1, National Forest Road project.

DOUGLAS COUNTY, Ore.—J. G. Johnston, Newberg, Ore., at \$21,793 awarded contract by U. S. Bureau of Public Roads, Portland, Ore., for construction or improvement of one steel deck span with concrete approaches over Diamond Creek, Tiller Trail Highway, Project NR-16-F3, National Forest Road project, located adjacent to Umpqua National Forest, County of Douglas, Ore.

CAPITAL CITY TITLE COMPANY

J. C. PALEN,
Manager

914 Seventh Street
Sacramento :: California

LOS ANGELES, Cal.—Bannister-Field Co., 4101 Goodwin Ave., Los Angeles, claiming error, was allowed to withdraw the low bid submitted to the county supervisors September 14 at \$20,857.60 for the construction of a reinforced concrete rigid frame bridge to be built on Muscatel Ave., over Eaton Wash. The contract will probably be awarded to John Oberg, 3470 E. 8th St., Los Angeles, who submitted the next low bid at \$22,700.

GILA COUNTY, Ariz.—Corrigan & Trethewey, Miami, Ariz., at \$4,801.60 awarded contract by U. S. Bureau of Public Roads, Phoenix, to construct two bridges on Section II, Rt. 12, Globe-Holbrook National Forest Highway, Tonto National Forest.

APACHE & NAVAJO COUNTIES, Ariz.—Whiting Bros., at \$37,202 to construct two bridges, and Del Webb, at \$15,360 to construct overpass on Petrified Forest Routes 1 and 2, submitted low bids to U. S. Bureau of Public Roads, Phoenix. Wickes Engineering Company, at \$53,876, submitted low bid for combination contract to construct both bridges and overpass.

Whiting Bros. and Del Webb recommended for award.

SAN BERNARDINO COUNTY, Cal.—R. R. Bishop, 5017 East Broadway, Long Beach, at \$37,633, awarded contract by the State Highway Commission to construct a reinforced concrete slab bridge across San Timotee Creek, about five miles west of Redlands, consisting of two 33-foot spans and two 27-foot spans on concrete pile bents and concrete abutments with wing walls on pile foundations.

22—DREDGING, AHRBOR WORKS, EXCAVATION

RICHMOND, Contra Costa Co., Cal.—Standard Dredging Co., 325 Central Bldg., Los Angeles, at \$97,678.06 awarded contract by U. S. District Engineer, San Francisco, to realign Richmond harbor channel involving dredging 1,661,790 cu. yds.

LOS ANGELES, Cal.—Rohi-Connolly Co., by T. E. Connolly, 461 Market St., San Francisco, at \$1,520,000 for Alternate A and at \$1,696,400 for Alternate B, submitted low bid to U. S. Engineer, 751 S. Figueroa St., Los Angeles, to construct 4000 ft. extension to Los Angeles harbor breakwater. Second low bid submitted by Merritt Chapman & Scott Corp., San Pedro, and Karl B. Kumpe, Ltd., Riverside, at \$2,140,200 for Alternate A and \$2,292,400 for Alternate B. Alternate A provides for composite type construction with clay mound foundation. Alternate B provides for all stone construction. No recommendation made on award.

STOCKTON, San Joaquin Co., Cal.—San Francisco Bridge Co., 503 Market St., San Francisco, at \$316,543 (\$0.1172 per cu. yd.) awarded contract by U. S. District Engineer, Fruit Exchange Bldg., Sacramento, to dredge San Joaquin river channel to a depth of 30 feet between the easterly end of the turning basin, Stockton, and a point just below Black Slough landing (Unit No. 1 of the Stockton channel project) involving removal of 2,706,000 cu. yds. of material.

VANCOUVER, Wash.—Tacoma Dredging Co., Tacoma, Wash., at \$0.0685 per cu. yd., a total of \$376,750, submitted low bid to U. S. District Engineer, Portland, Ore., for dredging 950,000 cu. yds. from channel in

Columbia River, Interstate Highway Bridge, Vancouver, Wash., to a point 8500 feet downstream.

SAN JOAQUIN COUNTY, Cal.—Until October 5, 2 P. M., bids will be received by H. W. Rhodes, Superintendent of Lighthouses, Room 424, Customhouse, San Francisco, for furnishing all labor and materials and performing all work for constructing a 3-wing echo board on the berm on Venice Island on the northeast side of the San Joaquin river channel opposite the mouth of Old River and approximately 600 yards southeast of Potato Point Light; and for a 4-pile structure on the berm on the southerly line of San Joaquin River channel east of and near the mouth of Fishermen's Slough.

Bids are to be received as follows:
(a) Construction of a 3-Wing Echo Board at Venice Island;
(b) Construction of a 4-pile beacon at Fishermen's Slough.
Specifications obtainable from above. No deposit required.

STOCKTON, San Joaquin Co., Cal.—New bids are to be asked by U. S. District Engineer, Fruit Exchange Bldg., Sacramento, for dredging 1,140,000 cu. yds. of material from the Suisun Bay Channel between Stake Point and Point Edith, designated Unit 4 of the channel project. Tentative date for receiving bids, October 7. No bids were received when the contract was advertised previously.

STOCKTON, San Joaquin Co., Cal.—American Dredging Co., 255 California St., San Francisco, at \$0.1049 per cu. yd. awarded contract by U. S. Engineer, Sacramento, to dredge 1,881,000 cu. yds. material from San Joaquin River 30-foot channel at ten or more sholas between Criminal Point and Suisun Bay, designated Unit 3 of the channel project.

STOCKTON, San Joaquin Co., Cal.—Hydraulic Dredging Co., Ltd., 1217 Central Bank Bldg., Oakland, at \$0.11 per cu. yd. awarded contract by U. S. District Engineer, Sacramento, to dredge 2,531,000 cu. yds. material from the San Joaquin River 30-foot channel over 8.8 mi. between the mouth of Turner cut at the upstream end of the work and Criminal Point, at the downstream end, designated Unit 2 of the channel project.

PORTLAND, Ore.—Winston Bros. Company and Guy F. Atkinson Company, Porter Bldg., Portland, Ore., at \$1,111,945, awarded contract by the U. S. Engineer, Portland, Ore., to repair South Jetty at mouth of Columbia River, Oregon and Washington.

YUBA COUNTY, Cal.—Until October 6, at 3 p. m., bids will be received by U. S. Engineer Office, Capt. J. G. Drinkwater, District Engineer, California Fruit Bldg., Sacramento, under Specification No. 5748 to furnish all materials and construct four new retards and four bankheads along the northerly bank of the Yuba River, near Simpson Lane bridge, about one-half mile easterly from the city of Marysville, Yuba County, Cal.

The work to be performed involves:
(1) 160 lin. ft. bankhead in place;
(2) 500 lin. ft. 3½-in. by 3½-in. by ½-in. angle bar in place in retard sections;
(3) 100 lin. ft. log foundation in place
(4) 100 lin. ft. brush filling in place in steel sections;
(5) 4 ea. steel "H" column anchor piles in place;
(6) 17,000 lin. ft. ½-in. cables in place;
(7) 6000 lin. ft. ¾-in. cables in place;

(8) 250 ea. ½-in. cable clamps in place;
(9) 50 ea. ¾-in. cable clamps in place
(10) 600 lbs. 5-in. staples in place.
Bond in 25% of amount bid required. Specifications obtainable from above and on file in office of DAILY PACIFIC BUILDER.

RICHMOND, Contra Costa Co., Cal.—Until October 9, 8 P. M., bids will be received by Richmond City Council to repair fender system in outer harbor terminal. Estimated cost \$3500. Contract involves furnishing and placing 59 creosoted Douglas fir piles and miscellaneous work.
Specifications obtainable after Sept. 29 from E. A. Hoffman, City Engineer, at Richmond City Hall. Deposit of \$5 required.

23—IRRIGATION PROJ.

TURLOCK, Stanislaus Co., Cal.—Ed. Erickson, Route 4, Box 744, Modesto, at \$48,582.40 submitted low bid to Turlock Irrigation District directors to line with concrete 4.5 ml. irrigation canals. Second low bid submitted by Carlson Bros. and John W. Kristich, Knightsen, at \$48,786.50. Work involves laying 745-100 sq. ft. concrete canal lining in Ceres main canal and laterals No. 1, 2 upper 2½, 4 and 7. Bids were taken under six schedules. Following are bids of two low bidders for each schedule:

	(A)	(B)
Schedule No. 1.....	\$18,540.00	\$16,480.00
" No. 2.....	3,905.80	4,104.40
" No. 3.....	6,136.00	6,656.00
" No. 4.....	9,510.40	10,402.00
" No. 5.....	1,421.90	1,614.70
" No. 6.....	9,068.30	9,529.40

An award probably will be made at the meeting of directors October 2. R. V. Meikle, chief engineer.

ONTARIO, Oregon—Until October 25, 10 A. M., bids will be received under Specification No. 546, by United States Department of the Interior, Bureau of Reclamation, Ontario, Ore., Elwood Mead, Commissioner, for construction of earthwork, concrete lining and structures, North Canal, Station 513 to Station 2051 (Malheur River Siphon) and Mitchell Butte lateral, Mitchell Butte Division, Owyhee project, Oregon-Idaho. The work is located near Nyssa and Ontario, Oregon, on the Oregon Short Line Railroad.

Principal items and estimated quantities are:
(1) 2,900,000 cu. yds. overhaul;
(2) 96,000 station yards overhaul;
(3) 12,700 sq. yds. trimming canal and lateral sections for concrete lining;
(4) 52,900 cu. yds. backfill;
(5) 3230 cu. yds. concrete in struc.;
(6) 1110 cu. yds. concrete in concrete lining;
(7) 2225 sq. yds. dry-rock paving;
(8) 312,500 lbs. placing reinf. bars;
(9) 59 MFEM erecting timber in bridges;
(10) 2600 lin. ft. laying 15-in. to 42-in. lockjoint concrete pipe;
(11) 29,000 lbs. placing gates and gate hoists;
Materials to be furnished by the contractor and those furnished by the Government are described in the specifications which will be part of the contract.

Performance to begin 30 calendar days after receipt of notice to proceed and shall be completed within 400 calendar days for schedules 1, 2, 3, 7 and 8 and 450 calendar days for schedules 4, 5 and 6.

Plans and specifications available at office of the Bureau of Reclamation at Ontario, Oregon; Denver, Colorado, or Washington, D. C. No deposit required from prospective bidders; to others \$2, not returnable.

IMPERIAL VALLEY, Cal.—The special public works board appointed by the Secretary of the Interior to study the proposed all-American canal in the Imperial Valley, is reported to be preparing to recommend a modified plan which would eliminate the extension of the Canal System to the Coachella Valley, reducing the estimated cost from \$38,500,000 to \$26,000,000.

25—MACHINERY AND EQUIPMENT

LOS ANGELES, Cal.—General Electric Co. awarded contract by Saul A. Joseph, purchasing agent of Metropolitan Water District, September 18, at \$7316.60 for automatic pump controls under Bid No. 15152. The other bids were:

Mullenbach Electrical Mfg Co., Inc., \$7671.44.

Diamond Electrical Mfg. Co., Ltd., \$8019.

The Trumbull Electric Mfg. Co., \$8129.56.

LOS ANGELES, Cal.—Bids for furnishing $\frac{3}{4}$ cu. yd. dipper type gas shovels were received by Merie J. Pettis, U. S. Forest Supervisor, September 21. The bids were:

Coast Engineering & Equipment Co., minimum two \$330 each per month for a 6-month period; total, \$3960. If used more than six months the rental price per month will be \$280 each per month. Rentals may be applied on purchase price of \$4000 each. Bidding on new Bearcar Jr.

N. P. Van Valkenburg, \$465 per month for one machine; if two are wanted, \$400 per month.

Bevis Machinery Co., \$250 each per month f.o.b. Los Angeles. Bidding on two $\frac{3}{4}$ cu. yd. Fordson Universal.

Jas. R. Mathews, \$325 per month each.

Brown-Bevis Equipment Co., \$375 each per month. Michigan shovels.

Ligh M. Railsback, \$378 per month for one month; for six months, \$350 per month; for 12 months, \$340 per month. To furnish $\frac{1}{2}$ or $\frac{1}{4}$ cu. yd. shovels (if acceptable) at option of bidder.

PEARL HARBOR, T. H.—Until November 15, at 11 a. m., bids will be received at the Bureau of Yards and Docks, Navy Department, Washington, D. C., under Specification No. 7419 for furnishing and erecting four cranes at the Navy Yard, Pearl Harbor, T. H. Estimated cost, \$357,000.

Plans and specifications obtainable from the Bureau, Commandant Navy Yard, Pearl Harbor, or Commandant Twelfth Naval District, 100 Harrison St., San Francisco. Deposit of \$5 returnable.

PORTERVILLE, Tulare Co., Cal.—Until October 10, 7:30 P. M., bids will be received by the Board of Trustees of Porterville Union High School District, for furnishing new school busses and sale of used school busses. Specifications obtainable at the office of the principal of Porterville Union High School or at 420 Main Street, Porterville.

SAN DIEGO, Cal.—Until October 2, 10 a. m., bids will be received by the State Purchasing Agent, Sacramento, under Quotation 8242 for furnishing shop equipment f.o.b. Division of Highways, Shop 11, 310 Union Bldg., San Diego. Items to be purchased include air compressor, lathe, shop tools, welding equipment, etc.

SAN FRANCISCO, Cal.—Killefer Mfg. Co., 5525 Downey St., Los An-

geles, at \$627 each submitted low bid to the U. S. Forest Service, Ferry Building, to furnish three heavy-duty hay rake or revolving type road rippers for 60-75 drawbar horsepower tractors.

Complete bids follow:

(A) Killefer Mfg. Co., Los Angeles, \$627 each, net (one in 1 day, two in 10 days), f.o.b. Los Angeles.

(B) Associated Equipment Co., San Francisco, \$760 each, 2%—10 (three, 14 to 21 days), f.o.b. Los Angeles.

(C) Mack Woodridge Co., Inc., Los Angeles, \$875 each, 1%—10 (all in 10 days), f.o.b. Bell, Los Angeles County.

(D) Isaacson Iron Works, Seattle, \$940 each, 20%—10 (one in 1 day, balance 5 days), f.o.b. Seattle.

(E) M. P. McCaffrey, Ltd., Los Angeles, \$1070 each net (one in 1 day, balance 15 days), f.o.b. Los Angeles.

SAN FRANCISCO—U. S. L. Battery Co., (Welding Engineering Co.), 334 Van Ness Ave., South, San Francisco, at \$255,000 each, awarded contract by United States Forest Service, to furnish two 300 ampere, one-arc gasoline driven engine welders.

SAN FRANCISCO—Contracts awarded by the U. S. Forest Service, Ferry Bldg., for furnishing two gasoline engine powered centrifugal pumps, 3-in. self priming, mounted on steel frame, as follows:

A. L. Young Machinery Co., Inc., 26 Fremont St., San Francisco, \$212.

Edward R. Bacon Co., 17th and Folsom Sts., San Francisco, \$293.

LOS ANGELES, Cal.—Until 10 A. M., October 3, bids will be received by Saul A. Joseph, Purchasing Agent of the Metropolitan Water District, Room 504, 306 W-Third St., Los Angeles, for furnishing:

(1) 21 cars, side dump, 5 cu. yds. capacity, steel body, for 36 gauge track, in accordance with Spec. E-66, f.o.b. cars at manufacturers plant;

(2) (Alternate to Item 1) 21 cars, same as item 1, except price to be f.o.b. Indio, Calif. Bid No. 15798.

SAN FRANCISCO—Associated Equipment Co., 355 Fremont St., San Francisco, at \$121.06 each submitted low bid to the U. S. Forest Service, Ferry Bldg., to furnish two portable drag saws, powered with gasoline engines. Following is a complete list of bids:

Associated Equipment Co., San Francisco, each \$121.06 f.o.b. Portland.

H. V. Carter Co., San Francisco, each \$122.44 f.o.b. Portland.

Kratz & McClelland, Inc., San Francisco, each, \$141.25 f.o.b. San Francisco.

Harron, Richard & McCone, San Francisco, each, \$169.57 f.o.b. Portland.

H. C. Wood Machine Works, San Francisco, each \$182 f.o.b. San Francisco.

26—RAILROADS

Plans Being Prepared.
EXTEND RAILROAD Cost, \$—
SAN FRANCISCO. Over Third St. bridge to connect with Piers 48 and 50.

Extension to State Belt Railroad.
Owner—State Board of Harbor Commission, Ferry Bldg., San Francisco.

Engineer—Frank G. White, Ferry Bldg., San Francisco.

Bids will be called for in about two

SAN FRANCISCO—Plans are being prepared by Frank G. White, City Engineer, Ferry Bldg., San Francisco, for the extension of State Belt Railroad over Third Street Bridge to

connect with Piers 48 and 50, San Francisco Waterfront. Bids will be called for in two weeks.

28—FIRE EQUIPMENT

ALAMEDA, Alameda Co., Cal.—Bids will be received until October 3, 8 P. M., by City Clerk of the City of Alameda, for a 1000-gallon triple combination pumping engine for the Fire Department. Apparatus acceptance subject to Standard underwriters test.

STOCKTON, San Joaquin Co., Cal.—Oranges Bros., dealers for Mack-International Motor Truck Co., 11th and Howard Sts., San Francisco, awarded contract at \$12,485 to furnish one combination pump, hose and ladder fire engine.

31—PIPE LINES & WELLS

DOUGLAS, Ariz.—U. S. Pipe & Foundry Co., Monadnock Bldg., San Francisco, has been awarded the contract for furnishing 4500 ft. of water pipe for replacements on "A" Avenue.

COMPTON, Cal.—Contracts for furnishing cast iron pipe, fire hydrants, copper pipe and valves, awarded by the Compton city council September 20, are as follows:

Central Foundry Co.—(1) 4000 ft. 6-in. C.I.P. at \$22.40, (2) 2000 ft. 4-in. C.I.P. at \$712, (3) 6 6x6x4x4-in. crosses at \$70.08, (4) 6 6x6x6-in. tees at \$61.92, (5) 1 4x4x4-in. tee at \$7.

Griffith Pipe & Supply Co.—(6) 6 6-in. fire hydrants at \$217.68.

Rich Mfg. Co.—(7) 15 6-in. hub end gate valves at \$262.39, (8) 8 4-in. do at \$81.74.

California Pipe & Supply Co.—(11) 1780 ft. $\frac{3}{4}$ -in. copper pipe at \$252.23, (12) 17 $\frac{1}{4}$ -in. corporation cocks at \$73.15.

Crane Co.—(13) $\frac{3}{4}$ -in. curb cocks at \$73.88.

LOS ANGELES, Cal.—Plans and specifications for the construction BY FORCE account of the East Blind Canyon syphon and adjacent cut-and-cover conduit, between East and West Blind Canyons, and appurtenant works of the Colorado River Aqueduct, in accordance with Specifications No. 55, were approved by the board of directors of the Metropolitan Water District September 22. The work will be executed under the direction of Frank E. Weymouth, General Manager and Chief Engineer.

The proposed work is located approximately 7 miles north of Garnet, a station on the Southern Pacific Ry., in Riverside County. The work consists of the construction of one monolithic concrete syphon with an interior diameter of 12 ft. 4 in. and one section of conduit with an interior diameter of 16 ft. and is divided into two schedules, as follows:

Schedule No. 1, East Blind Canyon Syphon, length 800 ft.

Schedule No. 2, conduit, length 730 ft. The items are:

Schedule 1.

Construction of East Blind Canyon Syphon between Station 9099 plus 75; length 800 ft.

(1) 10,000 cu. yds., excav. for syphon, earth;

(2) 8700 cu. yds. excav. for syphon, rock;

(3) 50 cu. yds. excav. for struc., earth;

(4) 20 cu. yd. excav. for struc., rock;

(5) 11,400 cu. yds. backfill for syphon;

(6) 1860 cu. yds. conc. in syphon;

(7) 200 cu. yds. in transitions;

(8) 370,000 lbs. placing rainf. steel in syphon;

- (9) 17,000 lbs. placing do. in translations;
- (10) constructing one blow-off;
- (11) 160 lin. ft., laying add. 8-in. drain pipe.

Schedule II.

- Construction of cut-and-cover conduit between Station 9099 plus 75 and Station 9107 plus 05; length 730 feet.
- (12) 5300 cu. yds. excav. for conduit, earth;
- (13) 10,700 cu. yds. excav. for conduit, rock;
- (14) 12,300 cu. yds. backfill for conduit;
- (15) 2020 cu. yds. conc. for conduit;
- (16) 3000 lbs. furnishing and placing steel for construction joints;
- (17) 4600 lbs. furnishing and placing metal for dummy joints.

LOS ANGELES, Cal.—Until 2 p. m., October 30, bids will be received by the Metropolitan Water District, 306 W. Third St., Los Angeles, for constructing the Little Morongo Canyon Syphon and appurtenant works of the Colorado River aqueduct, in Riverside County, 7 miles north of Garnett, on the Southern Pacific Ry., in accordance with Spec. No. 51. The work to be bid upon consists of the construction of one pre-cast concrete pipe water supply syphon, with an interior diameter of 12 ft. and a length of approximately 767 ft., to operate under a maximum head of 117 ft. "Because of the fact that this syphon is being constructed for the purpose of perfecting plans and specifications for the main aqueduct, determination of the lowest responsible bidder will be made on the basis not only of unit prices bid, but also upon the basis of the history of the product bid upon, the bidder's experience and equipment, and other items worthy of consideration in determining the type of test syphon to be built."—Sec. A-2 of Invitation for Bids. The bidder must furnish complete detail drawings of the type of joint, steel reinforcement and moulding forms he proposes to use in manufacturing the precast concrete pipe, full statement of layout and description of plant and program of construction.

Certified or cashier's check, \$5000. Plans may be obtained from the engineer, room 1007, 306 W. Third St., Los Angeles, upon payment of \$3 per set. F. E. Weymouth, general manager and chief engineer. The schedule of items follows:

Construction of the Little Morongo Canyon Syphon—between Station 9182 plus 74, and Station 9189 plus 96. Length of barrel, 767 ft.

(No bid will be considered for less than all the items of the schedule.)

- (1) 16,000 cu. yds. excav. for syphon, earth;
- (2) 200 cu. yds. excav. for syphon, rock;
- (3) 40 cu. yds. excav. for struc., earth;
- (4) 10 cu. yds. excav. for struc., rock;
- (5) 8200 cu. yds. backfill. for syphon;
- (6) 10 cu. yds. concrete in collars;
- (7) 150 cu. yds. concrete in cradle and anchors;
- (8) 767 lin. ft. precast concrete pipe in syphon;
- (9) 295,000 lbs. furnish and place steel cage reinforcement;
- (10) 121,600 lbs. do cylinder do in syphons;
- (11) constructing one blow-off;
- (12) 160 lin. ft. laying additional 8-in. drain pipe for blow-offs.

PEARL HARBOR, T. H.—Until November 8, at 11 a. m., bids will be received at the Bureau of Yards and Docks, Navy Department, Washington, D. C., under Specification No. 7136 for improvement of fuel oil facilities at the Naval Fuel Depot, Pearl Harbor, T. H. The work includes

extension of pump house, electrically driven pumps, piping and accessory work. Estimated cost, \$112,000.

Plans and specifications obtainable from the Bureau, Commandant Fourteenth Naval District, Navy Yard, Pearl Harbor, or Commandant Twelfth Naval District, 100 Harrison St., San Francisco. Deposit of \$25 returnable.

32—SEWERS & SEWAGE DISPOSAL PLANTS

PORTLAND, Oregon—Harrison B. Eddy of the firm of Metcalf & Eddy, Boston, Mass., has been engaged as consulting engineer for the proposed \$8,000,000 sewage disposal system. Mr. Eddy will serve on a board with J. E. Cunningham, Robert G. Dieck and Ray E. Coon.

GUADALUPE, Cal.—Oakland Sewer Constr. Co., 9915 Walnut St., Oakland, at \$2059.27 submitted low bid to Board of Directors of the Guadalupe Sanitary District, Guadalupe, for the construction of 6-in. vitrified clay pipe sewer line with 71 wye branches, 4 manholes and 1 flushing manhole in Tognazzini Ave., ¼ mile southwest of the Town of Guadalupe. Complete bids follow:
Oakland Sewer Constr. Co., Oakland, \$2059.27.

Frank H. Gates, Inc., Santa Maria, \$2599.07.

Santa Maria Constr. Co., Santa Maria, \$2613.74.

A. L. Briscoe, Arroyo Grande, \$2626.95
Engineer's Estimate, \$2272.51.

HAYWARD, Alameda Co., Cal.—A. Soda & Son, 1077 Sixty-fifth St., Oakland, at \$2635 awarded contract by Hayward City Council to construct reinforced concrete storm sewer approximately 320-ft. in length, involving:

- (1) 153 cu. yds. concrete in place;
- (2) 19,000 lbs. reinforcing steel.

Complete bids follow:

A. Soda & Son, Oakland.....	\$2635.00
Albany.....	2694.24
C. M. Gest, Oakland.....	2795.00
George Peterson, San Leandro.....	2798.00
A. J. McGettigan, Oakland.....	2817.00
A. Holyoake, Hayward.....	2900.00
Lee J. Immel, Berkeley.....	3047.00
Paul F. Ran, Hayward.....	3048.00
J. B. Peterson & Son, Oakland.....	3205.00
G. M. Suttle, Hayward.....	3250.00
John C. Gutleben, Oakland.....	3296.00
Oakland Sewer Const. Co.....	3488.00
C. A. Bruce & Son, Pleasanton.....	3686.00

BERKELEY, Alameda Co., Cal.—Until October 3, at 10 a. m., bids will be received by Berkeley City Council for construction of a sewer 440 feet in length in Milvia St. from Eunice St. southerly, involving:

- (1) 440 lin. ft. 15-in. sewer pipe alternate bids to be taken on vitrified clay and concrete pipe;
- (2) 90 lin. ft. 10-in. sewer pipe (alternate bids to be taken on vitrified clay and concrete pipe);
- (3) 2 manholes.

Specifications obtainable from City Engineer Harry Goodridge, City Hall, Berkeley. Deposit of \$10 required.

SAN FRANCISCO—City Improvement Co. and A. Soda & Son, 2626 Harrison St., Oakland, at \$8652.35 awarded contract by Public Utilities Commission to construct Moccasin sewage disposal system, Hetch-Hetchy Water System Contract No. 143. Compleat bids published Sept. 27.

SAN FRANCISCO—Bids will be asked shortly by Department of Public Works for construction of Merced Manor storm water relief sewer ad-

acent to Twenty-sixth Ave. and Eucalyptus drive. Estimated cost, \$2340.

SPADRA, Los Angeles Co., Cal.—Marko Matick, 1435 W. Fifty-first St., Los Angeles, at \$12,777 submitted low bid to State Architect George B. McDougall, Sacramento, to complete sewer pumping line, Pacific Colony, Spadra. The contract is for installing piping to connect Pacific Colony sewer system with City of Pomona sewer system.

Complete bids follow:

Marko Matick, Los Angeles.....	\$12,777
Johnson & Reeves, Los Angeles.....	13,965
John Gramich, Los Angeles.....	14,820
Martin Const. Co., Los Angeles.....	15,390
J. A. Fazio, Oakland.....	15,663
Garrett Co., San Pedro.....	16,400
Dimmitt & Taylor, Los Angeles.....	16,900

33—WATER WORKS

PASADENA, Cal.—Western Pipe & Steel Co., 5717 Santa Fe Ave., Los Angeles, at \$81,300 under Schedule 1 to furnish three spillway gates; Pelton Water Wheel Co., at \$10,311 under Schedule 2, to furnish three needle control valves; and Consolidated Steel Corp., Los Angeles, at \$2025 under Schedule 3 to furnish automatic mechanism, awarded contracts by Pasadena city board of directors for Pine Canyon dam spillway gates and control system.

ALAMEDA, Cal.—The City Clerk of Alameda has been authorized to call for bids for the construction of a well and pump plant at Franklin Park.

33

LOS ANGELES, Cal.—The Los Angeles Water and Power Commission has authorized A. J. Holm to award contracts for rental of compressor units under Specifications No. 3197, as follows:

California Equipment Co., (1) alt. \$225 per month, 8-hour day; \$275 per month, 16-hour day; \$.25 per hour overtime.

Chicago Pneumatic Tool Co., (2) alt. \$300 per month, 8-hour day; \$370 per month, 16-hour day, and \$.40 per hour overtime.

The bids were opened August 29.

FRESNO, Cal.—All bids received for furnishing four twelve-inch deep well turbine pumps, rejected by Fresno City Commission, same to be purchased in open market. Claude H. Weeks, superintendent municipal water department. Identical bids received from ten firms at \$1493 each for 50-foot setting pumps and \$1555 each of 60-foot setting pumps, less \$125 trade-in allowance on replacement units.

HEBER, Cal.—Miracle Co., 4751 Monroe Ave., San Diego, awarded contract by Heber Public Utility Dist., Imperial Valley, Sept. 20, at \$12,830.35 exclusive of water services to construct water works improvements for the district. Phillip W. Knights, El Centro, engineer. Unit prices are:

- (1) \$1008.48; (2) \$542.25; (3) \$667.68
 - (4) \$2370.27; (5) \$515.97; (6) \$162.40;
 - (7) 1082.60; (8) \$6389.70. Total lump sum exclusive water service, \$12,830.35
- Water services (9): ¾-in., \$14; 1-in. \$17.

BEVERLY HILLS, Cal.—Until 8 p. m., October 10, bids will be received by the Beverly Hills city council for furnishing and laying about 10 000 ft. 4-in., 6-in. and 8-in. cast iron water mains for the city water department. Specifications may be obtained after September 25 from the engineers, Salisbury, Bradshaw & Taylor, 714 W. 10th St., Los Angeles (PR 0612).

SAN DIEGO, Cal.—Until October 11, 11 A. M., (previously noted) bids will be received by Public Works Department, Headquarters Eleventh Naval District, Foot of Broadway, San Diego, under Specification 7424 for improvement of water system at the Naval Air Station, San Diego.

The work consists, in general, of the provision and installation of the following:

(A) Approximately 1400 lineal feet of 12-inch cast iron water pipe across Spanish Bight on a trestle constructed of steel railroad rails (rails furnished by the Government) driven into the mud bottom and tied at the top for the support of the water pipe;

(b) An electrically-driven booster pump near the bridge head at North Island for raising the pressure of the water on North Island.

(C) A small extension to the existing meter house for shelter and a new pump installation. The work will include cast iron water pipe, valves, concrete, brick, stucco, roofing, a booster pump and appurtenances, electrical work, and a small quantity of creosoted lumber and wood piles.

Plans and specifications obtainable from Public Works Officer, San Diego. Deposit of \$10 required.

LOS ANGELES COUNTY, Cal.—San Francisco Bridge Co., 508 Market St., San Francisco, at \$31 per cu. yd. submitted low bid to District Engineer, Los Angeles, for dredging in the Los Angeles Outer Harbor, involving 170,000 cu. yds. of materials. Only other bid submitted by Standard Dredging Co., Los Angeles, at \$3416.

29—STREETS AND HIGHWAYS

LOS ANGELES, Cal.—Griffith Co., 502 L. A. Railway Bldg., submitted low bid to Los Angeles Board of Public Works, at \$16,851.82 for improving 51st St., from Central Ave. to Avalon Blvd.

SAN FRANCISCO—Until October 13, 2:00 P. M., bids will be received by C. H. Sweetser, District Engineer, Bureau of Public Roads, 807 Sheldon Bldg., 461 Market St., San Francisco, to grade 2.189 mi. Section G, Route 32, Placerville-Lake Tahoe National Forest Highway, Eldorado National Forest, Eldorado County, involving:

- (1) 21 acres clearing;
- (2) 149,000 cu. yds. unclass. excav.;
- (3) 1800 cu. yds. unclass. excav. (struc.);
- (4) 239,000 sta. yds. overhaul;
- (5) 2,189 ml. finish earth graded roads
- (6) 80 cu. yds. cehm. rubble masonry;
- (7) 2314 lin. ft. corr. met pipe;
- (8) 100 cu. yds. cru. rock or gravel for backfill;
- (9) 20,000 gal. asphaltic material.

Specifications are obtainable from above office upon deposit of \$10.

TUOLUMNE COUNTY, Cal.—Geo. Pollock, P. O. Box, 903, Sacramento, at \$143,829 awarded contract by U. S. Bureau of Public Roads, San Francisco, for grading 6.23 mi. Sec. C, Rt. 38, Sonora Pass National Forest Highway, Stanislaus National Forest.

NYE COUNTY, Nevada—Dodge Constr. Co., Inc., Fallon, Nevada, at \$13,068.80 awarded contract by Nevada State Highway Commission to construct 10.92 ml. of state highway in Nye County between 33 miles and 22 miles south of Beatty, Route 5, Section D-2-O-E. Utah Construction Co., Ogden, Utah, bid \$49,477.70.

ARIZONA STATE—Packard & Tanner, 737 W. Latham St., Phoenix,

Ariz., at \$247,238.51 submitted low bid to the Arizona State Highway Commission, Phoenix, Ariz., September 26 for highway construction on NRH 98-D, Blythe-Wickenburg Highway. The work on NRH 98-D begins approximately 2/3 mi. west of Salome and extends northwest 18.7 mi. and consists of the grading and draining only.

The bid on the alternate was \$251,320.51.

O. R. & Rawls and L. C. Lashmet, Phoenix, bid \$285,874.72; alternate, \$286,625.12.

STATE OF WASHINGTON—Until October 4, 10 A. M., bids will be received by W. H. Lynch, District Engineer, U. S. Bureau of Public Roads, Portland, Oregon, to construct 4.734 ml. of Randle-Yakima Highway Grading, Project NR-13-N, County of Yakima, State of Washington, involving:

- (1) Clearing 33 acres;
- (2) 20 acres grubbing;
- (3) 113,300 cu. yds. unclass. excav.;
- (4) 550,000 sta. yds. overhaul;
- (5) 4.734 ml. finish earth graded rd.;
- (6) 30 M. ft. B. M. treated timber (cattle passes);
- (7) 48 cu. yds. Class A concrete;
- (8) 1420 lin. ft. culverts (alt.);
- (9) all lump; const. and maint. of detours;
- (10) 13,000 lin. ft. flattening a n d rounding cut slopes.

Specifications obtainable from above office upon deposit of \$10.

GILA COUNTY, Ariz.—George Rowland, 143 E. Sixty-ninth St., Los Angeles, at \$42,782.45 submitted low bid to Bureau of Public Roads, Phoenix, Ariz., for grading 5.247 mi. Section A of Route 11, Payson-Colcord Mt. National Forest Highway, Tonto National Forest, Gila County. All-Arizona Engineer & Constr. Co., Clifton, Ariz., second low at \$49,764.1; Leo Frost, St. Joseph, Ariz., third at \$51,174.75. No recommendation made on award.

NEVADA COUNTY, Cal.—A. Teichert & Son, 1846 Thirty-seventh St., Sacramento, at \$122,408, awarded contract by State Highway Commission to surface with bituminous treated crushed gravel or stone 7.4 miles west of Washington Road and 0.5 miles east of summit.

LOS ANGELES, Cal.—United Concrete Pipe Corp., Box 1, Station A, Los Angeles, at \$38,713, awarded contract by State Highway Commission to grade and pave with Portland cement concrete 0.8 mile in the city of Long Beach, between Anaheim St. and State St.

SANTA CLARA COUNTY, Cal.—Until Oct. 16, 11 a. m., bids will be received by the Santa Clara County Board of Supervisors, Henry E. Pfister, Clerk, County Courthouse, San Jose, for the improvement of Foothill Ave., from San Marin Avenue to Middle Ave., involving: 143,080 sq. ft. oil macadam. Specifications obtainable from above at cost of \$1

BERKELEY, Alameda Co., Cal.—Berkeley City Council has approved plans and specifications for improvement of Franklin St. from Virginia to Francisco. Harry Goodridge, City Engineer.

- Project involves:
- (1) 10,000 sq. ft. grading;
 - (2) 8700 sq. ft. oil macadam;
 - (3) 542 lin. ft. curb and gutter.

SANTA CLARA COUNTY, Cal.—Until Oct. 16, 11 A. M., bids will be received by the Santa Clara County Board of Supervisors, Henry E. Pfister, Clerk, County Courthouse, San Jose, for the improvement of Berry-

essa Road, from Coyote Creek Crossing to Capitol Ave., involving: 187,000 sq. ft. resurfacing asph. conc. Specifications obtainable from above at cost of \$1.

SANTA CLARA COUNTY, Cal.—Until Oct. 16, 11 a. m., bids will be received by the Santa Clara County Board of Supervisors, Henry E. Pfister, Clerk, County Courthouse, San Jose, for the improvement of Hill Road, from Dunne Ave. to Tennant Ave., involving 100,770 sq. ft. oil macadam. Specifications obtainable from above at cost of \$1.

ARIZONA STATE—Packard and Tanner, 737 W. Latham St., Phoenix, at \$119,525.22 submitted low bid to the Arizona Highway Commission Sept. 26 for highway construction on N. R. H. 98-C, Blythe-Wickenburg Highway. The project begins at the county line and extends easterly 10.8 miles. The bids on the alternate was \$121,010.22.

LYON AND CHURCHILL COUNTIES, Nevada.—Until Oct. 11, 2 p. m., bids will be received by S. C. Durkee, State Highway Engineer, State Highway Commission, Heroes Memorial Bldg., Carson City, for 12.1 miles highway reconstruction in Lyon and Churchill Counties, Nevada, between 2 miles west of Lahontan and Leeteville, Route 2A, Section C3, A, and B, N.R.H. 115-E, involving:

- (1) 28,300 cu. yds. rdwy. excav.;
- (2) 29,034 sta. yds. overhaul;
- (3) 24,050 cu. yds. select borrow;
- (4) 300 cu. yds. struc. excav.;
- (5) 12.1 mi. sub-grade;
- (6) 34,700 cu. yds. crush. grav. or stone surf.;
- (7) 11 cu. yds. class A conc.;
- (8) 32 cu. yds. class B conc.;
- (9) 1,860 lbs. reinf. steel;
- (10) 160 lin. ft. 18-in. C.M.P.;
- (11) 136 lin. ft. 24-in. C.M.P.;
- (12) 150 lin. ft. 36-in. C.M.P.;
- (13) 5 remove culvert headwalls;
- (14) 11 move pipe culvert headwalls;
- (15) 74 lin. ft. remove culvert pipe;
- (16) 74 lin. ft. relay culvert pipe;
- (17) 3200 cu. yds. hand-laid riprap;
- (18) 12.1 mi. finish rdwy.

ARIZONA STATE—Packard & Tanner, 737 W. Latham St., Phoenix, Arizona, at \$180,130.87 submitted low bid to the Arizona State Highway Commission, Phoenix, Ariz., Sept. 26, for N.R.H. 8-B and D, Ashfork-Kingman Highway. The work on NRH 80-B begins near Creekton and extends westerly approximately 9.0 ml. to Seligman and on NRH 80-D, at the west end of NRH 80-B in Seligman and extends northwesterly seven and four-tenths (7.4) miles, consists of placing base course and either cut-back or emulsified asphalt plant mix is to be completed on or before March 31, 1934. Pearson & Dickerson, 4485 Cypress St., Riverside, Calif., submitted the second low bid at \$200,064.95; alternate \$244,170.95.

WHATCOM COUNTY, Wash.—General Construction Company, Seattle, Wash., at \$64,929.30 awarded contract by U. S. Bureau of Public Roads, District Engineer, 316 New Post Office Bldg., Portland, Ore., to construct 7.87 miles Mt. Baker Highway, Surfacing Project NR-6-A6, C3, Mt. Baker National Forest.

GILA COUNTY, Ariz.—All bids received for grading 5.247 mi. of Section A, Rt. 11, the Payson-Colcord Mt. National Forest Highway, Tonto National Forest, Gila County, Arizona, were rejected by U. S. Bureau of Public Roads.

WASHOE COUNTY, Nev.—H. Anderson, 4600 Freeman Way, Sacra-

mento, at \$750 awarded contract by U. S. Bureau of Public Roads, San Francisco, to place 5.536 ml. selected material for surfacing on Sections B, C and D, Rt. 1, the Lake Tahoe National Forest Highway, Tahoe National Forest.

TRINITY COUNTY, Cal.—Granfield, Farrar & Carlin, 67 Hoff St., San Francisco, at \$67,918.80 awarded contract by U. S. Bureau of Public Roads to grade 4.512 ml. Section D, Rt. 5, Douglas City Peanut National Forest Highway, Trinity National Forest.

HUMBOLDT COUNTY, Cal.—Until October 13, 2 p. m., bids will be received by the State Highway Commission, Sacramento, to grade and surface with screened gravel 1.9 ml. between Jordan Creek and South Scotia Bridge, involving:

- (1) 7 acres clear and grub right of way, loc. A;
- (2) 4.5 acres clear and grub right of way, loc. B;
- (3) 11.5 acres clear and grub right of way, loc. C;
- (4) 10 each remove and grub redwood trees, size 1;
- (5) 20 each remove and grub redwood trees, size 2;
- (6) 20 each remove and grub redwood trees, size 3;
- (7) 17 each remove and grub redwood trees, size 4;
- (8) 6 each remove and grub redwood trees, size 5;
- (9) 5 each remove redwood trees, size 1;
- (10) 8 each remove redwood trees, size 2;
- (11) 3 each remove redwood trees, size 3;
- (12) 3 each remove redwood trees, size 4;
- (13) 4 each remove redwood trees, size 5;
- (14) 2 each remove redwood trees, size 6;
- (15) 118,000 cu. yds. roadway excav., unclass;
- (16) 643,500 sta. yds. overhaul;
- (17) 1250 cu. yds. struc. excav.;
- (18) 70 cu. yds. class A Portland cem. conc. struc.;
- (19) 5300 lbs. bar reinf. steel struc.;
- (20) 15,350 cu. yds. gravel base;
- (21) 5400 cu. yds. screen. grav. surf.;
- (22) 2050 M gal. water;
- (23) 120 lin. ft. 8-in. cor. met. pipe;
- (24) 370 lin. ft. 18-in. cor. met. pipe;
- (25) 210 lin. ft. 24-in. cor. met. pipe;
- (26) 180 lin. ft. 30-in. cor. met. pipe;
- (27) 76 lin. ft. 48-in. cor. met. pipe;
- (28) 110 lin. ft. cor. met. pipe clean and relay;
- (29) 500 lin. ft. 8-in. perf. met. pipe;
- (30) 1600 each horiz. redwood timber crib mom.;
- (31) 150 each timber guide posts and culvert mark. complete in place;
- (32) 1000 lin. ft. lam. timber guard rail;
- (33) 330 bbls. heavy fuel oil;
- (34) 108 sta. finishing roadway;
- (35) 50 each monuments complete in place.

Plans and specifications obtainable from State Highway Engineer, Department of Public Works, Public Works Bldg., Sacramento.

The State will furnish corrugated metal pipe and perforated metal pipe for under-drains as more explicitly set forth in the special provisions.

SAN LUIS OBISPO COUNTY, Cal.—Until October 18, 2 p. m., bids will be received by C. H. Purcell, State Highway Engineer, Department of Public Works, Public Works Bldg., Sacramento, to grade and pave 1.9 ml. with Portland cement concrete between Pismo and San Luis Obispo (at various locations between Pismo and San Luis Obispo), involving:

- (1) 9600 cu. yds. roadway excav., unclass.;

- (2) 210,000 sta. yds. overhaul;
- (3) 45 cu. yds. struc. excav.;
- (4) 1600 cu. yds. remove existing macadam surface;
- (5) 1600 cu. yds. salvaged macadam base;
- (6) 14,400 sq. yds. reshaping existing surface;
- (7) 4740 cu. yds. class A Portland cem. conc. pave.;
- (8) 9 cu. yds. class A Portland cem. conc. struc.;
- (9) 112,000 lbs. bar reinf. steel pave. and struc.;
- (10) 4 lin. ft. 18-in. C.M.P.;
- (11) 6 lin. ft. 24-in. C.M.P.;
- (12) 1 only cast steel cover and frame for drop inlet;
- (13) 380 tons crusher run base;
- (14) 120 tons broken stone bituminous macadam;
- (15) 8 tons emuls. asphalt road oil, bituminous macadam;
- (16) 1500 bbls. heavy fuel oil;
- (17) 430 M gal. water;
- (18) 4 each embankment protector assemblies to be removed and replaced;
- (19) 60 ea. timber guide posts and culvert markers to be removed and reset;
- (20) 120 stations finishing roadway.

HUMBOLDT COUNTY, Cal.—Hemstreet & Bell, Marysville, submitted only bid to C. H. Sweetser, District Engineer, U. S. Bureau of Public Rds. 461 Market St., San Francisco, for maintenance of roads in the Hoopa Indian Reservation, Humboldt Co. California Federal Funds Project No. 1. Unit bids follow:

- (1) 1300 sq. yds. bit. wearing surface, \$1.25.
 - (2) 250 sq. yds. seal coat, \$.30.
 - (3) 500 lin. ft. painting hand rail, .20.
- Total bid, \$1800.

MONO COUNTY, Cal.—Basich Bros., 20550 Normandie Ave., Torrance, at \$117,005, awarded contract by State Highway Commission, to grade and surface with bituminous treated crushed gravel or stone 6.2 miles, between point Ranch and Dressler's Corner.

RIVERSIDE COUNTY, Cal.—Walter Trepte, 211 Scripps Bldg., San Diego, at \$47,670.75 awarded contract by State Highway Commission to grade and surface with oil treated crushed gravel or stone 9.2 ml. between Black Butte and Blythe.

CALAVERAS COUNTY, Cal.—Until October 18, 2 p. m., bids will be received by C. H. Purcell, State Highway Engineer, Department of Public Works, Public Works Bldg., Sacramento, to grade and surface 3.4 miles north of Angels Camp about 4.2 miles in length with crushed gravel or stone, involving:

- (1) 13 acres clear. and grub. right of way;
- (2) 82,000 cu. yds. roadway excav., unclass.;
- (3) 159,000 sta. yds. overhaul;
- (4) 2330 cu. yds. struc. excav.;
- (5) 6570 cu. yds. untreat. crushed gravel or stone surface;
- (6) 514 bbls. light fuel oil;
- (7) 150 bbls. heavy fuel oil;
- (8) 1025 M gal. water;
- (9) 193 cu. yds. class A Portland cem. concrete struc.;
- (10) 14,000 lbs. bar reinf. steel struc.;
- (11) 1106 lin. ft. 18-in. C.M.P.;
- (12) 638 lin. ft. 24-in. cor. M.P.;
- (13) 216 lin. ft. 30-in. C.M.P.;
- (14) 194 lin. ft. 36-in. C.M.P.;
- (15) 72 lin. ft. 42-in. C.M.P.;
- (16) 26 lin. ft. salvage exist. culverts;
- (17) 14 cu. yds. conc. remov. from existing structures and disposed of;
- (18) 6.1 ml. hog tight prop. fence, type A;

- (19) 0.69 ml. hog tight prop. fence, type B;
- (20) 1.17 ml. move and reset property fences;
- (21) 34 each fence gates;
- (22) 222 stations finishing roadway;
- (23) 66 each monuments complete in place.

NEVADA STATE—Until October 4, 2 P. M., bids will be received by S. C. Durkee, State Highway Engineer, Heroes Memorial Bldg., Carson City, Nevada, to reconstruct a portion of the State Highway System of Nevada in Lander County between 12 miles and 27 miles East of Austin Route 2, Section F-1, a length of 14.73 miles. Plans available from State Highway Engineer upon deposit of \$15, of which \$10 is returnable.

Complete list of quantities published Sept. 20.

ARIZONA STATE—Until 2 P. M., October 10, bids will be received by T. S. O'Connell, State Highway Engineer, Phoenix, Arizona, for highway construction on the Benson-Vail Highway, N.R.H. 18-B and C. The work begins at Cienega Creek and extends easterly to the Pima-Cochise County line, consists of placing base course and cutback plant mix and is to be completed on or before March 15, 1934. The principal items are:

- (1) 198,000 sq. yds. reshap. surf.;
- (2) 21,500 cu. yds. aggregate base course;
- (3) 71,600 cu. yd. mi. aggreg. base course, haul;
- (4) 284 M. gals. water;
- (5) 5000 cu. yds. shoulder material;
- (6) 16,900 cu. yd. mi. shoulder material, haul;
- (7) 21,740 tons plant mix;
- (8) 80,000 tons ml. plant mix, haul;
- (9) 1000 tons cutback asphalt;
- (10) 12.0 ml. placing plant mix;
- (11) 1000 cu. yds. screenings;
- (12) 200 sq. yds. placing intersections and other incidental items.

No contractor shall be eligible to submit a bid until duly licensed as a contractor in the State of Arizona and until his certified statements of financial resources, construction experience equipment, made on forms supplied by the Arizona Highway Department have been approved.

MONTEREY, SAN BENITO, SAN LUIS OBISPO and Santa Barbara Cos., Cal.—Until 2 P. M., October 4, bids will be received by the Department of Public Works, Division of Highways, at the office of the District Engineer, L. H. Gibson (District V), Highway Bldg., 50 Higuera St., San Luis Obispo, for about 276 miles of traffic stripe to be applied to the existing pavement in Monterey, San Benito, San Luis Obispo and Santa Barbara Counties, at various locations. Cash or certified or cashier's check, 10%.

STATE OF WASHINGTON—Until October 4, 10 A. M., bids will be received by W. H. Lynch, District Engineer, U. S. Bureau of Public Roads, Portland, Ore., for highway construction 4.294 ml. of St. Helena Highway Grading Project NR-15-N2, located within Columbia Forest, Cowlitz and Skamania Cos., State of Washington, involving:

- (1) Clearing 3 acres;
- (2) 33 acres grubbing;
- (3) 101,300 cu. yds. unclass. excav.;
- (4) 100,000 sta. yds. overhaul;
- (5) 4.294 ml. finish earth grad. road;
- (6) 1000 lin. ft. culverts (alt.);
- (8) 20,000 lin. ft. flattening and rounding of cut slopes.

Specifications obtainable from above office upon deposit of \$10.

SAN DIEGO CO., Cal.—Until 2 p. m., October 3, bids will be received by the Department of Public Works,

Division of Highways, at the office of the District Engineer, Union Bldg., San Diego, for highway construction in San Diego County, between the northerly city limits of San Diego and Poway Creek (XI-S.D-77-A), about 7.3 miles bituminous surface treatment to be applied to the existing surfacing and about 10 miles bituminous seal coat to be applied to the shoulders, involving:

- (1) 2025 tons screenings in place;
 - (2) 130 tons emuls. asphalt road in place;
 - (3) 210 bbls. light fuel oil in place;
 - (4) 100 tons asphalt road oil in place.
- Cash or certified or cashier's check, 10%. Plans may be obtained from the office of E. E. Wallace, District Engineer, District XI, San Diego.

LINCOLN COUNTY, Nevada.—Until Oct. 11, 2:30 p. m., bids will be received by S. C. Durkee, State Highway Engineer, State Highway Commission, Heroes Memorial Bldg., Carson City, for 13.5 miles between Pioch and Stonehouse, Lincoln County, Nevada, Rt. 7, Sec. D-1-N.R.H. 68, involving:

- (1) 90,400 cu. yds. rdwy. excav.;
- (2) 7 ac. clearing and grubbing;
- (3) 58,922 sta. yds. overhaul;
- (4) 10,117 cu. yds. select borrow;
- (5) 1800 cu. yds. struc. excav.;
- (6) 13.5 mi. sub-grade;
- (7) 43,300 cu. yds. crush. grav. or stone surf.;
- (8) 69 cu. yds. class A conc.;
- (9) 120 cu. yds. class B conc.;
- (10) 9700 lbs. reinf. steel;
- (11) 16 remove culvert headwalls;
- (12) 414 lin. ft. 15-in. C.M.P.;
- (13) 1988 lin. ft. 18-in. C.M.P.;
- (14) 1058 lin. ft. 24-in. C.M.P.;
- (15) 72 lin. ft. 30-in. C.M.P.;
- (16) 785 lin. ft. 6-in. cast iron pipe;
- (17) 60 lin. ft. 4-in. cast iron pipe;
- (18) 217 lin. ft. remove culvert pipe;
- (19) 64 lin. ft. relay culvert pipe;
- (20) 120 move pipe culvert headwalls;
- (21) 104 monuments;
- (22) 4 remove culverts (wooden);
- (23) 5 cu. yds. remove concrete;
- (24) 1600 lbs. castings;
- (25) 13.5 mi. finish rdwy.

Plans and specifications available at above office and the Bureau of Public Roads, 461 Market St., San Francisco, upon the deposit of \$15, \$10 returnable.

COCONINO COUNTY, Ariz.—Until October 10, 10 A. M., bids will be received by the Bureau of Public Roads, C. H. Sweetser, District Engineer, 802 Title & Trust Bldg., Phoenix, Ariz., for grading Section E of the Cameron-Desert View Approach to Grand Canyon National Park, Coconino Co., Ariz., involving:

- (1) 20,300 cu. yds. unclass. excav.;
- (2) 600 cu. yds. unclass. excav. for struc.;
- (3) 31,200 cu. yds. unclass. excav. for borrow;
- (4) 1000 sta. yds. overhaul;
- (5) 2,623 mi. finish earth graded rd.;
- (6) 323 cu. yds. concrete;
- (7) 25,500 lbs. reinf. steel;
- (8) 1050 lin. ft. C.M.P.;
- (9) 390 lbs. bronze bearing plates;
- (10) 11,400 cu. yds. ml. borrow haul
- (11) 99 lin. ft. steel hand rail.

Plans and specifications obtainable at the above office or at 807 Sheldon Bldg., San Francisco, upon deposit of \$10, returnable.

SAN BERNARDINO COUNTY, Cal.—Until October 18, 2 p. m., bids will be received by C. H. Purcell, State Highway Engineer, Department of Public Works, Public Works Bldg., Sacramento, to grade and pave 3.5 mi. with Portland cement concrete between Sierra Ave. and Riverside Ave., involving:

- (1) 182 sta. clear and grub right of way;
- (2) 13,600 cu. yds. ordaway excav., unclass.;
- (3) 38,000 sta. yds. overhaul;
- (4) 16,000 cu. yds. selected material;
- (5) 1450 cu. yds. struc. excav.;
- (6) 39,500 sq. yds. subgrade for pave.;
- (7) 8,500 cu. yds. class A Portland cem. conc. pave.;
- (8) 381 cu. yds. class A Portland cem. conc. struc.;
- (9) 244,000 lbs. bar reinf. steel pave. and struc.;
- (10) 304 lin. ft. 18-in. C.M.P.;
- (11) 112 lin. ft. 24-in. C.M.P.;
- (12) 70 lin. ft. 36-in. C.M.P.;
- (13) 1900 M gal. water;
- (14) 1800 bbls. heavy fuel oil;
- (15) 3.4 mi. mixing fuel oil and shoulder material;
- (16) 80 cu. yds. conc. remov. from existing pave. and struc. and disposed of;
- (17) 0.2 mi. erecting fence removed and reset;
- (18) 182 sta. finishing roadway;
- (19) 60 each monuments complete in place.

UMATILLA COUNTY — Emigrant Springs-Summit Section of Old Oregon Trail. 6.05-mi. crushed rock surfacing and 7.1-mi. bituminous macadam wearing surface. Requires production of approximately 37,000 cu. yds. crushed rock.

WASHINGTON COUNTY—Hillsboro-Beaverton Section of Tualatin Valley Highway, 8.97-mi. asphaltic concrete pavement.

Plans and specifications obtainable from the office of the State Highway Commission, Room 322, State Office Bldg., Salem, Ore., on deposit of \$5 per set.

MARIPOSA CO., Cal.—Until October 10, 2 p. m., bids will be received at the office of the Bureau of Public Roads, 807 Sheldon Bldg., 461 Market St., San Francisco, for placing a crushed rock base course on Section A-1, Route 5, Wawona Road-Glacier Point, Yosemite National Park, Mariposa County, Cal., involving:

- (1) 5000 cu. yds. unclass. excavation (approx.);
- (2) 8,601-mi. fine grading subgrade and shoulders;
- (3) 2200 M. gals. watering;
- (4) 27,500 tons cru. rock base course;
- (5) 2700 tons suppl. crushed rock.

Plans and specifications available at the above office on deposit of \$10. C. H. Sweetser, District Engineer.

SAN FRANCISCO—Bids previously received have been rejected as excessive and new bids will be received until October 4, between 1:30 and 2:30 P. M., by the Department of Public Works, William H. Worden, Director, Room 251, City Hall, to improve Gaven Street, between Barneveld Ave. and Merrill St. Work includes construction of armored concrete curbs, side sewers and laying 2-inch asphaltic concrete wearing surface and a 6-in. Class F concrete base, involving:

- (1) 100 ft. armored concrete curb;
- (2) 80 ft. 6-in. side sewer;
- (3) 2000 sq. ft. asphalt concrete pave.

SAN FRANCISCO—Until October 4, 2:30 P. M., bids will be received by the Department of Public Works, S. J. Hester, Deputy Director, Room 251, City Hall, to construct retaining wall east side of Iron Alley, between Corbett Ave. and Graystone Terrace. Estimated cost \$3000. Work involves excavation, concrete, steel, plastering, miscellaneous iron work, tile drains, rat-proofing, painting and carpentry.

Plans and specifications obtainable from above. Deposit of \$5 required.

TEHAMA COUNTY, Cal.—Hemstreet & Bell, 501 Eleventh St., Marysville, at \$198,183, awarded contract by State Highway Commission to grade 13.8 miles between Red Bluff and 1.5 miles east of Dales. Complete bids published September 21.

SAN FRANCISCO.—Department of Public Works, S. J. Hester, Chief Deputy Director, plans to improve curbs and sidewalks where not improved on Shipley Street, Fourth to Fifth (Expediency). Estimated cost, \$488.

HUMBOLDT COUNTY, Cal.—Mittry Brothers Construction Co., 5531 Downey Road, Los Angeles, at \$334,206, awarded contract by State Highway Commission to grade and surface with screened gravel 7.6 miles, between Benbow and 7 miles north of Garberville. Complete bids published September 22.

LANE COUNTY, Ore.—F. C. Dillard, Medford, Ore., at \$126,990, submitted low bid to W. H. Lynch, District Engineer, U. S. Bureau of Public Roads, Portland, on contract for 4.553 miles Willamette Highway, Project NR-21 S1, F, Cascade National Forest.

SAN FRANCISCO.—E. J. Treacy, 209 Call Bldg., San Francisco, awarded contract, at \$676.25, by Department of Public Works to improve Rutledge St., from Alabama to Peralta. Bids opened September 20.

YUBA COUNTY, Cal.—A. J. Raisch, 251 Kearny St., San Francisco, at \$81,753 awarded contract by State Highway Commission to grade and pave with asphalt concrete 2.5 miles between Wheatland and Morrison Crossing. Complete bids published September 22.

SONOMA COUNTY, Cal.—Helwig Construction Co., Sebastopol, at \$4,510.80 awarded contract by State Highway Commission, San Francisco, to apply 4.2 mi. bituminous surface treatment between Willow Brook and Haystack. Complete bids published September 12.

MONTEREY COUNTY, Cal.—A. J. Raisch, Burrell Bldg., San Jose, at \$141,745.80 awarded contract by State Highway Commission to grade and surface with asphaltic concrete 6 mi. between Gonzales and Chualar. Complete bids published Sept. 21.

WHATCOM COUNTY, Wash.—L. Romane Engineering Corp., 1300 Dearborn St., Seattle, Wash., at \$56,884.30 awarded contract by U. S. Bureau of Public Roads, Portland, Oregon, to surface 11.0965 mi. Baker River Project NR-24-A2,B2,C3, Mt. Baker National Forest.

LANE COUNTY, Oregon — F. C. Dillard, Medford, Oregon, at \$126,990.60 for reinforced concrete pipe, and at \$126,990.60 for corrugated galvanized metal pipe, submitted low bid to W. H. Lynch, District Engineer, U. S. Bureau of Public Roads, 316 New Post Office Bldg., Portland, to construct Willamette Highway Grading Project NR-21E1, F, Cascade National Forest. F. C. Dillard recommended for award on basis of reinforced concrete pipe.

LOS ANGELES, Cal.—Arthur E. Pearson, 2225 Glencot Ave., Venice, awarded contract by Los Angeles Board of Public Works at \$3784.51 for improvement on Beaudry Ave., between Figueroa and Alpine Sts. Bids opened Sept. 10.

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

SAN BERNARDINO COUNTY — OVERPASS — STATE

SAN BERNARDINO CO., Cal.—
 J. F. Knapp, 1401 Park Ave., Oakland, at \$189,985.50 submitted low bid to State Highway Commission, Sacramento, to construct an overhead crossing over the tracks of the A. T. & S. F. Ry. in the city of San Bernardino, consisting steel and concrete viaduct 1016 ft. long and roadway approaches to be graded and paved with Portland cement concrete.

- Complete bids follow:
 (A) J. F. Knapp, Oakland...\$189,985.50
 (B) Weymouth & Crowell Co., Los Angeles 199,486.10
 (C) Lindgren & Swinerton, San Francisco 199,754.25
 (D) Clinton Construction Co., Los Angeles 203,000.00
 (E) Lynch Cannon Eng. Co., Los Angeles 209,371.00

- (F) M. B. McGowan, S. F..... 211,670.00
 (G) Byerts & Dunn, L. A. 213,666.80
 (H) Sander & Pierson and Dimmitt & Taylor, L. A. 217,765.50
 (I) H. M. Baruch Corp., Ltd., Los Angeles..... 230,405.80
 (J) Morrison, Knudson Co., Los Angeles 240,533.30
 (K) United Concrete & Pipe Corp., Los Angeles..... 249,310.60
 (1) 2500 cu. yds. struc. excav.;
 (2) 12,900 cu. yds. imp. borrow;
 (3) 10,800 sq. yds. subgrade for pave;
 (4) 3450 cu. yds. class A Port. cem. conc. (struc.);
 (5) 82 cu. yds. class E do (railings);
 (6) 2250 cu. yds. class A do (pave);
 (7) 140 cu. yds. do (curbs & gutters)
 (8) 35 cu. yds. do (sidewalks);
 (9) 18 cu. yds. do (slope paving);
 (10) 401,000 lbs. bar reinf. steel;

- (11) 405,000 lbs. old struc. steel (re-fabricate and erect);
 (12) 1,315,000 lbs. new struc. steel;
 (13) 14,330 lin. ft. furnish crec. Douglas Fir piles (incl. test piles);
 (14) 567 drive do;
 (15) 1 MFEBM redwood timber dense sel. all-heart struc. grade;
 (16) 1 lot lighting equip.;
 (17) 72 lin. ft. 24-in. corr. metal pipe;
 (18) 108 lin. ft. 30-in. do;
 (19) 118 lin. ft. 36-in. do;
 (20) 1100 lbs. drop inlet covers, frames and grilles;
 (21) 1 exist. viaduct remove and dispose of;
 (22) 1 lot exist. pave. curbs, gutters and sidewalks remove and dispose of;
 (23) 1 lot misc. items of work.
 Unit prices follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)
(1)	\$ 1.25	\$.72	\$ 1.20	\$ 1.95	\$ 1.50	\$ 2.50	\$ 2.00	\$ 2.00	\$ 4.00	\$ 5.00	\$ 3.00
(2) .....	.50	.43	.50	.45	.65	.40	.60	.60	.93	.75	1.00
(3) .....	.10	.08	.17	.08	.10	.12	.10	.13	.076	.08	.10
(4)	12.00	12.25	13.20	12.70	12.50	15.00	11.00	15.20	13.35	16.00	16.00
(5)	40.00	47.00	54.60	69.00	30.00	50.00	50.00	69.00	67.40	60.00	70.00
(6)	7.50	7.00	8.35	8.30	8.50	6.50	8.00	7.95	7.00	10.00	12.00
(7)	10.00	11.00	12.50	13.00	15.00	14.00	12.00	14.50	9.15	12.00	20.00
(8)	10.00	9.00	13.00	14.70	15.00	15.00	14.00	10.00	8.80	12.00	20.00
(9)	10.00	9.00	12.00	10.50	12.50	13.50	15.00	10.00	8.60	15.00	20.00
(10) .....	.04	.041	.0405	.0375	.04	.04	.04	.046	.0364	.04	.05
(11) .....	.0225	.019	.0224	.022	.015	.015	.02	.016	.0297	.02	.025
(12) .....	.045	.054	.0468	.0478	.0475	.05	.05	.05	.0514	.05	.045
(13) .....	.50	.52	.535	.445	.45	.40	.46	.50	.65	.50	.60
(14)	7.00	10.40	8.50	7.75	15.00	13.00	10.00	14.00	14.20	10.50	10.00
(15)	75.00	93.00	99.00	115.00	100.00	140.00	100.00	96.00	80.00	135.00	100.00
(16)	5,600.00	6,100.00	5,229.00	5,309.00	3,500.00	4,000.00	6,000.00	5,500.00	5,620.00	6,000.00	5,000.00
(17)	2.50	2.60	2.00	2.52	2.00	3.50	2.00	2.00	1.90	2.40	2.50
(18)	3.00	3.00	3.00	2.95	2.50	4.00	3.00	2.50	2.50	3.50	4.00
(19)	5.00	5.00	5.00	4.15	4.50	6.00	4.00	4.00	3.80	5.00	5.00
(20) .....	.15	.08	.16	.165	.20	.15	.15	.15	.145	.20	.10
(21)	9,750.00	8,880.00	5,864.00	13,542.66	18,300.00	15,000.00	17,000.00	9,500.00	17,450.00	15,000.00	15,000.00
(22)	1,200.00	1,835.00	3,940.00	2,000.00	4,000.00	3,096.00	8,000.00	2,150.00	1,050.00	3,000.00	9,000.00
(23)	2,500.00	800.00	1,536.00	1,800.00	2,000.00	1,000.00	3,000.00	1,000.00	1,750.00	4,000.00	2,000.00

SAN BERNARDINO COUNTY — BRIDGE — STATE

SAN BERNARDINO CO., Cal.—
 R. Bishop, 5017 E. Broadway, Long Beach, at \$37,633 submitted low bid to State Highway Commission to construct a reinforced concrete slab bridge across San Timoteo Creek, about five miles west of Redlands, consisting of two 33-foot spans and two 27-foot spans on concrete pile bents and concrete abutments with wing walls on pile foundations, involving:

- (1) 1500 cu. yds. struc. excav.;
 (2) 7900 cu. yds. rdwy. excav., unclass.;
 (3) 2750 sq. yds. subgrade for pave.;
 (4) 143 cu. yds. remove and dispose of exist. pave.;

- (5) 1 existing bridge, remove and dispose of;
 (6) 3200 lin. ft. furnish crec. Douglas fir plies, includ. test piles;
 (7) 1050 lin. ft. furnish reinf. conc. piles, includ. test piles;
 (8) 139 drive crec. Douglas fir piles incld. test piles;
 (9) 30 drive reinf. conc. piles, incld. test piles;
 (10) 790 cu. yds. Class Port. cement concrete (struc.);
 (11) 9 cu. yds. do (railings);
 (12) 600 cu. yd. do. (paving);
 (13) 108 cu. yds. do (slope paving);
 (14) 105,000 lbs. bar reinf. steel;
 (15) 728 lbs. bronze expansion plates;
 (16) 1100 tons crushed gravel or stone surf. (detours and borders);

- (17) 260 bbls. heavy fuel oil (detours and borders);
 (18) 15 sta. finish rdwy.;
 (19) 1 lot misc. items of work.
 Complete bids follow:
 (A) R. R. Bishop Long Beach\$37,633.00
 (B) Dimmitt & Taylor, L. A. 38,064.30
 (C) John Oberg, L. A. 38,210.50
 (D) John Stronna, Pomona... 39,822.95
 (E) Clinton Const. Co., L. A. 40,528.55
 (F) Oscar O. Berg, L. A. 40,795.00
 (G) J. E. Haddock Pasadena 41,193.50
 (H) Byerts & Dunn, L. A. 41,750.50
 (I) H. M. Baruch Corp., Los Angeles 42,918.62
 (J) United Concrete Pipe Corp., Los Angeles 46,192.20
 Unit prices follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
(1)	\$.75	\$.66	1.00	\$.60	\$ 1.00	\$.60	\$ 1.00	\$.75	\$ 1.04	\$ 1.00
(2) .....	.35	.30	.25	.255	.30	.21	.25	.30	.47	.50
(3) .....	.10	.07	.10	.20	.12	.14	.12	.20	.059	.12
(4)	3.00	2.70	2.00	2.00	6.40	2.30	2.00	2.00	1.60	3.00
(5)	2000.00	1100.00	1000.00	805.00	900.00	887.00	800.00	1000.00	1900.00	1500.00
(6) .....	.46	.60	.48	.50	.458	.53	.48	.50	.58	.50
(7)	1.60	1.85	2.20	1.85	1.73	1.65	2.40	2.00	1.50	2.00
(8)	10.00	9.00	8.50	14.45	4.95	21.00	8.30	12.00	14.20	10.00
(9)	40.00	50.00	36.00	32.00	27.00	41.35	31.50	50.00	35.50	50.00
(10)	14.00	13.80	14.00	14.71	16.63	18.25	14.25	13.75	14.60	15.00
(11)	35.00	50.00	50.00	50.00	64.00	50.00	60.00	60.00	100.00	60.00
(12)	7.90	7.50	9.00	8.55	9.20	6.50	7.50	9.50	9.60	12.00
(13)	10.00	13.80	10.00	15.20	13.50	10.75	10.00	15.00	13.20	14.00
(14) .....	.41	.04	.04	.042	.038	.041	.05	.04	.046	.05
(15) .....	.25	.35	.25	.075	.40	.45	.40	.50	.38	.40
(16)	2.00	3.50	3.50	3.65	3.00	3.20	3.65	3.75	3.05	3.40
(17)	2.00	1.50	2.00	1.54	1.40	1.60	1.75	1.50	1.85	1.50
(18)	10.00	5.00	5.00	8.00	8.00	10.00	10.00	10.00	4.65	8.00
(19)	850.00	300.00	250.00	400.00	1000.00	400.00	2530.00	1600.00	330.00	1000.00

MOCCASIN SEWAGE SYSTEM — CITY

SAN FRANCISCO, Cal.—City Improvement Co., 2 Rostyn Court, Oakland, at \$8652.35 submitted low bid to Public Utilities Commission, Room 235, City Hall, to construct Moccasin sewage disposal system, Hetch-Hetchy Water System Contract No. 143.

Complete bids follow:

- (A) City Improvement Co., Oakland \$ 8,652.35
- (B) H. Reed, Berkeley 10,087.20
- (C) Baldwin & Butler, Berkeley \$10,388.75
- (D) E. J. Treacy, S. F. 17,845.50
- (E) Barrett & Hill, S. F. 19,388.00
- (1) 300 cu. yds. earth excav. for trenches and manholes;
- (2) 340 cu. yds. rock excav. do;
- (3) 50 cu. yds. earth excav. for struc;
- (4) 100 cu. yds. earth excav. for struc;
- (5) 140 lin. ft. backfill;

- (6) 1415 lin. ft. laying 8-in. cast iron pipe;
- (7) 180 lin. ft. furnish and lay 18-in. vit. pipe;
- (8) 5 manholes complete;
- (9) Fill existing septic tank and alter outlets (lump sum);
- (10) 500 sq. ft. crushed rock pave.;
- (11) Septic tank, sludge bed and auxiliary works (lump sum);
- (12) 1 cu. yd. class A concrete;
- (13) 25 cu. yds. class B concrete;
- (14) 28 cu. yds. class C concrete (in tunnel);
- (15) 3 cu. yds. class C concrete (not in tunnel);
- (16) 200 lbs. reinf. steel;
- (17) 10 bbls. extra cement;
- (18) 5 boxes precast division boxes;
- (19) 160 lin. ft. disposal field trench;
- (20) 250 lin. ft. 6-in. vit. pipe.

	(A)	(B)	(C)	(D)	(E)
(1)	\$ 1.33	\$ 1.25	\$ 1.00	\$ 2.50	\$ 2.50
(2)	2.20	3.00	4.75	3.00	5.00
(3)	1.80	1.00	1.00	3.50	1.50
(4)	2.11	2.50	3.00	5.00	3.50
(5)	8.60	10.00	12.00	28.00	30.00
(6)	.28	.34	.25	1.20	1.00
(7)	1.70	1.45	2.15	2.50	3.00
(8)	109.00	158.00	130.00	145.00	200.00
(9)	155.00	66.00	50.00	550.00	200.00
(10)	.07	.20	.15	.20	.30
(11)	3175.00	3250.00	3042.00	4500.00	6350.00
(12)	12.65	28.60	25.00	28.00	25.00
(13)	15.00	22.50	18.00	25.00	24.00
(14)	9.50	20.00	14.00	20.00	16.00
(15)	10.50	20.00	17.00	20.00	20.00
(16)	.05	.06	.055	.06	.05
(17)	3.00	3.35	3.20	3.75	3.00
(18)	50.00	16.50	15.00	25.00	30.00
(19)	1.80	3.50	3.75	11.00	6.00
(20)	.50	.58	1.00	1.00	1.50

TULARE COUNTY — GRADING — GOVT.

TULARE COUNTY, Cal.—Mittry Bros., 5531 Downey Road, Los Angeles, at \$222,711.25 submitted low bid to C. H. Sweetser, District Engineer, U. S. Bureau of Public Works, 461 Market St., San Francisco, to grade Section C, General Grant-Sequoia Park Approach Road, Sequoia National Forest.

Complete bids follow:

- (A) Mittry Bros., L. A. \$222,711.25
- (B) Gist & Bell, Arcadia 287,576.50
- (C) MacDonald & Kahn, S. F. 296,420.80
- (D) Bodenahmer Constr. Co., Oakland 296,594.70
- (E) Ishell Constr. Co., Carson City, Nev. 340,165.70
- (F) Engineer's estimate 243,580.10
- (1) 30 acres clearing;
- (2) 196,300 cu. yds. unclass. excav.;
- (3) 1200 cu. yds. do for struc.;
- (4) 238,000 sta. yds. overhaul;

- (5) 1600 cu. yds. mi. overhaul;
 - (6) 3.367-mi. finishing earth graded road;
 - (7) 2 cu. yds. class A concrete;
 - (8) 130 lbs. reinf. steel;
 - (9) 915 cu. yds. masonry;
 - (10) 188 lin. ft. 8-in. 16-ga. C.G.M.P. in place;
 - (11) 700 lin. ft. 18-in. 16-ga. do;
 - (12) 1612 lin. ft. 24-in. 14-ga. do;
 - (13) 90 lin. ft. 24-in. 12-ga. do;
 - (14) 86 lin. ft. 30-in. 12-ga. do;
 - (15) 1670 cu. yds. hand laid rock embankment;
 - (16) 14 each R/W monuments in place;
 - (17) 4 each type A spillway inlets;
 - (18) 600 lin. ft. type 6 stone guard rail;
 - (19) 400 lin. ft. special stone guard rail;
 - (20) Extra work.
- Unit prices follow:

	(A)	(B)	(C)	(D)	(E)	(F)
(1)	\$780.00	\$600.00	\$700.00	\$800.00	\$600.00	\$500.00
(2)	.90	1.10	1.15	1.10	1.40	.95
(3)	1.50	2.50	2.30	3.00	2.00	2.00
(4)	.01	.03	.03	.04	.03	.03
(5)	.50	.30	.18	75.00	.50	.25
(6)	300.00	500.00	500.00	500.00	600.00	300.00
(7)	50.00	50.00	50.00	40.00	50.00	40.00
(8)	.10	.10	.10	.10	.10	.07
(9)	6.00	25.00	22.00	25.00	25.00	18.00
(10)	1.10	1.00	1.10	1.00	1.00	.90
(11)	1.75	2.00	2.25	2.20	2.00	2.00
(12)	2.00	3.00	2.75	3.25	2.50	2.60
(13)	3.00	4.00	3.50	3.80	2.75	3.25
(14)	4.00	5.00	4.25	4.70	3.50	4.00
(15)	2.00	5.50	5.00	5.00	5.00	4.00
(16)	5.00	4.00	4.00	5.00	4.00	3.50
(17)	50.00	25.00	15.00	15.00	25.00	15.00
(18)	1.00	1.50	1.50	1.00	1.50	1.00
(19)	2.00	1.00	2.00	1.00	1.25	.75
(20)	500.00	500.00	500.00	500.00	500.00	500.00

BIDS OPENED

MONTEREY, Cal.—Guy F. Atkinson, 658 Russ Bldg., San Francisco, at \$1,688 per ton, a total of \$196,652, submitted low bid to U. S. District Engineer, San Francisco, to construct 400-ft. extension to Monterey breakwater, involving furnishing and placing 116,500 tons of stone.

Complete bids follow:

- (A) Guy F. Atkinson, San Francisco \$196,652.00
 - (B) Merritt, Chapman & Scott, San Pedro 274,357.50
 - (1) Alternate if Government bill of lading used \$244,650.00
 - (C) Healy-Tibbitts Const. Co., San Francisco \$283,677.50
 - (D) Engineer's estimate \$230,200.00
- Unit prices follow:
- | | (A) | (B) | (C) | (D) |
|---------|--------------|---------|-----|--------|
| \$1.688 | \$2.355 | \$2.435 | | \$1.97 |
| ..... | (1)alt. 2.10 | ..... |  | ..... |

BIDS OPENED

SACRAMENTO, Cal.—Lord & Bishop, Native Sons Bldg., Sacramento, at \$86,871.70 submitted low bid to State Highway Commission to construct an undergrade crossing under the tracks of the Southern Pacific Railroad between the Cosumnes River bridge and 1.25 mi. north of McConnell, consisting of two concrete abutments with wing walls and grade and pave 0.37 mi. with Portland cement concrete.

Complete bids follow:

- (A) Lord & Bishop, Sacramento \$86,871.70
- (B) Fredrickson & Watson, Oakland 91,455.65
- (C) Geo. Pollock Co., Sacramento 92,036.65
- (1) 23,900 cu. yds. rdwy. excav. unclass.;
- (2) 4450 cu. yds. struc. excav. (culv. and pipes);
- (3) 10,000 cu. yds. imp. borrow;
- (4) 340,000 sta. yds. overhaul;
- (5) 1250 tons untr. cru. gravel or stone surf. (detours);
- (6) 1325 tons bit. tr. cru. gravel or stone surf. (detours, borders, road approaches and flares);
- (8) 420 bbls. heavy fuel oil;
- (3) 48 bbls. light fuel oil;
- (10) 627 cu. yds. salv. base;
- (11) 300 cu. yds. remove and dispose of old conc. (pave. and struc.);
- (12) 460,000 gal. water;
- (13) 1490 cu. yds. class B Portland cem. conc.;
- (14) 84 cu. yds. class A do (struc.);
- (15) 1400 cu. yds. do (pave.);
- (16) 176 cu. yds. do (curbs and gutters);
- (17) 103,100 lbs. bar reinf. steel;
- (18) 6570 sq. yds. prepare subgrade;
- (19) 76 1/2 in. ft. clean and relay corr. metal pipe;
- (20) 233 lin. ft. salv. exist. do;
- (21) 2 move and reset headwalls;
- (22) 0.93-mi. move and reset property fence;
- (23) 0.24-mi. new property fence;
- (24) 1 property fence gate;
- (25) 78 sta. finish rdwy.;
- (26) 16 monuments complete in place;
- (27) 327 lin. ft. 8-in. perf. metal pipe;
- (28) 1960 lin. ft. 10-in. do;
- (29) 153 lin. ft. 10-in. corr. metal pipe with band couplers;
- (30) 198 lin. ft. 12-in. do;
- (31) 310 lin. ft. 18-in. do;
- (32) 1606 lin. ft. 24-in. do;
- (33) 330 lin. ft. 8-in. cast iron pipe;
- (34) 2985 lin. ft. 1 1/2-in. cast iron irrig. pipe;
- (35) 231 lin. ft. 2 1/2-in. do;
- (36) 30 1 1/2-in. irrig. outlets;
- (37) 1 2 1/2-in. do;
- (38) 500 lin. ft. solid timber guard rail;
- (39) 1510 lbs. cast steel catch basin covers and frames;

- (40) 1 lot pumping equip. complete, 2 units;
- (41) 590 lbs. pipe hand rails;
- (42) 1 lot misc. items of work.

Unit prices follow:

	(A)	(B)	(C)
(1)	\$.27	\$.27	\$.40
(2)	.75	.80	1.00
(3)	.23	.31	.50
(4)	.005	.005	.005
(5)	1.70	1.90	2.00
(6)	3.75	4.15	2.50
(7)	17.00	20.00	20.00
(8)	1.75	2.35	2.50
(9)	3.25	2.35	2.25
(10)	1.00	1.00	2.00
(11)	1.25	1.50	3.00
(12)	2.00	3.00	2.00
(13)	15.50	16.00	14.00
(14)	20.00	23.00	15.00
(15)	11.00	9.80	9.00
(16)	18.00	15.00	11.00
(17)	.044	.05	.05
(18)	.08	.10	.10
(19)	1.00	.45	.50
(20)	.50	.35	.50
(21)	10.00	13.00	25.00
(22)	300.00	130.00	70.00
(23)	400.00	650.00	500.00
(24)	15.00	15.00	15.00
(25)	5.00	5.00	10.00
(26)	2.50	3.00	3.00
(27)	.85	.90	2.00
(28)	1.00	1.75	2.25
(29)	1.00	1.10	1.10
(30)	1.10	1.30	1.20
(31)	1.50	1.60	1.60
(32)	2.25	2.60	2.50
(33)	1.50	1.50	2.50
(34)	.30	.40	.25
(35)	.50	.65	.40
(36)	8.00	6.50	8.00
(37)	16.00	6.50	10.00
(38)	.80	1.00	1.00
(39)	.12	.17	.10
(40)	3000.00	2340.00	3200.00
(41)	.10	.15	.10
(42)	500.00	1000.00	400.00

BIDS OPENED

ARIZONA STATE.—Orr & Rawls and L. C. Lashmet, Box 2183, Phoenix, submitted low bid to Arizona State Highway Commission, Phoenix, Sept. 20, at \$88,990.76, as previously reported, and at \$90,534.76 on alternate, for highway construction in N.R.H. 79-B. The work on N.R.H. 79-B begins approximately 16 miles south of Tombstone and extends southerly 2.1 miles, placing Aggregate Base Course and either Road or Plant Mix Oil Cake on 79-B and is to be completed on or before May 15, 1934, involving:

- (1) 33,865 cu. yds. rdwy. excav. (un-class);
- (2) 5822 cu. yds. drainage excav. (un-class);
- (3) 550 cu. yds. struc. excav. (un-class);
- (4) 6837 cu. yds. borrow excav. (un-class);
- (5) 2000 cu. yds. slides and over-breakage;
- (6) 27,653 sta. yds. earthwork over-haul;
- (7) 100 hrs. rolling;
- (8) 7256 cu. yds. aggregate base course;
- (9) 4520 cu. yds. aggregate base course, haul;
- (10) 241 cu. yds. class A conc. (incl. cement);
- (11) 17 299 lbs. reinf. steel bars (C.I.P.);
- (12) 36 lin. ft. 18-in. C.M.P. (C.I.P.), incl. bands;
- (13) 222 lin. ft. 30-in. C.M.P. (C.I.P.), do;
- (14) 472 lin. ft. 36-in. do;
- (15) 84 lin. ft. 42-in. do;
- (16) 8020 lin. ft. cable road guard, type A (C.I.P.);
- (17) 660 lin. ft. rail bank protection, type A (C.I.P.);
- (18) 430 lin. ft. rail bank protection type B (C.I.P.);

YUBA COUNTY—GRADE AND PAVE—STATE

YUBA COUNTY, Cal.—A. J. Raisch, 251 Kearny St., San Francisco, at \$81,753.50 submitted low bid to State Highway Commission to grade and pave with asphaltic concrete 2.5 miles between Wheatland and Morrison Crossing, involving:

- (1) 4000 cu. yds. rdwy. excav., un-class;
- (2) 10,000 sta. yds. overhaul;
- (3) 32,000 cu. yds. imp. borrow;
- (4) 20,000 cu. yds. pit run gravel;
- (5) 675 cu. yds. struc. excav.;
- (6) 17,100 sq. yds. subgrade for pave.
- (7) 12,000 sq. yds. asph. paint binder;
- (8) 11,500 tons asph. concrete;
- (9) 90 cu. yds. Class Port. cement conc., (struc.);
- (10) 7500 lbs. bar reinf. steel (struc.);
- (11) 240 lin. ft. 12-in. corr. metal pipe
- (12) 464 lin. ft. 18-in. do;
- (13) 64 lin. ft. 24-in. do;
- (14) 176 lin. ft. salvage exist. culverts
- (15) 12 culvert headwalls, remove and reset;
- (16) 40 cu. yds. Port. cem. conc. in exist. pave. and struc., remove and dispose of;
- (17) 1 timber spillway, remove and dispose of;
- (18) 260 lin. ft. timber guard rail, remove and reset;

	(A)	(B)	(C)	(D)	(E)	(F)
(1)	\$.20	\$.30	\$.20	\$.30	\$.30	\$.50
(2)	.04	.01	.005	.01	.01	.005
(3)	.26	.25	.31	.30	.40	.35
(4)	.35	.50	.41	.50	.60	.70
(5)	.70	.80	1.00	.80	1.00	.80
(6)	.08	.08	.08	.08	.08	.10
(7)	.02	.03	.02	.02	.02	.02
(8)	3.95	4.18	4.30	4.39	4.20	3.98
(9)	20.00	20.00	18.00	20.00	20.00	20.00
(10)	.05	.06	.05	.06	.05	.05
(11)	1.50	1.00	1.50	1.30	1.25	1.25
(12)	1.75	1.50	1.80	1.75	1.55	2.00
(13)	3.00	2.25	2.50	2.75	2.50	3.00
(14)	1.00	.20	.50	.60	.50	.50
(15)	10.00	10.00	15.00	10.00	10.00	10.00
(16)	2.50	4.00	3.00	2.50	2.00	5.00
(17)	150.00	50.00	200.00	15.00	25.00	10.00
(18)	.75	.50	.75	.80	.30	.50
(19)	50.00	50.00	50.00	50.00	100.00	100.00
(20)	100.00	200.00	200.00	150.00	300.00	300.00
(21)	500.00	700.00	700.00	600.00	750.00	600.00
(22)	20.00	30.00	15.00	25.00	12.50	25.00
(23)	12.00	15.00	10.00	18.00	12.00	14.00
(24)	2.00	1.25	.50	1.50	1.25	1.50
(25)	1.00	.50	.70	.60	.50	.45
(26)	35.00	16.00	20.00	30.00	25.00	28.00
(27)	100.00	80.00	100.00	90.00	80.00	83.00
(28)	90.00	80.00	100.00	90.00	80.00	83.00
(29)	100.00	300.00	200.00	100.00	200.00	300.00
(30)	2.00	1.60	3.00	2.00	1.60	2.00
(31)	4.00	5.00	5.00	5.00	5.00	5.00
(32)	1.50	2.00	2.00	2.00	2.00	1.50
(33)	4.00	3.00	2.00	3.00	3.00	2.50

- (19) 1.75 miles property fence, remove and dispose of;
- (20) 0.6 mile property fence, remove and reset;
- (21) 1.75 miles new property fence;
- (22) 10 fence gates;
- (23) 40 cu. yds. sack conc. riprap;
- (24) 1100 M. gals. water;
- (25) 1330 lin. ft. furnish redwood piles
- (26) 44 drive piles;
- (27) 36 MFBM redwood timber dense sel. all-heart struc. grade;
- (28) 7.5 MFBM redwood timber sel. all-heart struc. grade;
- (29) 3 miles shape detour road;
- (30) 745 bbls. light fuel oil;
- (31) 127 sta. finish rdwy.;
- (32) 15 monuments, remove and reset;
- (33) 20 new monuments complete in place.

Complete bids follow:
 (A) A. J. Raisch, S. F. \$81,753.50
 (B) Hanrahan Co., S. F. 84,836.70
 (C) Basich Bros., Torrance 85,952.20
 (D) Tiffany Construction Co., San Jose 88,992.10
 (E) Hemstreet & Bell, Marysville 91,837.70
 (F) A. Teichert & Son, Sacramento 92,056.50

Unit prices follow:

	(A)	(B)	(C)	(D)	(E)	(F)
(1)	\$.20	\$.30	\$.20	\$.30	\$.30	\$.50
(2)	.04	.01	.005	.01	.01	.005
(3)	.26	.25	.31	.30	.40	.35
(4)	.35	.50	.41	.50	.60	.70
(5)	.70	.80	1.00	.80	1.00	.80
(6)	.08	.08	.08	.08	.08	.10
(7)	.02	.03	.02	.02	.02	.02
(8)	3.95	4.18	4.30	4.39	4.20	3.98
(9)	20.00	20.00	18.00	20.00	20.00	20.00
(10)	.05	.06	.05	.06	.05	.05
(11)	1.50	1.00	1.50	1.30	1.25	1.25
(12)	1.75	1.50	1.80	1.75	1.55	2.00
(13)	3.00	2.25	2.50	2.75	2.50	3.00
(14)	1.00	.20	.50	.60	.50	.50
(15)	10.00	10.00	15.00	10.00	10.00	10.00
(16)	2.50	4.00	3.00	2.50	2.00	5.00
(17)	150.00	50.00	200.00	15.00	25.00	10.00
(18)	.75	.50	.75	.80	.30	.50
(19)	50.00	50.00	50.00	50.00	100.00	100.00
(20)	100.00	200.00	200.00	150.00	300.00	300.00
(21)	500.00	700.00	700.00	600.00	750.00	600.00
(22)	20.00	30.00	15.00	25.00	12.50	25.00
(23)	12.00	15.00	10.00	18.00	12.00	14.00
(24)	2.00	1.25	.50	1.50	1.25	1.50
(25)	1.00	.50	.70	.60	.50	.45
(26)	35.00	16.00	20.00	30.00	25.00	28.00
(27)	100.00	80.00	100.00	90.00	80.00	83.00
(28)	90.00	80.00	100.00	90.00	80.00	83.00
(29)	100.00	300.00	200.00	100.00	200.00	300.00
(30)	2.00	1.60	3.00	2.00	1.60	2.00
(31)	4.00	5.00	5.00	5.00	5.00	5.00
(32)	1.50	2.00	2.00	2.00	2.00	1.50
(33)	4.00	3.00	2.00	3.00	3.00	2.50

YOLO AND BUTTE COUNTIES — BIT. SURF. — STATE

YOLO & BUTTE COS., Cal.—E. A. Ford, 41 Sunnyside Ave., San Anselmo, at \$35,851.92 submitted low bid to State Highway Commission to apply bituminous surface treatment over 3.9 miles between Davis Wye and Willow Slough, Yolo County, and in Butte County over 4 miles between 0.75 mi. north of Rock Creek and 0.1 mi. south of Pine Creek.

Complete bids follow:
 (A) E. A. Ford, San Anselmo \$35,851.92
 (B) Pacific Truck Service, Inc., San Jose 36,420.91
 (C) Tiffany Construction Co., San Jose 36,894.50

- (D) C. W. Wood, Stockton 36,908.50
 - (E) J. C. Compton, McMinnville, Ore. 37,055.00
 - (F) Granite Construction Co., Watsonville 37,581.00
 - (G) A. Teichert & Son, Sacramento 40,285.00
- (1) 4050 tons coarse rock and screenings, Loc. 1;
 (2) 4550 tons do, Loc. 2;
 (3) 115 tons emul. asph. road oil, type A., Loc. 1;
 (4) 136 tons do, Loc. 2;
 (5) 136 tons do, type B, Loc. 1;
 (6) 150 tons do, Loc. 2;

Unit prices follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
(1)	\$ 2.87	\$ 3.11	\$ 2.90	\$ 2.90	\$ 3.00	\$ 3.06	\$ 3.15
(2)	2.97	2.87	2.50	2.95	3.10	3.16	3.35
(3)	17.80	17.59	19.00	20.00	18.50	18.00	21.00
(4)	19.20	19.50	20.50	21.50	20.75	20.00	22.00
(5)	20.27	20.21	21.50	22.00	19.75	20.00	23.00
(6)	22.00	22.29	22.50	23.50	21.25	22.00	25.00

- (19) 21,710 lin. ft. standard line fence (C.I.P.);
- (20) 420 lin. ft. reconstr. fence(C.I.P.);
- (21) 34 each right-of-way markers (C.I.P.);
- (22) lump sum, removal 3 old conc. bridges;
- (23) 600 cu. yds. removal approach fills;
- (24) 67 M. gals. sprinkling (C.I.P.);
- (25) 739 cu. yds. shoulder material;
- (26) 460 cu. yds. mi. shoulder material, haul;
- (27) 2701 cu. yds. mineral aggregate (C.I.P.);
- (28) 47,414 gals. road oil (C.I.P.);
- (29) 2075 mi. processing road mix;
- (30) 177 cu. yds. screenings (C.I.P.);
- Structures Over 20-Ft. Clear Span**
- (31) 2000 cu. yds. drainage excav. (un-class);
- (32) 537 cu. yds. struc. excav. (un-class);
- (33) 9 cu. yds. class A-A conc. (incl. cem.);
- (34) 212 cu. yds. class A conc. (incl. cem.);
- (35) 82 cu. yds. class B conc. (incl. cem.);
- (36) 23,450 lbs. reinf. steel bars(C.I.P.);

- (37) 59,995 lbs. struc. steel (C.I.P.);
 - (38) 18 cu. yds. mineral aggregate (C.I.P.);
 - (39) 605 gals. road oil (C.I.P.);
 - (40) 0.020 mi. processing road mix;
 - (41) 2 cu. yds. screenings (C.I.P.);
 - ALTERNATE ROADWAY (In lieu of Items 16, 27, 28, 29 and 30):**
 - (16a) 8020 lin. ft. steel plate road guard; "C.I.P.);
 - (27a) 371 1/2 tons plant mix (incl. haul);
 - (28a) 186 tons cutback asph. (pl. mix mix seal coat);
 - (29a) 2.075 mi. placing plant mix;
 - (30a) 177 cu. yds. screenings (C.I.P.)
 - ALTERNATE BRIDGES (In lieu of Items 38, 39, 40 and 41):**
 - (38a) 24 tons plant mix (incl. haul);
 - (39a) 2 tons cutback asph. (pl. mix seal coat);
 - (40a) 0.020 mi. placing plant mix;
 - (41a) 2 cu. yds. screenings (C.I.P.)
- The total bids follow:
- (A) Orr, Rawls & Lashmet.....\$88,990.76
 - Alternate\$90,594.76
 - (B) Phoenix-Tempe Stone Co., Phoenix\$91,529.85
 - Alternate\$106,300.84
 - (C) Pleasant-Hasler Constr. Co., Phoenix\$98,804.41

Alternate \$109,188.32

Unit prices follow:

	(A)	(B)	(C)
(1)	\$.88	\$.85	\$.94
(2) .....	.75	.70	.94
(3)	1.25	1.50	1.80
(4) .....	.30	.25	.30
(5) .....	.66	.6375	.705
(6) .....	.03	.02	.03
(7)	2.00	3.50	3.75
(8) .....	.55	.70	.75
(9) .....	.20	.20	.12
(10)	22.00	27.00	23.00
(11) .....	.055	.05	.05
(12)	1.75	1.85	2.25
(13)	3.00	3.75	3.75
(14)	4.75	6.00	6.50
(15)	5.95	7.00	7.50
(16) .....	.80	.80	.85
(17)	3.00	3.50	3.25
(18)	2.00	2.00	2.50
(19) .....	.08	.08	.10
(20) .....	.08	.08	.10
(21)	3.50	3.00	3.00
(22)	1500.00	750.00	1000.00
(23) .....	.35	.60	.50
(24)	3.00	2.50	3.50
(25) .....	.65	.70	.75
(26) .....	.20	.25	.12
(27) .....	.85	1.00	1.75
(28) .....	.08	.065	.06
(29)	700.00	1000.00	600.00
(30)	4.00	2.50	4.00

Structures Over 20-Ft. Span

(31) .....	.35	.50	.50
(32) .....	.85	1.50	1.80
(33)	80.00	80.00	70.00
(34)	22.00	26.00	23.00
(35)	21.00	21.00	23.00
(36) .....	.055	.05	.05
(37) .....	.06	.06	.07
(38) .....	.85	1.00	1.75
(39) .....	.08	.065	.06
(40)	700.00	1000.00	600.00
(41)	4.00	2.50	4.00

ALTERNATE ROADWAY (In lieu of Items 16, 27, 28, 29 and 30):

(16a)	1.00	1.00	1.00
(27a)	3.86	3.30	3.30
(28a)	28.00	26.00	26.00
(29a)	450.00	400.00	400.00
(30a)	5.00	4.00	4.00

ALTERNATE BRIDGES (In lieu of Items 38, 39, 40 and 41):

(38a)	3.86	3.30	3.30
(39a)	28.00	26.00	26.00
(40a)	450.00	400.00	400.00
(41a)	5.00	4.00	4.00

HUMBOLDT COUNTY — GRADE & SURFACE — STATE

- HUMBOLDT COUNTY, Cal.—Mittry Bros. Construction Co., 5531 Downey Road, Los Angeles, at \$334,206 submitted low bid to State Highway Commission to grade and surface with screened gravel 7.6 miles between Benbow and 7 miles north of Garberville, involving:
- (1) 85 acres clear and grub right of way, Loc. A;
 - (2) 6 acres do, Loc. B;
 - (3) 716,000 cu. yds. rdwy. excav., un class;
 - (4) 3,815,000 sta. yds. overhaul;
 - (5) 7920 cu. yds. struc. excav.;
 - (6) 1470 cu. yds. trench excav.;
 - (7) 1500 cu. yds. trench backfill;
 - (8) 8700 cu. yds. sel. material;
 - (9) 19,000 cu. yds. screened gravel surf.;
 - (10) 50,000 cu. yds. gravel base;
 - (11) 4000 M. gals. water;
 - (12) 370 cu. yds. Class A Port. cem. conc. struc.;
 - (13) 31,500 lbs. bar reinf. steel struc.;
 - (14) 340 lin. ft. 8-in. corr. metal pipe;
 - (15) 120 lin. ft. 10-in. do;
 - (16) 3700 lin. ft. 18-in. do;
 - (17) 2200 lin. ft. 24-in. do;
 - (18) 800 lin. ft. 30-in. do;

- (19) 480 lin. ft. 36-in. do;
 - (20) 70 lin. ft. 42-in. do;
 - (21) 220 lin. ft. 78-in. do;
 - (22) 50 lin. ft. 12-in. part circle corr. metal pipe;
 - (23) 130 lin. ft. 18-in. do;
 - (24) 200 lin. ft. 24-in. do;
 - (25) 1100 lin. ft. 8-in. perf. metal pipe underdrain;
 - (26) 550 lin. ft. corr. metal pipe, remove and dispose of;
 - (27) 800 timber guide posts and culvert markers;
 - (28) 64 MFBM redwood sel. all-heart struc. grade;
 - (29) 2700 sq. yds. sel surf. (log fill);
 - (30) 1300 bbls. fuel oil;
 - (31) 401 sta. finish rdwy.;
 - (32) 150 monuments complete in place.
- Complete bids follow:
- (A) Mittry Bros., L. A.\$334,206.00
 - (B) C. W. Wood, Stockton. 347,010.00
 - (C) Fredrickson & Watson, Oakland 387,005.50
 - (D) George Pollock Co., Sacramento 443,562.00
 - (E) Isbell Construction Co., Carson City, Nev. 562,043.00

Unit prices follow:

	(A)	(B)	(C)	(D)	(E)
(1)	\$ 250.00	\$ 300.00	\$ 250.00	\$ 300.00	\$ 400.00
(2)	700.00	1000.00	1500.00	2500.00	3000.00
(3) .....	.27	.24	.30	.36	.45
(4) .....	.0025	.005	.005	.005	.007
(5) .....	.80	.50	.75	.70	1.00
(6) .....	.70	1.00	1.00	1.00	1.50
(7)	1.00	1.00	1.20	1.00	1.60
(8) .....	.50	.75	1.00	1.00	1.50
(9)	1.00	1.00	.80	.90	1.25
(10) .....	.60	.75	.74	.80	1.10
(11) .....	.80	1.00	2.00	2.00	1.50
(12)	18.00	17.50	19.00	17.00	18.50
(13) .....	.055	.05	.055	.05	.06
(14)	1.00	1.25	.85	.82	.90
(15)	1.25	1.50	1.00	1.13	1.25
(16)	1.69	1.80	1.50	1.66	1.75
(17)	2.30	2.50	2.50	2.43	2.50
(18)	3.00	3.10	3.00	3.00	3.50
(19)	4.25	4.25	4.75	3.75	4.75
(20)	6.50	6.50	6.50	6.50	8.60
(21)	14.00	14.50	15.00	16.50	16.00
(22)	1.00	1.50	1.00	1.15	1.50
(23)	1.50	2.50	1.30	1.55	1.75
(24)	2.00	3.00	1.80	2.15	2.20
(25)	1.00	2.00	.80	2.00	.95
(26) .....	.80	.50	.40	.50	.25
(27)	1.00	3.00	2.50	1.00	3.00
(28)	60.00	70.00	70.00	65.00	70.00
(29) .....	.20	.50	.60	.25	.50
(30)	1.75	2.50	3.00	2.70	4.00
(31)	6.00	5.00	5.00	5.00	5.00
(32)	4.00	3.00	2.50	3.00	3.00

- MONO COUNTY, Cal.—Isbell Construction Co., Carson City, Nev., at \$54,424 submitted low bid to State Highway Commission, Sacramento, to grade and surface with selected material and apply bituminous treatment over 2.9 mi. between 2 mi. north of Leevining and Mono Inn.
- Complete bids follow:
- (A) Isbell Construction Co., Carson City, Nev.\$54,424.00
 - (B) Basich Bros., Torrance..... 60,405.60
 - (C) Hemstreet & Bell, Marysville 64,353.25
 - (D) Kennedy Construction Co., Oakland 89,995.85
- (1) 74,100 cu. yds. rdwy. excav. un-class;
 - (2) 200,000 sta. yds. overhaul;
 - (3) 3800 cu. yds. imp. borrow;
 - (4) 1150 cu. yds. fl struc. excav.;
 - (5) 4600 cu. yds. sel. surf. material;
 - (6) 405 bbls. light fuel oil;
 - (7) 365 tons cut-back asph. road oil;
 - (8) 2.86 ml. mix bit. binder and surf. material;
 - (9) 150 cu. yds. screenings;
 - (10) 20 cu. yds. class A Port. cem. conc (struc.);
 - (11) 1100 tons bar reinf. steel (struc.);
 - (12) 40 lin. ft. 12-in. pref. metal pipe underdrains;
 - (13) 1370 lin. ft. 18-in. corr. metal pipe;
 - (14) 106 lin. ft. 18-in. close riveted and soldered corr. metal pipe;
 - (15) 152 lin. ft. 24-in. corr. metal pipe;
 - (16) 146 lin. ft. corr. metal pipe, clean and relay;

SONOMA COUNTY — GRADE & SURFACE — STATE

SONOMA COUNTY, Cal.—Peninsula Paving Co., 715 Standard Oil Bldg., San Francisco, at \$63,021 submitted low bid to State Highway Commission, Sacramento, to grade and surface with crusher run base and bituminous treated crushed gravel or stone surfacing 0.9 ml. between Fairville and Shellville.

Complete bids follow:

- (A) Peninsula Paving Co., San Francisco \$63,021.00
- (B) C. W. Wood, Stockton 64,414.00
- (C) Central States Contr. Co., Oakland \$68,301.00
- (D) A. Teichert & Son, Sacramento \$73,407.60
- (E) D. McDonald, Sacramento 87,650.30
- (F) Hanrahan Co., S. F. 93,456.00

Complete bids follow:

- (1) 55 remove trees, size 1;
- (2) 70 do, size 2;
- (3) 59,200 cu. yds. rdwy. excav., unclass.;
- (4) 260,000 sta. yds. overhaul;
- (5) 330 cu. yds. struc. excav.;
- (6) 4950 tons cru. run base;

	(A)	(B)	(C)	(D)	(E)	(F)
(1)	\$ 5.00	\$ 5.00	\$ 10.00	\$ 15.00	\$ 25.00	\$ 20.00
(2)	6.00	10.00	30.00	20.00	50.00	30.00
(3)	.41	.45	.50	.57	.65	.70
(4)	.02	.01	.005	.005	.01	.02
(5)	1.25	.90	1.00	1.50	2.00	1.50
(6)	1.75	2.00	2.00	2.30	2.95	2.95
(7)	4.75	3.90	4.50	4.60	5.85	4.70
(8)	20.00	20.00	20.00	20.00	20.00	28.00
(9)	2.50	2.50	2.10	3.00	3.00	3.00
(10)	2.60	3.00	3.00	3.25	4.10	3.75
(11)	17.00	19.00	16.00	18.00	25.00	25.00
(12)	.05	.05	.06	.0475	.08	.06
(13)	1.00	1.00	1.00	1.00	.06	1.50
(14)	1.75	1.60	1.50	1.60	.75	3.00
(15)	3.00	2.75	3.00	3.00	1.00	4.00
(16)	15.00	5.00	20.00	12.00	10.00	25.00
(17)	10.00	10.00	10.00	12.50	30.00	25.00
(18)	125.00	200.00	200.00	450.00	450.00	300.00
(19)	20.00	16.00	20.00	20.00	30.00	18.00
(20)	18.00	15.00	30.00	17.00	25.00	16.00
(21)	1.50	2.00	1.00	1.00	2.00	1.50
(22)	2.00	3.00	2.00	2.50	1.00	3.00
(23)	.90	1.00	1.00	1.00	1.25	1.00
(24)	5.00	10.00	5.00	4.50	7.50	10.00
(26)	2.50	3.00	3.00	3.00	3.50	3.00

LOS ANGELES COUNTY — BIT. SURF. — STATE

LOS ANGELES COUNTY, Cal.—Griffith Co., 502 Los Angeles Railway Bldg., Los Angeles, at \$35,090.10 submitted low bid to State Highway Commission, Sacramento, to apply bituminous surface treatment and to super-elevate curves over 5 mi. between Oak Garage and Palmdale, involving:

- (1) 6350 tons coarse rock and screenings (retread surf. treatment);
- (2) 400 tons emul. asph. road oil (do);
- (3) 5000 sq. yds. asph. paint binder (curve super-elev.);
- (4) 1430 tons cru. rock (do);
- (5) 90 tons emul. asph. road oil (do).

Complete bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
(1)	\$ 2.98	\$ 3.85	\$ 4.00	4.20	\$ 4.90	\$ 5.00	\$ 4.50
(2)	24.00	22.00	24.00	24.75	27.50	26.50	35.00
(3)	.05	.015	.04	.025	.02	.12	.04
(4)	2.97	4.00	4.50	4.60	4.80	5.00	5.00
(5)	23.00	21.00	28.00	27.50	26.50	25.40	35.00

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
(1)	\$ 2.98	\$ 3.85	\$ 4.00	4.20	\$ 4.90	\$ 5.00	\$ 4.50
(2)	24.00	22.00	24.00	24.75	27.50	26.50	35.00
(3)	.05	.015	.04	.025	.02	.12	.04
(4)	2.97	4.00	4.50	4.60	4.80	5.00	5.00
(5)	23.00	21.00	28.00	27.50	26.50	25.40	35.00

GILA COUNTY, ARIZONA — BRIDGE — GOVT.

ARIZONA STATE.—Paul Michaelson, Globe, Ariz., at \$5094.50, submitted low bid to Bureau of Public Roads, 802 Title & Trust Bldg., Phoenix, Ariz., Sept. 21, for re-erecting steel truss bridge on Section I of Route 12, the Globe-Holbrook National Forest Highway, Tonto National Forest, Gila County, Arizona, involving:

- (1) 170 cu. yds. unclass. excav. for struc.;
- (2) 2 M.F.B.M. untreated timber, red-wood;

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	Total
(A)	\$2.00	\$75.00	\$60.00	\$22.00	\$21.50	\$10	\$270.00	\$80	\$5094.50
(B)	3.00	170.00	66.00	21.50	21.50	.07	805.80	1.00	5546.80
(C)	6.00	200.00	90.00	45.00	40.00	.10	900.00	.50	8275.00
(D)	2.00	110.00	60.00	27.00	24.00	.06	1100.00	.65	5517.00

- (3) 31 M. F. B. M. untreated timber, local pine;
- (4) 39 cu. yds. class A concrete;
- (5) 25 cu. dys. class B concrete;
- (6) 2700 lbs. reinf. steel;
- (7) re-erecting steel truss span in place, lump sum;
- (8) 280 sq. yds. asph. seal coat.

Complete bids follow:

(A) Paul Michaelson	\$5094.50
(B) Corrigan & Trethewey	5546.80
(C) Lewis Bros.	8275.00
(D) Engineer's Estimate	5517.00

- (17) 276 lin. ft. salvage exist. culverts
- (18) 1300 M gal. water;
- (19) 250 cu. yds. dry rubble walls;
- (20) 0.9 ml. exist. property fences remove and reset;
- (21) 1.5 ml. new property fence;
- (22) 5 fence gates complete in place;
- (23) 151 sta. finish rdwy;
- (24) 73 monuments complete in place.

State will furnish corr. metal pipe and perf. metal pipe underdrains.

Unit prices follow:

	(A)	(B)	(C)	(D)
(1)	...\$.33	\$.37	\$.45	\$.74
(2)	... .005	.02	.01	.01
(3)	... .55	.40	.45	.74
(4)	... 1.00	1.00	1.50	2.00
(5)	... .90	.85	.80	1.20
(6)	... 4.50	4.50	4.25	3.97
(7)	... 20.00	35.00	32.80	31.00
(8)	... 750.00	400.00	600.00	500.00
(9)	... 2.50	3.00	5.00	5.00
(10)	... 30.00	35.00	25.00	30.00
(11)	... .06	.06	.06	.08
(12)	... .30	1.00	1.00	.50
(13)	... .30	.30	.30	.50
(14)	... .50	.75	1.25	.50
(15)	... .50	.40	.40	.75
(16)	... 1.00	.50	.50	1.00
(17)	... .50	.30	.35	.50
(18)	... 1.00	1.50	1.00	1.00
(19)	... 6.00	4.00	5.00	10.00
(20)	... 275.00	200.00	75.00	150.00
(21)	... 450.00	350.00	400.00	400.00
(22)	... 20.00	15.00	15.00	15.00
(23)	... 5.00	5.00	5.00	5.00
(24)	... 3.00	3.00	4.00	3.00

COCONINO AND GILA COUNTIES

Arizona—Harry Hagen, Globe, Ariz., as previously reported, at \$127,500.50 submitted low bid to the Bureau of Public Roads, 802 Title & Trust Bldg., Phoenix, Sept. 21, for grading 6.87 mi. Section D, Rt. 10, the Pine-Winslow National Forest Highway, Coconino and Gila Counties, Arizona, involving:

- (1) 33 acre clearing;
- (2) 93,600 cu. yds. unclass. excav.;
- (3) 800 cu. yds. unclass. excav. for struc.;
- (4) 23,300 cu. yds. unclass. excav. for barrow;
- (5) 103,000 sta. yds. overhaul;
- (6) 6.870 mi. finish earth graded rd.;
- (7) 8 cu. yds. class A concrete;
- (8) 560 lbs. reinf. steel;
- (9) 400 cu. yds. cement rubble masonry;

- (10) 1656 lin. ft. 18-in. C.M.P. in place;
- (11) 394 lin. ft. 24-in. do;
- (12) 86 lin. ft. 36-in. do;
- (13) 7660 lin. ft. type I protection ditch;

- (14) 11,425 lin. ft. fence in place;
- (15) 4 each farm entrance gates;
- (16) 16,300 cu. yds. mi. borrow haul;
- (17) 10 each right-of-way monuments
- (18) 24 cu. yds. invert paving.

The total bars follow:

- (A) H. J. Hagen, Globe, Ariz., \$127,500.50.
- (B) All Arizona Engineering & Construction Co. and R. S. Black, Clifton, Ariz., \$139,857.
- (C) Pearson & Dickerson, Riverside, Calif., \$148,842.
- (D) Engineer's Estimate, \$89,008.

Unit bids follow:

	(A)	(B)	(C)	(D)
(1)	\$400.00	\$150.00	\$350.00	\$100.00
(2)	.80	1.05	.93	.60
(3)	2.00	2.00	2.00	2.00
(4)	.50	.40	.40	.30
(5)	.03	.03	.04	.03
(6)	200.00	150.00	200.00	200.00
(7)	40.00	30.00	50.00	35.00
(8)	.10	.10	.25	.10
(9)	25.00	26.00	47.50	27.00
(10)	2.00	2.20	3.00	1.75
(11)	3.00	3.00	3.75	2.75
(12)	5.50	6.00	6.00	4.00
(13)	.10	.08	.10	.10
(14)	.10	.10	.10	.12
(15)	25.00	25.00	20.00	20.00
(16)	.25	.20	.30	.15
(17)	4.00	5.00	3.00	3.50
(18)	10.00	16.00	17.50	14.00

BIDS OPENED

ORANGE COUNTY, Cal.—Griffith Co., 502 Los Angeles Railway Bldg., Los Angeles, at \$41,801.60 submitted low bid to State Highway Commission, Sacramento, to grade and pave with asphaltic concrete 1 ml. in Anaheim, between Sycamore St. and Romneya Drive, involving:

- (1) 21 sta. clear and grub right-of-way;
(2) 5600 cu. yds. rdwy. excav., unclass;
(3) 6000 ml. yds. overhaul;
(4) 350 cu. yds. struc. excav.;
(5) 1110 cu. yds. conc. remove from exist. pave., curbs, sidewalks, driveways and structures;
(6) 12,500 sq. yds. sub-grade for pave
(7) 16,330 sq. yds. asph. paint binder
(8) 7800 tons asph. conc.;
(9) 180 lin. ft. 24-in. corr. metal pipe;
(10) 470 cu. yds. class A Port. cem. conc. (curbs, gutters, sidewalks and driveways);
(11) 65 cu. yds. do (struc.);
(12) 4600 lbs. bar reinf. steel (struc.);
(13) 20,000 lbs. misc. iron and steel (struc);
(14) 21 sta. finish rdwy.

Complete bids follow:

- (A) Griffith Co., Los Angeles, \$41,801.60.
(B) P. K. Akmadzich, Los Angeles, \$44,548.60.
(C) Gogo & Rados, Los Angeles, \$46,303.60.

Unit bids follow:

Table with 4 columns: Item, (A), (B), (C). Lists items 1-14 with corresponding unit bid prices for three different contractors.

COMPLETE BIDS

ARIZONA STATE—Pleasant-Hasler Construction Co., 324 Luhrs Bldg., Phoenix, submitted low bid to Arizona State Highway Commission, Phoenix, September 20 at \$75,415.96, as previously reported (and at same amount for alternate bid) for highway construction in NRM 79-F and NRH 79-F, Benson-Douglas Highway. The work in NRH and NRM 79-F begins in the town of Tomhstone and extends northwesterly 8.9-mi., consist of the placing of base course and plant mix on the 79-F projects and the grading and draining. The bidders are:

- (A) Pleasant - Hasler Construction Co., Phoenix, \$75,415.96; alternate, same amount.
(B) Phoenix - Tempe Stone Co., Phoenix, \$79,044.80; alternate, same amount.

Unit bids follow:

- (1) 225 lin. ft. cable road guard, type A (C.I.P.);
(2) 2500 cu. yds. stripping pits;
(3) 135,908 sq. yds. reshaping road surface;
(4) 190 M gals. sprinkling (C.I.P.);
(5) 11,175 cu. yds. aggregate base course;
(6) 29,230 cu. yds. ml. aggregate base course, haul;
(7) 3697 cu. yds. shoulder material;
(8) 9598 cu. yds. mi. shoulder material, haul;
(9) 14,897 tons plant mix;
(10) 34,153 ton mi. plant mix, haul;
(11) 723 tons cutback asph. (plant mix and seal coat) (C.I.P.);
(12) 8.212-mi. placing plant mix;
(13) 621 cu. yds. screenings (C.I.P.);
(14) 1008 sq. yds. place intersections;

Structures Over 20-Ft. Clear Span

- (15) 23 cu. yds. aggregate base course;
(16) 97 cu. yds. ml. aggregate base course, haul;
(17) 100 tons plant mix;
(18) 199 tons mi. plant mix, haul;
(19) 5 tons cutback asph. (plant mix and seal coat) (C.I.P.);
(20) 0.036 mi. placing plant mix;
(21) 4 cu. yds. screenings (C.I.P.), NRM roadway;
(22) 520 cu. yds. roadway excav. unclass;
(23) 2080 cu. yds. mi. roadway excav., haul unclass;
(24) 9605 sq. yds. reshaping road surf.;
(25) 19 M gals. sprinkling (C.I.P.);
(26) 791 cu. yds. aggregate base course
(27) 2042 cu. yds. mi. aggregate base course, haul;
(28) 238 cu. yds. shoulder material;
(29) 614 cu. yds. mi. shoulder material, haul;
(30) 1082 tons plant mix;
(31) 4453 ton mi. plant mix, haul;
(32) 55 tons cutback asph. (plant mix seal coat);
(33) 0.540-mi. placing plant mix;
(34) 63 cu. yds. screenings (C.I.P.);
(35) 732 sq. yds. placing intersections;

Non-Federal Aid

- (36) 270 tons plant mix for stockpile (C.I.P.);
(37) 11 tons cutback asph. (stockpiled plant mix (C.I.P.);
(38) 11 cu. yds. stockpiled screenings (C.I.P.);
(39) 175 cu. yds. stockpiled aggregate (C.I.P.);
(40) 450 cu. yds. stockpiled base course (C.I.P.);

Alternate—N.R.H.

- (1-A) 225 lin. ft. steel plate rd. guard (C.I.P.).

Table with 4 columns: Item, (A), (B), (C). Lists items 1-24 with corresponding unit bid prices for three different contractors.

MARIN COUNTY, Cal.—A. J. Raisch, 251 Kearny St., San Francisco, at \$46,437.30 submitted low bid to State Highway Commission to grade and pave with asphaltic concrete 0.4 mile between Napa St. and Water St., Sausalito, involving:

- (1) 4500 cu. yds. rdwy. excav., unclass.;
(2) 19,000 sta. yds. overhaul;
(3) 9500 cu. yds. material from stockpile;
(4) 1400 cu. yds. struc. excav.;

- (5) 4500 tons asph: conc.;
(6) 5 cu. yds. Class A Port. cement conc., (struc.);
(7) 28 cu. yds. Class A do (curbs and gutters);
(8) 45 cu. yds. Class C do (sewer encasement);
(9) 400 lbs. bar reinf. steel;
(10) 3700 tons crusher run base;
(11) 1140 tons crushed gravel or stone (oil treated surf.);
(12) 11,255 sq. yds. asph. paint binder;
(13) 315 lin. ft. 12-in. vit. clay pipe;
(14) 705 l'n. ft. 18-in. extra strength reinf. conc. pipe;
(15) 168 lin. ft. 24-in. extra strength reinf. conc. pipe;
(16) 380 bbls. fuel oil;
(17) 40 tons screenings (seal coat);
(18) 50 M. gals. water;
(19) 240 cu. yds. existing concrete, remove and dispose of;
(20) 1896 lin. ft. lam. timber guard rail;
(21) 0.36 mille new property fence;
(22) 13 catchbasins;
(23) 21 sta. finish rdwy.;
(24) 11 monuments in place.

Complete bids follow:

- (A) A. J. Raisch, E. F. \$46,437.30
(B) Pacific States Const. Co. Co., San Francisco 48,043.85
(C) Vincent Maggora, Sausalito 49,884.20

Table with 4 columns: Item, (A), (B), (C). Lists items 1-24 with corresponding unit bid prices for three different contractors.

BIDS OPENED

ARIZONA STATE—Le Moor Contracting Co., El Paso, Texas, Submitted the low bid to the State Highway Engineer, T. S. O'Connell, Phoenix, Ariz., Sept. 18, at \$98,631.91, for bridge construction on the Globe-Showlow Highway, E-99-E. The work, which is located at the crossing of the Salt River 43 ml. northeast of Globe, consists of construction of a steel arch bridge with approach spans and the grading and draining of 1/2 mille of adjacent roadway, and is to be completed on or before February 15, 1934, involving:

- (1) 36,913 cu. yds. rdwy. excav. unclass.;
(2) 517 cu. yds. drainage excav. do;
(3) 126 cu. yds. struc. excav. unclass;
(4) 500 cu. yds. borrow excav. unclass;
(5) 2000 cu. yds. slides and over-breakage;
(6) 80,317 sta. yds. earthwork overhaul;
(7) 9 cu. yds. class B concr. includ. cement;
(8) 20 lbs. reinf. steel bars (C.I.P.);
(9) 64 lin. ft. 24-in. CMP (C.I.P. incl. bands);
(10) 46 lin. ft. 36-in. CMP (C.I.P. Incl. bands);
(11) 1670 lin. ft. cable road guard, type A (C.I.P.);
(12) 16 each right-of-way markers (C.I.P.);

STRUCTURES OVER 20 FT. CLEAR SPAN

- (13) 295 cu. yds. struc. excav. un-class;
 - (14) 812 cu. yds. class A conc. incl. cement;
 - (15) 71,960 lbs. reinf. steel bars (C.I.P.);
 - (16) 520,000 lbs. struc. steel (C.I.P.);
 - ALTERNATE (in Lieu of Item 11)
 - (11a) 1670 lin. ft. steel plate road guard (C.I.P.);
- Complete bids follow:
- (A) Lee Moor Constr. Co., El Paso, \$98,631.91; Alternate, \$99,132.91.
 - (B) Lynch-Cannon Engr. Co., Tempe, Arizona, \$102,378.63; Alternate, \$102,712.63.
 - (C) Hagen & Jacobson, Globe, Ariz., \$109,179.39; Alternate, \$109,262.89
 - (D) Phoenix-Tempe Stone Co., Phoenix, Ariz., \$117,175.51; Alternate, \$117,175.51.
 - (E) L. E. Dixon Co., Phoenix, Ariz., \$128,584.12; Alternate, \$128,918.12

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)
(1) .. \$.90 \$.90 \$.95 \$ 1.20 \$ 1.30					
(2) .. 1.00 .90 .40 1.00 1.25					
(3) .. 2.00 2.50 2.50 2.50 3.00					
(4) .. .27 .60 .30 1.50 1.25					
(5) .. .675 .675 .6125 .90 .975					
(6) .. .03 .025 .02 .03 .01					
(7) .. 23.50 30.00 29.00 40.00 30.00					
(8) .. .045 .10 .055 .10 .06					
(9) .. 3.10 2.75 3.00 5.00 4.00					
(10) .. 5.75 5.00 5.50 8.00 5.00					
(11) .. .80 .80 .95 1.00 1.00					
(12) .. 2.00 5.00 4.00 3.00 4.00					
(13) .. 2.00 2.50 2.50 3.00 6.00					
(14) .. 24.00 25.00 27.00 27.50 32.00					
(15) .. .045 .05 .055 .065 .06					
(16) .. .068 .073 .08 .07 .08					
(11a) 1.10 1.00 1.00 1.00 1.20					

SAN RAFAEL, Marin Co., Cal.—Lee J. Immel, 1031 Evelyn Ave., Berkeley, at \$6576 awarded contract by Marin County Board of Supervisors for surfacing county roads as follows: Indian Valley Road, Novato, 2.15 ml.; Vineyard Ave., Novato, 0.6 ml.; Marshall-Petaluma Road, 0.3 ml. and Chleno Valley Road, 2.2 ml.

- (1) 367 bbls. light oil;
- (2) 121 tons heavy oil;
- (3) 1260 tons rock;
- (4) 630 tons screenings.

Complete bids follow:

- (A) Lee J. Immel, Berkeley, \$6576.
- (B) E. A. Ford, San Anselmo, \$6930.70
- (C) Pacific Truck Service, San Jose, \$7108.15.
- (D) Albert Helwig, Sebastopol, \$7,239.73.

Unit bids follow:

	(A)	(B)	(C)	(D)
(1)..... \$ 2.00 \$ 1.60 \$ 1.85 \$ 2.26				
(2)..... 16.00 16.50 17.00 18.51				
(3)..... 2.00 2.30 2.26 2.15				
(4)..... 2.20 2.30 2.42 2.32				

SEATTLE, Wash.—Puget Sound Bridge and Dredging Co., Seattle, at \$178,120 submitted low bid to U. S. Engineer, Federal Bldg., Seattle, to dredge Lake Washington ship canal to a depth of 30 feet from the Ballard Bridge to Lake Union. Contract involves removal of about 662,000 cu. yds. of material.

Complete bids follow:
Puget Sound Bridge and Dredging Co., Seattle, \$178,120.

General Construction Co., Seattle, \$188,330.
Tacoma Dredging Co., Tacoma (partial bid), \$54,137. 22

RIVERSIDE COUNTY — OILING — STATE

RIVERSIDE COUNTY, Cal.—Clyde W. Wood, Box 1435, Stockton, at \$16,545 submitted low bid to State Highway Commission, Sacramento, to treat with fuel oil 19.6 miles between 4 miles east of Mecca and Shavers Summit.

- Complete bids follow:
(A) C. W. Wood, Stockton, \$16,545.00
(B) Matich Bros. and Geo. Gardner & Sons, Elnore 22,941.00
(C) Gogo & Rados, L. A. 26,677.50

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
(1) .....\$1.90 \$2.62 \$3.50 \$3.05 \$3.18 \$3.40 \$3.44							
(2) 2.50 4.50 5.00 5.00 5.00 5.00 4.50							

- (D) Walter Trepte, San Diego 26,677.50
 - (E) E. L. Yeager, San Bernardino 27,789.00
 - (F) A. Teichert & Son, Sacramento 29,670.00
 - (G) Oilfields Trucking Co., Bakersfield 29,952.00
 - (1) 8500 bbls. heavy fuel oil (roadbed);
 - (2) 120 bbls. heavy fuel oil (tr. surf. material in stockpiles).
- Unit prices follow:

SAN RAFAEL, Marin Co., Cal.—E. A. Ford, 41 Sunnyside Ave., San Anselmo, at \$2211.79 awarded contract by Marin County Board of Supervisors for 2.1 miles surfacing on the Fallon-Two Rocks Road. Complete bids follow:

- (1) 118 bbls. light oil;
- (2) 37 tons heavy oil;
- (3) 394 tons rock;
- (4) 197 tons screenings.
- (A) E. A. Ford, San Anselmo, \$2211.79
- (B) Pacific Truck Service, San Jose, \$2409.86.
- (C) Albert Helwig, Sebastopol, \$2,436.22.
- (D) Lee J. Immel, Berkeley, \$2625.85.

Unit bids follow:

	(A)	(B)	(C)	(D)
(1)..... \$ 1.60 \$ 1.80 \$ 2.24 \$ 3.00				
(2)..... 16.50 18.00 19.30 22.00				
(3)..... 2.39 2.50 2.40 2.40				
(4)..... 2.39 2.72 2.60 2.60				

SLOPE REINFORCEMENT — LOS ANGELES — STATE

LOS ANGELES COUNTY, Cal.—Paul R. Hughes, 1020 Loma Vista Drive, Long Beach, at \$4320.00 submitted low bid to the Department of Public Works, Division of Highways, at the office of the District Engineer, 808 California State Office Bldg., Los Angeles, September 26, for highway construction in Los Angeles County, near Beverly Blvd. (VII-L.A.-60-B), about 0.08 mi. in length, Portland cement concrete slope reinforcement to be constructed.

Complete bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
(1)\$ 1.00 \$.97 \$ 1.32 \$ 1.75 \$ 1.00 \$ 1.80 \$ 2.00 \$ 2.00								
(2) 1.00 1.00 1.60 2.00 2.00 2.60 2.00 4.00								
(3) 14.00 15.35 17.91 16.40 19.50 17.00 22.00 30.00								
(4) ..... .04 .045 .044 .0464 .0575 .045 .05 .05								

- (A) P. R. Hughes, Long Beach\$4320.00
- (B) Carl Hallin 4628.15
- (C) Johnson & Aldous 5488.85
- (D) Franklin B. Gridley 5660.80
- (E) H. E. Cox & Son 5736.25
- (F) Dimmitt & Taylor 5857.50
- (G) Joseph Maiser & Reed 7035.00
- (H) Oscar Oberg 8775.00

- Unit prices follow:
(1) 920 cu. yds. struc. excav.;
(2) 90 cu. yds. remov. exist. concrete;
(3) 195 cu. yds. class A Portland cem. concrete;
(4) 14,500 lbs. bar reinf. steel.

PORTABLE HOUSES — EQUIPMENT — GOVERNMENT

SAN FRANCISCO, Cal.—Following bids received by U. S. Forest Service, Ferry Building, for portable houses and equipment:

- Complete bids follow:
(A) Tilden Lumber and Mfg. Co., San Francisco.
(B) General Supply Co., Los Angeles.
(C) Pacific System Houses, Los Angeles.
(D) E. K. Wood Lumber Co., Oak-

- land.
(E) Aladdin Co., Portland, Ore.
(F) Dohrmann Hotel Supply Co., San Francisco.
(G) Leninson Co., San Francisco.
(H) Mangrum-Holbrook Co., San Francisco.
(1) 30 portable houses;
(2) 30 kitchen dish racks;
(3) 30 pastry tables;
(4) 30 pastry cabinets;

- (5) 30 kitchen work tables;
- (6) 30 36-in. dining tables;
- (7) 30 sideboard, knife and spoon racks;
- (8) 30 storeroom shelves;
- (9) 30 sack platforms;
- (10) 30 2-compartment sinks;
- (11) 30 splash boards;
- (12) 30 tables;
- (13) 30 scrapping tables;
- (14) 30 refrigerators.

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
(1) .....\$21,000.00 \$875.00 ea. \$1031.05 ea. \$33,900.00 \$1190.00 ea.								
(2) 825.00 30 25 18.15 735.00 21.00								
(3) 1,155.00 27.50 16.99 825.00 17.90								
(4) 1,320.00 26.00 14.31 510.00 13.50								
(5) 57.00 20 50 10.52 315.00 12.66								
(6) 5,940.00 108 00 184.61 6,157.00 165.40								
(7) 660.00 9.50 6.65 307.50 10.65								
(8) 630.00 9.90 13.21 1,320.00 14.45								
(9) 112.50 2.50 2.36 258.00 3.00								
(10) 840.00 27.50 15.95 540.00 20.50								
(11) 90.00 12.50 10.64 360.00 10.55								
(12) 480.00 12.25 11.00 360.00 13.00								
(13) 990.00 22.00 14.67 480.00 27.65								
(14) 6,750.00 225.00 139.70 6,105.00 209.00								

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Works Fund**

\$20,000,000 For Oregon Dam Construction

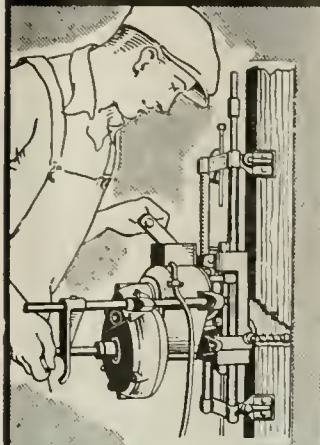
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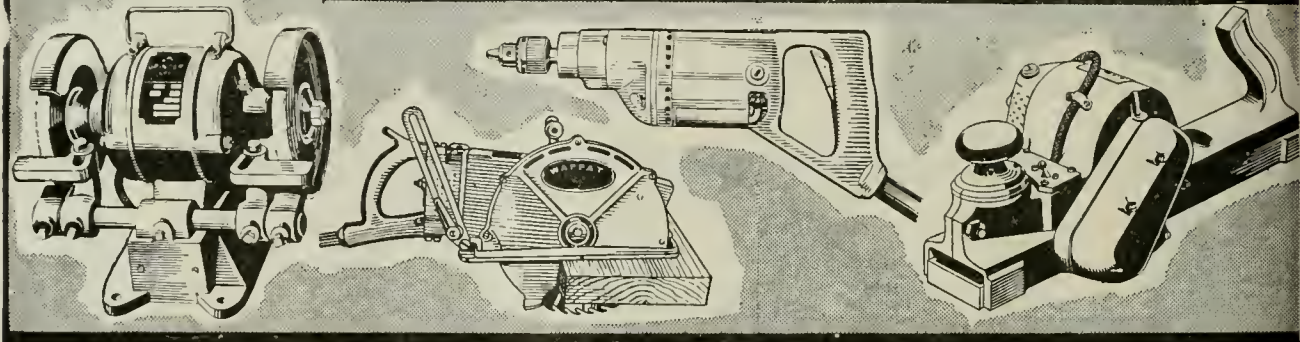
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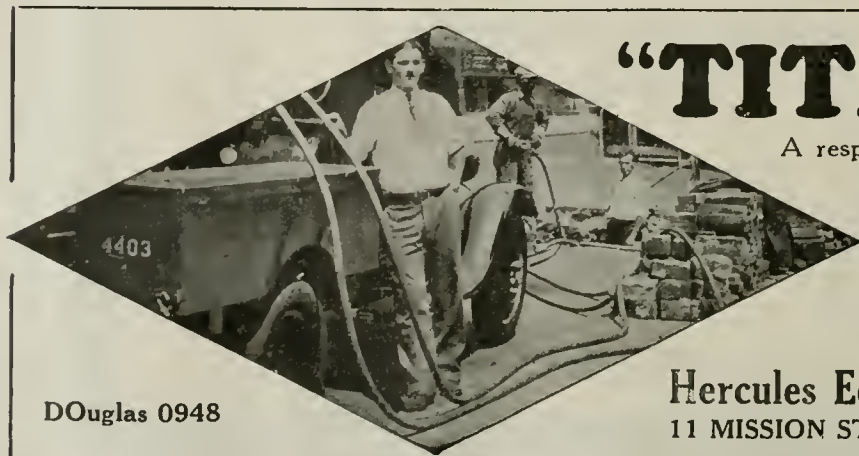
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SAN FRANCISCO, CALIF., OCTOBER 7, 1933

No. 38

\$20,000,000 FOR OREGON PROJECT IS ALLOCATED

Dam and Power Plant to be Finnced on Columbia River at Bonneville

Allotment of \$20,000,000 by the Public Works Administrator for construction of the Bonneville dam and six units of a power plant at a site on the Columbia River, Bonneville, Ore., was reported yesterday in Washington.

The total cost of the project, a combined power, navigation and flood control development, is placed at \$31,000,000.

Bonneville is about forty miles above Portland and two miles below the Cascade rapids in Columbia gorge. Construction will be under the Chief of Army Engineers.

The amount of the appropriation indicates that the 72-foot dam with full substructures for power and the completion of two units for operation, of 90,000 kilowatts' capacity have received approval.

The plan approved by President Roosevelt covers completion of locks and dams for navigation, six units of power house foundations, two complete units of 45,000 watts power each or about 120,000 horsepower.

The first expenditures scheduled will involve \$3,650,000 for the relocation of highways and railroads, and \$780,000 for the purchase of improvements to the reservoir area which includes Bradford Island.

Surveys and completion of drillings on the Oregon side will cost about \$300,000; roads and bridges to the damsite will require \$380,000, and housing of employes will entail an expenditure of \$100,000.

Actual construction will start with excavation on the Oregon side, preparing for diversion of the river from the main channel, and the construction of cofferdams in the main stream.

Floodgates will be provided on the Washington side so the river may flow there while cofferdams are constructed on the Oregon side. Then will follow the power structures and dam between Bradford Island and Bonneville.

The army engineers have estimated that construction could start within 45 days and that the project could be completed by June, 1935.

\$6,426,000 STATE HIGHWAY WORK NOW UNDER WAY

Commission Has Eleven Weeks To Complete \$20,000,000 Awards

Low bids on eight California state highway contracts received at Sacramento on Wednesday total \$539,267, approximately the same figure as the aggregate of low bids on last week's openings.

This total brings the openings for the first four weeks of the highway construction program to \$6,426,000. The commission has 11 weeks in which to open bids on the remaining thirteen and a half million dollars worth of work promised before Christmas by State Director of Public Works Earl Lee Kelly. Kelly has pledged his department to have 50,000 men employed on \$20,000,000 of highway contracts by December 25.

Following are the low bidders on each of the contracts opened Wednesday:

SISKIYOU COUNTY: Grade and surface 0.8 mi., A. Teichert & Son, Sacramento, \$59,457.

SANTA BARBARA COUNTY: Grading and widening pavement 0.6 mi., Kovacevich & Price, Southgate, \$23,339.

MONO COUNTY: Grade and surface 9.7 mi., Southwest Paving Co., Los Angeles, \$191,235.

MONTEREY COUNTY: Carmel River Bridge, Bodenhamer Construction Co., Oakland, \$36,939.

MONTEREY COUNTY: Willow Creek Bridge, Associated Constructors, Inc., Los Angeles, \$33,665.

VENTURA COUNTY: Calleguas Creek Bridge, Associated Constructors, Inc., Los Angeles, \$26,851.

SHASTA COUNTY: Grade and surface 15.9 mi., A. Teichert & Son, Sacramento, \$123,785.

LOS ANGELES COUNTY: Undergrade crossing, Kovacevich & Price, \$43,496.

WAGE BOOST STOPS \$98,000 COURT HOUSE

Tulare County Authorities Drop Plans to Erect Addition

Tulare county's building program, including the proposed \$98,000 addition to the county courthouse on which bids were to have been opened Monday, will be indefinitely delayed until conditions in the building industry are "more settled," the board of supervisors indicated after returning all bids received on the courthouse work.

The bids on the courthouse addition were rejected unopened technically because the bid call failed to comply with the PWA wage scale requirements. It was reported, however, that the bids would have been rejected after opening because they exceeded the estimated cost.

Concerns submitting bids were Frank J. Reilly, Val Franz and MacDonald & Kahn of San Francisco and W. J. Ochs of San Jose.

The formal statement issued by the board following its action follows:

"The Federal Emergency Administration of Public Works and the Labor Advisory Board have recently entered into an agreement in reference to public works construction where federal funds are to be used.

"At the time we called for bids, this agreement was not at hand and its contents unknown to us. Since the advertisement of the call for bids, the agreement is before us, and after an examination of the same I am of the opinion that the notice to bidders does not comply with the requirements of the aforesaid agreement, and I would therefore advise that the awarding of the contract under those conditions would be ill advised."

The wage scale set by the supervisors and placed in the specifications listed the following wages: bricklayers, \$6.50; roofers, \$4; plasterers, \$6.50; iron workers, \$5; plumbers, \$5; electricians, \$6; carpenters, \$4; laborers, \$3.50 and painters, \$4.

FIVE LICENSES SUSPENDED BY STATE BUREAU

Huntington Invokes Penalties For Alleged Misconduct Of Contractors

SACRAMENTO, Oct. 4.—Charged with the illegal abandonment of a contract for construction of a new post office at Redlands, San Bernardino County, the state contractor's license of Fred J. Carstens, 1012 Elton St., Baldwin Park, today was unconditionally revoked by Col. Carlos W. Huntington, registrar of contractors.

Suspension of the licenses of four other contractors, as a result of investigation which showed them to be guilty of illegal or fraudulent practices, was also announced by Colonel Huntington, a member of Governor Rolph's cabinet.

Carstens, according to evidence disclosed in the investigation, used an inferior mixture of concrete in the erection of the Redlands post office, which resulted in the concrete being torn out, with a resultant loss of \$1400, it was alleged.

He is alleged to have abandoned the project in violation of the State Contractors' Act following investigation by federal and state authorities.

The license of the Consolidated Building Company, Los Angeles, was suspended following investigation of charges that the firm accepted \$250 deposit on a contract to erect a \$4600 home for C. E. Le Long, Los Angeles, and then failed to carry out the contract. The license was suspended for a minimum of 60 days and until the company makes satisfactory restitution to DeLong, it was stated. P. T. Barnes is president of the firm.

Claiming that it was a "common practice among sheet metal firms to substitute an inferior grade of metal," R. L. Bischoff Sheet Metal Works, Long Beach, appeared before registrar Huntington and admitted charges of substitution of a lighter gauge sheet metal on a Huntington Beach project. Company officials testified they "did not feel the project was injured."

The license of the firm was suspended, and judgment was withheld pending satisfactory restitution and strict adherence to the law.

Dave Witkoff, Los Angeles, was found guilty following investigation by the registrar's office on charges of diversion of funds advanced for the construction of a home on a \$1700 contract, of which \$900 was advanced by Victor and Eva Katz,

THREE ARCHITECTS GET CERTIFICATES

Provisional certificates were granted by the California State Board of Architectural Examiners, Northern Section, at its last meeting to three candidates admitting them to the practice of architecture. Following are the candidates accepted:

C. A. Caulkins Jr., Rosenberg Bldg., Santa Rosa.
John Fennacy, 1816 Lakeshore Blvd., Oakland.
Vincent Raney, 233 Post St., San Francisco.

BURNETT HAMILTON NEW CO. ENGINEER

Burnett Hamilton, city engineer of Alameda, has been appointed Alameda County Surveyor to succeed the late George H. Wilhelm.

Hamilton's appointment was by unanimous vote of the Board of Supervisors. He was nominated by Supervisor Ralph Richmond.

Hamilton will take the place of the man who gave him his first job after he had left the University of California. In 1911 Hamilton, a young graduate engineer, went to work for the engineering firm of Daniels & Wilhelm in San Francisco. The junior partner in this firm was George H. Wilhelm, who had been county surveyor two years at the time of his death two weeks ago.

Hamilton helped to lay out the Thousand Oaks and Haddon Hill subdivisions in the Eastbay, and the Marina in San Francisco. In 1917 he was appointed assistant city engineer of Alameda, and held that post until July, 1921, when he was named city engineer.

Hamilton lives at 3237 Bayo Vista Avenue, Alameda, with his wife and an 18-year-old son. He is 45.

The appointment was made after the supervisors had personally interviewed ten other candidates for the position.

Los Angeles. His license was ordered suspended for a period of 60 days, with the suspension to continue in force until such time as restitution was made to the satisfaction of Registrar Huntington.

The license of Alfred J. Peterson, Los Angeles, was also ordered suspended for 60 days following investigation of charges preferred by Mrs. Lina Kieckhofel, 1605 Sargent Place, Los Angeles, it was announced.

34 ADDITIONAL FOREST CAMPS FOR CALIFORNIA

Ten Million Feet of Lumber To be Used in Buildings

In addition to the \$9 C.C.C. winter camps in the California national forests the U. S. Forest Service will establish 34 additional camps under N.R.A. appropriations for the improvement and development of the forest resources, according to S. B. Show, Regional Forester. Most of these camps will be in operation by October 15 or sooner. The principal work will be the construction and maintenance of secondary roads in the national forests. Distribution of the N.R.A. camps by national forests is:

Angeles 1, Eldorado 1, Klamath 4, Lassen 2, Mendocino 3, Modoc 2, Plumas 2, San Bernardino 1, Santa Barbara 4, Sequoia 3, Shasta 3, Sierra 2, Stanislaus 1, Tahoe 1, Trinity 4.

Latest reports from the office of Robert Fechner gave California a total of 151 C.C.C. winter camps, an increase of 27 over the previous report. These will be distributed as follows: National forests \$9, State Division of Forestry 38, national parks 10, and state parks 14. Present locations for 93 camps are approved for winter work and the necessary alterations will be made to make them suitable for cold weather. Fifty-eight new camps will have to be built. Alterations and new construction will require approximately 10 million feet of lumber besides other building material. All winter camps will be equipped with electric lighting systems.

The distribution of C.C.C. camps by national forests as now approved is Angeles 15, Cleveland 9, Eldorado 1, Inyo 1, Klamath 7, Lassen 3, Mendocino 1, Modoc 1, Plumas 3, San Bernardino 12, Santa Barbara 15, Sequoia 4, Shasta 5, Sierra 1, Stanislaus 3, Tahoe 1, Trinity 6, Siskiyou 1.

TO ERECT BRIDGE TOWER NEXT YEAR

The first tower of the suspension sector of the San Francisco-Oakland Bay Bridge will appear on San Francisco's skyline early in 1934, it is predicted by Chief Engineer C. H. Purcell of the San Francisco-Oakland Bay Bridge Division of the State Department of Public Works.

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Pacific Portland Cement Co. To Sue Gate Bridge District, Says McCarthy

Pacific Portland Cement Company will file suit against the Golden Gate Bridge District to enforce its contract for furnishing cement to the general contractors on the Golden Gate bridge, J. A. McCarthy, vice-president and general manager of the company, declared yesterday.

Mr. McCarthy's statement follows:

"Our attorneys inform us that the change in the contract for the San Francisco pier and fender made by the directors of the bridge district, under which the 'pink' cement was directed to be substituted for our Portland cement, was clearly illegal and will be so declared by the courts, particularly in view of the fact that the 'pink' cement is covered by a patent which Mr. Cameron's company, the Santa Cruz Portland Cement Company, owns, and therefore his company alone can manufacture and supply the same to the bridge district, and Mr. Cameron, who is one of the directors of the bridge district, is therefore interested in the contract as so changed. We are informed that under the law this makes the changed contract illegal and void, and consequently the bridge district should proceed with the contract as originally made and under which our cement was being furnished.

"There would seem to be no justification whatever for the directors making the change they did and precluding our Portland cement from being furnished. Our contracts were entered into many months ago, and we have at all times complied with the terms thereof, and the Portland cement which we have furnished has been tested continually by the bridge district and has been found to be fully in accordance with the specifications. We are still ready, able and willing to proceed with our contracts. According to a statement made by Earl Lee Kelly, State Director of Public Works, in the newspapers on the 3rd inst.,

the State Toll Bridge Authority of California has recently specified for the construction of the Oakland-San Francisco Bay bridge the identical kind of Portland cement which we have agreed to furnish for use by the Golden Gate Bridge District, and Mr. Kelly says that this same kind of Portland cement has been 'recommended' for use on the Oakland-San Francisco Bay bridge 'by the United States Bureau of Standards, by the Portland Cement Association, representing all manufacturers, by the University of California Engineering Department as a result of Boulder dam studies, and by the Consulting Board of Engineers representing the best engineering talent available.

"Under these circumstances and in view of this recommendation and this action by the state authorities in the case of the Oakland-San Francisco Bay bridge, there is of course no justification for the directors of the Golden Gate Bridge District throwing out our cement and substituting the 'pink' cement of Mr. Cameron's company in its place in the San Francisco pier and fender of the Golden Gate bridge. We are confident that no court will permit such a plan to be carried out.

"We have gone to very great expense in preparing ourselves to manufacture the large quantity of Portland cement necessary to fill our contract and in order to have the cement ready for prompt delivery as the work progresses. We also have on hand a very large amount of this cement ready for delivery which has been tested by the representatives of the bridge district and set aside for the work. We feel that we have been treated most unfairly. We have done all that we could to persuade the directors not to make the change in the contract and not to force us into litigation. We now have no recourse left except to bring a suit to prevent the unlawful substitution from being carried out."

S. F. BUILDING IN SEPTEMBER EXCEEDS AUGUST

\$566,883 Total for Month Principally Residential and Alterations

San Francisco building permits in September exceeded the total for August, amounting to \$566,883, compared with \$544,224 in the preceding month, according to the report issued Saturday by William H. Worden, director of public works.

Residential building and alterations accounted for nearly three-fifths of the total. Sixty permits for frame dwellings were issued, valued at \$224,927. Three hundred and fifty-six permits were issued for alterations, valued at \$172,981.

Public work totaled \$86,425.

Following is the comparative classification of totals for September and the corresponding month a year ago:

	Sept., 1933		Sept., 1932	
	No.	Est.	No.	Est.
	Pmts	Cost	Pmts	Cost
A	1	\$ 30,000	.....	.....
B .....	.....	.....	1	\$ 35,000
C	10	52,550	4	9,550
Frames	60	224,927	77	354,060
Alter.	356	172,981	327	153,824
Public	2	11,425	1	3,000
U. S. ....	.....	.....	1	39,120
State	1	75,000	.....	.....
Total	430	\$566,883	411	\$594,554

METAL LATH ASSN. IS ORGANIZED

After two years of inactivity, during which their trade group known as the Associated Metal Lath Manufacturers was dissolved, the manufacturers in the metal lath industry have reorganized under the name of Metal Lath Manufacturers' Association with offices at 208 S. La Salle St., Chicago, Ill.

Erwin M. Laurie, who was with the old association for over ten years, also its secretary, and well known in the building construction field, has been appointed secretary for the new association. In recent years he has written several handbooks dealing with fire protection and uses of metal lath and related products and been active in building code, research and promotional activities connected with architects and builders. Prior to resuming his trade association activities he was associated with a large plastering contractor as engineer-superintendent of plastering on federal building projects.

For the time being the new organization's activities are being confined to work connected with the NRA, and with engineering and research problems for the industry. Correspondence from architects, engineers, contractors and building mechanics in connection with building codes or with matters related to the plastering and lathing industry is invited.

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BAY COUNTIES ASK \$40,000,000 PUBLIC WORKS

San Francisco and Alameda Supervisors Vote to Apply For Funds

San Francisco and Alameda counties will ask approximately \$40,000,000 from the Federal Public Works Administration for a long list of contemplated construction projects on both sides of the bay, supervisors of the respective counties voted last week.

San Francisco supervisors will place a \$34,941,000 bond issue on the ballot November 7.

Alameda county will defer its bond issue until later, probably in December, when it is expected a special state election will be held. The supervisors have approved projects estimated to cost \$5,570,198.

All bond proposals will be submitted with the understanding that the work will not proceed unless 30 per cent grant of the cost is approved by the government.

Following are the works planned:

San Francisco

Construction of Red Mountain Bar power house; Newark-San Francisco power transmission line; Palo Alto and Crystal Springs substations; San Francisco step-down station and distribution system, \$6,308,000.

Increasing height of O'Shaughnessy Dam, Hetch Hetchy project, \$3,500,000.

Constructing new sewers and rebuilding existing sewers and disposal plants, \$2,625,000.

Improving water system, including new pipe line across the bay, reservoirs and replacement of obsolete equipment, \$12,095,000.

Extension of high pressure system and construction of underground fire cisterns, \$2,000,000.

Easterly extension of Yacht Harbor breakwater, including new pier, service building and light-houses, \$815,000.

Construction and reconditioning boulevards and streets to conform with approaches of Golden Gate and San Francisco-Oakland bridges, \$2,100,000.

Addition to municipal warehouse and construction of repair shop and garage, \$325,000.

Completion of Aquatic Park, including new houses for boat clubs, bathing beach, playground areas, concrete auto parking wharf, bath houses, gymnasium, handball courts, shower and locker rooms, \$700,000.

Construction of new east-west 3500-foot runway at San Francisco Municipal Airport by filling tide-lands, \$260,000.

Construction of Agricultural District general exposition pavilion, arena, track, grandstand and other structures for livestock exhibition, \$1,250,000.

Extension of Municipal Railway from Forty-sixth Ave. and Taraval St. to Vicente St., \$63,000.

Cadman Is President of Northern Rock, Sand and Gravel Producers

Completion of the organization of the Rock, Sand and Gravel Producers' Association of Northern California was announced yesterday. Headquarters are at 412 Chancery Building, San Francisco.

Charles M. Cadman is president of the association; Anson S. Blake, vice-president; A. K. Humphries, treasurer; R. G. Frith, assistant treasurer; E. J. Goodpastor, executive secretary.

The following compose the board of directors:

Mark Hein, Hein Bros. Basalt Rock Co., Petaluma; A. G. Steblow, Basalt Rock Co., Inc., Napa; A. L. Brounless, Yuba River Sand Co., Marysville; E. H. Gerber, Del Paso Rock Products, Sacramento; V. B. Hammatt, Hammatt Rock Plant, Livingston; A. R. McMillan, Grant Service Rock Co.; Hardy Hutchinson, Hutchinson Co., Oakland; W. R. Burchell, Los Gatos Sand and Gravel Co., Los Gatos; F. H. Gates, F. H. Gates, Inc., Santa Maria; A. J. Wilson, Granite Rock Co., Watsonville; Chas. M. Cadman, Pacific Coast Aggregates, Inc., San Francisco; A. B. Ordway, Kaiser Paving Co., Oakland; A. K. Humphries, Atlas Olympia Co., San Francisco; A. S. Blake, Blake Bros. Co., San Francisco; John Daniel, Daniel Contracting Co.

The purposes of the organization are set forth in the following statement:

(a) To cooperate for the improvement and stabilization of the rock, sand and gravel industry.

(b) To eradicate unfair trade practices within the industry which produce speculation and uncertainty, and to make possible continuity of employment, adequate wages to employees and decent conditions of work.

(c) To stabilize the rock, sand and gravel industry and to maintain therein uniform and fair usages, customs and practices and contracts.

(d) To study, and so far as possible, solve, cooperatively and collectively, the problems of the rock, sand and gravel industry.

(e) To work for the establishment of fair conditions of labor and employment throughout said industry.

(f) To distribute accurate and reliable information regarding persons, firms and corporations engaged in said industry.

Construction of new Hall of Justice in Civic Center, \$2,900,000.

Alameda County

County courthouse, \$2,000,000.

Reconstruction of Park Street bridge, \$923,230.

Reconstruction of High Street bridge, \$923,230.

Fruitvale Avenue bridge, \$1,440,435.

Eden township flood control project, \$283,303.

(g) To establish and maintain a system for the distribution of

credit information among its members.

(h) To study, advise and recommend the enactment of legislation in the interest of said industry and to represent said industry in all of its contacts with public officials and public authorities.

(i) To promote a closer and more friendly intercourse among those engaged in said industry.

(j) To procure the standardization of practices, products and operations in said industry.

PIRNIE IS NAMED NRA ADMINISTRATOR

The appointment of Malcolm Pirnie to be a deputy administrator in charge of construction industry codes was announced yesterday. Mr. Pirnie was formerly an assistant deputy to Deputy Administrator Malcolm Muir.

Mr. Pirnie, who is also the mayor of Scarsdale, N. Y., was born in New York City, spent most of his pre-college years in Springfield, Mass., and graduated from Harvard in 1910, receiving his master's degree in civil engineering in 1911. He maintains an office in Manhattan and resides at 15 Woodland Place, Scarsdale.

Mr. Pirnie is married to Gertrude Willard Knowlton of Watertown, N. Y., and has three children.

The new deputy administrator served overseas during the war as a captain in the Transportation Corps. He is president of the American Water Works Association and a member of the American Society of Civil Engineers, the American Institute of Consulting Engineers, the American Society of Military Engineers and the Florida Engineering Society.

STATE POSTS GET \$41,000 PWA FUND

An allotment of \$176,170 to the Signal Corps, War Department, for the construction of underground cable and conduit extensions at 20 Army posts throughout the country was announced yesterday by Federal Administrator of Public Works Harold L. Ickes.

It is estimated by reporting engineers that this program will furnish about 50,500 man-hours of direct employment.

A large proportion of the work can be started within ten days.

The individual sums covered by the allotment include:

Hamilton Field, Calif., \$10,000; Presidio, San Francisco, \$15,000; Rockwell Field, Calif., \$10,000; Scott Field, Calif., \$6,000.

The construction planned under the allotments consists in installation and repair of telephone and cable systems and extensions to existing facilities.

Many Applications For Funds Before California Public Works Advisors

Following is a review of some of the applications for federal funds now pending before the California Public Works Advisory Board. With scores of applications being prepared for filing within the immediate future, this represents only a small share of the undertakings which are contemplated.

ALAMEDA AND CONTRA COSTA COS.—Joint Highway District No. 13 (Alameda and Contra Costa Counties) has applied to the Federal Administration of Public Works for a loan of \$2,524,896.74 and a grant of \$927,138.70 to finance the construction of the Broadway tunnel. The total estimated cost of construction is \$3,752,035.40.

BELMONT.—The City of Belmont, San Mateo County, has applied to the Federal Administration of Public Works for \$45,000 to finance the construction of water works projects as follows:

- (1) Water mains of 4, 6 and 8-in. cast iron pipe and 2-in. wrought steel pipe.....\$17,775
 - (2) Storage tanks of 695,000-gal. capacity 9,400
 - (3) Pumping station and equipment 8,725
 - (4) Valves and hydrants..... 2,335
 - (5) Lands and right of way..... 1,500
- G. A. Kneese, Redwood City, is the engineer.

CLOVERDALE.—The City of Cloverdale has applied to the Federal Administration of Public Works for grant of \$1336 towards the cost of constructing sanitary sewers estimated to cost a total of \$4,453.43.

HOLLISTER.—The Pacheco Pass Water District has applied to the Federal Administration of Public Works for \$175,000 to finance the construction of three reservoirs, 20 miles of canal lining, timber bridges, buildings, gates, concrete or steel outlet conduit, hand-laid riprap and other equipment. C. W. Lawrence, McKin- nor Court, Hollister, is the engineer.

LONG BEACH.—The City of Long Beach has applied to the Federal Administration of Public Works for a loan of \$494,550 and a grant of \$198,450 towards the cost of constructing the North Long Beach sewer system. The work will include:

- (1) 33,000 ft. 12 and 17-in. main line sewer, average depth 11 ft.;
 - (2) 271,000 ft. 8-in. lateral mains, average depth 7 ft.;
 - (3) 4,200 ft. 21-in. pressure line, average depth 6 ft.;
 - (4) one pumping station.
- Total estimated cost, \$693,000.

LOS ANGELES COUNTY.—The County Board of Supervisors ordered the construction of sewers in Belvedere Gardens, Unit No. 4, at a hearing held September 25, and has applied to the Federal Administration of Public Works for a loan of \$47,153.50 and a grant of \$20,221.50 to finance the project under C. I. No. 757. The work as planned involves .73 mile of sewer and is estimated to cost \$57,405.

LOS ANGELES COUNTY.—The County Board of Supervisors ordered the construction of sewers in Belvedere Gardens, Unit No. 5, under County Improvement No. 770, at a hearing held September 25, and has applied to the Federal Administration

of Public Works for a loan of \$62,000.80 and a grant of \$26,571.77 to finance the project.

LOS ANGELES COUNTY.—The county supervisors has applied to the Federal Administration of Public Work for a loan of \$1,792,958.50 and a grant of \$493,950 to finance the construction of the Hooper Ave. drainage project which will include street inlets, cement concrete pipe and box culverts, manholes, reconstruction of sanitary sewers and resurfacing.

OAKLAND.—The East Bay Municipal Utility District has applied to the Federal Administration of Public Works for a loan of \$6,403,023.20 and a grant of \$20,006,482.80 to finance the construction of extensions to water system. The total estimated cost of project is \$8,409,506.

PALO ALTO.—The City of Palo Alto has applied to the Federal Administration of Public Works for a grant of \$34,343 towards the cost of constructing sewers at an estimated cost of \$125,410.

LOS ANGELES CITY.—The Department of Water and Power has applied to the Federal Administration of Public Works for \$27,800,000 and a grant of \$7,000,000 to finance a four-year construction program which includes the following projects:

Mono Basin	\$ 7,300,000
Long Valley Dam	1,500,000
Los Angeles Aqueduct	760,000
Bouquet Canyon Dam	2,000,000
Improvement of the district water lines, general building and equipment.....	13,450,000
Purchase of lands and water right of way	11,794,000
The total estimated cost is...	37,794,000

SACRAMENTO.—The American River Flood Control District, 410 State Capital Extension Bldg., Sacramento, has applied to the Federal Administration of Public Works for a \$195,000 loan to finance the construction of the following projects:

- (1) South levee embankment;
- (2) Arcade Creek levees;
- (3) East levee, Meister District embankment;
- (4) Drainage work;
- (5) Pumping plants;
- (6) Chicken Ranch Slough diversions;
- (7) Revision of railroad at levee crossings.

A. M. Barton, 410 State Capital Extension Bldg., Sacramento, is the engineer. B. A. Etcheverry, University of California, Berkeley, and F. C. Herrmann, Merchants Exchange Bldg., San Francisco, are the consulting engineers.

SAN CLEMENTE.—The City of San Clemente has applied to the Federal Administration of Public Works for \$60,000 to finance the construction of water mains in the city streets. The work will involve the laying of 46,750 feet of 4-in. pipe and construction of a pumping plant at San Jose Creek.

SAN JOSE.—The Santa Clara Water Conservation District, Room 95 Auzerais Bldg., San Jose, has applied to the Federal Administration of Pub-

lic Works for a grant of \$7500 to assist in the financing of the construction of a reinforced percolation 126 feet in length near Coyote. F. H. Tibbetts, Alaska Commercial Bldg., San Francisco, is the engineer.

SELMA.—The City of Selma has applied to the Federal Administration of Public Works for a loan of \$108,659 and a grant of \$46,568.15 to finance the construction of a water system. The total estimated cost of water system is \$155,227.15. E. K. Hussey, Syndicate Bldg., Oakland, is consulting engineer.

STANISLAUS COUNTY.—The West Stanislaus Irrigation District has applied to the Federal Administration of Public Works for a loan of \$175,000 and a grant of \$75,000 to finance irrigation project. The total estimated cost of irrigating is \$250,000.

TURLOCK.—Turlock Irrigation District has applied to the Federal Administration of Public Works for a loan of \$217,350 and a grant of \$93,150 to finance irrigation project. The total estimated cost is \$310,500. R. V. Meikle, chief engineer.

WHITTIER.—The City of Whittier has applied to the Federal Administration of Public Works for \$16,400 to finance the construction of an extension to the water system, ornamental lighting system and erection of a steel fence around the reservoir.

GLASGOW NAMED NRA DEPUTY

Thos. Glasgow of Charlotte, N. C., has been appointed deputy N. R. A. administrator to succeed Dudley Cates, resigned. In pursuance of the general policy of not having deputy administrators involved in the businesses with which they deal Mr. Glasgow is not a lumberman. He is now in the wholesale automobile supply business and was formerly a practising lawyer. He was a captain of field artillery in the American forces in the world war. He is a graduate of Washington and Lee University.



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SAN FRANCISCO

National Retail Lumber Code Is Completed; Early Adoption Expected

Geo. W. Dulany, Jr., chairman of the board of directors of American Forest Products Industries, Inc., and industry adviser of the N.R.A. for the retail lumber code, concluded his labors in that capacity with the final submission of the code to General Johnson for approval. Two or three matters which will be cleared within a day or two are all that is delaying promulgation of the code, and it is confidently expected to be approved by the President within a few days. Before returning to Chicago, Mr. Dulany said that the six weeks delay in getting the code through was due to the fact that although it was the thirtieth code to be heard and the first in the retail group, it was caught in a jam of hundreds of codes that piled in thereafter at a time when the machinery of examination was being revised. About fifty other codes were similarly caught.

"The retail lumber code," Mr. Dulany continued, "contains no exceptional feature outside of the treaty arrangement with the builders' supplies code. The two codes run parallel in hours and wages, and there is a provision that wherever a dealer is both a lumber retailer and a hard materials dealer his code relations may be with the regional retail lumberman's association or with the regional administration of the builders' supply code, according to which is best suited to handle the particular membership. It is also provided that there shall be no proselyting of members between the two groups.

"The final form of the code is much better in many respects than the earlier form, but the wage scale stands as it originally was on 40 hours a week and a 25c minimum in the South. The code contains the control and protective features except that the anti-dumping section and the distribution statement plus some changes in the local enforcement powers were eliminated. The last and some other important matters are relegated to the Code Authority. There may be some disappointment over the code among those who thought it would give retailers immediate power to correct all their business troubles overnight, but it certainly does give us the machinery with which to work out a better condition. The local enforcement groups are not involved with authority to work injustices, but they do have the power to collect competent evidence and file complaints through proper channels against violators of the code.

"The NRA idea of voluntary co-operation to improve business conditions is commendable, and every effort should be made to achieve success for it. Working out the details of such a plan is very difficult, and is made more so when people on either side return to the

selfish and greedy ideas which have prevailed so long and which have brought the nation and the world to their present low estate.

"Now that the two great divisions of the lumber industry—the manufacturers and the distributors—have their codes, making possible more satisfactory business functioning than ever before, the next step, in my opinion, both as a manufacturer and a retailer, is recognition by the manufacturer that the retailers really constitute their sales organization. It is incumbent upon the manufacturer if the lumber industry is to prosper as it may, to devote thought, time, energy and money to instructing the retailers as if they were salesmen on their payroll. The real competition from which lumber is suffering today is, in my opinion, not so much the competition within the industry as competition from without. Manufacturers and retailers must form a solid phalanx to conquer in their common interest the largest possible slice of the consumer's dollar. It is not only substitute materials that lumber must consider, but also entirely different groups. People, for instance, cannot buy and build homes if they are spending all of their savings on automobiles. We must create the public psychology that will give lumber, as well as other building materials, a square deal in the allocation of the incomes of the people."

LIGHTING CAMPAIGN PLANNED FOR FALL

Because few of the owners of the more than twenty million wired homes in this country know how to use light correctly and to teach everyone to derive the most benefit from home illumination, Westinghouse Electric and Manufacturing Company will launch a nation-wide campaign this fall, according to L. A. S. Wood, manager of the lighting products division, who spoke at the closing session of the jobbers' and dealers' meeting at the Hotel Pennsylvania.

"The Westinghouse campaign," Mr. Wood said, "will tie in closely with the lighting activity which the Edison Electric Institute has planned for the fall to enable home owners to get the most out of the money they spend for lighting current.

"Better light—better sight," the slogan of the lighting activity, will concentrate on how floor, table and indirect portable lamps should be used so that the light they produce can best be used for reading, bridge and other indoor pastimes necessary strain.

SANTA CLARA COUNTY FIXES NEW PUBLIC WORKS PAY SCALE

An amended scale of wages to be paid on Santa Clara County public works has been approved by the Board of Supervisors. The amended scale provides for a 30-hour week with a minimum of \$1.10 an hour for skilled labor and 45 cents an hour for unskilled labor, conforming to the minimum set in the local territory by the Public Works Administration.

Following is the new scale for various classifications:

Asphaltic plant platform labor, 90c; blacksmith, \$1; carpenters, \$1; cement finishers, \$1; concrete mixer operator, small, 90c; concrete paver operator, \$1.25; engineers, hoisting, quarries, tractor 50 h.p. or over, \$1.25; engineers, rollers, asphalt plants, material yards, \$1.25; engineers, bridge and structural, \$1.25; engineers, pile drivers, derrick barges, cableways, \$1.25; engineers, firemen and apprentices, \$1; engineers, portable compressor, 90c; graderman, 90c; iron workers, reinforced concrete, \$1.125; iron workers, bridge and structural, \$1.25; laborers, 70c; plasterers, \$1.25; powdermen, 75c; mechanical pavement finisher operator, 96c; shovel operators, up to and including 1/2 yard, \$1; shovel operators, from 1/2 yard up to and including 1 yard, \$1.25; shovel operators, from 1 yard up, \$1.375; shovel operators, underground, \$1.50; shovel operators, cranesmen, \$1.20; shovel operators, cranesmen, underground, \$1.35; shovel operators, oilers, 84c; teamsters, one and two-horse team drivers, 84c; truck drivers, under three ton, 84c; truck drivers, three ton and up to six and one-half ton, \$1; truck drivers, over six and one-half tons, \$1.10; tractors, 30 h.p. and up to 50 h.p., \$1.125; tractors, under 30 h.p., 84c; trouble shooter, mechanic, \$1; watchman, 70c.

NEW CONTRACTORS GROUP ORGANIZED

Organization of the United Building Contractors of San Francisco was announced yesterday by S. M. Coggins, chairman.

Membership will be open to all branches of the building industry, the association officials announced. The purpose of the group is to afford an opportunity for contractors not already affiliated with trade organizations to prepare a code of fair competition.

Temporary offices are at 1128 Oak street. Officers are S. M. Coggins, chairman; Elmer J. Neville, secretary; H. R. Campbell, treasurer. The board of directors and advisory board will be composed of members representing various branches of the building industry.

PERMITS AND CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
730	Struthers	Struthers	3200
731	McAfee	McAfee	3500
732	Lofgren	Carson	2000
733	Gallencamp	Owner	15000
734	Coxon	Adams	1000
735	Malone	Owner	5500
736	D'Antonio	Owner	2000
737	Bessmeyer	Owner	1250
No.	Owner	Contractor	Amt.
738	De Mattel	Empire	3800
739	Winterson	Kenison	3000
740	Enterprise	Rosemont	3000
741	Allison	Owner	3900
742	Park	Owner	2500
743	Dennison	Owner	1000
744	De Mattei	Empire	3800
745	Elkington	Colton	4000
746	Nelson	Owner	4000
747	Ulfelder	Barrett	2000

DWELLING
 (730) W MISSION 75 N Castle Manor Two-story and basement frame dwelling.
 Owner—M. T. Struthers, 4250 Mission St., San Francisco.
 Architect—Not Given.
 Contractor—M. T. Struthers, 4250 Mission St., San Francisco. \$3200

DWELLING
 (731) W CAYUGA 83 S San Juan. One-story and basement frame dwelling.
 Owner—R. A. McAfee, 125 Cervantes Blvd., San Francisco.
 Architect—B. K. Dobkowitz, 425 Monterey Blvd., San Francisco.
 Contractor—R. A. McAfee, 125 Cervantes Blvd., S. F. \$3500

ALTERATIONS
 (732) NW GOUGH AND LILY STS. Alter store and hotel.
 Owner—C. Lofgren, 2527 24th St., San Francisco.
 Architect—Not Given.
 Contractor—O. Carson, 397 Haight St., San Francisco. \$2000

DWELLING
 (733) E MAGELLAN AVE. 130 N Pacheco. Two-story and basement frame dwelling.
 Owner—A. A. Gallenkamp, % Architect.
 Architect—Edward E. Young, 2002 California St., San Francisco. \$15,000

ADDITION
 (734) NO. 540 DARIEN WAY. Add to dwelling.
 Owner—W. G. Coxon, Premises.
 Architect—Not Given.
 Contractor—Adams Bros., 200 Castro St., San Francisco. \$1000

DWELLING
 (735) N BELGRAVE 420 E Stanyan St. Two-story and basement frame dwelling.
 Owner—M. Malone, 555 Buena Vista Ave., San Francisco.
 Architect—Not Given. \$5500

ALTER DWELLING
 (736) 429 BRAZIL AVE.; alter dwelling.
 Owner—F. D'Antonio, 839 Brazil Ave.
 Architect—J. J. Foley, 770 15th Ave.
 Day work. \$2000

DWELLING
 (737) N OCEAN AVE. 183 E DELANO. Way; one-story frame dwelling.
 Owner—Dissmeyer & Buckley, 21 Lippard.
 Day work. \$1250

DWELLING
 (738) NW WILLIAMS AVE. AND Neptune. One-story and basement frame dwelling.
 Owner—Mr. and Mrs. J. De Mattel.
 Architect—Not Given.
 Contractor—Empire Constr. Co., Ltd., Shell Bldg., San Francisco. \$3800

DWELLING
 (739) N GOLDEN GATE AVE 75 W Willard St. One-story and basement frame dwelling.
 Owner—Miss M. Winterson, Divisadero St., San Francisco.
 Architect—Not Given.
 Contractor—John Kenison, 289 San Jose Ave., San Francisco. \$3000

DISPLAY ROOM
 (740) SW EIGHTEENTH & FLORIDA STS. Two-story frame display room.
 Owner—Enterprise Laundry, Prem.
 Architect—Not Given.
 Contractor—E. Rosemont, 176 Duboce Ave., San Francisco. \$3000

DWELLING
 (741) W SEVENTEENTH AVE 175 S Lincoln Way. One-story and basement frame dwelling.
 Owner—Allison & Beck, 216 Eddy St. San Francisco.
 Architect—Not Given. \$3900

DWELLING
 (742) W SCOTIA 558 S Silver Ave.; one-story and basement frame dwelling.
 Owner—W. Park, 259 Roosevelt Way.
 Day work. \$2500

ALTERATIONS
 (743) 1250-52-54-56 HAYES ST.; alter dwelling.
 Owner—J. J. Dennison, 2112 Hayes St.
 Day work. \$1000

DWELLING
 (744) NW WILLIAMS AND NEPTUNE STS. One-story and basement frame dwelling.
 Owner—J. De Mattel.
 Architect—Not Given.
 Contractor—Empire Construction Co., Shell Bldg., San Francisco.

DWELLING
 (745) W TWENTIETH AVE 140 S Sloat Blvd. One-story and basement frame dwelling.
 Owner—G. J. Elkington & Sons, 330 Vicente St., San Francisco.
 Architect—S. A. Colton, 455 Market St., San Francisco. \$4000

DWELLING
 (746) E TWENTY-FIRST AVE. 51 S Sloat Blvd. One-story and basement frame dwelling.
 Owner—F. Nelson & Son, 2919 19th Ave., San Francisco.
 Architect—Not Given. \$4000

AUTO SHOP
 (747) N CORTLAND AVE 100 W Bayshore. One-story Class C auto shop.
 Owner—W. L. Ulfelder and S. Bissinger, % Contractor.
 Architect—Not Given.
 Contractor—Barrett & Hilp, 918 Harrison St., San Francisco. \$2000

SAN FRANCISCO UNDER \$1000

STORE, one-story frame, \$500; W Van Ness Ave. South 102 N 13th St.; owner, T. Cody.
ADD TO DWELLING, \$460; 2659 22nd St.; owner, J. Isnarodi, Prem.; contractor, V. Oliva, 2160 Bryant St.
SIGN, electric, \$175; 3842 Mission St.; owner, Trommers Brewery, New

York City; contractor, Golden Fate Neon Sign Co., Inc., 255 8th St.
BILLBOARD, \$6.25; NW Union and Buchanan Sts.; owner, Foster & Kleiser Co., 1675 Eddy St.

STUCCO dwelling, \$400; 175 18th Ave. owner, D. & G. Michall, 175 18th Ave.

ALTER restaurant, \$500; 98 Eddy St. owner, D. Hollingherry, 98 Eddy; contractor, P. O. Lind, Inc., 2745 16th St.

ALTER commission house, \$279; 427 Davls; agent, Wolf & Co., 34 Sutter St.; contractor, L. A. Hinson, 756 4th Ave.

STUCCO dwelling, \$300; 643 Capp St.; owner, J. Pats, 624 24th St.

BILLBOARD, \$6.25; Van Ness Ave., South E line 140 S -14th St.; owner, Foster & Kleiser Co., 1675 Eddy St.

SIGN, electric, \$130; 845 Clement St.; owner, Gallenkamp's Stores Co., Inc., Premises; contractor, QRS Neon Corp., Ltd., 690 Potrero Ave.

DWELLING, one-story frame, \$250; E Elmira 25 S Helena St.; owner, E. Kammerer, 226 6th St.

ALTER store, \$300; 940 Market St.; owner, Sherry's, Premises; contractor, Commercial Fixture Mfg. Co., 55 Morris St.

ADD TO dwelling, \$200; 3183 Mission St.; owner, J. Bedley, 68 Post St.

ADD TO dwelling, \$500; 177 Arleta St.; owner, D. Herrington, 177 Arleta St.; contractor, E. Quistad, 3666 22nd St.

ALTER garage, \$75; 1058 McAllister St.; owner, L. Magone, 1958 McAllister St.

STUCCO dwelling, \$300; 329 6th Ave.; owner, C. L. Andersen, 329 6th Ave.; contractor, F. Noreia, 2223 25th Ave.

ALTER flats, \$75; Cherry St. near California; owner, Bill Reca, 763 Geary St.; contractor, J. M. Pleonl.

ALTER garage, \$500; 1124 Church St. (rear); owner, H. E. Mourot, 1124 Church St.

ALTER auto shed, \$50; SW Bacon and Girard Sts.; owner, A. C. Bledenbach, 402 Girard St.

WOODEN frame to support crane, \$728; 129 Fremont St.; owner, Dr. J. E. Curley, 350 Post St.; architect, R. A. Hanson; contractor, C. J. Koenig, 520 Church St.

SIGN, electric, \$200; Pine and Larkin owner, Standard Station No. 1327, Premises; contractor, Elec. Prods. Corp., 255 Golden Gate Ave.

SIGN, electric, \$250; NE O'Farrell & Powell Sts.; owner, The Abrams Co.; contractor, Elec. Prods. Corp., 255 Golden Gate Ave.

BILLBOARD, \$50; N Haight 110 W Broderick; owner, West Coast Advertising Co., 1864 Market; day work.

SIGN, electric, \$200; 827 Sacramento; owner, The Coffee Shop, 827 Sacramento; contractor, Elec. Prod. Corp., 255 Golden Gate Ave.

SIGN, electric, \$200; Pine and Larkin; owner, Standard Oil Co., Pine and Larkin; contractor, Elec. Prod. Corp., 255 Golden Gate Ave.

SIGN, cloth, \$37.50; 1155 Van Ness Ave.; owner, Auburn California Co., 1155 Van Ness Ave.; contractor, Osthoff & Co., 501 3rd St.

ADDITION TO dwelling, \$300; 54 Camellia; owner, Mrs. K. Solk, 54 Camellia; day work.

SIGN, electric, \$200; 430 Sutter St.; owner, Ever Kold Electric Refrigerator Co., 430 Sutter St.; contractor, Elec. Prod. Corp., 255 Golden Gate Ave.

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
441	Eliw	Dawe	4340
442	Kargaard	Bradhoff	3500
443	James	Hansen	4400
444	Campbell	Owner	1750
445	Clarke	Alterwall	1509
446	Parker	Owner	1350
447	Muenter	Kraft	1098
448	American	Harris	1200
449	Hufschmidt	Owner	4000
450	?Fox	Nunes	1500

DWELLING

(441) NO. 2081-83-85 VINE STREET, BERKELEY. Two-story 5-room frame dwelling and 2 stores. Owner—George Eliw, 2439 Grant St., Berkeley.

Architect—Not Given.

Contractor—Leslie C. Dawe, 449 Courtney Road, Berkeley. \$4340

(442) 1180 KEELER, BERKELEY; one-story 5-room frame dwelling. Owner—Kargaard, 1722 Dwight Way, Berkeley.

Architect—Not Given.

Contractor—C. O. Bradhoff, 911 55th St., Oakland.

DWELLING

(443) 3853 FAIRWAY AVE., OAKLAND. One and one-half story 5-room dwelling.

Owner—Dr. E. James, premises.

Contractor—C. Hansen, 1500 Santa Clara Ave., Alameda. \$4400

ALTERATIONS

(444) 490 THIRTEENTH ST., OAKLAND. Alterations.

Owner—Jas. A. Campbell, 1012 Market St.

Contractor—Owner. \$1750

(445) 6110 THORNHILL DR., OAKLAND. One-story 3-room residence.

Owner—Lena B. Clarke, 1419 Henry St.

Contractor—J. F. Alterwall, 6233 Crown St. \$1500

ADDITION

(446) 4500 PLEASANT VALLEY CT., OAKLAND. Addition.

Owner—Mrs. Hellen Parker. \$1850

ADDITION

(447) 1819 THOUSAND OAKS, BERKELEY. Addition.

Owner—A. F. Muenter, 1854 San Juan St.

Contractor—Krafft & Patrick, 1875 San Juan Ave. \$1098

ADDITION

(448) E B ST. N Seventh St., Parr Terminal, OAKLAND. Addition to loft.

Owner—American Manganese Co., Premises.

Architect—Not Given.

Contractor—G. V. Harris, 5912 Ayala St., Oakland. \$1200

DWELLING

(449) NO. 180 BROOKSIDE DRIVE, BERKELEY. Two-story 6-room frame dwelling and garage.

Owner—Hufschmidt & Whalen, 461 Lee St., Oakland.

Architect—Not Given. \$4000

ADDITION

(450) NO. 6224 CONTRA COSTA Road, OAKLAND. Addition.

Owner—Geo. H. Fox, 3906 Fruitvale Ave., Oakland.

Architect—Not Given.

Contractor—Geo. W. Nunes, 5430 Dover St., Oakland. \$1500

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
150	Weir	Atlas	913

FURNACES, ETC.

(150) NW FRANKLIN ST. AND IVY Ave. N 25xW 107-6 WA 139. All work to install furnaces and gas circulating heaters, etc. in building.

Owner—Margaret Weir and Alice G. Stapleton, 335 Franklin St., San Francisco.

Architect—Not Given.

Contractor—Atlas Heating & Ventilating Co., Ltd., 557 Fourth St., San Francisco.

Filed Oct. 3, '33. Dated Oct. 2, '33.

On completion of 4th working day \$200

Completion of work 250

Usual 35 days 463

TOTAL COST, \$913

Bond, \$500. Surety, Fidelity & Deposit Co. of Maryland. Limit, 16 days. Forfeit, plans and specifications, none

MARIN COUNTY

DWELLING

ROSS. All work for two-story full frame six-room dwelling and one-car garage.

Owner—Emmet A. Commins & Wife, Ross.

Architect—Not Given.

Contractor—James L. Rich, 556 37th St., Oakland.

Filed Oct. 2, '33. Dated Sept. 5, '33.

Rafters up \$1125

Coat plaster on 1125

When completed 1125

Usual 35 days 1125

TOTAL COST, \$4500

Bond, none. Limit, 90 days. Forfeit, plans and specifications, none.

ALAMEDA COUNTY UNDER \$1000

BILLBOARD, \$75; NE Third Ave. and E-10th St., Oakland; owner, Foster & Kleiser, 22nd and Market.

ADDITION, \$250; 937 Pine St., Oakland; owner, S. Suciich, 937 Pine.

ALTERATIONS, \$250; 1309 98th Ave. Oakland; owner, Anna Cabral, 9850 A St.; contractor, Archie Waring, 3234 Prentiss St.

REPAIRS, \$200; 745 5th St., Oakland; owner, Le Caremilla, 735 5th St.

BILLBOARD, \$100; SE Second Ave. and E-10th St., Oakland; owner, Foster & Kleiser, 22nd and Market

ALTERATIONS, \$51; 1257 Hearst Ave., Berkeley; owner, Oscar C. Johnson, 1257 Hearst Ave.

ALTERATIONS, \$150; 2714 Woolsey St., Berkeley; owner, J. J. Phister, 2714 Woolsey St.; contractor, W. Lila Ridout, 1537 Moyart St., Alameda.

ALTERATIONS and addition, \$400; 1121 Everett St., Oakland; owner, Willis H. Collins, 1121 Everett St.

GARAGE, one-story, \$65; 6916 Balsam Street, Oakland; owner, I. Jones, Premises.

SHER, one-story tile, \$40; 1441 Harrison St., Oakland; owner, Central Bank Properties, Central Bk. Bldg., Oakland.

STATION, one-steel service, \$240; 9629 San Leandro St., Oakland; owner, Mr. Harding, 2301 Blanding Ave., Alameda; contractor, Independent Iron Works, 821 Pine St.

ADDITION, \$500; 325 Park View Terrace, Oakland; owner, Louise H. Short, 574 Rosal Ave.

ALTERATIONS, \$100; 2522 Regent St., Berkeley; owner, F. E. Foster Co.; contractor, Leslie C. Dawe, 449 Country Road.

SIGN, electric, \$300; 1620 7th St., Oakland; owner, West Oakland Theatres; contractor, Elec. Prod. Corp., 950 30th St.

ALTERATIONS, \$130; 1458 Bancroft, Berkeley; owner, J. Rollindo; contractor, L. T. Pierson.

ALTER garage, \$300; 838 46th St.; owner, T. H. Munhollen, 410 44th St.; contractor, owner.

SIGN, electric, \$195; 453 12th St.; owner, Frank Cerrato; contractor, Radiant Neon Displays, 2561 San Pablo Ave.

SIGN, electric, \$125; 572 15th St.; owner, Mrs. M. Williams; contractor, Pete Della Vedova, 2561 San Pablo Ave.

ALTER, \$50; 2415 35th Ave.; owner, Edw. J. Mountain, 2415 35th Ave.; contractor, owner.

SIGN, electric, \$110; 380 8th St.; owner, K. Yamayata; contractor, Radiant Neon Displays, 2561 San Pablo Ave.

SIGN, electric, \$146; 1451 14th St.; owner, Thos. Scozzafava; contractor, Radiant Neon Displays, 2561 San Pablo Ave.

ADDITION, \$350; 372A 62nd St.; owner, Ruth H. Brandt, 372A 62nd St.; contractor, J. H. Linfoot & Son, 376 60th St.

ALTERATIONS, wrecking building, \$100; 1545 Hopkins, Berkeley; owner, contractor, Symon Bros.

GARAGE, private, \$400; 1180 Keeler, Berkeley; owner, Kargaard; contractor, C. O. Bradhoff.

REPAIR apartments, \$400; 1621 12th Ave., Oakland; owner, A. W. Gustafson, 2103 Myrtle St.

BILLBOARD, \$25; N Hopkins St., 40 E 39th Ave., Oakland; owner, Foster & Kleiser, 22nd and Market

BILLBOARD, \$25; E San Pablo Ave. 55 N 27th St., Oakland; owner, Foster & Kleiser, 22nd and Market

ALTERATIONS, \$200; 710 25th St., Oakland; owner, Chas. Oberto, 710 25th St.

SIDEWALK door frame, \$45; SW 12th and Washington Sts., Oakland; owner, Blake Estate Co., Blake Bldg.; contractor, Phoenix Simpton Co., 520 6th St., San Francisco.

FIRE repairs, \$249; 954 Bay View Ave., Oakland; owner, Mercantile Mortgage Co., Syndicate Bldg.; contractor, A. H. Rose, 478 25th

ALTERATIONS and additions, \$150; 1071 30th St., Oakland; owner, Sidney Theofield, Premises.

GARAGE and shed, one-story, \$300; 3905 Lyman Road, Oakland; owner, R. A. DeBow, 3905 Lyman Rd.

ALTERATIONS and repairs, \$125; 514 Campbell St., Oakland; owner, Andrew Kemp, 514 Campbell St.

BILLBOARD, \$50; NW 14th and Campbell Sts., Oakland; owner, Foster & Kleiser, 22nd and Market.

ALTERATIONS, \$875; 4918 Telegraph Ave., Oakland; owner, Ball & Tira, 4937 Telegraph Ave.; contractor, E. Campomenosi, 6401 Broadway Terrace.

ALTERATIONS, \$535; 3929 Everett St., Oakland; owner, R. C. Bitterman, 3929 Everett St.; contractor, C. Hansen, 1500 Santa Clara Ave., Alameda.

ALTERATIONS, \$350; 50 San Mateo Rd., Berkeley; owner, J. C. Cooley, 1455 Excelsior Ave.; contractor, A. Cederborg, 1455 Excelsior Ave.

ALTERATIONS, \$190; 1393 Harmon St., Berkeley; owner, F. E. Rice, Premises; contractor, Jack Johnson Roofing Co., 2323 Foothill Blvd., Oakland.

ALTERATIONS, \$139; 1510 Bonita St., Berkeley; owner, Anna Rayburn, Prem.; contractor, Oakland Star Roof Co.

ALTERATIONS, \$125; 1333 Bonita St., Berkeley; owner, H. L. Hunter, 639 Poirier St., Oakland.

SIGN, electric, \$175; 442 19th St., Oakland; owner, Dr. Louis Kuttner; contractor, QRS Neon Corp., 690 Potrero Ave., San Francisco.

BUILDING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

- | | |
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| 1.—Apartments | Offices |
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| 3.—Churches | 12.—Power Plants |
| 4.—Factories and Warehouses | 13.—Public Buildings, Fire Houses and Jails |
| 5.—Flats | 14.—Residences |
| 6.—Garages and Service Stations | 15.—Schools |
| 7.—Federal Buildings. | 16.—Banks, Stores and |
| 8.—Club Buildings | 17.—Theatres |
| 9.—Hospitals | 18.—Wharves & Docks |
| 10.—Hotels | 19.—Misc. Const. |
| | 20.—Misc. Supplies & Materials |

3—CHURCHES

PRELIMINARY PLANS PREPARED

LOS ANGELES, Los Angeles Co., Cal.—Architect George J. Adams, 5514 Wilshire Blvd., has prepared preliminary plans for a new church building to be built in the West Adams district for the West Adams Modern Hebrew Center; Rabbi Moses J. Feldman, pastor. Type of construction has not yet been decided. Estimated cost, \$50,000.

PLANS COMPLETE

COMPTON, Los Angeles Co., Cal.—Architect George D. Riddle, 2826 Cedar Ave., Long Beach, reports that final approval of completed plans will probably be received soon for a church building to be built at the northwest corner of San Vincente and Castle-gate Sts., Compton, for the Church of Jesus Christ of Latter Day Saints; C. V. Pugh, rector. The building will be H-shaped and will cover an area of 115x100 feet. It will contain chapel, recreation room and class rooms. Construction will be frame and stucco, tile roofing, concrete floors, toilets, art glass, gas heating, acoustical plaster, wood sash, etc. Owners will probably build by day work and subcontract.

BIDS UNDER ADVISEMENT

LOS ANGELES, Cal.—Architect C. F. Skilling, 1008 W. Adams St., reports that bids will probably be rejected for the church building to be built on Adams St., between Menlo and Ellendale Sts., for the Rodger Williams Baptist Church. Work will probably be handled by segregated contract under the supervision of Mr. Lynn, chairman of the building committee, corner of Adams and Menlo Aves. The building will be a one and part two-story structure, containing chapel, Sunday school and gymnasium. It will be 141x100 feet in area; frame and stucco construction, slate, composition and mastic roofing, steel girders, steel sash, wood floors, tile work, etc.

COMPLETING PLANS

LONG BEACH, Los Angeles Co., Cal.—Architect W. Horace Austin, 532 Chestnut Ave., Long Beach, and Vern D. Hedden, engineer, 420 Security Bldg., Long Beach, are completing plans for rebuilding a church building at the corner of Fifth and Locust Ave., Long Beach, for the First Christian Church. All exterior walls will be rebuilt of reinforced concrete, steel trusses, new partitions, art glass, repairing hardwood floors, plastering, painting, etc. Estimated cost \$100,000.

BIDS WANTED

NELSON, Butte Co., Cal.—Sealed bids for repair of Nelson Community Church, including labor and material used. For further information see Mrs. Pearl Killingsworth of Ladies' Aid. Right to reject any or all bids reserved. Bids to be in by October 9, 1933. Mail all bids to Mrs. C. F. Stolp, Box 22, Nelson. (2765)

Revised Figures Being Prepared.

CHURCH Cost, \$—
CRESCENT CITY, Del Norte Co., Cal. One-story reinforced concrete church (to seat 275).

Owner—Roman Catholic Archbishop (Father Nolan, Pastor), Crescent City.

Architect—Harry Devine, California State Life, Bldg., Sacramento.

Revised bids are to be submitted by the following firms who submitted bids September 28th. Revised bids will be opened October 7, 10 a. m.

J. P. Brennan, Redding, \$15,396; deduct \$400.

T. B. Goodwin, Tule Lake, \$15,678; deduct \$450.

H. W. Robertson, Sacramento, \$17,898; deduct \$860.

(2282) 1st report July 28; 8th Sept. 28, 1933.

4—FACTORIES & WAREHOUSES

Ready for Figures Next Week.

BREWERY Cost, \$275,000
OAKLAND, Alameda Co., Cal. Location not given.

Three-story reinforced concrete brewery (100,000 barrel capacity per year), 150 barrel kettles, etc.

Owner—Samarland Brewing Co., 393 Folsom St., San Francisco.

Architect—O'Brien Bros. and W. D. Peugh, 333 Montgomery St., San Francisco.

Bids will be asked on a general contract and mechanical work in about two weeks.

(1711) 1st report June 3; 6th Sept. 11, 1933.

Sub-Bids Being Taken

ALTERATIONS Cost, \$—
SAN FRANCISCO. NE Sansome and Filbert Streets.

Alterations to warehouse. Owner—North Star Brewery Co., Sansome and Filbert Sts., S. F.

Engineer—A. J. Mazurette, 576 Fifth St., Oakland.

Sub-bids are being taken by Mr. Brown on the premises.

As previously reported, structural steel awarded to McClintic-Marshall Co., 20th and Illinois Sts.

(2246) 1st report July 26; 3d Sept. 20, 1933.

Completing Working Drawings.

BREWERY Cost, \$250,000
SAN FRANCISCO. Tenth and Bryant Streets.

Stock house, bottling house and enlarging of present brewery (Class A steel, concrete and brick construction).

Owner—Milwaukee Brewing Co., 490 Tenth St., San Francisco.

Engineer—Warren E. Murray, 908 Hayes St., San Francisco.

As soon as the final drawings are completed segregated bids will be called for.

(1664) 1st report May 31; 2nd Aug. 29, 1933.

Work Under Way.

REMODEL Cost, \$—
SALINAS, Monterey Co., Cal. North Main Street.

Remodel 3-story brick brewery (capacity of 250 barrels of beer per day). Owner—Salinas Brewing Co. (William Voss in charge), Salinas.

Contractor—F. R. Calvert, 26 Pine St., Salinas.

(2588) 1st report Aug. 31, 1933.

Bids Being Taken for Special Construction Work.

ADDITION Cost, \$800,000
OLEUM, Contra Costa Co., Cal.

Addition to lubricating plant. Owner—Union Oil Co., Mills Bldg., San Francisco.

Plans by Engineering Dept. of Owner.

Stills—Consolidated Steel Corp., Balboa Bldg., San Francisco.

Only special construction work is being figured now and bids will be opened October 1st.

As previously reported, grading awarded to U. B. Lee, 1059 Carpenter St., San Leandro; tanks to Berkeley Construction Co., Second and Camelia Sts., Berkeley.

Mr. Roy Heise, Oleum is in charge of the construction.

(2056) 1st report July 7; 2nd July 20, 1933.

Ready for Segregated Figures Oct. 5.

MILK PLANT Cost, \$9000
SAN JOSE, Santa Clara Co., Cal. 400 block East Empire St.

One-story brick milk processing plant (bottling room, cooling room, bottle washing room, etc.).

Owner—Golden State Co., Ltd., 400 N. First St., San Jose.

Designer—Engineering Department of owner.

Work will be under the supervision of the owner.

(2727) 1st report Sept. 25, 1933.

Plans Prepared.

FACTORY Cost, \$125,000
HANFORD, Kings Co., Cal. On Dudley Ridge.

Fireproof factory.

Owner—L. B. Dapron, 232 E. 7th St., Hanford.

The construction of the plant, if undertaken, will manufacture gas products and carbon black.

Concrete Work Awarded—Electrical Bids to Be Called Next Week.

FOUNDRY Cost, \$50,000
SOUTH SAN FRANCISCO, San Mateo Co., Cal. Tanforan Avenue.

One-story mill type foundry (steel and corrugated iron roof, concrete foundations, etc.).

Owner—American Brake Shoe and Foundry Co., 74 New Montgomery St., San Francisco.

Engineer—K. Theill, 580 Market St., San Francisco.

Reinforced Concrete—Cahill Bros., 206 Sansome St., San Francisco.

Electrical Work—Will be out for figures in a few days.

Plumbing awarded to Scott Co., 243 Minna St., San Francisco.

As previously reported, spur tracks awarded to A. D. Schrader, 234 Stuart St., San Francisco; steel sash and steel doors to Detroit Steel Products Co., 111 Sutter St., S. F.; glass and glazing to W. P. Fuller & Co., 301 Mission St., S. F.; grading to J. S. Baker, 740 Farrington Lane, Burlingame; sheet metal to Forde Cor-nice Works, 269 Potrero Ave., S. F.; roofing to H. H. Robertson Co., 50 Hawthorne St., S. F.

1st report Nov. 1, 1932; 8th Aug. 30, 1933.

Ready For Figures In Ten Days.
CREAMERY Cost, \$18,000
SAN FRANCISCO. Stockton St. and Card Alley.
 Two-story and basement wood frame and stucco creamery (61x113 feet).
 Owner—L. Giannono, 225 Columbus Ave., San Francisco.
 Plans by Peter Canall, 65 Columbus Ave., San Francisco.
 Lessee—Sonoma Mission Creamery. (1953) 1st report June 28; 3rd Aug. 24, 1933.

Contract Awarded.
LAUNDRY Cost, \$3000
SAN FRANCISCO. SW Eighteenth & Florida Sts.
 Two-story frame display room building.
 Owner—Enterprise Laundry, Prem. Architect—Not Given.
 Contractor—E. Rosemont, 176 Duboce Ave., San Francisco.

FIRE LOSS

MARYSVILLE Yuba Co., Cal.—The Marysville Warehouse & Bean Cleaners Company's building on Third Street, between F and Willow Sts., was destroyed by fire October 1st. at a loss of \$75,000. The building is owned by the Capitol Building & Loan Co. of Sacramento. Rebuilding is under consideration. (2766)

Preparing Working Drawings.
FACTORY Cost, \$—
SAN FRANCISCO. NE Harrison and Hawthorne Sts. (150x63.6 ft.)
 Four-story reinforced concrete factory and office building.
 Owner — George Caswell Co. (Mr. Quinn), 442 Second St., S. F.
 Architect—Masten & Hurd, 233 Post St., San Francisco.
 (2148) 1st report July 17; 2nd July 18, 1933.

PLANNED

LOS ANGELES, Cal.—The Golden West Brewing Co., 7th and Kirkham Sts., Oakland, has purchased property at 11th and Soto Sts., Los Angeles, and plans to erect a large brewery next year if conditions permit.

Contract Awarded
HEADQUARTERS BLDG. \$16,770
SACRAMENTO, Sacramento Co., Cal.
 Addition to headquarters building (work involves excavation, concrete, masonry, carpentry, millwork, structural steel, sheet metal steel sash, roofing, painting, glazing, plumbing and electrical installations).
 Owner—State of California.
 Architect—George B. McDougall, State Architect, Public Works Building, Sacramento.
 Contractor—Leo Epp, 4745 Geary St., San Francisco.
 (2582) 1st report Aug. 31; 2nd Sept. 21, 1933.

Completing Working Drawings.
MFG. PLANT Cost, \$500,000
ELMHURST, Alameda Co., Cal. Jones Avenue.
 Group of four 1- 2- and 3-story steel frame and brick buildings for manufacturing plant (tile roof, steel sash, etc.)
 Owner—Standard Brands, Inc., 595 Madison Ave., New York City.
 Architect—Bliss & Fairweather, Balboa Bldg., San Francisco.
 Local Engineer—L. H. Nishkian, 252 Market St., San Francisco.
 Engineer—G. J. Patitz, 595 Madison Ave., New York City.

It is planned to call bids about November 1st. An announcement will be made when plans are ready.
 (9546) 1st report Aug. 9, 1932; 5th July 1, 1933.

PLANNED

BAKERSFIELD, Kern Co., Cal.—Four sites, three of which are under option, are being considered for the new Bakersfield Brewery, Taylor Arcade building, 1660 Chester Ave., Bakersfield, and a decision on the location is expected within the next 10 days, it was announced today following a conference of the brewery directors. Final decision depends upon engineer reports, it was stated. (2766)

6—GARAGES & SERVICE STATIONS

Contract Awarded.
AUTO SHOP Cost, \$—
SAN FRANCISCO. N Cortland Ave. 100 W Bayshore.
 One-story Class C auto shop.
 Owner—W. L. Ulfelder and S. Bis-singer.
 Architect—Not Given.
 Contractor—Barrett & Hilp, 918 Harrison St., San Francisco.

Completing Working Drawings.
SERVICE STATION Cost, \$10,000
NORTH BERKELEY. Alameda Co., Cal. (175x175 feet).
 Reinforced concrete super service station.
 Owner—Withheld.
 Architect — E. L. Snyder, 2101 Shattuck Ave., Berkeley.
 (2371) 1st report Aug. 8; 2nd Aug. 18, 1933.

Grading Started.
SERVICE STATION Cost, \$—
SAN FRANCISCO. Junipero Serra Blvd. and Ocean Ave.
 Concrete, wood stud and plaster service station (plastering, roofing, ornamental iron, etc.)
 Owner — Associated Oil Co., 79 New Montgomery St., San Francisco.
 Plans by Engineering Dept. of Owner.
 Work on the grading has been started by Devencenzi Bros.
 (2402) 1st report Aug. 18; 2nd Aug. 25, 1933.

CONTRACT AWARDED

STATION Cost, \$—
BERKELEY, Alameda Co., Cal.—NW College and Alcatraz Aves.
 Steel Super Service Station.
 Owner — Associated Oil Co., 79 New Montgomery St., San Francisco.
 Architect—Not Given.
 Contractor—Independent Iron Works, 821 Pine St., Oakland.
 (2750)

Completing Plans—Contract Awarded.
GARAGE Cost, Approx. \$2500
BERKELEY, Alameda Co., Cal. Cragmont Avenue.
 Two-story frame and stucco (3) garages and apartment.
 Owner—Mrs. Gertrude Anthony.
 Architect—John Hudson Thomas, 31 Norwood Ave., Berkeley.
 Contractor—C. O. Bradhoff, 911 55th St., Oakland.
 Sub-bids will be taken by the contractor in about a week.
 (2753)

CONTRACT AWARDED

GARAGE Cost, \$5401.28
EUREKA, Humboldt Co., Cal.
 One-story frame garage building.
 Owner—City of Eureka Board of Education.
 Architect—Newton Ackerman, 102 W. Fourth St., Eureka.
 Contractor—Halsby & Lax, 324 "F" St., Eureka, Cal.
 Other firms which submitted bids were Mercer-Fraser, Olaf Knudsen, Chris Winkler of Ferndale and F. L. Maurer & Son.
 (2722) 1st report Sept. 21, 1933.

Planned.
GARAGE Cost, \$25,000
BAKERSFIELD, Kern Co., Cal. 22nd and I Streets.
 One-story concrete auto sales building.
 Owner—Elmer Houchin (Buick and Pontiac Agency), 1412 17th St., Bakersfield.

Buildings now on the site will be razed.
 Plans Being Prepared.
STATION Cost, \$8000
BERKELEY, Alameda Co., Cal. NE Milvia St. and Allston Way.
 Oil service station.
 Owner—Mrs. Coryell.
 Plans by Engineering Dept. of Lessee.
 Lessee—Shell Oil Co., Shell Bldg., San Francisco.
 (2754)

7—FEDERAL BUILDING**BIDS OPENED**

SUNNYVALE, Santa Clara Co., Cal.—Following two bids were received by Public Works Officer, 12th Naval District, 100 Harrison St., San Francisco, for alterations and additions to operations office at the Naval Air Station, Sunnyvale. Specification No. 7357.
 Theo. Johanns, 2020 15th St., San Francisco, \$1088.
 Dinwiddie Constr. Co., Crocker Bldg., San Francisco, \$1130.
 Bids were referred to Washington. (2651) 1st report Sept. 11; 3rd Sept. 27, 1933.

BIDS OPENED

SAN FRANCISCO, Cal.—Following bids were received by U. S. Light-house Service, Custom House, September 19, for erection of keeper's watch house at the Palmdale Airway Station, Los Angeles County:
 Pacific System Homes, Box 1278, Arcade Station, Los Angeles, \$1629.55.
 Oscar L. Jackson, 186 7th St., San Bernardino, \$1860.
 C. T. Cleland, 408 Hagar St., San Fernando, \$1886.
 Neil & Wirtner, Box 414, Turlock, \$1976.
 Erwin Porath, Lancaster, \$2112.
 Bids under advisement.

BIDS OPENED

SAN FRANCISCO, Cal.—Following bids were received by the U. S. Light-house Service, Custom House, for the moving of a keeper's watch house to a site at the Palmdale Airway Station, Los Angeles County:
 Niel & Wixtner, Box 414, Turlock, \$1229.
 C. T. Cleland, 408 Hargar St., San Fernando, \$1273.
 Oscar L. Jackson, 186 7th St., San Bernardino, \$1780.
 Bohlan & Deane, 1156 Logan St., Los Angeles, \$1556.
 Bids under advisement.

PREPARING PLANS

FORT HUACHUCA, Ariz.—Construction Quartermaster, Fort Huachuca, Ariz., announces that bids probably will be called next week for improvements at the army post. An allotment of \$190,000 will be expended for road building, fencing, walks, sewers and repairs to buildings and equipment. Another allotment is to be used for construction of a utility storehouse and other projects. All work is to be done under contract.

FUNDS ALLOTTED

FRANCE FIELD, Canal Zone.—Secretary of the Interior Ickes announces allotment of funds to the Army Air Corps for the following construction projects at France Field, Canal Zone: Barracks, \$269,922; un-commissioned officers' quarters, \$281,647; officers' quarters, \$368,742, and hangars, \$184,369.

SEEKING SITE

REDONDO BEACH, Los Angeles Co., Cal.—The Redondo Beach postmaster is taking bids for prospective sites for the proposed new postoffice building to be erected in Redondo Beach. A minimum frontage of 120 feet is required. The sum of \$125,000 has been appropriated for the building.

BIDS WANTED

CRESCENT CITY, Del Norte Co., Cal.—Bids will be received until October 20, 1933, 11 a. m., by Public Works Officer, U. S. Navy Yard, Mare Island, under Specification No. 7388 for painting and repairs to buildings at the U. S. Naval Radio Direction Finder Station, Point St. George (Crescent City), California.

Specification and drawings may be obtained from Commandant, U. S. Navy Yard, Mare Island.

Deposit of a check or postal money order for \$5.00, payable to the Chief of the Bureau of Yards and Docks, is required.

(2756)

TO AWARD CONTRACT

LOS ANGELES, Cal.—Treasury Department has advised local authorities that a contract will be awarded within a few days for the construction of the first unit of the proposed \$350,000 United States Public Health Service quarantine and detention station on Reservation Point, San Pedro. Bids for the work were opened on July 17 and Charles Montague, 1144 S. Grand Ave., Los Angeles, was the low bidder at \$61,258. The first unit will consist of a two-story office and stores building, 41x32 feet in area; two-story quarters for medical officers, 64x35 ft.; two-story quarters for junior medical officers, 50x43 feet; and a wharf. The buildings will have concrete walls, tile and composition roofing, steel sash, waterproofing materials, architectural terra cotta, ornamental metal, steel medicine cabinets, interior tile work, composition floor tile, linoleum, dumbwaiter and two-pipe hot water heating system. The wharf, containing six 10-foot bays and a 39-foot approach span, will be constructed of creosoted timber piles, farming timber and decking. Orndorf Constr. Co., Los Angeles, was second low bidder at \$66,600 and Willard Lutz, Los Angeles, was third at \$68,000.

PROSPECTIVE BIDDERS

PUGET SOUND, Wash.—In addition to those previously reported, the following have obtained plans and specification No. 7338 from the Bureau of Yards and Docks, Navy Department, Washington, D. C., for machinery and electrical shop building, Puget Sound Navy Yard, Wash. (Bids open October 9):

Wm. Bayley Co., Springfield, Ohio.
H. H. Robertson Co., 2000 Grant Bldg., Pittsburgh.

Wm. MacDonald Constr. Co., 3829 W. Pine Blvd., St. Louis.

J. A. Jones Constr. Co., P. O. Box 115, Maxwell Field, Ala.

Austin Engineering Co., 16112 Euclid Ave., Cleveland.

Graybar Elec. Co., 420 Lexington Ave., New York City.

Truscon Steel Co., Investment Bldg., Washington.

Boga Constr. Co., 410 N. Michigan Ave., Chicago.

L. E. Eck & Son, 313 Steele St., Jamestown, N. Y.

Belmont Iron Works, 225 Washington Ave., Phila.

Virginia Bridge & Iron Co., Roanoke, Va.

W. P. Thurston Co., Richmond, Va.

Pittsburgh-Des Moines Steel Co., Des Moines, Iowa.

American Bridge Co., Frick Bldg.,

Pittsburgh.

Westinghouse Electric & Mfg. Co., Washington.

Bethlehem Fabricators, Bethlehem, Pa.

Murch Bros. Constr. Co., 4111 Lindell Blvd., St. Louis.

BIDS OPENED

MARE ISLAND, Cal.—Following bids received by Public Works Officer, U. S. Navy Yard, Mare Island, for magnesite flooring and base in portions of Building No. 74 and filling house at Mare Island. Specification No. 7442. Estimated cost \$1500.

Malott & Peterson, 20th and Harrison Sts., San Francisco, \$1236.

LeRoy Olson Co., 170 Hooper St., San Francisco, \$1622.

(2674) 1st report Sept. 12, 1933

Bids Wanted. Bids Close Oct. 17, 1933, 11 A. M., P. S. T.

BARRACKS & OFFICERS' QUARTERS BUILDINGS

SAN RAFAEL, Marin Co., Cal. Hamilton Field (Marin Bombing Base).

Three 3-story and basement concrete barracks buildings with tile roof.

Twenty double sets non-commissioned officers' quarters (2-story and

basement hollow tile and stucco structures, tile roof, cast stone,

steel casement windows, gas fired hot water heating system, linoleum,

plumbing, electrical work, etc.

Eleven 2-story and basement hollow tile field officers' quarters.

Fourteen 1-story hollow tile and stucco company officers' quarters.

Eight 2-story hollow tile and stucco company officers' quarters.

Salvage of buildings at Mather Field, Sacramento. (Material to be

cleaned and painted and delivered to Hamilton Field.)

Owner—United States Government.

Plans by Constructing Quartermaster, Hamilton Field, San Rafael, Cal.

Bids may be submitted on each group of buildings or as a whole.

Bids will be opened by the War Department, Office of the Constructing Quartermaster, Hamilton Field, San Rafael, Cal.

Plans and specifications obtainable upon a deposit of \$5 per set or \$20 per group made payable to the Treasurer of the United States.

A copy of each set of plans and specifications may be seen at the Builders' Exchange, 666 Mission St., San Francisco, or at the office of the Constructing Quartermaster, Fort Mason, San Francisco.

(2765-A-B-C-D-E)

VENETIAN BLIND BIDS WANTED

ELKO, Nev.—Until Wednesday October 11, bids will be received by the Supervising Architect, Treasury Department, Washington, D. C., for furnishing Venetian blinds for the Elko, Nev., post office; Proposal 1543.

(2764)

VENETIAN BLINDS BIDS WANTED

MERCED, Merced Co., Cal.—Until Friday, October 13, bids will be received by the Supervising Architect, Treasury Department, Washington, D. C., for furnishing 28 Venetian blinds for the Merced post office; Proposal 1538.

(2763)

VENETIAN BLINDS BIDS WANTED

MERCED, Merced Co., Cal.—Until Friday, October 13, bids will be received by the Supervising Architect, Treasury Department, Washington, D. C., for furnishing 28 Venetian blinds for the Merced post office; Proposal 1538.

(2763)

VENETIAN BLINDS BIDS WANTED

MERCED, Merced Co., Cal.—Until Friday, October 13, bids will be received by the Supervising Architect, Treasury Department, Washington, D. C., for furnishing 28 Venetian blinds for the Merced post office; Proposal 1538.

(2763)

VENETIAN BLINDS BIDS WANTED

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(2763)

VENETIAN BLINDS BIDS WANTED

MERCED, Merced Co., Cal.—Until Friday, October 13, bids will be received by the Supervising Architect, Treasury Department, Washington, D. C., for furnishing 28 Venetian blinds for the Merced post office; Proposal 1538.

(2763)

VENETIAN BLINDS BIDS WANTED

MERCED, Merced Co., Cal.—Until Friday, October 13, bids will be received by the Supervising Architect, Treasury Department, Washington, D. C., for furnishing 28 Venetian blinds for the Merced post office; Proposal 1538.

(2763)

PLANS COMPLETE

ALHAMBRA, Los Angeles Co., Cal.—Architect John Walker Smart, 33 E. Main St., Alhambra, has sent completed plans to Washington for the new United States post office building to be built on South Garfield Ave., Alhambra. It will be a two-story building constructed of reinforced concrete, stone facing, tile and composition, roofing, steel sash, etc. The appropriation is \$175,000.

PLANNED

EL MONTE, Los Angeles Co., Cal.—Treasury Department has reported favorably on the property at the corner of Main and Tyler Sts., El Monte, as the site for the new United States post office to be erected in that city. Over \$70,000 has been allocated for the project.

GOVERNMENT APPROVAL OF MATERIALS

BEVERLY HILLS, Los Angeles Co., Cal.—Supervising Architect, Treasury Department, Washington, D. C., has approved the following materials in connection with the construction of the post office building at Beverly Hills by contractor, Walter G. Warren & Co. of Chicago. Pendant switch, Pass & Seymour; glassware, Inland Glass Works; lighting fixtures, Walter G. Warren & Co.

GOVERNMENT APPROVAL OF MATERIALS

VISALIA, Tulare Co., Cal.—Supervising Architect, Treasury Department, Washington, D. C., has approved the following materials in connection with the construction of the post office at Visalia by Walter G. Warren & Co., 351 E. Ohio St., Chicago, Ill., contractor; Glassware, Inland Glass Works; pendant switch, Pass & Seymour; lighting fixtures, Walter G. Warren & Co.

CONSTRUCTION AUTHORIZED

MARCH FIELD, Riverside Co., Cal.—The United States War Department has authorized construction work at March Field, to start at once, totaling \$274,012. The program includes the following: Medical detachment barracks, \$22,061 completion of laundry, \$3060; completion of bakery, \$1513; hospital contagious ward, \$10,645; officers' mess, \$42,489; completion of theatre, stage equipment, drapes and chairs, \$565; gasoline storage system completion, \$10,000; bomb storage system, \$5000; sprinkling system, \$12,000; telephone construction, \$2500; non-commissioned officers' quarters, \$22,500; improvements to warehouse, \$2000; magazine for storing explosives, \$4500; water tank and pump, \$20,000; ordinance warehouse, \$43,379; road building, \$10,000; sentry house, \$1800; landing field drainage system and improvement, \$50,000; and radio building, \$10,000. Bids are being taken at this time for the medical detachment barracks, hospital contagious ward, officers' mess building, and stage equipment, drapes and chairs.

BIDS WANTED

MARCH FIELD, Riverside Co., Cal. Until 10 A. M., October 16, bids will be received by the Constructing Quartermaster, March Field, for the construction of an officers' mess building at March Field. Bidding data may be obtained from the constructing quartermaster upon deposit of \$25. The appropriation for the building is \$42,489. This project was advertised last May, but the bid call withdrawn on account of the appropriation having been diverted to other uses.

GOVERNMENT APPROVAL OF MATERIALS

REDLANDS, San Bernardino Co., Cal.—Supervising Architect, Treasury Department, Washington, D. C., has approved the following material in connection with the construction of the post office building at Redlands by Walter Warren & Co., contractor. Pendant switch, Pass & Seymour

Bids Wanted—Bids Close October 16, 11 A. M.

OFFICERS QUARTERS Cost, \$—**FORT LEWIS, Washington.**

Two four-family company officers' apartments houses (20 non-commissioned officers' quarters).

Owner—U. S. Government. Architect—Constructing Quartermaster's Office.

Bids will be received and opened by the War Department, Office of the Constructing Quartermaster, Fort Lewis, Wash.

Plans and specifications and further information will be furnished upon deposit of a certified check for \$25 made payable to the Treasurer of the United States. (2768)

GOVERNMENT APPROVAL OF MATERIAL

SAN JOSE, Santa Clara Co., Cal.—The Supervising Architect, Treasury Department, Washington, D. C., has approved brass pipe by Bridgeport Brass Co. in connection with the construction of the post office building at San Jose, W. J. Ochs, San Jose, contractor.

BIDS WANTED

MARCH FIELD, Riverside Co., Cal.—Until 1 P. M., October 16, bids will be received by the Constructing Quartermaster, March Field for the construction of medical detachment barracks and hospital contagious ward at March Field. Bidding data may be obtained from the constructing quartermaster upon deposit of \$25. The barracks building will be a two-story structure, 75x44 feet in area; appropriation \$22,061. The wards will be housed in an addition, 42x17 feet in area, to an existing building; appropriation \$10,645. Concrete foundations, hollow concrete walls, tile roofing, concrete floors, wrought iron railings, asphalt tile and linoleum floor covering, waterproofing, steel windows, steel door frames, kalamain doors, steel lockers, metal lath, marble, tile and soapstone work, copper screens, shades, hospital equipment, electric water coolers, low pressure, oil-fired steam heating system, and addition to existing hot water heating system. Bids received for this work on March 22 were rejected.

PROSPECTIVE BIDDERS

MARE ISLAND, Cal.—Following is a list of prospective bidders for new tin roof and gutters, wood cornice, wood framing, plaster ceiling and other work for Marine Barracks Bldg. No. M-53, Mare Island, under Specification No. 7382.

Bids will be received until October 17, 11 a. m., by the Public Works Officer, U. S. Navy Yard, Mare Island. Plans obtainable from A. L. Parsons, Chief of Bureau of Yards and Docks, Mare Island, on a deposit of \$5.00.

Prospective Bidders

Theo. Johanns, 2020 15th St., San Francisco.

Thos. J. Doyle, 1527 17th Ave., San Francisco.

Western Roofing Co., 4348 Mission St., San Francisco.

Fire Protection Products Co., 1161 6th St., San Francisco.

1st report Sept. 26, 1933.

WORKING DRAWINGS COMPLETE

SOUTH PASADENA, Los Angeles Co., Cal.—Architects Marsh, Smith & Powell, 516 Architects Bldg., Los Angeles, have forwarded to Washington completed working drawings for the new United States post office building to be built at El Centro and Fremont St., South Pasadena. Cost is estimated at \$120,000.

8— CLUB BUILDINGS**CONTRACT AWARDED**

LONG BEACH, Los Angeles Co., Cal.—Chas. W. Pettifer Co., Inc., 733 W. 14th St., Long Beach, has been awarded the contract at \$34,930 for repairing and adding to a club building on Cedar Ave., near Ocean Ave., Long Beach, for the Elks Club. Plans were prepared by Architect Warren Dedrick, 901 Heartwell Bldg., Long Beach. Steel frame construction, brick and reinforced concrete repairs, interior plastering, concrete front wall, new partitions, cast metal grilles, tile showers, metal canopy, steel sash, etc.

Additional Prospective Bidders.
MEMORIAL BLDG. Cost, \$—**SAN LEANDRO, Alameda Co., Cal.** Bancroft Ave. near Estudillo.

Two-story reinforced concrete Veterans' memorial building (100x125 ft.); tile roof, steam heating system.

Owner—County of Alameda.

Architect—Henry H. Meyers, Kohl Bldg., San Francisco.

Following firms have applied for plans:

Sjoberg & Son, 632 Call Bldg., San Francisco.

E. T. Leiter & Son, 811 37th St., Oakland.

K. E. Parker, 135 South Park, San Francisco.

Val Franz & Son, 666 Mission St., San Francisco.

Western Iron Works.
Schuler & McDonald, Inc., 1723 Webster St., Oakland.

A. Cederborg, 1045 Excelsior Blvd., Oakland.

Bids are being taken for a general contract. Plans may be obtained from the Clerk on deposit of \$50, certified check or cash. Five days will be allowed for bidders to return plans, if not bidding, without forfeiting deposit. General contractors will be allowed to keep plans 15 days. Bids close October 24, 10:30 A. M. (8981) 1st report June 2; 9th Sept. 23, 1933.

9— HOSPITALS**BIDS WANTED FOR HOSPITAL BEDS**

LOS ANGELES, Los Angeles Co., Cal.—Until 2 p. m., October 23, bids will be received by the Los Angeles county supervisors for furnishing and installing fracture beds in the General Hospital, 1100 Mission Road. Bids will be taken as follows:

(A) 80 fracture beds, equipped with elevating legs and ratchet bars;

(B) alternate to item A, 80 fracture beds equipped with crank operated elevating mechanism;

(C) ten pairs of detachable guard rails, twelve socket wrenches and 24 extra pins for extension stems. William Davidson, 1006 Hall of Records, county mechanical engineer. Mame B. Beatty, 501 Hall of Records, clerk of the board.

BIDS WANTED FOR STEEL SHELVING AND STEEL COUNTER

LOS ANGELES, Los Angeles Co., Cal.—Until 2 p. m., October 23, bids will be received by the Los Angeles county supervisors for furnishing and

installing steel counter in clinical records storage room at the General Hospital, 1100 Mission Road. Specifications No. 290.

At the same meeting separate bids will be received for furnishing and installing 35 sections of steel shelving in the clinical records storage room at the General Hospital, 1100 Mission Road. Plans were prepared by William Davidson, Los Angeles county mechanical engineer. Mame B. Beatty, 501 Hall of Records, clerk of the board.

RE-ROOFING BIDS OPENED

SAN FRANCISCO, Cal.—Empire Roofing Co., 261 Silver Ave., submitted lowest bid to Department of Public Works, Room 251 City Hall, for covering roof of laundry building, Laguna Honda Home with 3-ply tar and gravel.

Other bidders were:
Malott & Peterson, S. F. \$155.00
Alta Roofing Co., 155.00
J. Bender Roofing Co., 161.00
1st report Sept. 27, 1933.

Taking Sub-Bids.

HOSPITAL Cost, \$12,000
SAN MATEO, San Mateo Co., Cal., El Camino Real and El Cerrito Aves.

Two-story frame and stucco medical building.

Owner—Dr. Alan Benner, 27 San Mateo Drive, San Mateo.

Architect—Leo Sharps, 1477 Burlingame Ave., Burlingame.

Contractor—Lengfeld & Olund, 220 3rd Ave., San Mateo.

Building will contain office, laboratories, a minor operating room, and one or two rooms to take care of emergency patients. (2721) 1st report Sept. 21, 1933. 9

Federal Aid Applied For.
HOSPITAL Cost, \$70,000

REDDING, Shasta Co., Cal. One and two-story reinforced concrete hospital (245x36 feet); two ward wings and composition roof, steam heating system.

Owner—County of Shasta. Architect—Otto Deichmann, 110 Sutter St., San Francisco.

Plans are nearly complete. (6838) 1st report Oct. 9, 1931; 6th Nov. 2, 1932.

10— HOTELS**PAINTING CONTRACT AWARDED**

BERKELEY, Alameda Co., Cal.—C. P. Champs, 1915 Addison St., Berkeley, awarded contract for painting, waterproofing and redecorating interior and exterior of four-story Class C hotel building on Addison St. and Shattuck Ave., The Berkeley Hotel, 2039 Shattuck Ave., Berkeley, is the lessee and Bruce Coldwell, the owner.

**13— PUBLIC BUILDINGS
FIRE HOUSES & JAILS****CONTRACT AWARDED**

SAN FRANCISCO, Cal.—Square Deal Floor Co., at \$139 submitted lowest bid and was awarded contract by Department of Public Works for sanding and finishing floor of Polk Hall in the Civic Auditorium. Other bidders were:
Inlaid Flooring Co., S. F. \$189.00
Oak Floor Co., S. F. 230.00
Royal Floor Co., S. F. 270.00

HEATING AND VENTILATING BIDS WANTED

McNEIL ISLAND—Bids for installation of a heating and ventilating system in the auditorium isolation building at the federal penitentiary, McNeil Island, are being taken by the warden there for opening at 2 P. M., October 11.

BIDS WANTED

LAKEPORT, Lake Co., Cal.—Until October 10, 10 A. M., bids will be received by Fred H. Merritt, County Clerk, for furnishing material and construction of concrete steps at the front of the Court House building at Lakeport. A bond of \$250 will be required. Plans and specifications on file in the Clerk's office. (2761)

Bids Returned Unopened.
ADDITION Cost, \$90,000
VISALIA, Tulare Co., Cal.
 Three and one-half-story addition to courthouse (central heating plant) approx. 20,000 sq. ft. of floor space
 Owner—County of Tulare.
 Architect—Ernest J. Kump, Rowell Bldg., Fresno.
Structural Engineer—F. W. Kellberg, 320 Market St., San Francisco.
 Bids returned unopened on advice of the District Attorney. (1176) 1st report April 13; 4th Sept. 25, 1933.

14—RESIDENCES

Bids Wanted for Painting, Wiring and Tile Work.
DWELLING Cost, \$2940
OAKLAND, Alameda Co., Cal. No. 1741 105th Ave.
 One-story dwelling (5 rooms).
 Owner—Lawrence Perkins, Angel Island.
 Architect—Not Given.
 Contractor—J. C. Rodger, 2257 106th Ave., Oakland.
 Following sub-contracts have been awarded.
Plumbing—K. C. Nelson, 2534 14th Avenue.
Tile—Kenneth Meiring Tile Works, 1139 Addison St., Berkeley.
Plastering—Arthur A. Moore Co., 526 57th St., Oakland.
Electric—Allendale Electric Co., 4233 Masterson St., Oakland.
Hardwood Floors—A. Ranconi, 5127 Lawton Ave., Oakland.
Lumber and Millwork—Melrose Lumber & Supply Co., 1201 46th Ave.,
Roofing—M & L Roofing Co., 9224 Foothill Blvd., Oakland.
Concrete—Allan MacDonald, 1539 39th Ave., Oakland.

Work Underway.
RESIDENCES Cost, \$20,000 each
SHASTA, Shasta Co., Ca. McCloud River Estate.
 Three two-story frame rustic style cottages.
 Owner—Wm. Randolph Hearst.
 Architect—Miss Julia Morgan, Merchants' Exchange Bldg., S. F.
 Contractor—F. C. Stolte, 3449 Laguna Ave., Oakland.
 Work on rebuilding structures destroyed by fire was started in June of this year. These cottages are now under construction. Rebuilding of "The Castle" the large residence will not be under taken at this time. (1923) 1st report June 24, 1933

Sub-Contracts Awarded.
RESIDENCE Cost, \$9000
SAN FRANCISCO. E San Leandro Way 82 S Portola Drive, San Francisco Wood.
 Two-story and basement frame and stucco residence.
 Owner—L. W. Stocker, 425 Mason St., San Francisco.
 Architect—Masten & Hurd, 233 Post St., San Francisco.
 Contractor—Clinton-Stephenson Construction Co., 550 Montgomery St., San Francisco.
Tile Work—Malott & Peterson, 20th and Harrison Sts.
Mill Work—Balboa Mill & Cabinet Co., 100 Havelock St.
Heating and Sheet Metal Work—

Poulsen & Co., 350 Potrero Ave.
Plastering—Carl Wilken, 221 Scott.
Painting—J. W. Sorensen, 42 Dwight.
Brick Work—J. J. Allen and J. G. Maurer.
Ornamental Iron Work—Industrial Ornamental Iron, Bronze & Wire Co., 552 Noe St.
Stairs—Atlas Stair Builders, 2901 22nd Street.
 As previously reported, lumber awarded to Loop Lumber Co., Central Basin; plumbing to I. D. Chadbourne, 424 Dewey Blvd.; electrical work to Geo. A. Klingler, 1130 Munich St.; tile roof to C. L. Frost, Palo Alto; excavating to Devencenzi Bros., 150 Collins St. (2537) 1st report Aug. 26; 6th Sept. 23, 1933.

To Be Done By Day's Work.
RESIDENCE Cost, \$5500
SAN FRANCISCO. N Belgrave St. 420 E Stanyan St.
 Two-story and basement frame residence.
 Owner—M. Malone, 555 Buena Vista Ave., San Francisco.
 Architect—Not Given.

Sub-Contracts Awarded.
RESIDENCES Cost, \$5000 each
OAKLAND, Alameda Co., Cal. No. 3996 Oakmore Road and 3570 Jordan Road.
 Two one-story frame residences (5 rooms).
 Owner—Leo J. Dolan, 316 17th St., Oakland.
 Architect—Not Given.
Lumber—Sunset Lumber Co., 400 High St.
Mill Work—Pacific Mfg. Co., 1315 7th Street.
Plumbing—Minoggio Bros., 2316 Telegraph Ave.
Wiring—Diamond Electric Co., 2100 Hopkins St.
Foundations—Nat Lena, 1174 19th St. 1st report Sept. 28, 1933.

Brick Work Bids Wanted.
RESIDENCE Cost, \$—
HILLSBOROUGH, San Mateo Co.
 Two-story and basement residence (10 rooms and 3 baths) shakes and plaster exterior, shake roof, gas heating system, hardwood floors, etc.
 Owner—Sydney Leibes.
 Architect—William I. Garren, 233 Post St., San Francisco.
 Contractor—Moore & Roberts, 693 Mission St., San Francisco.
 Contracts on painting, sheet metal work, heating and hardwood floors will be awarded soon.
Tile Work awarded to Progressive Tile Co., 1216 Powell St.
 As previously reported:
Plastering—Geo. Frick, 836 Fulton St., San Francisco.
Plumbing—W. E. Trousdale, 422 Turk St., San Francisco.
Electrical Work—M. Schimetschek, 526 Hayes St., San Francisco.
Stairs—J. Di Cristina & Son, 1025 Capp St., San Francisco.
Excavation—John Cusse, Palo Alto.
Concrete—A. Dini & Co., 3275 San Bruno Ave., San Francisco.
Lumber—Smith Lumber Co., Fourth and Channel Sts., San Francisco.
Mill Work—Brannan St. Planing Mill, 560 Brannan St., San Francisco. (2298) 1st report July 31; 6th Sept. 23, 1933.

To Be Done By Day's Work.
RESIDENCE Cost, \$3200
SAN FRANCISCO. W. Mission St., 75 N. Castle Manor.
 Two-story and basement frame residence.
 Owner—M. T. Struthers, 4250 Mission.
 Architect—Not Given.

Contract Awarded.
RESIDENCE Cost, \$—
BERKELEY, Alameda Co., Cal. No. 2081-83-85 Vine St.
 Two-story 5-room frame residence and two stores.
 Owner—Geo. Ellw, 2439 Grant St., Berkeley.
 Contractor—Leslie C. Dawe, 449 Courtney Road, Berkeley.

Owner Taking Sub-Bids.
RESIDENCE Cost, \$—
MERCED MANOR, San Francisco.
 One and one-half-story frame and stucco Spanish style 6-room residence.
 Owner—G. J. Elkington & Son.
 Architect—S. A. Colton, 544 Market St., San Francisco.
 Tile and composition roof, tiled patio, oak plank floors, canvas walls and ceilings, gas hot air heat. (2752)

Ready for Figures.
RESIDENCE Cost, \$6590
CLAREDEN HEIGHTS.
 One-story frame and stucco residence, 6 rooms, two baths.
 Owner—Miss Ethel McFadden.
 Architect—Chas. Strothoff, 2271 15th St., San Francisco.
 Ready for figures in a few days. (2710) 1st report Sept. 18, 1933.

Bids Rejected.
RESIDENCE Cost, \$—
BERKELEY, Cal. Alvarado Road, Claremont District.
 Two-story frame and stucco Mediterranean style residence (9 rooms and 4 baths).
 Owner—R. E. Wolf.
 Architect—Edwin L. Snyder, 2101 Addison St., Berkeley.
 Bids were too high and were rejected. What action will be taken has not been decided. (2596) 1st report Sept. 1; 2nd Sept. 23, 1933.

Segregated Figures Being Taken.
RESIDENCE Cost, \$15,000
SAN FRANCISCO. Forest Hill.
 Two-story frame and brick veneer residence (8 rooms and 4 bathrooms).
 Owner—Albert Gallenkamp.
 Architect—Edward E. Young, 2202 California St., San Francisco. (2715) 1st report Sept. 19, 1933

Owner Taking Bids.
ALTERATIONS Cost, \$2000
SAN FRANCISCO. 429 Brazil Ave.
 Alter frame residence.
 Owner—F. D'Antonio, 839 Brazil Ave., San Francisco.
 Architect—J. J. Foley, 770 15th Ave., San Francisco.

Taking Sub-Bids.
RESIDENCE Cost, \$12,000
OAKLAND, Alameda Co., Cal. Pleasanton Road, near Castlewood Country Club.
 Two-story, 8-room, frame residence.
 Owner—L. Anderson.
 Architect—Not Given.
 Contractor—Chris. Hansen, 1500 Santa Clara Ave., Alameda.
 Bids are wanted on tile roofing, mill work and electrical work.
 Sub-contracts have been awarded as follows:
Lumber—Sunset Lumber Co., 400 High Street.
Plumbing—Roeber Plumbing Co., 7818 Hillside.
Concrete—L. M. Rasmussen, 1442 102nd Ave.
Sheet Metal & Heating—Atlas Heating & Ventilating Co., 1541 32nd Street.
Plastering—A. Springer Co., 620 17th Street.

Sub-Bids Wanted.

RESIDENCE Cost, \$——
SAN FRANCISCO. N.W. Williams
and Neptune.

One-story and basement frame and
stucco residence, 8 rooms and 2
bathrooms (Spanish style), roof
tile, hot air gas furnace, oak floors,
ornamental iron, colored tile
baths, kitchen, etc.

Owner—J. Dematei, 127 Williams St.,
San Francisco.

Architect—Not Given.

Contractor—Empire Construction Co.,
Shell Bldg., San Francisco.

Sub-bids wanted on all branches of
the work. Construction will be
started Oct. 5.

Sub-Bids Wanted.

RESIDENCE Cost, \$——
BERKELEY, Alameda Co., Cal.
Craigmont Ave.

One-story 6 room residence.

Owner—Sigmund Reimer, 15 Marguerite
Drive, Oakland.

Architect—Not Given.

Contractor—W. A. Netherby, 3853 Lyman
Road, Oakland.

Sub-bids wanted on brick work, wiring,
flooring and tile roofing.

Concrete work has been awarded to
Axel A. Johnson, 1280 Monterey,
Berkeley.

Contract Awarded.

RESIDENCE Cost, \$3000
SAN FRANCISCO. N Golden Gate
Ave. 75 W Willard St.

One-story and basement frame residence.

Owner—Miss M. Winterson, Divisadero
St., San Francisco.

Architect—Not Given.

Contractor—John Kenison, 289 San
Jose Ave., San Francisco.

Low Bidder.

RESIDENCE Cost, \$——
OAKLAND, Alameda Co., Cal. Sun-
nyhills Road.

Two-story frame and stucco residence
(7 rooms).

Owner—C. J. Benz, 3486 34th Ave.,
Oakland.

Architect—Miller & Warnecke, Finan-
cial Center Bldg., Oakland.

Low Bidder—Olaf Petersen, 3626
Oakland.

Taking Sub-Bids.

RESIDENCE Cost, &——
OAKLAND, Alameda Co., Cal. Fair-
way Ave., near Oak Knoll Blvd.

One-story, 6-room, frame residence.

Owner—Dr. Edwin T. James, 929
Union St., Alameda.

Architect—Not Given.

Contractor—Chris. Hansen, 1500 Santa
Clara Ave., Oakland.

Sub-bids are wanted on mill work,
tile roofing and electrical work.

Following sub-contracts have been
awarded:

Lumber—Sunset Lumber Co., 400 High
St., Oakland.

Plumbing—Roeber Plumb'g Co., 7818
Hillside St.

Concrete — L. M. Rasmussen, 1442
102nd Ave.

Sheet Metal Work & Heating—Atlas
Heating & Ventilating Co., 1541
32nd St., Oakland.

Plastering—A. Springer Co., 629 17th
St., Oakland.

Contract Awarded.

RESIDENCE Cost, \$——
LOS GATOS. Santa Clara Co., Cal.
At Vasona Junction.

Two-story frame and brick veneer
English style residence (9 rooms).

Owner—Gordon Almsley, Campbell.

Architect—Ralph Wyckoff, San Jose
National Bank Bldg., San Jose.

Contractor—N. J. Nielsen, 1270 Iris
Court, San Jose.

(2759)

Contract Awarded.

RESIDENCE Cost, \$3500
BERKELEY, Alameda Co., Cal. No.
1180 Keeler.

One-story 5-room frame residence.

Owner—Mr. Kargaard, 1722 Dwight
Way, Berkeley.

Architect—Not Given.

Contractor—C. O. Bradhoff, 911 55th
St., Oakland.

Taking Sub-Bids.

RESIDENCE Cost, \$——
OAKLAND, Alameda Co., Cal. No.
6545 Liggett Drive.

One-story, 5-room, frame residence.

Owner—Mr. Beery.

Architect—Not Given.

Contractor—W. A. Netherby, 3853 Ly-
man Road, Oakland.

Sub-bids are wanted for brick work,
wiring, flooring and tile roofing.

To Be Done By Day's Work.

RESIDENCE Cost, \$3900
SAN FRANCISCO. W Seventeenth
Ave. 175 S Lincoln Way.

One-story and basement frame resi-
dence.

Owner—Allison & Beck, 216 Eddy St.,
San Francisco.

Architect—Not Given.

Contract Awarded.

RESIDENCE Cost, \$8500
PIEDMONT, Alameda Co., Cal. Pied-
mont Pines.

Two-story and basement frame and
stucco residence.

Owner—Wm. H. Green, 1242 Trestle
Glen Road, Oakland.

Designer—F. L. Confer, 2812 Russell
St., Berkeley.

Contractor—F. W. Confer, 2800 Shasta
Road, Berkeley.

(2726) 1st report Sept. 23, 1933.

Contract Awarded.

RESIDENCE Cost, \$15,000
SAN FRANCISCO. Marina District.

Two-story and basement frame, stucco
and brick veneer residence (eight
rooms and 2 baths).

Owner—Dr. Nicholas Zuardot and Dr.
Katherine Barbick.

Architect—Clarence Tantau, 210 Post
St., San Francisco.

Contractor—Fred DuPuy, 110 Sutter
St., San Francisco.

(2155) 1st report June 14; 6th Sept.
22, 1933.

Day's Work.

RESIDENCE Cost, \$4000
BERKELEY, Alameda Co., Cal. 180
Brookside Drive.

Two-story, 6-room frame residence
and garage.

Owner—Hufschmidt & Whalen, 461
Lee St., Oakland.

Sub-Contracts Awarded

RESIDENCE Cost, \$6500
BURLINGAME, San Mateo Co., Cal.
Wilbur Place.

Two-story frame residence.

Owner—W. Wallgren.

Architect—W. F. C. Gillam, 1470
Broadway, Burlingame.

Contractor—Geo. W. Williams Co., 315
Primrose Road, Burlingame.

Concrete Work: Gus Adolphson, 706
North Claremont, San Mateo.

Lumber: Wisnom Lumber Co., San
Mateo.

(2767)

CONTRACT AWARDED

SAN MARINO Cal.—W. C. Warm-
ington, 9435 Santa Monica Blvd., Bev-
erly Hills, has the contract for the
construction of a two-story and base-
ment residence in San Marino for A.
M. Upshur. Plans were prepared by
Architect Gerard Colcord, 124 S. Cam-
den Dr., Beverly Hills. It will contain
12 rooms, 3 bathrooms and will be of
frame and brick veneer construction,
shingle roofing. Estimated cost is
\$25,000.

DAY'S LABOR

ATHERTON, San Mateo Co., Cal.—
Atherton City Council rejected three
bids for constructing an addition to
the police chief's house adjoining the
city hall and ordered the work done
by day labor under the direction of
W. H. Weedon of Menlo Park.

Contract Awarded.

RESIDENCE Cost, \$8000
SAN MATEO, San Mateo Co., Cal.
Fairfax Ave., Lot 10 Blk 12.

Two-story frame residence.

Owner—Walter R. Shoof.

Architect—Not Given.

Contractor—Preston A. Dietz, 305
Fairfax Ave., San Mateo.

Contract Awarded.

RESIDENCE Cost, \$4500
ROSS, Marin Co., Cal.

Two-story frame residence and ga-
rage (6 rooms).

Owner—Emmet A. Commins and Wife
Ross.

Architect—Not Given.

Contractor—Jas. L. Rich, 556 37th
Ave., Oakland.

Sub-Contracts Awarded.

RESIDENCE Cost, \$——
BAYWOOD, San Mateo Co., Cal. Fair-
fax Avenue.

Two-story frame and stucco English
style residence.

Owner—F. Finneran, 1129 Cambridge
Road, Burlingame.

Architect—W. F. C. Gillam, 1470
Broadway, Burlingame.

Contractor—G. W. Williams, 315
Primrose Road, Burlingame.

Concrete Work—Gus Adolphson, 706
North Claremont, San Mateo.

Lumber—Wisnom Lumber Co., San
Mateo.

To Be Done By Day's Labor.

RESIDENCE Cost, \$4000
SAN FRANCISCO. E Twenty-first
Ave. 51 S Sloat Blvd.

One-story and basement frame resi-
dence.

Owner—F. Nelson & Son, 2919 19th
Ave., San Francisco.

Preparing Working Drawings.

RESIDENCES Cost, \$——
BERKELEY, Alameda Co., Cal. Clare-
mont Court District.

Two two-story and basement frame
and stucco residences.

Owner—Withheld.

Architect—E. L. Snyder, 2101 Addi-
son St., Berkeley.

Plans will be ready for figures in
three weeks.

(2596) 1st report Sept. 1, 1933.

BOND ELECTION

OAKLAND, Alameda Co., Cal.—The
Alameda County Board of Supervisors
have voted to place a bond issue for
\$1,391,000 for the erection of a new
county courthouse on the ballot at a
special election to be called by Gov-
ernor Rolph in December.

The bond issue will represent 70
per cent of the estimated \$2,000,000
cost of the structure, 30 per cent to
be supplied by the Federal Public
Works Administration.

The site of the new courthouse,
it was decided, will be that of the
present Hall of Records at Fifth St.
and Broadway.

(2758)

BIDS OPENED

SAN QUENTIN, Marin Co., Cal.—
Westinghouse Electric Elevator Co.,
166 Seventh St., San Francisco, sub-
mitted low bid to State Architect at
Sacramento October 3, at \$2638 for
furnishing and installing a passenger
elevator at San Quentin prison. Other
bidders were:

Otis Elevator Co., S. F. \$2662

Pacific Elev. & Equip. Co., S. F. 2850

Bids were taken under advisement.
(2770)

Contract Awarded.

RESIDENCE Cost, \$—
SAN MATEO, San Mateo Co., Calif.
 Baywood Park.
 One and one-half-story frame and stucco residence (7 rooms and 2 baths) tile roof, gas heating system, interior stucco and canvas, tiled baths and kitchen.
 Owner—A. L. Scott, 244 Staten Street, San Mateo.
 Architect—Harold Stoner, 810 Ulloa St., San Francisco.
 Contractor—E. S. Shaver, 2600 Easton Drive, Burlingame.
 (1809) 1st report June 14; 6th Aug. 7, 1933.

Bids Opened.

SCHOOL Cost, \$15,000
FORT JONES, Siskiyou Co., Cal.
 One-story wood frame fireproof grammar school (3 classrooms) concrete foundations, cement stucco exterior, etc.
 Owner—Fort Jones Union Elementary School District.
 Architect—Starks & Flanders, Forum Bldg., Sacramento.
 Following bids received:
 (1) for wood lath, ded.; (2) including plumbing and heating.
 Sig Ash, Medford, Ore.\$13,800
 (1) 350
 Azevedo & Sarmento, Sacto.\$14,200
 (1) 400
 (2) 17,300
 J. P. Brennan, Redding\$15,200
 (1) 250
 (2) 18,400
 Chas. F. Unger, Sacramento\$15,900
 (1) 320
D. M. Reid, Yreka (complete including plumbing and heating)\$17,989
Watson Bros., Fort Jones, (plumbing and heating only)\$ 3,333
 Bids held under advisement.
 (2614) 1st report Sept. 5, 1933.

Plans Being Prepared.

SCHOOL BLDG. Cost, \$25,000
SAN JOSE, Santa Clara Co., Cal.
 4th & Lodi Avenues.
 One and one-half-story concrete, frame and stucco science building
 Owner—Rosierucan Order (Dr. H. Spencer Lewis, Head of Organization), 1342 Nagle Ave., San Jose
 Designer—Architectural & Engineering Dept. of Owner.
 Contractor—Paul Anderson, 1210 Lincoln Ave., San Jose.
 Construction will be started about November 1.
 A Roman basilica, a colonnaded court sheltering an outdoor auditorium to cost \$25,000 will also be erected.
 (2261) 1st report July 26, 1933

15—SCHOOLS

PREPARING PRELIMINARY PLANS

LONG BEACH, Los Angeles Co., Cal.—Architect and Engineer Schilling & Schilling, 151 Linden Ave., Long Beach, are starting preliminary plans for rebuilding the Hamilton Junior High School in Long Beach. The estimated cost is \$389,000.

PLANNED

CHICO, Butte Co., Cal.—The building and grounds committee of the Chico Board of Education is making an investigation of drinking water conditions at the Rosedale School and at the next meeting of the board will present plans for the establishment of a modern pressure system. The present system is declared insanitary.
 Col. F. W. Thompson is chairman of the committee. Other members are Frank Parker and Chester Rose.

COMMISSIONED TO PREPARE PLANS

NEWPORT BEACH, Orange Co., Cal.—Architect Donald Beach Kirby, 119 N. Kenwood, Glendale, has been commissioned by the Newport Beach School District to prepare preliminary sketches for a new grammar school to be erected in Newport Beach. A bond issue will probably be submitted to the voters to provide funds for the improvements. The building will replace the one which was practically destroyed last March.

RE-ROOFING BIDS OPENED

SAN FRANCISCO, Cal.—Empire Roofing Co., 261 Silver Ave., submitted lowest bid at \$81 to Department of Public Works, 251 City Hall, for covering concrete surface of the passageway roof of the Parkside School, 25th Ave. and Ulloa St., with 5-ply tar and gravel.

Other bidders were:

Alta Roofing Co., S. F.\$ 90.00
 J. W. Bender Roofing Co., S. F. 98.00
 Malott & Peterson, S. F. 130.00
 1st report Sept. 27, 1933.

Plans Being Figured. Bids Close Oct. 12, 1933, 11 A. M.

MEDICAL SCHOOL BLDG. Cost, \$—
SAN FRANCISCO. University of California site, Second and Parnassus Aves.

(1) complete interior of sixth and seventh floors (2) laboratory furniture, (3) linoleum, (4) grading and paving around building.

Owner—Regents of the University of California.

Architect—W. C. Hays, Crocker-First National Bank Bldg., San Francisco.

Further information obtainable at Cashier's window, California Hall, University of California, Berkeley. \$100 required on drawings and specifications or \$25 for each set.

Official proposal appears in this issue.

(6691) 1st report Sept. 17, 1931; 26th March 16, 1933.

PREPARING PLANS

LONG BEACH, Los Angeles Co., Cal.—Architect H. R. Davies, 430 E. Ocean Ave., Long Beach, is preparing preliminary plans for rebuilding the buildings on the Polytechnical High School site in Long Beach. The group includes science, commercial, cafeteria, gymnasium, shops, art, administration, students' store and auditorium buildings. Plans for reconditioning the auditorium are nearing completion. The plant will have accommodations for 3000 students. Estimated cost of improvements is \$800,000.

CONTRACT AWARDED

COMPTON, Los Angeles Co., Cal.—Blystone & Van Tyle, 136 S. Walnut St., Brea, have been awarded a contract at \$24,130 by the Compton Union High School District for reconstruction of main building at the Clearwater Junior High School, Compton. The award was based on main bid (1) and alternate bids (A1) and (B1). The work will include removal of second story and replacing of walls with frame and stucco, and the addition of four classrooms. Plans were prepared by Architects Marsh, Smith & Powell, 516 Architects' Bldg., Los Angeles.

CONTRACT AWARDED

COMPTON, Los Angeles Co., Cal.—Blystone & Van Tyle, 136 S. Walnut St., Brea, have been awarded a contract by the Compton Union High School District, at \$24,600 for the reconstruction of present main building at the Willowbrook Junior High School in Compton. The award was based on main bid (1) and alternate bids (A1) and (B1). The work will include the reduction of the building to a one-story structure with frame and stucco side walls, and the addition of four classrooms, arcades, etc. Plans were prepared by Architects Marsh, Smith & Powell, 516 Architects' Bldg., Los Angeles.

LOAN APPLIED FOR

LOS ANGELES, Los Angeles Co., Cal.—Los Angeles Board of Education has applied to the Public Works Administration for a loan of \$6,808,000 and a grant of \$3,560,572 to be used for repairing earthquake damage to Los Angeles city schools. The board indicated a total of \$25,000,000 would have to be spent to restore all damaged buildings.

16—BANKS, STORES AND OFFICES

To Be Done By Day's Labor.

RESIDENCE Cost, \$2500
SAN JOSE, Santa Clara Co., Cal. No. 470 Washington Street.
 One-story 4-room frame residence.
 Owner—Harry E. Wilson, 454 Washington St., San Jose.
 Architect—Not Given.
 Taking Segregated Figures.
STORE Cost, \$12,000
VALLEJO, Solano Co., Cal. Sonoma St. near Georgia St.
 One-story brick, terra cotta and cement store with steel columns and beams (five stores) tar and gravel and part hand-made tile roof.
 Owner—F. D. Jones, Vallejo.
 Architect—F. H. Solcombe, 3830 Harrison St., Berkeley.
 (6527) 1st report Sept. 2; 4th Sept. 21, 1933.

Contract Awarded.

ALTERATIONS Cost, \$—
FRESNO, Fresno Co., Cal. 915 and 917 Fulton St., Fresno.
 Remodel two stores.
 Owner—Lloyd W. Moultrie Building, Fresno.
 Contractor—J. T. Cowan, 433 Roosevelt St., Fresno.
 Lessees—Columbia Furniture Co., 843 Fulton St., and Mrs. Flora K. Poy, drys goods business.

Plans Complete.

OFFICE BLDG. Cost, \$—
YREKA, Siskiyou Co., Cal. Main and Miner Sts.
 Two-story and basement reinforced concrete office building (25x80).
 Owner—California-Oregon Power Co. (M. D. Field, secretary, Medford, Ore.; O. G. Steele is division manager at Yreka.
 Designer—Engineering Department of Owner.
 Work of tearing down old building to make way for widening highway has been started.
 (2752)

CONTRACT AWARDED

STORES Cost, \$—
CAKLAND, Alameda Co., Cal. Hopkins St.
 One-story frame and stucco store bldg. (two stores).
 Owner—Mid-Valley Corp.
 Contractor—Allen & Allen, 1239 106th Ave., Oakland.
Electric Wiring—Kerr & Clifford, 3525 East 14th St.
Plumbing—W. H. Picard, Inc., 5656 College Ave.
Painting—Charles Darlington, 2047 East 23rd St.
Roofing—Western Roofing Co., Inc., 24th and Poplar Sts.
Sheet Metal—California Furnace Co., Oakland.
Glass—East Bay Glass Co., 621 6th St.

Contract Awarded.
OFFICE BLDG. Cost, \$—
SANTA CRUZ, Santa Cruz Co., Cal.
West side Vine St., bet. Locust
and Church Sts.
One-story office building.
Owner—Dr. A. N. Nittler, Rittenhouse
Bldg., Santa Cruz, Cal.
Architect—Not Given.
Contractor—Hamilton & Church, 383
Ocean Ave., Santa Cruz, Cal.
Excavation has been started.
(2759)

Sub-Contracts Awarded.
ALTERATIONS Cost, \$13000
SAN FRANCISCO. N. Chestnut 194
E. Pierce.
One-story and mezzanine reinforced
store (3 stores), black tile and
aluminum modernistic front.
Owner—A. J. Romey & Son, 1686
Haight St., San Francisco.
Architect—S. Heiman, 605 Market St.,
San Francisco.
Contractor—J. S. Malloch, 666 Mission
St., San Francisco.
Reinforcing Steel: W. S. Wetenhall
Co., 17th and Wisconsin Sts., San
Francisco.
Concrete Work: DeLuca & Son, 1745
1745 Filbert St., San Francisco.
Other sub-contracts will be awarded
shortly.
(2725) 1st report Sept. 23, 1933.

Ready for Figures Soon.
STORES Cost, \$—
SAN FRANCISCO. 626 Market St.
Interior finish for stores.
Owner—Crocker Estate, 525 Crocker
Bldg., San Francisco.
Architect—Kent & Haas, Underwood
Bldg., San Francisco.
Lessee—A. G. Spaulding & Bro.
Bids will be called for shortly for
interior fixtures. Work for the store
front alterations is being done by day
work and sub-contracts.
(2726) 1st report Sept. 23, 1933.

Contract Awarded.
ALTERATIONS Cost, \$3000
SAN JOSE, Santa Clara Co., Cal. No.
45 W. St. James Street.
Alter store and office building.
Owner—First National Bank, First &
Santa Clara Sts., San Jose.
Architect—Not Given.
Contractor—Earl W. Heple, 494 Del-
mas Ave., San Jose.

Sub-Contracts Awarded.
STORES AND LOFTS
Cont. Price, \$16,990
SAN JOSE, Santa Clara Co., Cal. Mar-
ket and San Fernando Sts.
Two-story steel frame and concrete
store and loft building (60x75 ft.)
Owner—Robert F. Benson, 89 S-Mar-
ket St., San Jose.
Architect—Binder & Curtis, 35 W-San
Carlos St., San Jose.
Contractor—Chas. A. Thomas, 127
Clayton St., San Jose.
Masonry—Harry F. Rediker, Meridian
Road, San Jose.
Plumbing—Frank Corpstein, 281 N-
17th St., San Jose.
Wiring—Garden City Electric Co., San
Fernando St., San Jose.
Millwork—S. H. Chase Lumber Co.,
San Jose.
Structural Steel—McClintie-Marshall,
Alameda.
Reinforcing Steel—A. A. Fontaine,
1148 Magnolia St., San Jose.
Ornamental Iron—Helwig Iron Wks.,
Vine St., San Jose.
Roofing—California Roofing Co., 72 N-
Fourth St., San Jose.
Sheet Metal—California Sheet Metal
Works, 357 W. San Carlos St., San
Jose.
Painting—J. Boes, 470 Park St., San
Jose.
Plastering—I. Bridges, Palo Alto.
Tile and Terrazzo—Thos. H. Price,
Vine St., San Jose.
Glass—Sylvain Le Delt, 762 Lenzen

Ave., San Jose.
Steel Sash—Harold Helwig, W. Santa
Clara St., San Jose.
Lumber—McElroy Chelm, The Ala-
meda, San Jose.
The old building is being torn
down.
(2521) 1st report Aug. 24; 3rd Sept.
7, 1933.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$4000
SAN FRANCISCO. No. 626 Market
Street.
Alterations to store (new store fronts,
etc.); marble work, sash and glass,
electrical work, painting, etc.
Owner—Crocker Estate, 525 Crocker
Bldg., San Francisco.
Architect—Kent & Haas, Underwood
Bldg., San Francisco.
Following sub-contracts have been
awarded by Mr. F. Reutter, Crocker
Bldg., for the owner. Work is well
under way.
Wrecking, Hollow Tile and Miscellane-
ous Work: Dinwiddie Construc-
tion Co., Crocker Bldg., San Fran-
cisco.
Plastering: Herman Bosch, 2075 Fol-
som St., San Francisco.
Electric Work: Chas. Langlais, 472
Tehama St., San Francisco.
1st report Sept. 23, 1933.

Contract Awarded.
ALTERATIONS Cost, \$—
SAN FRANCISCO. Polk and Vallejo
Streets.
Alter market building.
Owner—A. J. Romey & Son, 1686
Haight St., San Francisco.
Contractor—J. S. Malloch, 666 Mission
St., San Francisco.

17— THEATRES

Planned.
THEATRE Cost, \$—
REDDING Shasta Co., Cal. Market
Street, bet. Placer and Sacra-
mento Sts.
Reinforced concrete theatre, store and
office building.
Owner—T. & D. Jr. Enterprises, Inc.,
25 Taylor St., San Francisco.
Architect—Not Selected.
The property has just been purchas-
ed and is 100x140 feet. Construction
will not start until March, 1934.
(2755)

18— WHARVES & DOCKS

BIDS WANTED
LOS ANGELES.—Until October 10,
at 2 p. m., bids will be received by
Superintendent of Lighthouses, Room
424 Customhouse, San Francisco, under
Proposal No. 690 to construct
lighthouse depot wharf at the U. S.
Lighthouse Reservation, Los Angeles
Harbor.

Specifications obtainable from H. W.
Rhodes, Superintendent of Light-
houses, above address.
(2757)

Revised Plans Submitted.
HARBOR AND POOL Cost, \$50,000
MARTINEZ, Contra Costa Co., Cal.
Yacht harbor (400 foot extension to
present pier, etc.)
Owner—City of Martinez.
Architect—E. Geoffrey Bangs, 411 30th
St., Oakland.

The harbor proper will be provided
for by construction of two narrow
landing piers on the easterly side of
the extended pier, creating a harbor
nearly in the form of a "C."
There would be a breakwater pier
of seven-inch creosoted sheet piling
enclosing the harbor on the north and
west sides.
A system of floats connected to

landing piers is designed to provide
berthing spaces 1700 feet in length,
for accommodation of 65 boats of
average size.
(2169) 1st report July 18, 1933.

BIDS OPENED

SAN LUIS OBISPO COUNTY, Cal.
—Duncanson-Harrelson Co., deYoung
Bldg., San Francisco, at \$7876 (Pro-
posal (A) and \$6810 (Proposal B) sub-
mitted lowest qualified bid to H. W.
Rhodes, Superintendent of Light-
houses, San Francisco, under Specifi-
cation No. 620 to construct landing
dock, San Luis Obispo Light Station,
San Luis Obispo Bay, Calif.

The work involves: (1) Removing
portion of old wharf from outer end,
a distance of approximately 59 feet.
Lumber removed from old dock to be
salvaged as far as found serviceable;
(2) constructing new landing dock in
accordance with specifications. Alternate
bids are to be received as follows:

(A) Furnishing all labor, plant,
equipment, materials and supplies
necessary to complete the work.

(B) Alternate quotation same as
above, except Lighthouse Service to
transport at its own expense all ma-
terials, including portable knockdown
piledriver to site of work either from
San Francisco or San Pedro and upon
completion of work to return all
contractor's equipment to point from
which received.

Complete bids follow:

(A) O'Neil & Legge, San Francisco *
(B) Duncanson-Harrelson Co., S. F.
(C) Ben C. Gerwick, Inc., S. F.
(D) Healy-Tibbitts Constrfl Co., S. F.

	(A)	(B)
(A).....	\$7170	\$6572
(B).....	7876	6810
(C).....	9117	8217
(D).....	9336	7992

*Low bidder failed to qualify for 45-
day time limit on completion of work.

Sub-Contracts Awarded.
RECREATION PIER Cost, \$10,996
SAN FRANCISCO. Foot of Van Ness
Ness Ave. Aquatic Park.
Constructing concrete parapet walls,
concrete curbs and concrete seats
on recreation pier.
Owner—San Francisco Park Commis-
sioners.
Architect—Not Given.
Contractor—Meyer Bros., 727 Portola
Drive, San Francisco.

Reinforcing Steel—Pacific Coast Steel
Corp., 20th and Illinois Sts., San
Francisco.

Concrete Work—Golden Gate Atlas
Materials Co., 16th and Harrison
Sts., San Francisco.

1st report Sept. 14; 2nd Sept. 25,
1933.

19—MISC. CONSTRUCTION

INFORMAL BIDS WANTED

SAN FRANCISCO, Cal.—Until Oc-
tober 11, 1933, between 1:30 and 1:45
p. m., bids will be received by the
Department of Public Works for con-
structing a stairway six feet wide on
the east side of Taylor St., between
Pine and California Sts. Estimated
cost \$850.

BIDS WANTED

FORT WINFIELD SCOTT, Cal.—
Until October 10, 11 A. M., bids will
be received by Constructing Quarter-
master, Fort Mason, Calif., for ex-
tending sewer, water main, roads
and walks, and electric pole line at
Fort Winfield Scott, Calif. Plans and
specifications furnished by above of-
fice upon deposit of certified check,
\$. Further information obtainable
from above.

Completing Working Drawings.
MAUSOLEUM Cost, \$500,000
 1st Unit, \$175,000
LAWDALE, San Mateo Co., Cal.
 Hills of Eternity Cemetery.
 Reinforced concrete and steel mausoleum (marble and bronze interior) ornamental gates, steel sash, art glass, etc., to contain crypts, niches and family rooms, chapel, etc.
 Owner—Congregation Sherith Israel. (t. Shemanski, of the Eastern Outfitting Co., is the chairman).
 Architect—Hyman & Appleton, 68 Post St., San Francisco.
 (2668) 1st report Sept. 12, 1933.

BIDS WANTED

AMERICAN LAKE, Wash.—Until October 25, at 2:30 p. m., bids will be received by Supervising Superintendent of Construction L. H. Tripp, Veterans' Administration, Fort Miley, San Francisco, for furnishing all labor and materials to install a pneumatic suction type, steam jet ash conveyor system at Veterans' Administration Facility, American Lake, Washington.
 Plans and specifications obtainable from above on application without deposit.

Prospective Bidders.
CROSS Cost, \$21,000
SAN FRANCISCO. Mt. Davidson.
 Reinforced concrete cross, 100 feet high (500 cu. yds. concrete).
 Owner—Golden Gate Park Commission (For Sunrile Easter Service Committee).
 Architect—George W. Kelham, 315 Montgomery St., San Francisco.
 Engineer—H. J. Brunner, Sharon Bldg., San Francisco.
 Plans may be obtained from the architect's office on deposit of \$25. (certified check).

Following is a list of firms figuring the job:
 Barrett & Hilp, 918 Harrison St.
 Val Franz & Sons, 180 Jessie St.
 Webster Jeffers.
 Webster & Jeffers.
 H. L. Peterson Co., 731 Treat Ave.
 C. W. and H. H. Haun, 580 Market Commercial Constr. Co., Call Bldg.
 San Francisco Constr. Co., 3159 Fillmore St.
 S. Rasori, Call Bldg.
 MacDonald & Kahn, 405 Montgomery St.
 Monson Bros., 475 6th St.
 Young & Horstmeyer, 461 Market.
 De Luca & Son, 1745 Filbert St.
 Fred J. Early, 369 Pine St.
 M. E. Vukicevich, 666 Mission St.
 2526) 1st report Aug. 25; 3rd Sept. 22, 1933.

Planned.
RACE TRACK AND BLDGS. \$—
BERESFORD, San Mateo Co., Cal.
 Curtis Wright Airport Site.
 Concrete grandstand to seat 7500, clubhouse, stables, two tracks, outer and inner, for trotting races (to be known as "Bay Meadows")
 Owner—California Jockey Club, Peter B. Kyne, President. (Wm. P. Kyne 1945 Broadway, San Francisco), will be in charge of races.
 Architect—Not Given.
 Arnold C. Lachenbach, attorney, has filed an application with the California Horse Racing Board for a license.
 Further information will be given later.
 (2751)

CONTRACT AWARDED

LOS ANGELES, Cal.—California Pipe & Supply Co. was awarded the contract by Saul A. Joseph, Purchasing Agent of the Metropolitan Water District, September 28 at \$987.84 for furnishing water heater boilers under bid No. 15150. The bids were: Crane Co., \$894.35; California Pipe & Supply

Co., \$987.84; Pittsburg Water Heater Sales Co., \$1029.65; Pacific Gas Radiator Co., \$1070.16; Griffith Pipe & Supply Co., Inc., \$1140.00; Carl A. Boyce, \$1152.00; L. J. Mueller Furnace Co. (by English & Lauer, Inc., Itap.), \$1176.00; H. R. Basford Co. (agents for Ruud Heater Co.), \$1340.93.

PREPARING PLANS

BURBANK, Los Angeles Co., Cal.—Warner Brothers-First National Studios, Burbank, are having plans prepared by their technical division for four new stages to be erected in Burbank. The stages will be built in two double units, each unit to be 304x130 feet in area. They will be steel frame structures with steel trusses, rock wool insulation, steel sliding doors, gas-steam heat, etc. Estimated cost \$300,000. An additional \$100,000 will be spent for sound and other electrical equipment. It has not been determined when construction will be started.

CONTRACT AWARDED

EARP, San Bernardino Co., Cal.—Pacific System Homes, 5800 So. Boyle Ave., Los Angeles, have been awarded contract by the Metropolitan Water District of Southern California, at \$30,879.15, for constructing twelve frame buildings at Division 1 Headquarters, San Bernardino County, about fifteen miles northeast of Earp. The work will consist of erecting one office building, one mess hall, one 12-car garage and repair shop, one warehouse, one 5-room cottage, three 4-room cottages, two 2-car garages, one 20-man dormitory, and one guest lodge, together with appurtenant sewers, sewage disposal plant, water supply system, gas distribution system and grading.

BIDS OPENED

SAN FRANCISCO—O. Monson, 475 6th St., San Francisco, at \$1986 submitted low bid to S. J. Hester, Deputy Director, Room 251, City Hall, to construct retaining wall east side Iron Alley, between Corbett Ave. and Graystone Terrace.
 Complete bids follow:
 O. Monson, San Francisco.....\$1986
 M. E. Vukicevich 2104
 S. F. Constr. Co., Inc..... 2141
 T. J. Doyle 2177
 De Luca & Son, Inc..... 2264
 MacDonald & Kahn..... 2332
 M. J. Lynch 2450
 H. L. Petersen 2535
 Anderson & Ringrose..... 2541
 C. C. W. Haun..... 2632
 D. C. McKay..... 2779
 Love & Haun..... 2870
 Karl - Frank Co..... 3100
 E. J. Treacy 3189
 C. L. Hailey 3250
 S. Rasori 3367
 M. Bertolino 3795

TAKING SEGREGATED BIDS

INGLEWOOD, Los Angeles Co., Cal.—Architects Krepnel & Erkes, 1206 Rives-Strong Bldg., Los Angeles, have prepared plans and are taking segregated bids for two additional mausoleum units to be erected on Redondo Blvd., Inglewood, for the Inglewood Park Cemetery Assn. Each unit will cover an area of 55x60 feet and a total of 800 additional crypts will be provided. They will be reinforced concrete structures with marble interiors, ventilating system, bronze doors and frames, art glass ceilings, etc. Construction was started this week.

BIDS WANTED

FORT MASON, Cal.—Until Oct. 10, 10 A. M., bids will be received by Constructing Quartermaster, Fort Mason, for extending sewer, water main, roads and walks and underground electric system at Fort Mason, Cal. Plans and specifications obtainable

upon deposit of certified check, \$10, from the above office. Further information also available at the above office.

BIDS WANTED

YERBA BUENA ISLAND, Cal.—Until October 9, 2 P. M., bids will be received by H. W. Rhodes, Superintendent of Lighthouses, Room 424, Custom House, San Francisco, for erection of power line and other electrical work at the Yerba Buena Light Station, Yerba Buena Island, San Francisco Bay, Calif., under Proposal No. 651.

Specifications and bidding data will be furnished on application to Superintendent of Lighthouses.

20—MISC. SUPPLIES AND MATERIALS

BIDS WANTED

BREMERTON, Wash.—Bids will be received on the dates listed below for the following:

October 10, 10 a. m., Requisition No. NSA-8/3471. 550 tubes, condenser, type A, 5/8-in. in C. D. by .049-in. thick by 4 ft. 4-in. long.
 October 7, 10 a. m., Requisition No. NSA-8/3465. 1 chisel, mortising, self-cleaning, 5/16-in.; 1 chisel, mortising, self-cleaning, 3/8-in.; 1 chisel, mortising, self-cleaning, 1/2-in.; 1 milling machine cutter; 1 milling machine concave cutter.
 Further information obtainable from the Supply Officer, Puget Sound Navy Yard, Bremerton, Wash.

BIDS REJECTED

DENVER, Colo.—All bids received under Specification 597-D for furnishing 5000 gals. primer and 450 tons enamel have been rejected by U. S. Reclamation Service. Pipe is to be treated with water gas and coal tar gas by Babcock-Wilcox Co., general contractors. Bids opened August 3.

BIDS WANTED

OAKLAND, Cal.—Until October 11, 9 p. m., informal bids will be received by John H. Kimball, secretary, East Bay Municipal Utility District, 512 16th St., Oakland, to furnish 50 tons of pig lead, Proposal No. 499.

BIDS OPENED

SAN FRANCISCO, Cal.—Following bids received by G. M. Betterton, Purchasing Agent, Southern Pacific Co., 65 Market St., for two years' requirements of large mazda incandescent electric lamps and miniature mazda incandescent electric lamps, which will approximate a minimum of \$100,000 per year and a maximum of \$150,000 per year.

General Electric Supply Co., Bryant and 10th Sts., San Francisco.
 Western Mazda Lamp Co.

Graybar Electric Co., 9th and Howard Sts., San Francisco.
 General Electric Co., Russ Bldg., San Francisco.

All bidders submitted identical bids at \$37 for standard packages, \$27 for broken package and \$52 for miniature lamps.

All bids held under advisement.
 1st report Sept. 23, 1933.

BIDS WANTED

HUMBOLDT COUNTY, Cal.—Until Oct. 10, 2 p. m., bids will be received by Fred M. Kay, Clerk of the Board of Supervisors, Court House, Eureka, for furnishing 1500 or more cubic yards of gravel for the Samoa Rolph Road in Road Dist. No. 4. Specifications obtainable from the County Surveyor of Humboldt County, Frank E. Kelly, Eureka.

BIDS OPENED

OAKLAND, Cal.—Stauffer Chemical Co., 624 California St., San Francisco, at \$33,000, submitted low bid to John H. Kimball, Secretary, East Bay Municipal Utility District, 512 16th St., Oakland, to furnish 1200 tons aluminum sulphate. Only other bidder was General Chemical Company, 343 Sansome St., San Francisco, at \$33,600.

BIDS WANTED

ALAMEDA COUNTY, Cal.—Until October 10, at 10 a. m., bids will be received by Quartermaster, Sacramento District, C. C. C., Sixteenth and North B Sts., Sacramento, under Specification C. C. C. 5911-36 (Strawberry Canyon) and 5911-34-37 (Upper San Leandro) for furnishing materials to be used in erecting buildings at Camp SP-10, Strawberry Canyon, and Camp SP-6, Reservoir, Upper San Leandro, Alameda County.

Materials to be purchased include lumber, nails, hardware, screening, doors, sash and millwork, building paper, roofing felt, floor covering, plumbing, water heating, sheet metal and electrical.

Specifications obtainable from above, Capt. J. F. Greene, Quartermaster, and on file at office of DAILY PACIFIC BUILDER.

BIDS WANTED

CONTRA COSTA & PLACER COS., Cal.—Until October 9, at 10 a. m., bids will be received by Quartermaster, Sacramento District C. C. C., Sixteenth and North B Sts., Sacramento, under Specification C. C. C. 5911-34-34 (Placer County) and 5911-34-35 (Contra Costa County) for furnishing materials to be used in erecting buildings at San Pablo Dam, Contra Costa County, C. C. C. Camp SP-7, and Wiemar, Placer County, C. C. C. Camp P-257.

Materials to be purchased include lumber, nails, hardware, screening, doors, sash and millwork, building paper, roofing felt, floor covering, plumbing, water heating, sheet metal and electrical.

Specifications obtainable from above, Capt. J. F. Greene, quartermaster, and on file at office of DAILY PACIFIC BUILDER.

BIDS WANTED

BREMERTON, Wash.—Bids will be received by the Supply Officer, Puget Sound Navy Yard, Bremerton, as follows:

Oct. 12, 10 a. m. Hose—Requisition No. 124 NSA. 500 ft. pneumatic tool hose, inside dia. 1 1/4-in., length 50 ft.; 3000 ft. hose, water, garden, inside dia. 3/4-in., 3-ply, in 50 ft. lengths.

AWARD

SAN FRANCISCO.—A American Brake Shoe & Foundry Co., Rincon Foundry, M. Greenberg's Sons, all of San Francisco, awarded contract by T. A. Brooks, City Purchasing Agent, for furnishing castings under Bid No. 1027.

BIDS OPENED

SAN LEANDRO, Alameda Co., Cal.—Following bids received by Quartermaster, Sacramento District C. C. C., Sixteenth and North B Sts., Sacramento, under invitation 5911-34-17 for furnishing materials to erect buildings at C. C. C. Camp Lake Chabot, near San Leandro, Alameda county:

- (1) Lumber;
- (2) Nails, hardware, screening, etc.
- (3) Doors, sash and millwork;
- (4a) 39 rolls building paper;
- (4b) 210 rolls wall felt;
- (4c) 286 rolls roofing felt;
- (4d) 1563 sq. yds. floor covering;
- (5) Plumbing, water heating, sheet metal;
- (6) Electrical materials.

Diamond Match Co. (1) \$4108.51, (2) \$479.79, (3) \$608.22, (4a) \$40.56, (4b) \$161.18, (4c) \$439.63, (4d) \$443.89, (5) \$153, (6) \$111.95.
Smith Lumber Co. (1) \$3575.
Oak Park Lumber Co. (3) \$661.69.
T. P. Hogan Co. (1) \$3824, (3) \$550.
E. K. Wood Lumber Co. (1) \$3666.50.
C. H. Carter Co. (6) \$113.
Sunset Lumber Co. (1) \$4408.41, (3) \$602.75.

I. M. Sommer Co. (2) \$426.25.
Loop Lumber and Mill Co. (1) \$4283, (3) \$717.
General Supply Co. (2) \$489.90, (3) \$704.81, (4a) \$40.78, (4b) \$165.40, (4c) \$349.06, (4d) \$472.90, (6) \$97.52.
Dallman Supply Co. (4a) \$40.71, (4b) \$159.86, (4c) \$339.98, (4d) \$465.96, (5) \$139.07.
Cowell Lime and Cement Co. (4a) \$40, (4b) \$158, (4c) \$338, (4d) \$460.
Crane Co. (5) \$138.02.
Zellerbach Paper Co. (4b) \$154.35, (4c) \$330.33, (4d) \$437.64.

BIDS WANTED

Bids are wanted until dates indicated by the Bureau of Supplies and Accounts, Navy Department, Washington, D. C., for miscellaneous supplies for navy yards and stations:

182—For eastern and western yards, corrosion-resisting steel valves; sch. 769, bids Oct. 10.

183—For Puget Sound, 1 motor truck chassis; sch. 771, bids Oct. 13.

187—For eastern and western yards, 6 1-ton capacity refrigerating plants and spares; sch. 776, bids Oct. 13.

188—For Mare Island, 972 C clamps; sch. 777, bids Oct. 10.

189—For Mare Island, 1120 hand drills; sch. 778, bids Oct. 10.

190—For Mare Island, 2004 engineers' wrenches and 804 screw wrenches; sch. 779, bids Oct. 10.

231—For Puget Sound, 16 motor-driven horizontal boring, drilling and milling machines and spares; sch. 788, bids Oct. 17.

235—For San Diego, 500,000 lbs. cotton wiping cloth; Mare Island, 200,000 lbs. do.; Puget Sound, 170,000 lbs. do.; east or west yards, 200,000 lbs. do.; sch. 780, bids Oct. 10.

236—For east and west yards, 10 electro-hydraulic steering gears, 10 electro-hydraulic windlasses and spares and 10 electro-hydraulic steering gears and 10 electro-hydraulic windlasses and spares; sch. 770, bids Oct. 13.

313—For San Diego, 24,000 pts. liquid metal polish; sch. 792, bids Oct. 24.

315—For San Diego, 24,000 lbs. caustic's soda; sch. 795; bids Oct. 24.

316—For Puget Sound, electric portable arc welding sets; sch. 796, bids Oct. 13.

455—For San Diego, 1 motor-driven bench precision lathe; Mare Island, 1 do.; sch. 811, bids Oct. 13.

456—For Mare Island, 45,000 lbs. galvanized medium flat bar steel; Puget Sound, 45,000 lbs. do; Mare Island, 43,000 lbs. do; Puget Sound, 42,000 lbs. do; sch. 808-R, bids Oct. 6.

BIDS WANTED

SACRAMENTO, Cal.—Until October 9, 3 p. m., bids will be received by U. S. Engineer's Office, California Fruit Bldg., Sacramento, for:

- (1) 25 c.f. cylinders oxygen, in cylinders 220 c.f. each;
- (2) 12 c.f. cylinders acetylene No. 5 cylinders, each containing approximately 200 c.f.

Order No. 5764/R.V. Further information available from above office.

CONTRACTS AWARDED

HUMBOLDT COUNTY, Cal.—Following contracts awarded by Capt. Joe S. Underwood, district quartermaster, Eureka, for building materials to be used in erecting C.C.C. Camp at Prairie Creek.

Hammond, Little River Lumber Co., Samoa, lumber \$5032.61; A. Brizard, Arcata, hardware, \$337.26, building paper, roofing felt and floor covering, \$1018; plumbing, sheet metal, \$394.43, electrical, \$63.47; George C. Jacobs, Eureka, millwork, \$560; Eureka Boiler Works, Eureka, heating stoves, \$466, water system, \$757.80.

CONTRACTS AWARDED

MENDOCINO COUNTY—Following contracts awarded by Capt. Joe S. Underwood, district quartermaster, Eureka, for building materials to be used in erecting C.C.C. Camp at Willits:

Willits Lumber Co., Willits, lumber, \$4432.36; Johnson Hardware Co., Willits, hardware, \$292.06; Humboldt Milling Co., Eureka, millwork, \$471.50; A. Brizard, Arcata, building paper, roofing felt and floor covering, \$931.18; plumbing and sheet metal, \$120.23; electrical, \$72.17.

CONTRACTS AWARDED

SANTA CRUZ COUNTY, Cal.—Following contracts awarded by Capt. John T. Sallee, district quartermaster, Presidio of Monterey, for building materials to be used in erecting C.C.C. Camp at Redwood Park:

Santa Cruz Lumber Co., Santa Cruz, lumber, \$4651.26; San Jose Hardware Co., San Jose, hardware, \$419.19; building paper, roofing paper and floor covering, \$972.69; Pacific Manufacturing Co., Santa Clara, doors, sash and millwork, \$716; Vosmer Sheet Metal Works, Monterey, plumbing, water heating and sheet metal, \$1901.57; Earl P. Lyon, Ben Lomond, electrical, \$95.07.

CONTRACTS AWARDED

SANTA CLARA COUNTY, Cal.—Following contracts awarded by Capt. John T. Sallee, district quartermaster, Presidio of Monterey for building materials to be used in erecting C. C. C. Camp at Mt. Madonna, 14 miles south of San Jose:

Gilroy Hardware Co., Gilroy, lumber, \$3404.59, plumbing and sheet metal, \$231.90; San Jose Hardware Co., hardware, \$337.06; building paper roofing paper and floor covering, \$958.60; Pacific Mfg. Co., Santa Clara, doors, sash and millwork, \$537; Earl Lyon, Ben Lomond, electrical materials, \$93.41.

CONTRACTS AWARDED

MONTEREY COUNTY, Cal.—Following contracts awarded by Capt. John T. Sallee, district quartermaster, Presidio of Monterey, for building materials to be used in erecting C.C.C. Camp at Nacimiento, 40 miles from King City:

Tynan Lumber Co., Monterey, lumber, \$5562; San Jose Hardware Co., San Jose, hardware, \$458.28; Tynan Lumber Co., Monterey, doors, sash and millwork, \$838; building paper, roofing felt and floor covering, \$988; Oakland Sheet Metal Supply Co., Oakland, plumbing and sheet metal, \$760; Wescott Plumbing & Electric Co., Soledad, electrical materials, \$96.89.

SAN BENITO COUNTY, Cal.—Following contracts awarded by Capt. J. T. Sallee, district quartermaster, Presidio of Monterey, for building materials to be used in erecting C.C.C. Camp in Pinnacles National Park, 40 miles from Hollister:

Lathrop Hay & Grain Co., Hollister, lumber, \$4575; San Jose Hardware Co., San Jose, hardware, \$458.28; Lathrop Hay & Grain Co., Hollister, doors, sash and millwork, \$920.70; San Jose Hardware Co., building paper, \$39.90; wall felt, \$159.60; roofing felt, \$321.75; Homer T. Hayward Lumber Co., Hollister, floor covering, \$366.76; Gilroy Hardware Co., Gilroy, plumbing and sheet metal, \$705.32; Wescott Plumbing & Electric Co., Soledad, electrical materials, \$96.89.

ENGINEERING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

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|-------------------------------------|-------------------------------------|
| 21.—Bridges | 30.—Reservoirs and Dams |
| 22.—Dredging, Harbor Works, Excava. | 31.—Pipe Lines and Wells |
| 23.—Irrigation Proj. | 32.—Sewers & Sewage Disposal Plants |
| 24.—St. Light. Systems | 33.—Water Works |
| 25.—Machinery and Equipment | 34.—Parks & Playgrounds |
| 26.—Railroads | 35.—Tunnels |
| 27.—Fire Alarm Sys. | |
| 28.—Fire Equipment | |
| 29.—Streets & Highways | |

21— BRIDGES

BIDS WANTED

WASHINGTON STATE.—Bids will be received until Oct. 17, 10 a. m., by L. V. Murrow, State Director of Highways, Olympia (previously advertised Oct. 10), for construction of bridges as follows:

(1) Constructing a reinforced concrete girder bridge, 211 feet long, over the Northern Pacific Railway Company tracks on State Road No. 5, between Puyallup and Tacoma, at east city limits of Tacoma, National Recovery Highway Project No. NRH 185-B and National Recovery Municipal Highway Project No. NRM 185-B in Pierce County.

(2) Constructing a 540-foot treated timber trestle overcrossing with concrete deck over the Northern Pacific and Oregon-Washington Railroad & Navigation Company tracks on State Road No. 3 at Attalia, Unit 2 of National Recovery Highway Project No. NRH 194-C in Walla Walla County, involving about 166 M.B.M. timber and plank, 472 cu. yds. of concrete, 62,000 lbs. of steel reinforcing bars, 70,000 lbs. of structural steel and other items.

(3)—Constructing a 31-foot extension to the existing slab bridge over Mill Creek at State Road No. 3 and excavating channel change for same, National Recovery Highway Project No. 154-C in Stevens County, involving about three acres of clearing, 10,070 cu. yds. of excavation, 92 cu. yds. of concrete, 6100 lbs. of steel reinforcing bars and other items.

CONTRACT AWARDED

ARIZONA STATE—Lee-Moore Contracting Co., El Paso, Texas, at \$98,631.91, awarded contract by the State Highway Engineer, T. S. O'Connell, Phoenix, Ariz., for bridge construction on the Globe-Showlow Highway, E-99-E. The work, which is located at the crossing of Salt River, 43 miles northeast of Globe, consists of the construction of a steel arch bridge with approach spans and the grading and draining of a half-mile of adjacent roadway, and is to be completed before Feb. 15, 1934.

BIDS WANTED

HUMBOLDT COUNTY, Cal.—Until Oct. 10, 2 p. m., as previously reported, bids will be received by Board of Supervisors, Eureka, Fred M. Kay, Clerk, for constructing a reinforced concrete culvert near Arlynda. 40 wood piles in foundation 8'x10'x40'; reinforced culvert without floor. State Highway standard lump sum bid. Specifications obtainable from the County Surveyor of Humboldt County, Frank E. Kelly, Eureka.

AWARD

SACRAMENTO COUNTY, Cal.—Lord & Bishop, Native Sons Bldg., Sacramento, at \$86,871.70 awarded contract by State Highway Commission to construct an underground crossing under the tracks of the Southern Pacific railroad between the Cosmunes River Bridge and 0.25-mi. north of McConnell, consisting of two concrete abutments with wing walls, and grade and pave 0.37 mi. with Portland cement concrete.

AWARD

SAN BERNARDINO COUNTY, Cal.—J. F. Knapp, 1401 Park Ave., Oakland, at \$189,985.50 awarded contract by State Highway Commission, Sacramento, to construct an overhead crossing over the tracks of the A. T. & S. F. Ry., in the city of San Bernardino, consisting of steel and concrete viaduct 1016 ft. long and roadway approaches to be graded and paved with Portland cement concrete.

BIDS WANTED

HUMBOLDT COUNTY, Cal.—As previously reported, until October 10, 2 p. m., bids will be received by Board of Supervisors, Humboldt County, Fred M. Kay, clerk, for constructing new bridge and fills at Ryan's Slough, involving:

- (1) 20 concrete piles;
 - (2) 16 concrete columns;
 - (3) 8 bent redwood floor;
 - (4) 2000 yds. fill;
 - (5) 6-in. gravel surface, lump sum bid.
- Specifications obtainable from above office.

CONTRACT AWARDED

THEAMA COUNTY, Cal.—J. E. Fitzsimmons, R.F.D. 1, Box 80, Lodi, at \$2920 for Proposal No. 1, and \$2355 for Proposal No. 2, awarded contract by Tehama County Board of Supervisors to move two bridges from Stockton and erect them in Tehama County. Work involves:

- (1) Move steel span 100 feet in length from Stockton and erect same over Dry Creek on Shasta Blvd., about 5 miles north of the town of Los Molinos and construct wooden bent trestle approach, concrete abutments and concrete pier.
- (2) Move a steel span 72 ft. 8 in. in length from Stockton and erect same together with concrete abutments over creek on Woodson Ave., about 2 miles south of Corning.

Complete bids follow:

(A) J. E. Fitzsimmons, Lodi.	(1)	(2)
(B) Henry A. Martin, Corning.	\$2920	\$2355
(C) Harry Porter, Gerber.	4424	2475
(D) J. P. Brennan, Redding.	4980	3193
	6400	4800

CAPITAL CITY TITLE COMPANY

J. C. PALEN,
Manager

914 Seventh Street
Sacramento :: California

CONTRACT AWARDED

COCONINO COUNTY, Ariz.—Vinson & Pringle, Phoenix, at \$44,938 awarded contract by U. S. Bureau of Public Roads to construct the Dead Indian Canyon Bridge on Section C, Cameron-Desert View approach to Grand Canyon National Park.

BIDS WANTED

SANTA CLARA COUNTY, Cal.—Until October 16, at 11 A. M., bids will be received by Santa Clara County Board of Supervisors for the construction of two reinforced concrete culverts in Laguna avenue. Specifications obtainable from the office of Henry A. Pfister, Clerk of the Board, upon deposit of \$1.

BIDS WANTED

LAKE COUNTY, Cal.—Until October 10, at 10 a. m., bids will be received by the Lake County Board of Supervisors at the Courthouse, Lakeport, for construction of a bridge at Detert Lake in Supervisorial District No. 1. Estimated cost \$1500.

Specifications on file at county clerk's office, Fred H. Merritt, county clerk.

BIDS WANTED

SACRAMENTO, Cal.—Until October 23, bids will be received by Sacramento County Board of Supervisors, to construct 78-foot timber bridge and two concrete abutments at Walsh Station. Estimated cost, \$4000. Specifications obtainable from County Clerk, Harry W. Hall, Room 201, Court House, Sacramento.

BIDS WANTED

- IMPERIAL COUNTY, Cal.—Until October 25, 2 P. M., bids will be received by California State Highway Commission to construct timber bridges and to grade and pave approaches with asphalt concrete in Imperial County, between Kane Spring and Gravel Wash. The work involves:
- (1) 6500 cu. yds. rdwy. excav. pnclass;
 - (2) 9300 cu. yds. ditch and channel excav.;
 - (3) 4400 cu. yds. struc. excav.;
 - (4) 50 M. gals. water;
 - (5) 2300 sq. yds. subgrade for pavement;
 - (6) 4000 sq. yds. asph. paint binder;
 - (7) 2030 tons asph. concrete;
 - (8) 2200 tons cru. gravel-stone surf. detours;
 - (9) 650 bbls. fuel oil detours;
 - (10) 210 cu. yds. remove and dispose of concrete from exist. pave and structures;
 - (11) 80 lin. ft. 24-in. C.M.P.;
 - (12) 60 lin. ft. 36-in. C.M.P.;
 - (13) 16,220 lin. ft. furnish treated piles
 - (14) 368 each driving piles;
 - (15) 272 MFBM redwood timber dense select all-heart struc. grade;
 - (16) 149 MFBM redwood timber dense do;
 - (17) 27,700 lbs. struc. metal;
 - (18) 2 each move and reset exist. bridges;
 - (19) 1 only remove and dispose of exist. bridge;
 - (20) 34 sta. yds. finishing rdwy.;
 - (21) 20 each mounments complete in place.

CONTRACT AWARDED

OREGON STATE—Enquist Constr. Co., Groutdale, Oregon, awarded contract by State Highway Commission, Multnomah Hotel, Portland, to construct bridge over Necanicum River on Wolf Creek Highway at \$4846 in Clatsop County.

22—DREDGING, HARBOR WORKS, EXCAVATION

BIDS OPENED

SEATTLE, Wash.—J. M. Clapp, Seattle, at \$47,935 submitted low bid to U. S. District Engineer, Federal Bldg., Seattle, to extend bulkheads and training walls at the Puyallup waterway a distance of 700 feet.

Complete bids follow:

- J. M. Clapp, Seattle, \$47,935.
Manson Construction and Engineering Co., Seattle, \$48,340.
Anderson & Johnson, Tacoma, \$49,870.
Lawlor-Woodward Co., Seattle, \$53,186.
Tacoma Dredging Company, Tacoma, \$60,584.
General Construction Co., Seattle, \$61,105.
Henry Hagman, Seattle, \$64,780.
Engineer's estimate, \$61,968.

PLANNED

REDWOOD CITY, San Mateo Co., Cal.—San Mateo County Harbor Commission, Commissioners S. A. Keyston, San Mateo; Henry Beeger, Redwood City and Percy Shaw, South San Francisco, will apply to Public Works Administration for Federal government grant and loan to finance construction of proposed new port facilities at Redwood City on San Francisco Bay.

Following is work contemplated and estimated cost:

1. Wharf, trestle and sub-structure shed, \$190,000.
 2. Transit shed, complete, except for floor, \$50,000.
 3. Parking area, open storage space and roadways, \$26,500.
 4. Railroad spurs, Complete with fill, \$41,500.
 5. Water supply, \$5,000.
 6. Dikes, wave protection, additional dredging at wharf, \$15,000.
 7. One-half cost of channel and turning basin, \$94,000.
 8. Engineering and incidentals, five per cent, \$21,000.
- Total estimated cost of project, \$443,000.

BIDS REJECTED

VANCOUVER, Wash.—All bids rejected and work to be done by government forces on contract for dredging Columbia River channel at Vancouver. Low bid submitted by General Construction Co., Seattle, at \$84,550.

CONTRACT AWARDED

SEATTLE, Wash.—Puget Sound Bridge and Dredging Co., Seattle, at \$49,700 awarded contract for dredging Unit 3 of Lake Washington ship canal.

CONTRACT AWARDED

PORTLAND, Ore.—Tacoma Dredging Co., Inc., 1113½ A St., Tacoma, Wash., at \$276,750 awarded contract for dredging about 5,500,000 cubic yards of material from Columbia River channel opposite Harrington Point.

CONTRACT AWARDED

MONTEREY, Cal.—Guy F. Atkinson, 658 Russ Bldg., San Francisco, at \$196,652 awarded contract by U. S. District Engineer, San Francisco, to construct 400 foot extension to Monterey breakwater.

PLANNED

REDWOOD CITY, San Mateo Co., Cal.—San Mateo County Harbor Commission, Commissioners S. A. Keyston, San Mateo; Henry Beeger, Redwood City, and Percy Shaw, South San Francisco, will apply to Public Works Administration for federal government grant and loan to finance

construction of proposed new port facilities at Redwood City on San Francisco Bay.

Following is work contemplated and estimated cost:

- (1) Wharf, trestle and substructure shed, \$190,000;
 - (2) Transit shed, comp. except for floor, \$50,000;
 - (3) Parking area, open storage space and roadways, \$26,500;
 - (4) Railroad spurs, comp. with fill, \$41,500.
 - (5) Water supply, \$5,000.
 - (6) Dykes, wave protection, additional dredging at wharf, \$15,000.
 - (7) One-half cost of channel and turning basin, \$94,000;
 - (8) Engineering and incidental 5 per cent, \$21,000.
- Total estimated cost of project, \$443,000.

BIDS WANTED

SEATTLE, Wash.—Until October 23, at 10 a. m., bids will be received by Seattle Board of Public Works, Room 511 County-City Bldg., Seattle, for construction of seawall and improvement of Railroad Ave. from Madison St. to Bay St. Work includes construction of a seawall with riprap protection, filling, paving, sewers, side sewers, water mains, hydrants, concrete sidewalks, grading. Estimated cost \$1,243,000.

Principal items are:

- (1) 245,000 cu. yds. embankment;
- (2) 3561 tons steel sheet piling;
- (3) 403,000 lin. ft. timber piling;
- (4) 2288 MFBM lumber;
- (5) 1754 tons reinforcing steel;
- (6) 15,000 cu. yds. concrete;
- (7) 40,640 sq. yds. 9-in. concrete;
- (8) 9740 lin. ft. cast iron water mains;
- (9) 6200 lin. ft. pipe sewers.

Plans and specifications obtainable from City Engineer, fourth floor County-City Bldg., Seattle. Deposit of \$25 returnable.

CONTRACT AWARDED

LOS ANGELES, Cal.—Rohl-Connolly Co., 4351 Alhambra Ave., Los Angeles, awarded contract by War Department, U. S. District Engineer, Los Angeles, at \$1,520,000 to construct 1400-foot extension to breakwater in Los Angeles Harbor, under Schedule A for composite type construction.

23—IRRIGATION PROJ.

AWARD POSTPONED

TURLOCK, Stanislaus Co.—Award of contracts for concrete lining 4.5 miles irrigation canals postponed by Turlock Irrigation District, Board of Directors, until decision is received on application for federal funds. Low bid at \$48,582.40 submitted by Ed Erickson, Route 4, Box 744, Modesto. Bids opened September 25. R. V. Meikle, chief engineer.

BIDS WANTED

DUNAWAY, Oregon—Until October 16 10 A. M., bids will be received by R. J. Newell, Construction Engineer, Bureau of Reclamation, Ontario, Oregon, for preparation of concrete aggregates at Dunaway gravel pit, Owyhee project, Oregon-Idaho, Spec. No. 601-D. The work located at Dunaway, Oregon, involves:

- (1) 59,000 cu. yds. excav., all classes, stripping gravel deposits;
- (2) 20,000 cu. yds. preparing, stock piling sand;
- (3) 19,000 cu. yds. do, gravel $\frac{1}{8}$ -in. to $\frac{3}{4}$ -in. in size;
- (4) 17,000 cu. yds. preparing, stock piling gravel $\frac{3}{4}$ -in. to $1\frac{1}{2}$ -in. in size.

No charge for specifications to prospective bona fide bidders; others, \$0.25 not returnable. For particulars, address above office.

25—MACHINERY AND EQUIPMENT

BIDS WANTED

SAN DIEGO, Cal.—Until October 10, 11 A. M., (date postponed from Sept. 28), bids will be received by the Public Works Officer, 11th Naval District, San Diego, for heating plant boilers and equipment at the Naval Operating Base (Air Station), San Diego, Specifications No. 7422. The work includes in general the furnishing and installing of the following: (a) three 250-hp. water tube boilers with settings, supports, concrete foundations, fuel oil burners, soot blowers and accessories; (b) two boiler feed pumps, one deaerating feed water heater, fuel oil pump set, two fuel oil tanks, one water storage tank, three instrument panels, water and fuel oil meters, gauges, liquid level controllers, pumping unit for emergency water supply; (c) steam exhaust, hoiler feed, drip, blow-off, fuel oil, waste, vent, cold water and drain piping, also miscellaneous electrical work; (d) blow-off and waste tank, concrete floor for the boiler room, structural platform and overhead walkways, breeching from boiler smoke flue outlets to an existing breeching, an overhead condensate receiver, insulating and protective coverings and miscellaneous work and material. The work also includes the removal and reinstalling of an existing water-softening plant. If bidding data is desired bidders should forward to the Public Works Officer, Headquarters, Eleventh Naval District, Foot of Broadway, San Diego Calif., a check or postal money order for \$10, payable to the Chief of the Bureau of Yards and Docks, as security for the safe return of the drawings and specifications. DeWitt C. Webb, Captain (CEC), U. S. N., Public Works Offices.

CONTRACT AWARDED

SAN FRANCISCO, Cal.—Chapman Valve Manufacturing Co., 508 Fourth St., San Francisco, at \$6657 awarded contract by City Purchasing Agent to furnish gate valves for Hetch Hetchy.

BONDS DEFEATED

ESCONDIDO, Cal.—The \$85,000 bond issue for the establishment of a municipal power plant was defeated at the special election September 26.

BIDS OPENED

LOS ANGELES, Cal.—Bids for furnishing one $1\frac{1}{2}$ -ton dump truck on a rental basis for a six month period under Request No. MJP 54, were received by Merle J. Pettis, acting Forest Supervisor, Sept. 27. The bids were:

- Frank Britton, \$110 per month.
Bay Cities Dump Truck Co., \$110 per month.
L. E. Martin, 115 per month.
F. Priester, \$115 per month, \$105 per month if government supplies tires.
N. P. Van Valkenberg, \$145 per month. 25

BIDS OPENED

SAN FRANCISCO.—Moore Dry Dock Company, foot of Adeline St., Oakland, at \$3167 submitted low bid to U. S. Engineer, Room 401 Custom House, San Francisco, for repairing U. S. seagoing hopper dredge "A. MacKenzie."

Complete bids follow:
Moore Dry Dock Company, Oakland, \$3167.
General Engineering and Dry Dock Company, Oakland, \$3484.
Bethlehem Shipbuilding Corp., San Francisco, \$3519.
Engineer's estimate, \$3500.

BIDS OPENED

SACRAMENTO, Cal.—Midland Tractor Co., Sacramento, at \$2562 and J. G. Adams Co., Sacramento, at \$2562 submitted identical low bids to H. G. Denton, City Clerk, to furnish one Allis Chalmers "36" track type tractor or equal. Only other bidder was Sacramento Tractor & Equipment Co., 1730 16th St., Sacramento, at \$2704.

BIDS REJECTED

LOS ANGELES, Cal.—The Water & Power Commission has authorized A. J. Holm, Los Angeles city purchasing agent, to reject all bids received Sept. 12 for furnishing automatic ammonia-tators and automatic control apparatus under Spec. No. 3211.

September 30, 1933

CONTRACT AWARDED

LOS ANGELES, Cal.—General Elec. Co., at \$14,785 awarded contract by A. J. Holm, Los Angeles City Purchasing Agent, for furnishing carrier current steel lighting control equipment under Spec. No. 3177. The bids were opened Sept. 6.

AWARD

OAKLAND, Cal.—J. E. French Co., 2345 Broadway, Oakland, at \$908.40 awarded contract by the Oakland Bd. of Education to furnish one canopy delivery truck under Schedule No. 19. Only other bidder was General Motors Co., Oakland, at \$1028.

CONTRACT AWARDED

LOS ANGELES, Cal.—The Water & Power Commission has authorized A. J. Holm, Los Angeles City Purchasing Agent, to award a contract to the Sterling Motor Truck Co. at an estimated total of \$18,358 for furnishing four trucks under Spec. No. 3207. The bids were opened Sept. 20.

AWARD

LOS ANGELES, Cal.—Pacific Elec. Mfg. Co., at \$4665 awarded contract by A. J. Holm, Los Angeles City Purchasing Agent, for furnishing Water & Power Dept. with replacement parts for rebuilding and modernizing six Pacific Electric Mfg. Corp., type R-40 oil circuit breakers under Spec. No. 3221. The bids were opened Sept. 21.

AWARD

LOS ANGELES, Cal.—Mack International Motor Truck Corp., at \$2,604.63 awarded contract by Saul A. Joseph, Purchasing Agent of the Metropolitan Water District, for furnishing motor truck chassis under Bid No. 14332.

PROSPECTIVE BIDDERS

PEARL HARBOR, T. H.—The following have obtained copies of Specifications No. 7136 for improvement of fuel system at Pearl Harbor Navy Yard. (Bids open Nov. 8).

Baldwin & Butler, 620 Cragmont St., Berkeley.

T. J. Hearty & Co., 74 New Montgomery St., San Francisco.

I. M. Sommer, 150 Jordan Ave., San Francisco.

Theo. H. Davies, Ltd., Matson Bldg., San Francisco, and Honolulu.

Herman Lawson, 465 Tehama St., San Francisco.

George Hess, Los Angeles.

C. C. Moore & Co., 450 Mission St., San Francisco.

American Factors, Ltd., Matson Bldg., San Francisco, and Honolulu.

BIDS OPENED

OAKLAND, Cal.—Chevrolet Company at \$551.35 each submitted only bid to the City Clerk of Oakland for furnishing eight automobiles of the coupe type.

PROSPECTIVE BIDDERS

SAN DIEGO, Cal.—Following have procured bidding data under Spec. No. 7422 for heating plant and boilers at the Naval Operating Base. Bids open October 10.

C. C. Moore & Co., 204 Edison Bldg., Los Angeles.

Consolidated Steel Corp., P. O. Box 1348, Arcade Station, Los Angeles.

George Hess, 434 S. Westmoreland Ave., Los Angeles.

R. G. Meyler Corp., 408 S. Spring St., Los Angeles.

Harry Barkeley Co., 652 San Julian St., Los Angeles.

Coen Co., 610 S. Broadway, Los Angeles.

Erie City Iron Works, 1816 W. 75th St., Los Angeles.

Lohman Bros., 232-4 S. Spring St., Los Angeles.

G. E. Parsons & Co., 458 S. Spring St., Los Angeles.

Cox & Marquet, 734 E. 12th St., Los Angeles.

Vernon Tool Co., 2740 E. 37th St., Los Angeles.

Western Pipe & Steel Co. of California, 5717 Santa Fe, Los Angeles.

W. E. Lueders, 350 S. Anderson St., Los Angeles.

A. D. Granger Co., 15 Park Row, New York City.

John Danforth Co., 70 Ellicott St., Buffalo, N. Y.

Puget Sound Machinery Depot, 322-324 First Ave. So., Seattle, Wash.

E. Keeler Co., Williamsport, Pa.

Erie City Iron Works, Erie, Pa.

Southwest Welding & Mfg. Co., 3201 W. Mission Road, Alhambra, Cal.

Garrett & Co., 3333 Pacific Ave., San Pedro, Cal.

St. Louis Fire Brick & Clay Co., 3050 E. Slauson Ave., Huntington Park, Cal.

Jones Heating Co., 497 S. Broadway, Pasadena, Cal.

Boiler, Tank & Pipe Co., 800 75th Ave., Oakland, Cal.

Standard Iron Works, Ft. of Beardsley St., San Diego.

W. E. Kier, 813 First National Bank Bldg., San Diego.

B. O. Larsen, 1340 E St., San Diego.

V. R. Dennis Construction Co., 3911 Fifth Ave., San Diego.

H. F. Allison, 1136 India St., San Diego.

Fred L. Souther, Southern Machinery Co., 666 State St., San Diego.

A. O. Reed & Co., 672 8th St., San Diego.

R. E. Hazard Construction Co., 2549 Kettner Blvd., San Diego.

San Diego Building Specialties, Inc., 629 West G St., San Diego.

G. R. Abbott & Son, 5645 Bellevue Ave., Pacific Beach Postoffice.

H. B. Poindexter, 3948 Cleveland Ave., San Diego.

Miracle Co., 4751 Monroe Ave., San Diego.

Western Metal Supply Co., 215 7th St., San Diego.

Sidney E. Mayer Co., 441 10th St., San Diego.

C. C. Moore & Co., 450 Mission St., San Francisco.

Herman Lawson Co., 465 Tehama St., San Francisco.

Robert L. Johnson, 322-A Monadnock Bldg., San Francisco.

Hunt, Mirk & Co., Inc., 141 Second St., San Francisco.

Agent, Erie City Iron Works, 490 Bay St., San Francisco.

Standard Mechanical Co., 4712-20 Grove St., Oakland, Cal.

J. A. Fazio, 402 Castro St., Oakland, Cal.

National Iron Works, foot of 7th St., San Diego.

PROSPECTIVE BIDDERS

PEARL HARBOR, T. H.—Following have obtained plans and specifications No. 7418 from Bureau of Yards and Docks, Navy Department, Wash-

ington, D. C., for repair basin, Pearl Harbor Navy Yard. (Bids open Nov. 15):

Arundel Corp., Pier 2, Pratt St., Baltimore.

McClintock-Marshall Co., Bethlehem, Pa.

Lee P. Warren, 317 Southern Bldg., Wash.

Theo. H. Davies & Co., Ltd., Honolulu and Matson Bldg., San Francisco

Stuart Mannell & Co., Arctic Bldg., Seattle.

Inland Steel Co., Chicago, Ill.

E. T. Thurston, 57 Post St., San Francisco.

U. S. Pipe & Foundry Co., Monadnock Bldg., San Francisco.

American Factors, Ltd., Matson Bldg., San Francisco, and Honolulu.

Enterprise Foundry Corp., 2902 19th St., San Francisco.

Koppel Industry & Equipment Co., Koppel, Penn.

W. F. Way, 2831 47th West St., Seattle.

Soule Steel Co., 1750 Army St., San Francisco.

I. M. Summers, San Francisco.

Robert T. Fitzsimmons, Chicago.

BIDS OPENED

BERKELEY, Alameda Co., Cal.—Following bids received by Berkeley City Council for furnishing a new truck of the pickup type, six or more cylinders:

J. E. French Co., \$615.05; John M. Olney, Inc., \$615.19; University Chevrolet Co., \$654.08.

Bids held under advisement.

AWARD

SAN FRANCISCO.—Associated Equipment Co., Ltd., 355 Fremont St., San Francisco, awarded contract by T. A. Brooks, Purchasing Agent, San Francisco, to furnish one caterpillar maintenance unit under Spec. No. 1063.

AWARD

SAN FRANCISCO.—Fair Mfg. Co., 617 Bryant St., San Francisco, awarded contract by T. A. Brooks, City Purchasing Agent, for furnishing tool sharpening for S. F. Water Dept., under Bid No. 1074.

CONTRACT AWARDED

BOULDER DAM, Nev.—Reclamation Bureau, Denver, Colo., has awarded contracts for furnishing generators for Boulder Dam power plant, Specification No. 513, as follows: General Electric Co., Schenectady, N. Y., two generators at \$1,392,248; Westinghouse Electric and Manufacturing Co., Pittsburgh, two generators at \$1,872,835; Allis-Chalmers Manufacturing Co., Milwaukee, one generator at \$245,603.

LOW BIDDERS

DENVER, Colo.—Following submitted low bids to Chief Engineer, Bureau of Reclamation, Denver, Colo., under Specification 600-D to furnish:

(1) One motor-driven gate hoist with motor;

(2) Two gates, with all leaves, stems, rack, etc.;

(3) Trash racks and I-beams;

(4) One flap valve.

Long Beach Iron Works, Long Beach, Cal., at \$920 for Item (1).

Pacific Iron and Steel Co., Tacoma, at \$720 for Item (2).

John W. Beam, Denver, at \$240 for Item (3).

Commercial Iron Works, Portland, Ore., at \$154 for Item (4).

CONTRACT AWARDED

SAN FRANCISCO.—Killefer Manufacturing Co., 5525 Downey St., at \$627 each awarded contract to furnish three heavy duty road rippers. Bids opened September 27.

CONTRACT AWARDED

KETCHIKAN, Alaska.—Three Engineers Co., Seattle, at \$5134 awarded contract by Department of Commerce, Lighthouse Service, Superintendent of Lighthouses, Ketchikan, Alaska, under Proposal No. 6500 to furnish one compressor for Cape Chinchinbrook. Bids opened June 6.

BIDS WANTED

LOS ANGELES, Cal.—Until October 9, 10 A. M., bids will be received by Saul A. Joseph, Purchasing Agent of the Metropolitan Water District, Rm. 54, 306 W. Third St., Los Angeles, for furnishing:

- (1) 21 cars, side dump, 5 cu. yd. capacity, steel body, for 36-gauge track, in accordance with Specifications E-66, f.o.b. cars at manufacturer's plant.
- (2) Alternate to Item 1—21 cars, same as item 1, except price to be f.o.b. Indio, Calif.

Bid No. 16074. The request for bids cancels and supersedes Bid No. 15798 to have been received Oct. 3.

CONTRACT REFUSED

DENVER, Colo.—The U. S. Reclamation Service, under Specification No. 596 announces the refusal of contract by Union Iron Works for pumping units and electrical apparatus, Minnedoka project. The work will be readvertised.

BIDS WANTED

SAN DIEGO, Cal.—Until October 10, 10 A. M., bids will be received by State Bureau of Purchases, Sacramento, for furnishing one 5-ton three-wheeled roller, with scarifier and blade attachments under Quotation No. 10040 for delivery to Shop 11, Division of Highways, San Diego.

26—RAILROADS**PLANNED**

PHOENIX, Ariz.—The A. T. & S. F. Railway is ready to start work on the construction of a 20-mile spur track from Glendale (Arizona), to a point 2 miles northwest of Scottsdale as soon as development in Paradise Valley warrants it. The cost is estimated at \$500,000. F. L. Hanna, Phoenix, Assistant General Agent, The Verde River Irrigation & Power District is planning the expenditure of \$19,000,000 in the Deer and Paradise valleys if a federal public works loan of \$19,000,000 is granted.

28—FIRE EQUIPMENT**CONTEMPLATED**

GUSTINE, Merced Co.—Gustine City Council is expected to call for bids shortly on a new fire engine. L. C. Lee, mayor.

BIDS OPENED

ALAMEDA, Cal.—Following bids received by Alameda City Council for furnishing a 1000-gal triple combination pumping engine for the Fire Department:

Mack International Motor Corp.	
Seagrave Corp.	\$12,500
American La France-Foamite Company	12,500
Ahern Fox Fire Engine Co.	
(Type C-T)	13,630
(Type N-D)	12,630
(Type 95)	12,375
(Type 19)	13,500

Bids referred to City Manager for recommendation.

29—STREETS AND HIGHWAYS**BIDS WANTED**

LINN COUNTY, Ore.—Until October 11, 10 a. m., bids will be received by W. H. Lynch, District Engineer, U. S. Bureau of Public Roads, 316 New Postoffice Bldg., Portland, Ore., for furnishing all labor and materials and performing all work for constructing or improving 3.88 mi. North Santiam Highway, Grading Project NR-24-E1, National Forest Road Project, located in Willamette National Forest, Linn County, Oregon.

BIDS WANTED

LANE CO., Ore.—Until October 11, 10 a. m., bids will be received by W. H. Lynch, District Engineer, U. S. Bureau of Public Roads, 316 New Postoffice Bldg., Portland, Ore., for grading 5.229-mi. Willamette Highway Grading Project, NR-21-G, National Forest Road Project, located in Willamette National Forest, Lane County, Oregon.

BIDS OPENED

KLAMATH COUNTY, Ore.—Dunn & Baker, Klamath Falls, Ore., at \$228,533.70 for corrugated galvanized metal pipe, and at \$229,353.20 for concrete pipe, submitted low bid to U. S. Bureau of Public Roads, 316 New Post Office Bldg., Portland, to construct Rim Road Grading Project NR-7-C Crater Lake National Park Road Project, Crater Lake National Park.

September 30, 1933

CONTRACT AWARDED

ARIZONA STATE.—Orr & Rawls and L. C. Lashmet, Box 2183, Phoenix, at \$88,990.76 awarded contract by the Arizona State Highway Commission, Phoenix, Ariz., for highway construction in N.R.H. 79-B. The work on N.R.H. 79-B begins 16 miles south of Tombstone and extends southerly 2.1 miles, placing aggregate base course and either road or plant mix oil on 79-B and is to be completed before May 15, 1934.

September 30, 1933

CONTRACT AWARDED

ARIZONA STATE.—Packard & Tanner, 737 W. Latham St., Phoenix, at \$119,252.22 awarded contract by the Arizona Highway Commission, September 27, for highway construction on N.R.H. 98-C, Blythe-Wickenburg Highway. The project begins at the county line and extends easterly 10.8 miles. The bid on the alternate was \$121,010.22.

Martin Bros. Trucking Co., Long Beach, bid \$137,080.71.

September 30, 1933

CONTRACT AWARDED

ARIZONA STATE.—Pleasant-Hasler Construction Co., 324 Luhrs Bldg., Phoenix, at \$75,415.96 awarded contract by the Arizona State Highway Commission, Phoenix, Ariz., for highway construction in NRM 79-F and NRH 79-F, Benson-Douglas Highway. The work in NRH and NRM 79-F begins in the town of Tombstone and extends northwesterly 8.9 miles, consists of the placing of base course and plant mix on the 79-F projects and the grading and draining.

CONTRACT AWARDED

ARIZONA STATE.—Packard & Tanner, 737 W. Latham St., Phoenix, at \$247,238.51 awarded contract by the Arizona State Highway Commission, Phoenix, for highway construction on NRH 98-D, Blythe-Wickenburg Highway. The work on NRH 98-D begins 2 3/4-mile west of Salome and extends northwest 18.7 miles and consists of the grading and draining only.

September 30, 1933

CONTRACTS AWARDED

WASHINGTON STATE.—The following contracts were awarded by L. V. Murrow, State Director of Highways, Olympia, Wash.:

Wick & Dahlgren, Seattle, at \$8964 for sidewalk construction on Columbia River Bridge.

S. H. Newell & Co., Portland, at \$55,849 for 3.4 miles to grade and surface with crushed stone State Road No. 10, Brewster North, in Okanogan County.

Lueich & Co., Seattle, at \$36,914 to grade and surface 2.9 miles Mithow Valley Highway, Pateros North, in Okanogan County.

Jas. Berin, Portland, at \$65,822 to surface 6.2 miles State Road No. 13, Cosmopolis Arctic in Grays Harbor County.

CONTRACT AWARDED

ARIZONA STATE.—Packard & Tanner, 737 W. Latham St., Phoenix, at \$180,130.87 awarded contract by the Arizona State Highway Commission, Phoenix, for NRH 80-B and D, Ashfork-Kingman Highway. The work on NRH 80-B begins near Crookton and extends westerly approximately 9.0 miles to Seligman, and on NRH 80-D at the west end of NRH 80-B in Seligman and extends northwesterly seven and four-tenths (7.4) miles, consists of placing base course and either cut-back or emulsified asphalt plant mix and is to be completed on or before March 31, 1934.

BIDS WANTED

WASHINGTON STATE.—Bids will be received until Oct. 17, 10 a. m., by L. V. Murrow, State Director of Highways, Olympia, for highway construction (previously advertised Oct. 10), as follows:

(1) Paving with portland cement concrete about 1.1 mile of State Roads No. 3 and 7 in the city of Ellensburg, National Recovery Municipal Highway Projects Nos. NRM 165-H and NRM 148-D in Kittitas County, involving about 370 cu. yds. of excavation, 16,948 sq. yds. of pavement, 3401 lin. ft. of curb and gutter, and other items.

(2) Grading about 1.7 miles of State Road No. 3, Attalia Revision, Unit 1 of National Recovery Highway Project No. NRH 194-C in Walla Walla County, involving about 65,140 cu. yds. of excavation, 3120 lin. ft. of cable guard rail and other items.

(3) Grading and surfacing about 4.7 miles of State Road No. 3, Deer Park to Clayton, National Recovery Highway Project No. NRH 94-D and NRH 16 in Spokane and Stevens Counties, involving about 21 acres of clearing, 43,420 cu. yds. of excavation, 33,740 cu. yds. of ballast, 15,630 cu. yds. of crushed stone surfacing and oil rock, 1414 lin. ft. of pipe culverts and other items.

BIDS WANTED

SAN FRANCISCO—Until October 13, 11 A. M., bids will be received by Regents of the University of California, Berkeley, for grading and paving around the Medical School Building, University of California in San Francisco. Specifications may be obtained at the Cashier's window, California Hall, University of California, Berkeley. Deposit of \$25 required. Official proposal appears in this issue.

CONTRACT AWARDED

OREGON STATE.—David W. Johnson and W. D. Miller, Klamath Falls, at \$8205.50 awarded contract by State Highway Commission, Multnomah Hotel, Portland, to pave 1244 lin. ft. in Klamath County, Terminal City-Klamath Falls Section of The Dalles-California Highway.

BIDS WANTED

COCONINO & GILA COS., Ariz.—Until October 10, at 1 p. m., bids will be received at the office of the Bureau of Public Roads, 802 Title and Trust Bldg., Phoenix, Ariz., for grading 6.870 miles Section D of Route 10, the Pine-Winslow National Forest Highway, Coconino and Gila counties, Arizona. Bids were previously received on this contract September 21 and have been rejected. Low bid submitted by Harry Hagen, Globe, Ariz., at \$127,500.50.

Contract involves the following principal items:

- (1) 33 acres clearing;
- (2) 93,600 cu. yds. unclass. excav.;
- (3) 800 cu. yds. unclass. excav. struc.;
- (4) 23,300 cu. yds. unclass. excav. for borrow;
- (5) 103,000 sta. yds. overhaul;
- (6) 6.870 mi. finish. earth graded rd.;
- (7) 16,300 cu. yds. m. haul. borrow;
- (8) 8 cu. yds. concrete;
- (9) 560 lbs. reinf. steel;
- (10) 2136 lin. ft. corr. metal pipe;
- (11) 400 cu. yds. cem. rub. masonry;
- (12) 10 right of way monuments;
- (13) 11,425 lin. ft. fence;
- (14) 4 farm entrance gates;
- (15) 7660 lin. ft. protection ditch;
- (16) 24 cu. yds. invert paving.

Plans and specifications obtainable from above office upon a deposit of \$10.00.

CONTRACT AWARDED

OREGON STATE—Berke Bros., Inc., Portland, at \$52,267.50 awarded contract by State Highway Commission, Multnomah Hotel, Portland, to grade 1.06 ml. of ESoda Fork Section of the Santiam Highway in Linn County.

CONTRACT AWARDED

OREGON STATE—Morrison-Knudsen Co., Boise, Idaho, at \$84,175 awarded contract by State Highway Commission, Multnomah Hotel, Portland, to grade and surface 8.02 mi. in Lake County. White Rock-Lakeview Section of the Fremont Highway.

CONTRACT AWARDED

OREGON STATE—Edincott & Co., Redmond, Wash., awarded contract at \$33,967.25 by State Highway Commission, Multnomah Hotel, Portland, to grade 3.30 mi. in Deschutes County, Redmond-Bend Section of the Dalles-California Highway.

LOW BIDDER

OREGON STATE—Fred H. Slate, Portland, submitted low bid to the State Highway Commission, Multnomah Hotel, Portland, to grade 0.99 mi. in Neahkahnie Mountain Section of the Oregon Coast Highway, at \$32,876.

CONTRACT AWARDED

OREGON STATE—Von der Hellen & Pierson, Medford, Oregon, at \$177,212.50 awarded contract by State Highway Commission, Multnomah Hotel, Portland, to grade 1.51 mi. in Jackson County, Neil Creek-Barron Creek Section of Pacific Highway.

CONTRACT AWARDED

OREGON STATE—Myers & Goulter, Seattle, Wash., at \$86,062 awarded contract by State Highway Commission, Multnomah Hotel, Portland, to grade 4.25 mi. in Grant County, Middle Fork-Forest Boundary Section of the Pendleton-John Day Highway.

CONTRACT AWARDED

OREGON STATE—Parker-Schram Co., Portland, Oregon, at \$59,698 awarded contract by State Highway Commission, Multnomah Hotel, Portland, to pave 2.12 mi. in Multnomah County Line-Linnton Section of the Columbia River Highway.

AWARD

IMPERIAL COUNTY, Cal.—Oswald Bros., 366 E. Fifty-eighth St., Los Angeles, at \$74,624 awarded contract by the State Highway Commission, Sacramento, to grade and place Portland cement concrete widening strips to 3.2 miles between 4 miles west of Westmoreland and Trifolium Canal.

BIDS WANTED

SAN FRANCISCO—Until Oct. 11, 2:30 P. M., bids will be received by W. H. Worden, Director, Department of Public Works, Room 251, City Hall, for construction of the Merced Manor storm water relief sewer adjacent to 26th Ave. and Eucalytus Drive. The work involves:

- (1) 350 lin. ft. 36-in. C. G. M. P. 12-ga. in place;
- (2) 1 reinforced concrete outlet;
- (3) 95 sq. ft. basalt block apron.

Plans and specifications obtainable at the office of the Department of Public Works, Room 251, City Hall, upon deposit of \$10.

AWARD

LOS ANGELES Co., Cal.—Cilfields Trucking Co., Taft, Cal., at \$11,240 awarded contract by State Highway Commission, Los Angeles, to treat with fuel oil 14.5 miles shoulders, gutters and dykes on Ridge Route Alternate between Castic and Piru Gorge.

BIDS WANTED

SAN RAFAEL, Marin Co., Cal.—Until October 16, 11:30 a. m., bids will be received by the War Department, Office of the Constructing Quartermaster, Hamilton Field, San Rafael, Cal., for the construction of a post road system with catch basins and curbs at Hamilton Field, San Rafael. Plans and specifications obtainable upon deposit of \$5 and on file at the office of the Constructing Quartermaster, Fort Mason, San Francisco, or the Builders' Exchange, San Francisco.

CONTRACT AWARDED

OREGON STATE—A. T. Dolan, Tillamook, Oregon, at \$15,288 awarded contract by State Highway Commission, Multnomah Hotel, Portland, to pave 2.47 lin. ft. in Tillamook County, Kilchis River-Tillamook Section of the Oregon Coast Highway.

AWARD

MONO COUNTY, Cal.—Isbell Construction Co., Carson City, Nev., at \$54,424 awarded contract by State Highway Commission to grade and surface with selected material and apply bituminous surface over 2.9 mi. between 2 mi. north of Leevining and Mono Inn.

AWARD

YOLO & BUTTE COUNTIES, Cal.—E. A. Ford, 41 Sunnyside Ave., San Anselmo, at \$35,851.92 awarded contract by State Highway Commission to apply bituminous surface treatment over 3.9 mi. between Davis Wye and Willow Slough, Yolo County, and in Butte County over 4.0 mi. between 0.75 mi. north of Rock Creek and 0.1 mi. south of Pine Creek.

BIDS WANTED

ALASKA—Until Oct. 26, 9 a. m., bids will be received by the Bureau of Public Roads, 419 Federal and Territorial Bldg., Juneau, Alaska, for 3.554 miles of surfacing on the Seward Highway, Seward-Kenal Lake Section 1, in the Chugach National Forest, Third Judicial Division, Territory of Alaska, involving 8200 cubic yards screened gravel top course. Plans and specifications obtainable from above office upon a deposit of \$5.00. 29

AWARD

RIVERSIDE COUNTY, Cal.—Clyde W. Wood, Box 1435, Stockton, at \$16,545 awarded contract by State Highway Commission, Sacramento, to treat with fuel oil 19.6 mi. between 4 mi. east of Mecca and Shavers Summit.

BIDS WANTED

SOUTH SAN FRANCISCO, Cal.—Until October 20, 11 a. m., at the office of the Public Works Officer, Mare Island Navy Yard, Cal., under Spec. No. 7389, bids will be received for constructing approximately 1405 lin. ft. of road, consisting of a 10-ft. strip of asphalt treated crushed rock, between 2-ft. earth shoulders, together with approximately 2650 lin. ft. of barbed wire fence along the right-of-way.

Plans obtainable at the office of the Commandant, U. S. Navy Yard, Mare Island, on deposit of \$10.

AWARD

SAN BERNARDINO Co., Cal.—E. L. Yeagers, Box 470, San Bernardino, at \$8755.50, awarded contract by Dept. of Public Works, Div. of Highways, Dist. Engineer San Bernardino, to improve highway in San Bernardino County, between Camp Waterman and Burnt Mill Maintenance Station, with bituminous surface treatment of 11.8 mi.

BIDS WANTED

ALASKA—Until Oct. 26, 9 a. m., bids will be received by the Bureau of Public Roads, 419 Federal and Territorial Bldg., Juneau, Alaska, for 5,148 miles of surfacing on the Glacier Highway, Juneau-Lemon Creek Section, in the Tongass National Forest, First Judicial Division, Territory of Alaska, involving 8500 cubic yards crushed rock or gravel top course. Plans and specifications obtainable from above office upon a deposit of \$5.00.

BIDS OPENED

SANTA CLARA COUNTY, Cal.—Tiffany Constr. Co., 535 N-Seventh St. San Jose, at \$18,432 submitted low bid to Santa Clara County Board of Supervisors for improvement of Buena Vista Ave. in Supervisor District No. 1, involving 38,900 sq. ft. oil macadam pavement. Following bids received:

Tiffany Constr. Co.	\$18,432
A. J. Ralsch	22,400
Piazza & Green	22,840
Granite Constr. Co.	23,575
O. G. Ritchie	24,250
E. W. Hepple	25,748
Engineer's Estimate	21,400

LOW BIDDER

SAN FRANCISCO—E. J. Treacy, Cail Bldg., San Francisco, submitted low bid at \$442 to Treasury Department, Washington, D. C., for construction of roadway to Laboratory Bldg. at the U. S. Marine Hospital, San Francisco.

CONTRACT AWARDED

SANTA CLARA COUNTY, Cal.—A. J. Ralsch, Burrell Bldg., San Jose, at \$23,760 awarded contract by Santa Clara County Board of Supervisors to improve Homestead Road in Supervisor District No. 4, involving 59,700 sq. yds. asphaltic concrete pavement.

Only other bids received was that of Union Paving Co., San Francisco, at \$23,878. Engineer's estimate, \$21,780.

AWARD

MARIN COUNTY, Cal.—A. J. Ralsch, 251 Kearny St., San Francisco, at \$46,437.30 awarded contract by State Highway Commission to grade and pave with asphaltic concrete 0.4 mi. between Napa St. and Water St., Sausalito.

(Continued on Page 28)

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

MONTEREY COUNTY — BRIDGE — STATE

MONTEREY COUNTY, Cal.—Bodenhamer Construction Co., 354 Hobart St., Oakland, at \$36,939 submitted low bid to State Highway Commission, Sacramento, to construct bridge across Carmel River, about 2 miles south of Carmel, consisting of thirteen 40-foot reinforced concrete girder spans, involving:

(1) 135 cu. yds. structure excavation;
 (2) 2560 lin. ft. furnish reinforced concrete piles including test piles;
 (3) 84 each driving reinf. conc. piles, including test piles;

(4) 920 cu. yds. Class A Port. cem. conc. structure;
 (5) 44 cu. yds. Class A Port. cem. conc. railing;
 (6) 207,000 lbs. bar reinforcing steel;
 (7) 4100 lbs. cast steel;
 (8) 1 lot miscellaneous items of work. Complete bids follow:
 (A) Bodenhamer Construction Co., Oakland, \$36,939.
 (B) Sam Scarrino, San Jose, \$37,162.
 (C) Neves & Harp, Santa Clara, \$37,949.
 (D) Carl N. Swenson Co., San Jose,

\$37,968.50.
 (E) M. B. McGowan, San Francisco, \$38,497.
 (F) E. T. Lesure, Oakland, \$39,767.40.
 (G) B. Maggoria, Sausalito, \$42,881.
 (H) J. W. Terrell, Sacramento, \$42,963.25.
 (I) Rocca & Calletti, San Rafael, \$44,634.
 (J) L. C. Seidel, Oakland, \$49,817.50.
 Unit prices follow:
 .00 1600.00 \$532.00 \$600.00 1210.00

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
(1)	\$ 1.00	\$ 1.00	\$ 1.00	\$ 3.00	\$ 1.00	\$ 1.00	\$ 3.00	\$ 1.75	\$ 1.00	\$ 1.50
(2)	2.25	2.00	2.50	2.75	1.70	2.10	2.60	2.45	3.25	3.50
(3)	30.00	30.00	65.00	28.00	65.00	29.00	40.00	24.00	36.00	40.00
(4)	17.00	19.00	15.00	17.50	20.00	20.15	21.00	20.50	22.50	26.00
(5)	40.00	42.00	45.00	40.00	44.00	60.00	50.00	67.00	50.00	60.00
(6)	.05	.042	.04	.0425	.035	4.22	.045	.049	.044	.045
(7)	.14	.15	.14	.14	.17	.17	.25	.21	.15	.20
(8)	200.00	750.00	1320.00	940.00	272.00	1210.00	600.00	1600.00	532.00	600.00

LOS ANGELES COUNTY — UNDERGRADE CROSSING — STATE

LOS ANGELES COUNTY, Cal.—Kovacevich & Price, Inc., 5400 Imperial Highway, Southgate, at \$43,474.50 submitted low bid to State Highway Commission, Sacramento, to construct an undergrade crossing in Los Angeles County under the tracks of the Southern Pacific Railroad, 1½ miles east of El Monte, consisting of two concrete abutments with wing walls, installing irrigation and drainage systems and grading and paving approximately 0.4 mile roadway with Portland cement concrete, involving:

(1) 8000 cu. yds. roadway excav.;
 (2) 14,400 cu. yds. excess rdwy excav;
 (3) 14 lin. ft. 18-in. corr. metal pipe;
 (4) 258 lin. ft. 12-in. corr. metal pipe;
 (5) 36 lin. ft. 8-in. corr. metal pipe;
 (6) 574 lin. ft. 8-in. cast iron discharge pipe;
 (7) 180 lin. ft. 2½-in. cast iron irrigation pipe;
 (8) 2126 lin. ft. 1¼-in. cast iron irrigation pipe;

(9) 40 each irrigation outlets;
 (10) 7135 sq. yds. subgrade for pave.;
 (11) 1500 cu. yds. class A Portland cement concrete pavement;
 (12) 51 cu. yds. class A Portland cement concrete structure;
 (13) 375 cu. yds. class A Portland cement concrete slope paving;
 (14) 238 cu. yds. class A Portland cement concrete curbs and gutters;
 (15) 714 cu. yds. class B Portland cement concrete;
 (16) 850 tons crusher run base;
 (17) 640 tons crushed gravel or stone bituminous treated surfacing;
 (18) 31 tons cutback asphalt;
 (19) 1500 lbs. cast steel catch basin covers and frames;
 (20) 64,700 lbs. bar reinforcing steel;
 (21) 1 lot pumping equipment;
 (22) 1 lot water supply equipment;
 (23) 100 lin. ft. drilling and casing well;
 (24) 1 lot remove and dispose of trees;

(25) 1 lot miscellaneous items of work. Complete bids follow:
 (A) Kovacevich & Price, Inc., Southgate, \$43,474.50.
 (B) C. A. Sparks, Los Angeles, \$43,496.70.
 (C) Dimmitt & Taylor, Los Angeles, \$43,954.65.
 (D) Sharp & Fellows, Los Angeles, \$46,913.60.
 (E) I. E. Haddock, Pasadena, \$48,872.90.
 (F) Oswald Bros., Los Angeles, \$49,670.20.
 (G) Oscar Oberg, Los Angeles, \$49,823.70.
 (H) Clinton Construction Co., Los Angeles, \$50,343.45.
 (I) Morrison & Knudsen, Los Angeles, \$61,033.58.
 (J) Byerts & Dunn, Los Angeles, \$62,924.60.
 Unit prices follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
(1)	\$.35	\$.20	\$.28	\$.30	\$.25	\$.40	\$.34	\$.54	\$.40	\$.70
(2)	.27	.35	.28	.40	.40	.40	.31	.28	.55	.75
(3)	1.20	2.00	3.00	1.75	1.50	2.00	2.00	1.60	3.37	2.00
(4)	1.00	1.30	2.00	1.35	1.35	1.50	1.80	1.48	2.70	1.50
(5)	.90	1.00	1.00	1.00	.95	1.25	1.40	1.25	1.67	1.00
(6)	1.10	1.40	1.50	1.50	1.25	1.40	1.60	1.81	1.72	1.50
(7)	.60	.75	.80	.60	.70	.80	.70	1.05	.72	1.00
(8)	.35	.50	.30	.25	.55	.30	.40	.57	.55	.35
(9)	2.50	1.80	5.00	2.00	3.00	10.00	3.00	4.32	5.40	7.00
(10)	.08	.10	.09	.08	.11	.08	.10	.09	.10	.10
(11)	6.50	6.40	6.70	7.00	7.70	7.00	7.45	7.06	10.00	7.00
(12)	15.00	21.00	20.00	25.00	19.50	25.00	25.00	26.50	30.00	20.00
(13)	9.50	8.20	10.50	9.00	10.00	12.00	12.00	13.00	10.00	13.00
(14)	12.00	9.60	12.70	10.00	10.00	11.50	11.25	15.00	16.00	12.00
(15)	12.00	9.40	10.10	11.00	10.50	11.00	13.40	9.60	11.00	10.00
(16)	1.25	2.00	1.80	1.70	2.00	1.50	2.10	1.64	2.20	2.75
(17)	1.65	3.00	1.50	3.00	3.00	2.45	2.00	2.52	3.30	4.25
(18)	20.00	22.50	19.50	18.00	17.50	17.00	17.00	18.60	19.00	20.00
(19)	.10	.17	.15	.10	.10	.18	.15	.17	.20	.11
(20)	.05	.05	.045	.045	.045	.04	.045	.046	.05	.045
(21)	1300.00	1420.00	600.00	2000.00	1650.00	1750.00	1460.00	1380.00	2700.00	1500.00
(22)	700.00	700.00	1300.00	750.00	500.00	950.00	700.00	707.00	1046.00	750.00
(23)	3.25	4.00	3.00	3.50	3.35	4.50	3.60	3.80	4.00	3.50
(24)	125.00	300.00	100.00	225.00	180.00	500.00	250.00	4350.00	1200.00	550.00
(25)	250.00	300.00	325.00	500.00	1500.00	950.00	675.00	1335.00	500.00	5000.00

SISKIYOU COUNTY — GRADE AND SURF. — STATE

SISKIYOU CO., Cal.—A. Telchert & Sons, P. O. Box 1118, Sacramento, at \$59,457.50 submitted low bid to State Highway Commission, Sacramento, to grade and surface with bituminous treated crushed gravel or stone, road mix method, about 0.8 mile at Big Canyon, involving:

- (1) 8 acres clearing and grubbing right of way;
- (2) 125,000 cu. yds. roadway excav. without classification;
- (3) 436,000 sta. yds. overhaul;
- (4) 850 cu. yds. structure excav.;
- (5) 27 cu. yds. class A Portland cement concrete structures;
- (6) 2400 lbs. bar reinforcing steel structures;
- (7) 1850 cu. yds. crusher run base;
- (8) 2125 cu. yds. crushed gravel or stone bituminous treated surfacing;
- (9) 105 tons cutback asph. bituminous treated surfacing;

- (10) 51 sta. mixing cutback asph. and crushed gravel or stone;
- (11) 125 barrels heavy fuel oil;
- (12) 48 lin. ft. 18-in. corru. metal pipe, 16 gauge;
- (13) 240 lin. ft. 18-in. corru. metal pipe, 14 gauge;
- (14) 60 lin. ft. 21-in. corru. metal pipe, 14 gauge;
- (15) 96 lin. ft. 30-in. corru. metal pipe, 14 gauge;
- (16) 156 lin. ft. 30-in. corru. metal pipe, 14 gauge, close riveted and soldered;
- (17) 160 lin. ft. 48-in. corru. metal pipe, 8 gauge;
- (18) 8 pieces 36-in. corru. metal pipe, each two feet, 14 gauge;
- (19) 435 cu. yds. concrete removed from existing pavement and struc. and disposed of;
- (20) 2305 M gallons water;
- (21) 41 sta. finishing roadway;
- (22) 15 each monuments complete in place.

Complete bids follow:
 (A) A. Telchert & Son, P. O. Box 1118, Sacramento, \$59,457.50.
 (B) Young & Son Co., Berkeley, \$64,878.04.
 (C) Fredrickson & Watson, Oakland, \$67,500.
 (D) Geo. Pollock Co., Sacramento, \$68,485.50.
 (E) Contoules Construction Co., San Francisco, \$69,541.25.
 (F) D. McDonald, Sacramento, \$73,757.84.
 (G) Union Paving Co., San Francisco, 74,067.50.
 (H) Dunn & Baker, Klamath Falls, Ore., \$75,885.
 (I) M. J. Bevanda, Stockton, \$77,230.
 (J) Islell Construction Co., Carson City, Nev., \$77,833.
 (K) Kennedy Construction Co., Oakland, \$85,798.
 (L) A. Young, Yreka, \$89,923.20.
 Unit prices follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)
(1)	\$ 50.00	\$ 60.00	\$ 80.00	\$100.00	\$ 75.00	\$100.00	\$ 40.00	\$200.00	\$ 50.00	\$150.00	\$150.00	\$250.00
(2)	.26	.29	.33	.35	.37	.32	.38	.40	.39	.28	.48	.50
(3)	.01	.02	.005	.01	.005	.01	.005	.01	.01	.01	.01	.0075
(4)	1.00	1.40	1.00	1.00	1.00	1.25	1.50	1.20	1.00	1.00	1.00	1.50
(5)	20.00	22.00	30.00	25.00	30.00	30.00	35.00	21.00	25.00	30.00	25.00	20.00
(6)	.05	.06	.07	.06	.06	.08	.07	.07	.05	.06	.06	.06
(7)	2.90	2.21	2.60	2.00	1.75	4.30	3.00	1.85	2.75	2.50	2.25	2.50
(8)	3.25	2.05	2.60	2.00	2.25	4.30	3.00	2.00	3.50	3.00	2.25	2.50
(9)	23.00	23.70	26.00	22.00	12.00	22.00	25.00	24.00	22.00	30.00	21.00	25.00
(10)	15.00	10.00	15.00	10.00	30.00	15.00	15.00	8.00	12.00	25.00	15.00	20.00
(11)	3.75	2.23	3.00	3.30	4.00	3.00	3.00	2.25	2.50	3.50	3.00	5.00
(12)	1.75	1.50	1.50	2.00	2.25	1.88	1.75	1.65	1.75	2.10	1.75	1.60
(13)	2.00	1.80	1.80	2.50	2.50	2.10	2.00	2.00	2.00	2.35	2.00	1.80
(14)	3.00	2.35	2.50	3.00	3.00	2.72	3.00	2.70	2.75	2.80	2.50	2.40
(15)	3.50	3.00	3.00	3.50	3.50	3.20	3.50	3.30	3.50	3.60	3.25	3.00
(16)	4.25	3.55	4.50	4.50	4.00	4.21	4.00	4.50	4.00	4.50	4.00	3.65
(17)	9.50	10.00	10.00	10.00	8.50	9.16	9.00	10.60	10.00	9.50	10.00	9.65
(18)	12.50	7.50	10.00	15.00	6.00	12.98	7.00	11.00	12.00	16.30	10.00	20.00
(19)	1.50	1.50	2.00	1.00	1.00	3.00	3.00	1.40	2.00	2.00	2.00	.50
(20)	.20	.75	1.30	1.00	1.50	.50	.50	1.25	.75	1.00	.75	1.00
(21)	6.00	5.00	6.00	10.00	5.00	5.00	7.00	5.00	7.00	10.00	5.00	5.00
(22)	3.00	3.00	3.00	3.00	3.00	2.50	3.00	3.00	3.00	3.00	3.00	3.00

BRIDGES AND OVERPASS — APACHE COUNTY — GOVT.

APACHE & NAVAJO COS., Ariz.—Contracts for construction of bridges and railway overpass on Petrified Forest Routes 1 and 2, Petrified National Forest, Apache and Navajo Counties, recommended for award by the District Engineer, C. H. Sweetser, on bids opened by the Bureau of Public Roads, Phoenix, September 26, are:

Sec. B-1, overpass at Sta. 10 plus 0.022-mi., structure only, 24-ft. in width, to Dell E. Webb Construction Co., Phoenix, Ariz., at \$15,367.37.

Sec. A of Route 1, all of Route 2, to Whiting Bros., St. Johns, Ariz., at \$37,202.

The quantities and complete bids follow:

Petrified Forest National Monument, Routes 1 and 2, Sec. A, Route 1, and all of Route 2, bridges.

- The work involves:
 (1) 1545 cu. yds. unclass. excav. for struc.;
 (2) 727 cu. yds. class A concrete;
 (3) 458 cu. yds. class D concrete;
 (4) 201,000 lbs. reinf. steel;
 (5) 991 ft. wood guard rail.

	(1)	(2)	(3)	(4)	(5)	Totals
Whiting Bros.	\$1.00	\$20.00	\$22.00	\$0.05	\$1.00	\$37,202.00
Wickes Engineering & Construction Co.	1.50	18.00	25.40	.05	1.10	38,176.80
Lewis Bros. & Olds Bros. Lbr. Co.	1.20	22.00	23.00	.0475	1.00	38,920.50
Dell E. Webb Construction Co.	1.50	20.50	20.50	.06	1.00	39,661.00
Vinson, Pringle & Royden	1.50	27.00	27.00	.06	1.25	47,611.25
H. J. Hagen	4.00	32.00	33.00	.07	1.50	60,114.50
Engineer's Estimate	1.50	27.00	29.00	.05	1.25	46,517.25

Petrified Forest National Monument, Route 1, Section B-1, overpass.

The work involves:

- (1) 200 cu. yds. excav. unclass. for struc.;
- (2) 284 cu. yds. class A concrete;
- (3) 122 cu. yds. class D concrete;
- (4) 37,000 lbs. reinf. steel;
- (5) 49,000 lbs. struc. steel;
- (6) 226.5 lin. ft. steel hand rail.

	(1)	(2)	(3)	(4)	(5)	(6)	Totals
Dell E. Webb Construction Co.	\$1.50	\$20.50	\$20.50	\$0.06	\$0.075	\$3.75	\$5,367.37
Milton C. Shedd	1.00	20.00	22.00	.051	.085	4.00	15,522.00
Wickes Engineering & Construction Co.	1.50	24.00	24.00	.05	.055	6.00	15,948.00
Whiting Bros.	1.50	31.00	33.00	.05	.06	3.00	18,599.50
Lewis Bros. & Olds Bros. Lbr. Co.	4.00	28.00	29.00	.07	.08	4.00	19,706.00
Vinson, Pringle & Royden	1.15	34.00	34.00	.066	.067	3.60	20,574.40
H. J. Hagen	3.00	31.00	32.50	.07	.08	3.50	20,671.75
Engineer's Estimate	1.50	27.00	29.00	.05	.065	4.00	17,447.00

Petrified Forest National Monument, Routes 1 and 2, Sec. 1-A, bridges; 1-E1, overpass, and all of Route 2, bridges.

The work involves:

- (1) 1745 cu. yds. excav. unclass for struc.;
- (2) 1011 cu. yds. class A concrete;
- (3) 580 cu. yds. class D concrete;
- (4) 238,000 lbs. reinf. steel;
- (5) 49,000 lbs. struc. steel;
- (6) 226.5 lin. ft. steel hand rail;
- (7) 991 lin. ft. wood guard rail.

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	Totals
Wickes Engineering & Construction Co.	\$1.50	\$19.50	\$25.00	\$0.05	\$0.055	\$6.00	\$1.10	\$53,876.10
Dell E. Webb Construction Co.	1.50	20.50	20.50	.06	.075	3.75	1.00	55,028.37
Lewis Bros. & Olds Bros. Lbr. Co.	1.30	23.00	23.00	.0475	.07	4.00	1.00	55,493.50
Whiting Bros.	1.10	23.00	24.00	.05	.06	3.00	1.00	55,603.00
Vinson, Pringle & Royden	1.40	27.50	27.50	.055	.06	3.30	1.25	64,211.70
Engineer's Estimate	1.50	27.00	29.00	.05	.065	4.00	1.25	63,964.25

ENGINEERING NEWS

(Continued from Page 25)

BIDS WANTED

SAN RAFAEL, Cal.—Until October 16, 11:30 A. M., (previously reported) bids will be received by Capt. Leander Larson, Constructing Quartermaster, Hamilton Field, Marin County, Cal., for the construction of Post Roads, curbs and catchbasins. The work involves:

- (1) 18,689 cu. yds. excav;
- (2) 16,458 cu. yds. embankment;
- (3) 8570 cu. yds. C. R. base in place
- (4) 42,120 sq. yds. 2 1/2-in. A. C. pave;
- (5) 7955 lin. ft. 18x6-in. curb;
- (6) 7930 lin. ft. 12x6-in. curb;
- (7) 16,715 lin. ft. curb gutter;
- (8) 48 each catchbasins;
- (9) 524 lin. ft. 12-in. corru. pipe in place;
- (10) 779 lin. ft. 8-in. do;
- (11) 45 lin. ft. 12-in. 1 C. pipe in place
- (12) 1850 lin. ft. 8-in. do;
- (13) 21 each head wats;
- (14) 21,060 gals. MC-1 rd. oil in place
- (15) 1900 sq. yds. P.C.C. pave. in place

Plans and specifications obtainable at above office upon deposit of \$5. Plans also on file at the offices of the Builders' Exchange, San Francisco. Constructing Quartermaster, Fort Mason

BIDS WANTED

OAKLAND, Cal.—Until October 9, 4:30 P. M., bids will be received by the Board of Port Commissioners, Grove Street Pier, Oakland, for asphalt pavement on apron wharf of 329 feet northerly extension to outer harbor terminal wharf, involving furnishing and placing 110 tons base and 210 tons topping. Specifications obtainable from the Commission. A. H. Abel, Secretary, on deposit of \$5.

BIDS WANTED

SANTA CLARA COUNTY, Cal.—Until October 16, 11 A. M., bids will be received by Santa Clara County Board of Supervisors for the improvement of Taylor street from the westerly line of Nineteenth street to Maturity Road, in the city of San Jose. The contract involves 67,143 sq. ft. of asphaltic concrete. Specifications obtainable from the office of Henry A. Pfister, Clerk of the Board, upon a deposit of \$1.

AWARD

PLACER AND NEVADA COS., Cal.—A. Teichert & Son, P. O. Box 1118, Sacramento, at \$237,203 awarded contract by State Highway Commission to grade and surface with crusher run base and bituminous treated crushed gravel or stone, 4.2 mi. between Drum Canal and Rt. 37 near Yuba Pass.

AWARD

DEL NORTE COUNTY, Cal. — Youdall Construction Co. and Chas. Harle, Jr., 215 Market St., San Francisco, at \$678,799 awarded contract by State Highway Commission to grade and surface with crusher run base and untreated crushed gravel or stone surfacing 9.5 miles between Last Chance Slide and Flannigans.

BIDS OPENED

COCONINO COUNTY, Ariz.—Had-dock & Lindberg, Pasadena, Calif., at \$42,447 submitted low bid to U. S. Bureau of Public Roads, 802 Title and Trust Bldg., Phoenix, Ariz., for grading 2.947 mi. Section H of Route 7, Oak Creek National Forest Highway, Coconino National Forest, Ariz. Skousen Bros., Mesa, Ariz., submitted second low bid at \$49,930; H. J. Hagen, Globe, Ariz., third at \$50,682; Engineer's estimate, \$42,341. Low bidder recommended for award.

(Continued on Page 29)

NYE COUNTY, NEV.—HIGHWAY CONSTR.—(STATE)

NYE COUNTY, Nevada—As previously reported, Dodge Construction Co., Inc., Fallon, Nevada, at \$43,068.80 awarded contract by Nevada State Highway Commission to construct 10.92 mi. of state highway in Nye County, between 33 mi. and 22 mi. south of Beatty, Route 5, Section D-2-EL, involving:

- (1) 28,100 cu. yds. rdwy. excav;
- (2) 5605 sta. yds. overhaul;
- (3) 535 cu. yds. structure ex.;
- (4) 10.92 mi. subgrade;
- (5) 26,900 cu. yds. crushed gravel or stone surface;
- (6) 59 cu. yds. Class B concrete;
- (7) 1,470 lbs. reinf. steel;

- (8) 298 lin. ft. 18-in. corr. metal pipe;
- (9) 336 lin. ft. 24-in. corr. metal pipe;
- (10) 146 lin. ft. 30-in. corr. metal pipe;
- (11) 196 lin. ft. 36-in. corr. metal pipe;
- (12) 26 right-of-way monuments;
- (13) 10.92 mi. finish roadway.

Complete bids follow:

- (A) Dodge Constr. Co., Inc., Fallon, \$43,068.80.
- (B) Utah Constr. Co., Ogden, Utah, \$49,477.70.
- (C) Wheelwright Constr. Co., Ogden, Utah, \$49,840.25.
- (D) M. J. Bevanda, Stockton, \$53,444.75
- (E) Engineer's Estimate, \$36,019.60.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)
(1).....	\$.40	\$.36	\$.48	\$.60	\$.35
(2).....	.04	.04	.05	.03	.02
(3).....	1.00	1.00	2.00	1.00	1.00
(4).....	100.00	125.00	200.00	150.00	100.00
(5).....	.85	1.12	.93	1.02	.70
(6).....	35.00	33.00	30.00	30.00	28.00
(7).....	.08	.10	.10	.08	.10
(8).....	2.25	2.50	2.00	2.00	1.50
(9).....	2.75	3.25	3.00	2.75	2.50
(10).....	3.25	3.75	4.00	3.50	3.25
(11).....	5.00	5.00	6.00	5.00	3.75
(12).....	3.00	3.50	6.00	4.00	3.00
(13).....	150.00	125.00	200.00	150.00	100.00

GILA COUNTY, ARIZONA — GRADING — GOVT.

GILA COUNTY, Ariz.—Geo. Rowland, 113 E. 69th St., Los Angeles, submitted low bid to the Bureau of Public Roads, 802 Title and Trust Bldg., Phoenix, Ariz., September 26, at \$42,782.45 for grading 5.247 miles Section A of Route 11, the Payson-Colcord Mountain National Forest Highway, Tonto National Forest, Gila County, Ariz., involving:

- (1) 20 acres clearing;
- (2) 39,000 cu. yds. unclass. excav.;
- (3) 460 cu. yds. unclass. excav. for struc.;

- (4) 2000 sta. yds. overhaul;
- (5) 5.247 mi. finishing earth gr. rd.;
- (6) 1106 lin. ft. 18-in. C.M.P. in place;
- (7) 114 lin. ft. 24-in. C.M.P. in place;
- (8) 53 lin. ft. 30-in. C.M.P. in place;
- (9) 328 lin. ft. 36-in. C.M.P. in place;
- (10) 416 lin. ft. 60-in. C.M.P. in place.

The bids follow:

- (A) Geo. Rowland, \$42,782.45.
- (B) All-Arizona Engineering & Construction Co., \$49,764.15.
- (C) Leo Frost, \$51,174.75.
- (D) Engineer's Estimate, \$35,504.55.

Unit prices follow:

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
(A)	\$125.00	\$.77	\$1.90	\$1.00	\$150.00	\$2.00	\$2.60	\$3.50	\$5.00	\$10.00
(B)	175.00	.88	2.50	.05	150.00	2.00	2.85	3.90	5.80	12.60
(C)	200.00	.95	2.00	.05	150.00	1.60	2.25	3.00	4.70	11.00
(D)	100.00	.60	1.75	.04	150.00	1.75	2.25	3.25	4.50	11.00

BRASS FITTINGS (City)

BIDS RECEIVED

SAN FRANCISCO, Cal.—The following bids received by T. A. Brooks, city purchasing agent, Room 251 City Hall, to furnish brass fittings for S. F. Water Department:

- (1) 20 only 2-in. corp. cocks, price without lead flange thread;

- (2) 20 only 1 1/2-in. corp. cocks without lead flange thread;
- (3) 1000 only 3/4-in. AA corp. cocks (brass) with nuts and tail pieces;
- (4) 1000 only 3/4-in. lead and iron unions (brass for AA lead);
- (5) 50 only 3/8-in. curb stop cocks for 3/4-in. pipe and 1/2 AA lead with nuts and tail pieces.

	(1)	(2)	(3)	(4)	(5)
(A) Crane Co.	\$3.53	\$2.23	\$.74	\$.31	\$.92
(B) Hayes Manufacturing Co.....	3.32	2.04			
(C) United Pipe & Supply Co.....	3.73	2.45	.76	.31	.73
(D) Civic Pipe Co.....	3.46	2.28			
(E) Richmond Sanitary Co.....	3.53	2.23	.74	.31	.92
(F) P. E. O'Hair & Co.....	3.32	2.04			
(G) Meyer Co.	3.53	2.23	.74	.31	.92
(H) M. Greenberg & Sons	3.32	2.04			
(I) James-Jones Co.	3.85	2.60	.83	.37	.98
(J) Tay-Holbrook, Inc.	3.75	2.35			
	3.53	2.23	.74	.31	.92
	3.32	2.04			
	3.53	2.23	.74	.31	.92
	3.32	2.04			

ENGINEERING NEWS

(Continued from Page 28)

CONTRACT AWARDED

MODOC COUNTY, Cal.—Larsen Bros., 5220 Twenty-first Ave., Sacramento, at \$64,070.60 awarded contract by U. S. Bureau of Public Roads, San Francisco, to grade Section B, Rt. 11, the Lava Beds National Forest Highway, Modoc National Forest.

BIDS WANTED

SAN RAFAEL, Cal.—Until October 16, 11 A. M., (previously reported), bids will be received by Constructing Quartermaster, Hamilton Field, Marin County, Calif., for construction of extensions to (1) Sanitary and Storm Sewer System, (2) Gas Mains and Laterals, (3) Water Distribution System. The principal items are:

SANITARY AND STORM SEWER

- (1) 800 12-in. vit. clay pipe;
- (2) 3300 10-in. vit. clay pipe;
- (3) 1700 8-in. vit. clay pipe;
- (4) 10,700 6-in. vit. clay pipe;
- (5) 275 4-in. vit. clay pipe;
- (6) 50 manholes (complete);
- (7) 5100 cu. yds. excav.;
- (8) 1490 15-in. terra cotta pipe;
- (9) 300 18-in. terra cotta pipe;
- (10) 450 24-in. terra cotta pipe;
- (11) 559 27-in. terra cotta pipe;
- (12) 3 manholes (complete);
- (13) 950 cu. yds. excav.;

GAS DISTRIBUTION

- (1) 6100 3-in. seamless steel pipe;
- (2) 2700 2-in. seamless steel pipe;
- (3) 550 1 1/4-in. seamless steel pipe;
- (4) 4000 3/4-in. seamless steel pipe;
- (5) 8 3-in. valves;
- (6) 20 2-in. valves;
- (7) 2 1 1/4-in. valves;
- (8) 100 3/4-in. valves;
- (9) 1 blow-off;
- (10) 126 tinned steel L.P. meter;
- (11) 1 20B do;
- (12) 8 30B iron case;
- (13) 6 60B iron case;
- (14) 126 1H Reliance regulator;
- (15) 12 lin. Neilan regulator;

WATER SYSTEM

- (1) 400 2-in. gals. W. I. pipe;
- (2) 600 3-in. cast iron pipe;
- (3) 5000 4-in. cast iron pipe;
- (4) 500 6-in. cast iron pipe;
- (5) 10,000 8-in. cast iron pipe;
- (6) 22 fire hydrants;
- (7) 2 3-in. valves;
- (8) 15 4-in. valves;
- (9) 2 6-in. valves;
- (10) 11 8-in. valves;
- (11) 1 air relief valve;
- (12) 60 1 1/4-in. Corporation cocks;
- (13) 4009 1 1/4-in. gals. W. I. pipe (service connections);
- (14) 60 1 1/4-in. shut-off valves.

Plans and specifications obtainable at above office, Capt. Leander Larsen, Constructing Quartermaster, upon deposit of \$5. Plans also on file at the offices of the Builders' Exchange, San Francisco, Constructing Quartermaster, Fort Mason.

33— WATER WORKS

BIDS WANTED

FORT LEWIS, Wash.—Until October 9, at 11 a. m., bids will be received by War Department, Office of the Constructing Quartermaster, Fort Lewis, Wash., under Specification No. 6105-1 for furnishing and laying cast iron water mains.

Specifications obtainable from above, Capt. R. A. Blair, Constructing Quartermaster.

BONDS VOTED

MORGAN HILL, Santa Clara Co., Cal.—A bond issue for \$34,000 to finance reconstruction and extension of the Morgan Hill water system was carried by a vote of 254 to 70 at a special election. Work to be done will cost approximately \$45,000. It is estimated, including 34,000 lin. ft. pipe (Continued on Page 30)

SHASTA COUNTY — GRADE AND SURF. — STATE

SHASTA COUNTY, Cal.—A. Teichert & Son, P. O. Box 1118, Sacramento, at \$123,785 submitted low bid to State Highway Commission, Sacramento, to grade and surface a total length of 15.9 miles in Shasta County between Diddy Hill and Montgomery Creek, about 1.5 miles to be graded, about 12.9 miles to be surfaced with crusher run base and bituminous seal coat to be applied to the surfacing over the entire project, involving:

- (1) 86,000 cu. yds. rdwy. excav. without classification;
- (2) 500,000 st. yds. overhaul;
- (3) 1000 cu. yds. struc. excav.;
- (4) 40,100 tons crusher run base;
- (5) 2900 tons screenings;
- (6) 235 tons asphaltic road oil;
- (7) 5 cu. yds. Class A Port. cem. conc structures;
- (8) 250 lbs. bar reinf. steel struc.;
- (9) 406 lin. ft. 18-in. corr. metal pipe, 16 gauge;
- (10) 86 lin. ft. 36-in. do, 12 ga.;
- (11) 110 lin. ft. 60-in. do, 10 ga.;
- (12) 94 lin. ft. 66-in. do, 10 ga.;

- (13) 2300 M. gals. water;
- (14) 1075 bbls. fuel oil;
- (15) 75 cu. yds. rubble masonry;
- (16) 775 sta. finish rdwy.;
- (17) 32 each monuments complete in place.

Complete bids follow:

- (A) A. Teichert & Son, Sacramento, \$123,785.
- (B) Hein Bros. Basalt Rock Co., Petaluma, \$124,797.
- (C) Hemstreet & Bell, Marysville, \$126,954.40.
- (D) Fredrickson & Watson, Oakland, \$133,128.10.
- (E) E. B. Bishop, Sacramento, \$145,853.
- (F) M. J. Bevanda, Stockton, \$161,772.60.
- (G) Isbell Construction Co., Carson City, Nev., \$171,954.60.
- (H) Heafy Moore Co., Oakland, \$172,496.
- (I) Union Pavement Co., San Francisco, \$181,977.

Unit prices follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
(1)	\$.48	\$.47	\$.43	\$.48	\$.57	\$.78	\$.58	\$.60	\$.75
(2)	.005	.005	.005	.005	.01	.01	.01	.005	.02
(3)	1.25	1.25	1.50	1.00	1.00	2.00	1.00	1.00	1.50
(4)	1.24	1.40	1.40	1.57	1.55	1.60	2.10	2.20	2.95
(5)	2.95	5.55	3.50	1.80	3.00	2.00	3.50	3.00	2.10
(6)	27.50	20.50	25.00	25.00	22.00	20.00	24.00	22.50	18.00
(7)	25.00	25.00	35.00	30.00	35.00	50.00	40.00	25.00	35.00
(8)	.07	.06	.08	.07	.10	.05	.10	10.00	.98
(9)	1.75	2.00	1.65	1.60	1.50	1.85	2.10	1.75	2.75
(10)	5.00	4.50	5.00	5.00	5.00	5.00	5.20	5.00	5.00
(11)	11.00	9.25	15.00	10.00	10.00	5.50	10.30	9.00	9.50
(12)	12.50	10.50	16.50	12.00	12.00	12.00	11.45	10.50	10.50
(13)	1.25	1.25	1.25	1.25	1.50	.50	1.50	1.00	.50
(14)	3.00	2.45	2.90	3.00	2.60	2.60	3.50	3.00	2.10
(15)	14.00	12.50	12.00	10.00	15.00	20.00	15.00	20.00	10.00
(16)	4.00	3.00	3.00	5.00	5.00	5.00	5.00	3.00	7.00
(17)	3.00	5.00	3.00	3.00	3.00	3.00	4.00	3.00	3.00

PINE CANYON RESERVOIR — TUNNEL LINING — CITY

PASADENA, Cal.—Kemper Construction Co., Ltd., 3701 Overland Ave., Los Angeles (Culver City 4352) at \$43,584.40 submitted low bid to the Pasadena City Board of Directors, for driving 1625 ft. of small tunnels, lining same with concrete, and constructing 850 ft. of steel and concrete syphon, at the Pine Canyon Reservoir site, in accordance with plans prepared by Samuel B. Morris, Chief Engineer, involving:

- (1) 2000 cu. yds. excav. for tunnels, A, F, H and I;
- (2) 130 cu. yds. excav. for struc. B;
- (3) 1500 cu. yds. excav. for strucs., C, D, E and G;
- (4) 400 cu. yds. conc. lining of walls and floors of tunnel A, F, H and I;
- (4a) 400 cu. yds. Guniting of walls and floors of tunnel A, F, H, and I; (alt. to item 4);
- (4b) 500 sacks Guniting in floors, walls or roof of tunnels in special thickness at option of city;
- (5) 150 cu. yds. conc. or Guniting lining of roof of tunnels A, F, H and I;

- (6) 85 cu. yds. concr. for structures, C, D, E and G;
- (7) 45 cu. yds. concrete for struc. B;
- (8) 10 M. B. M. furnishing and installing tunnel timbering;
- (9) 4000 sacks furnishing Portland cement;
- (10) 15,000 lbs. furnishing and installing reinf. steel;
- (11) 220 lin. ft. erecting 54-in. steel pipe at structure E;
- (12) 240 lin. ft. erecting 54-in. steel pipe at structures G and E;
- (13) 25 joints, welding and painting field joints of 54-in. steel pipe;
- (14) 412 lin. ft. installing 54-in. conc. pipe for structures C and D;

Complete bids follow:

- (A) Kemper Constr. Co., Ltd., \$43,584.40.
- (B) Emsco Co., \$46,472.
- (C) George Hess, \$47,572.25.
- (D) Morrison-Knudsen Co., \$49,473.
- (E) Geo. K. Thompson, \$49,541.
- (F) J. C. Hickey, \$53,713.
- (G) Contracting Engrs. Inc., \$64,520.

Unit prices follow:
60 \$4

	(1)	(2)	(3)	(4)	(4 A)	(4 B)	(5)	(6)
(A)....	\$19,000.00	432.90	\$3399.00	\$6800.00	\$ 6120.00	\$ 875.00	\$3225.00	\$1243.55
(B)....	18,400.00	260.00	3600.00	.....	6,600.00	925.00	3000.00	2550.00
(C)....	22,580.00	276.90	5800.00	6000.00	10,664.00	1665.00	2550.00	1360.00
(D)....	23,000.00	390.00	4500.00	8000.00	8,000.00	300.00	3000.00	1530.00
(E)....	27,500.00	390.00	4500.00	5400.00	4,800.00	875.00	2700.00	2125.00
(F)....	18,200.00	650.00	7500.00	10000.00	10,000.00	1575.00	3750.00	2125.00
(G)....	28,000.00	780.00	8700.00	7280.00	9,600.00	1500.00	4800.00	1530.00

	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
(A)....	731.50	800.00	2800.00	750.00	585.20	1152.00	831.25	1648.00
(B)....	1350.00	900.00	2800.00	795.00	660.00	960.00	11000.00	2572.00
(C)....	594.00	933.30	2720.00	900.00	292.00	319.20	933.25	1648.00
(D)....	810.00	1000.00	2600.00	900.00	660.00	260.00	175.00	1648.00
(E)....	675.00	1000.00	3000.00	750.00	440.00	480.00	100.00	206.00
(F)....	1125.00	400.00	3000.00	1050.00	880.00	960.00	850.00	1648.00
(G)....	540.00	1000.00	4000.00	1125.00	660.00	1920.00	625.00	2060.00

ENGINEERING NEWS

(Continued from Page 29)

line, 150,000 gal. reservoir, pumping plant and hydrants. An application is to be made to the Public Works Administration for a grant of \$11,000 to complete the financing. C. C. Kennedy, Call Bldg., San Francisco, is consulting engineer.

34—PARKS AND PLAY-GROUNDS

PLANNED

MODESTO, Stanislaus Co., Cal.—Park Commissioner Geo. F. Neese has submitted plans to the City Council for a clubhouse with showers, soft drink stand and fireplace at the municipal golf course.

A building formerly used as an administration office at the municipal airport, site of the links, would be remodeled and added to, thus forming the clubhouse.

Plan also calls for driveway approaches to the clubhouse and considerable landscaping.

Estimated cost \$2475.

BIDS OPENED

OAKLAND, Alameda Co., Cal.—Following bids received by Board of Playground Directors, R. W. Robertson, secretary, for surfacing tennis courts to be constructed at Athol Plaza:

- (A) P. M. Henning, Oakland.
- (B) Lee J. Immel, Oakland.
- (C) J. H. Fitzmaurice, Oakland.
- (D) Ransome Co., Oakland.
- (E) W. H. Larson, Oakland.

Type of Surfacing	(1)	(2)	(3)	(4)
(A)	\$1483	\$1632	.....	.....
(B) .....	.....	1833	.....	.....
(C)	1577	1745	.....	.....
(D)	1625	.....	.....	.....
(E)	1908	1782	1750	1644

Bids held under advisement until October 17.

BIDS OPENED

OAKLAND, Alameda Co., Cal.—Eight identical bids at \$1776 received by Board of Playground Directors, R. W. Robertson, secretary, for fencing tennis courts to be constructed at Athol Plaza. Bids taken under advisement until October 17. Following firms submitted bids: Pacific Coast Fence Co., Ralph W. Waterhouse, Maxwell Hardware Co., West Coast Wire and Iron Works, Standard Fence Co., Western Steel and Wire Co., Geo. H. Trask, California Ornamental Iron and Fence Co.

31—PIPE LINES & WELLS

BIDS WANTED

ALAMEDA, Alameda Co., Cal.—Until October 17, at 8 p. m., bids will be received by Alameda City Council for boring a 10-inch well, approximately 300 feet deep, at Franklin Park.

Specifications on file with City Clerk D. Elmer Dyer, City Hall, and may be procured upon application.

32—SEWERS & SEWAGE DISPOSAL PLANTS

AWARD

SPADRA, Los Angeles Co., Cal.—Marko Mauck, 1426 W. Fifty-first St., Los Angeles, at \$12,777 awarded contract by State Architect George B. McDougall, Sacramento, to complete sewer pumping line, Pacific Colony, Spadra. The contract is for installing piping to connect Pacific Colony sewer system with City of Pomona sewer system.

(Continued on Page 31)

BLYTHE-WICKENBURG — GRADING — ARIZ. STATE

ARIZONA STATE.—Packard & Tanner, 737 W. Latham St., Phoenix, Ariz., were awarded the contract by the Arizona State Highway Commission, Phoenix, Ariz., Sept. 27, at \$247,518.51, using alternate, for highway construction on NRH 98-D, Blythe-Wickenburg Highway. The work on NRH 98-D begins approximately two-thirds of a mile west of Salome and extends northwest approximately 18.7 miles and consists of the grading and draining only.

NRH-98-D ROADWAY

- (1) 9724 cu. yds. roadway excav. (unclass);
- (2) 50,699 cu. yds. drainage excav. (unclass);
- (3) 2165 cu. yds. struct. excav. (unclass);
- (4) 165,811 cu. yds. borrow excav. (unclass);
- (5) 11,148 sta. yds. earthwork over-haul;
- (6) 3507 cu. yds. selected material;
- (7) 8911 cu. yds. ml. selected material haul;
- (8) 240 M. gals. sprinkling (CIP);
- (9) 841 cu. yds. class A concr. (incl. cement);
- (10) 67,022 lbs. reinf. steel (bars) (CIP);
- (11) 192 lin. ft. C.M.P. (CIP, incl. bands);
- (12) 96 lin. ft. 30-in. do;
- (13) 800 lin. ft. 36-in. do;
- (14) 3 each, cattle guard, type B;
- (15) 2800 lin. ft. cable road guard, type A (CIP);
- (16) 154,390 lin. ft. standard line fence (CIP);
- (17) 2630 lin. ft. reconstr. fence (CIP);
- (18) 120 each right-of-way markers (CIP);

STRUCTURES OVER 20-FT. CLEAR SPAN

- (19) 16,546 cu. yds. drainage excav. (unclass);
- (20) 6301 cu. yds. structural excav. (unclass);

- (21) 41 cu. yds. class AA concr. (incl. cement);
 - (22) 3873 cu. yds. class A concr. (incl. cement);
 - (23) 98 cu. yds. class B concr. (incl. cement);
 - (24) 396,515 lbs. reinf. steel (bars) (CIP);
 - (25) 252,470 lbs. structural steel (exc. of H-column piles) (CIP);
 - (26) 229.3 M.B.M. treated timber (CIP);
 - (27) 13.2 M.B.M. untreated timber (CIP);
 - (28) 876 lin. ft. treated piling in timber bents (CIP);
 - (29) 3072 lin. ft. timber piles (treated)
 - (30) 50 lin. ft. treated timber piles cutoff;
 - (31) 1700 lin. ft. steel H-column piles (CIP);
 - (32) 144 each pile points (CIP);
 - (33) 4 each rail test piles (CIP);
 - (34) 15 each water barrels (CIP);
 - (35) 9 cu. yds. screenings (CIP);
 - (36) 2 tons emulsified asphalt;
 - (37) 1, lump sum, removal of old piers and abutments;
 - (38) 150 cu. yds. leveling approaches of structures;
- ALTERNATE—In Lieu of Item No. 5 (15a) 2800 lin. ft. steel plate road guard, type C (CIP).

STRUCTURES OVER 20-FT. CLEAR SPAN

ALTERNATE

- (26a) 255.6 M.B.M. redwood timber (CIP).

The total bids were:

- (A) Packard & Tanner, \$247,238.51; alternate, \$251,320.51;
 - (B) Orr & Rawls, Phoenix, \$285,874.72 alternate \$286,325.12.
 - (C) Pleasant - Hasler Constr. Co., Phoenix, \$288,498.40; alternate, \$290,136.72.
 - (D) Phoenix-Tempe Stone Co., Phoenix, \$309,196.90; alternate, \$313,688.40.
 - (E) J. E. Haddock, Pasadena, Calif., \$374,731.12; alternate, \$376,412.82
- The unit bids follow:

	(A)	(B)	(C)	(D)	(E)
(1).....	\$.30	\$.30	\$.32	\$.35	\$.37
(2).....	.28	.30	.27	.35	.27
(3).....	.90	.95	.90	.75	2.00
(4).....	.21	.25	.23	.35	.32
(5).....	.05	.04	.05	.10	.15
(6).....	.25	.75	.50	.30	.90
(7).....	.13	.35	.20	.20	.60
(8).....	2.75	5.00	4.50	4.50	5.00
(9).....	18.50	22.50	24.00	24.00	31.50
(10).....	.045	.05	.055	.05	.07
(11).....	2.85	2.65	2.50	3.00	3.00
(12).....	3.45	3.35	3.75	4.00	4.00
(13).....	5.75	5.00	5.50	5.00	6.00
(14).....	400.00	466.00	400.00	500.00	650.00
(15).....	.90	.80	.85	.80	.90
(16).....	.07	.07	.07	.08	.105
(17).....	.07	.07	.07	.08	.09
(18).....	2.50	3.50	3.00	3.00	3.50
(19).....	.28	.30	.27	.35	.27
(20).....	.90	.95	.90	.75	2.00
(21).....	70.00	80.00	90.00	80.00	100.00
(22).....	18.50	22.50	24.00	23.00	31.50
(23).....	18.50	23.00	24.00	22.00	26.00
(24).....	.045	.05	.055	.05	.07
(25).....	.06	.06	.068	.065	.075
(26).....	80.00	100.00	93.00	105.00	707.00
(27).....	65.00	88.00	93.00	105.00	107.00
(28).....	1.50	1.00	1.30	.90	1.33
(29).....	1.50	1.40	1.30	1.20	1.20
(30).....	1.125	1.05	.975	.90	.90
(31).....	2.75	2.95	2.50	2.50	2.65
(32).....	1.50	1.20	1.50	2.00	2.00
(33).....	60.00	45.00	50.00	100.00	45.00
(34).....	7.00	11.00	10.00	15.00	20.00
(35).....	5.00	4.00	10.00	8.00	6.00
(36).....	75.00	125.00	50.00	50.00	30.00
(37).....	400.00	350.00	750.00	750.00	650.00
(38).....	.20	.20	.40	.50	.60
(15a).....	1.00	1.00	1.00	1.00	1.00
(26a).....	90.00	95.00	93.00	115.00	107.00

The bids were opened Sept. 26.

ENGINEERING NEWS

(Continued from Page 30)

BIDS WANTED

SAN RAFAEL, Marin Co., Cal.—Until October 16, 11 a. m., bids will be received at the War Department, Office of the Constructing Quartermaster, Hamilton Field, San Rafael, for the construction of extension to sanitary sewer system and storm drainage system, gas distribution system and water distribution system at Hamilton Field. Plans and specifications obtainable upon deposit of \$5 and on file at the office of the Constructing Quartermaster, Fort Mason, San Francisco, or the Builders' Exchange, San Francisco.

CONTRACT AWARDED

BERKELEY, Cal.—Lee J. Immel, 1031 Evelyn Ave., Berkeley, at \$1017.68 awarded contract to construct Milvia street sewer extension 440 ft. southerly from Eunice street, involving:

- (1) 440 lin. ft. 15-in. sewer pipe; (alternate bids to be taken on vitrified clay and concrete pipe)
- (2) 90 lin. ft. 10-in. sewer pipe (alternate bids to be taken on vitrified clay and concrete pipe);
- (3) 2 manholes.

Complete bids follow:

- (A) Lee J. Immel, Berkeley, \$1017.68.
- (B) Davis & Serrabee, \$1029.
- (C) W. J. Tobin, \$1438.10.
- (D) Oakland Sewer Construction Co., \$1455.40.

Unit prices follow:

	(A)	(B)	(C)	(D)
(1).....	\$ 1.747	\$ 1.80	\$ 2.82	\$ 2.88
(2).....	1.70	1.30	1.57	.98
(3).....	48.00	60.00	44.00	50.00

(C) bid on vitrified pipe.

BIDS OPENED

SAN FRANCISCO—Eaton & Smith, 715 Ocean Ave., San Francisco, at \$981.80 submitted only bid to Wm. H. Worden, Department of Public Works, Director, Room 251, City Hall, to improve Gaven street, between Barneveld Ave. and Merrill St. Work includes construction of armored concrete curbs, side sewers and laying 2-in. asphaltic concrete wearing surface and a 6-in. Class F concrete base.

Unit prices follow:

- (1) 100 ft. armored conc. curb.....\$.01
- (2) 80 ft. 6-in. side sewer..... .01
- (3) 2000 sq. ft. asph. conc. pave..... .49

BIDS OPENED

GLENDALE, Cal.—Geo. R. Curtis Paving Co., 2440 E. 26th St., Vernon, submitted low bid to the Glendale City Council at 14,958.20 for improving Victory Blvd., between Justin Ave. and northwest city limits, under cash contract, involving:

- (1) 3100 ft. class B curb;
- (2) 7550 sq. ft. 6-in. conc. gutter;
- (3) 114,000 sq. ft. 4-in. asph. conc. base;
- (4) 181,800 sq. ft. 2-in. asph. concrete wear. surf.;
- (5) 5500 sq. ft. wearing surface variable thickness.

Complete bids follow:

- (A) Geo. R. Curtis Paving Co., \$14,958.20.
- (B) Southwest Paving Co., \$15,311.10.
- (C) Griffith Co., 15,541.25.
- (D) P. J. Akmadzich, \$16,672.10.
- (E) Heuser & Garnett, \$17,975.75.
- (F) Ghhbons & Reed, \$20,211.93.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)
(1)....	\$.30	\$.32	\$.37	\$.36	\$.32	\$.405
(2)....	.15	.18	.16	.19	.16	.225
(3)....	.063	.061	.065	.067	.08	.076
(4)....	.03	.031	.03	.034	.035	.045
(5)....	.02	.04	.03	.025	.02	.04

COCONINO COUNTY, ARIZ.—BASE COURSE—GOVT.

COCONINO CO., Ariz.—New Mexico Construction Co., Albuquerque, submitted low bid to C. H. Sweetser, District Engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco, to place crushed gravel base course on Fredonia-Houserock Valley National Forest Highway, Kaibab National Forest.

Complete bids follow:

- (A) New Mexico Construction Co., Inc., Albuquerque, \$124,118.
- (B) Wheelwright Construction Co., Ogden, and J. W. Whiting, Springville, \$144,948.

(C) Haddock & Lindberg, Pasadena, \$149,928.

(D) J. A. Casson, Hayward, \$161,534.

(E) Olof Nelson, Logan, Utah, \$171,650.

(F) Engineer's estimate, \$155,176.

- (1) 50 cu. yds. unclass. excav.;
 - (2) 28,920-ml. fine grade, subgrade and shoulders;
 - (3) 82,000 tons crushed gravel base course;
 - (4) 4000 tons supp. crushed gravel;
 - (5) 30 cu. yds. cem. rubble masonry.
- Unit prices follow:

	(A)	(B)	(C)	(D)	(E)	(F)
(1).....	\$.60	\$ 2.00	\$ 2.00	\$ 1.00	\$ 5.00	\$ 2.00
(2).....	150.00	400.00	400.00	200.00	500.00	300.00
(3).....	1.39	1.54	1.60	1.80	1.82	1.70
(4).....	1.30	1.54	1.60	1.80	1.70	1.60
(5).....	19.00	28.00	22.00	30.00	30.00	20.00

BLYTHE - WICKENBURG—HIGHWAY CONST.—STATE

ARIZONA STATE—As previously reported, Packard & Tanner, 737 W. Latham St., Phoenix, Ariz., at \$119,252.22 awarded contract by the Arizona Highway Commission, Sept. 27, for highway construction on N.R.H. 58-C, Blythe-Wickenburg Highway. The project begins at the county line and extends easterly 10.8 miles, involving:

- (1) 12,489 cu. yds. rdwy. excav. unclass.;
- (2) 42,473 cu. yds. drainage excav. unclass.;
- (3) 1999 cu. yds. struc. excav. do.;
- (4) 78,782 cu. yds. borrow excav. unclass.;
- (5) 1300 sta. yds. earthwork overhaul, unclass.;
- (6) 4860 cu. yds. selected borrow unclass.;
- (7) 6291 cu. yds. selected borrow haul.;
- (8) 142 M. gal. sprinkling CIP.;
- (9) 917 cu. yds. class A conc. incl. cement.;
- (10) 77,290 lbs. reinf. steel bars CIP.;
- (11) 160 lin. ft. 30-in. CMP (CIP) incl. bands.;
- (12) 772 lin. ft. 36-in. CMP (CIP) incl. bands.;
- (13) 2 each cattle guards, type B.;
- (14) 96,150 lin. ft. stand. line fence CIP.;
- (15) 5997 lin. ft. reconstr. fence CIP.;
- (16) 60 each right-of-way markers, CIP.;

STRUCTURES OVER 20 FT. CLEAR SPAN

- (17) 6885 cu. yds. drainage excav. unclass.;
- (18) 1688 cu. yds. struc. excav. unclass.;
- (19) 1289 cu. yds. class A conc. incl. cement.;
- (20) 129,920 lbs. reinf. steel bars CIP.;
- (21) 82 MBM treated timber CIP.;
- (22) 5 MBM untreated timber CIP.;
- (23) 1152 lin. ft. treat. timber piles CIP.;
- (24) 50 lin. ft. treat. timber piles cutoff.;
- (25) 72 each pile points CIP.;
- (26) 7 each water barrels CIP.;
- (27) 4 cu. yds. screenings CIP.;
- (28) 1 ton emulsified asphalt (CIP.;

ALTERNATE (in lieu of Items 21 and 22).

(21a) 93 MBM redwood timber CIP. Complete bids follow:

- (A) Packard & Tanner, \$119,525.22. (Alt.) \$121,010.22.
- (B) Martin Bros. Truck Co., \$130,196.71; (Alt.) \$130,780.71.
- (C) Pleasant-Hasler Co., \$132,581.69; (Alt.) \$133,139.69.
- (D) Phoenix-Tempe Stone Co., \$148,312.51; (Alt.) \$149,872.51.
- (E) J. E. Haddock, \$183,624.15 (Alt.) \$184,290.13.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)
(1).....	\$.30	\$.30	\$.32	\$.30	\$.40
(2).....	.30	.28	.27	.45	.30
(3).....	.90	1.00	.90	.75	2.00
(4).....	.25	.25	.23	.30	.35
(5).....	.05	.05	.05	.10	.15
(6).....	.25	.35	.50	.30	.90
(7).....	.13	.25	.20	.20	.60
(8).....	2.75	3.50	4.50	4.50	5.00
(9).....	20.00	22.00	25.00	26.00	34.50
(10).....	.045	.06	.055	.05	.07
(11).....	3.50	3.00	3.75	4.00	4.00
(12).....	5.75	4.75	5.50	5.00	6.00
(13).....	400.00	460.00	400.00	500.00	650.00
(14).....	.07	.07	.07	.08	.105
(15).....	.07	.07	.07	.08	.08
(16).....	2.50	4.00	3.00	3.00	3.50
(17).....	.30	.28	.27	.45	.30
(18).....	.90	1.00	.90	.75	2.00
(19).....	20.00	22.00	25.00	26.00	34.50
(20).....	.045	.06	.055	.05	.07
(21).....	80.00	110.00	93.00	105.00	111.00
(22).....	65.00	88.00	93.00	105.00	111.00
(23).....	1.50	1.75	1.30	1.20	1.56
(24).....	1,125	1,312.5	.975	.90	1.17
(25).....	1.50	2.00	1.50	2.00	2.00
(26).....	7.00	12.00	10.00	15.00	20.00
(27).....	6.00	5.00	10.00	10.00	6.00
(28).....	75.00	200.00	50.00	50.00	30.00
(21a).....	90.00	108.00	93.00	115.00	111.00

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PACIFIC CONSTRUCTOR

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bid openings, and con-
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IN THIS ISSUE



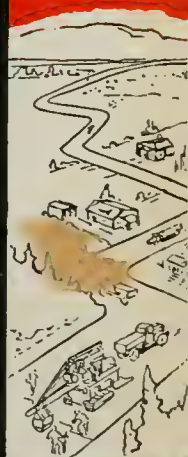
Construction League Files State Code

**\$7,500,000 Alloted For Western Army
Building**

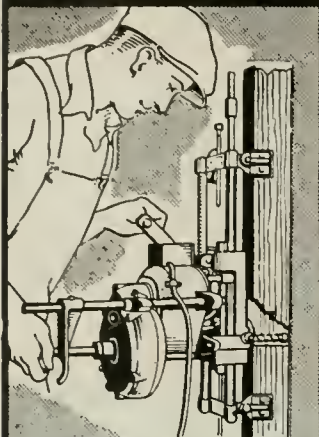
Lumber Orders Highest Since July

**Building Permits, Advance Reports of
Building and Engineering
Projects**

Unit Price Review



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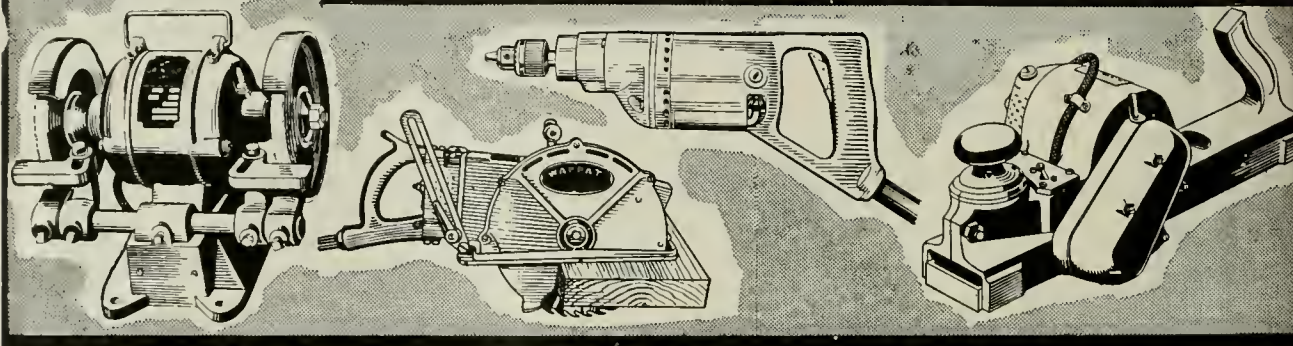
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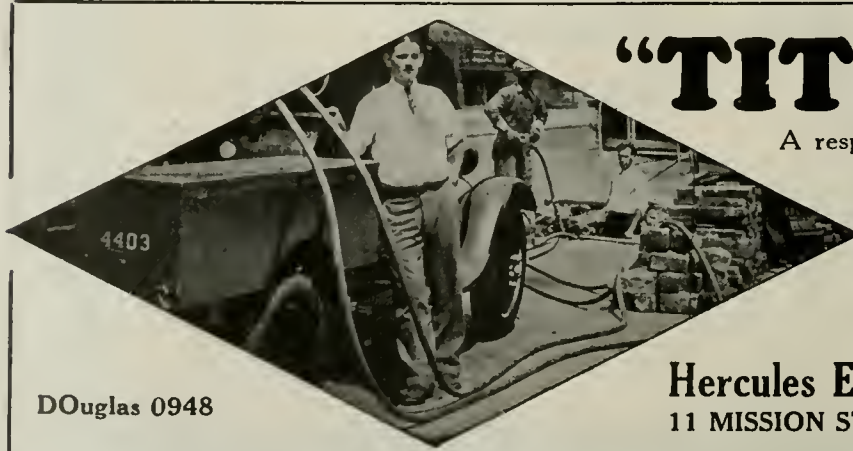
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PACIFIC CONSTRUCTOR

WITH WHICH IS CONSOLIDATED BUILDING AND ENGINEERING NEWS

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Vol. XVI

SAN FRANCISCO, CALIF., OCTOBER 14, 1933

No. 39

Bay District Army Posts Receive \$4,600,000 of New Building Fund

More than \$7,500,000 is available to army posts in the west for new building and reconditioning under the appropriation authorized by the Public Works Administration. Of this amount about \$4,600,000 will be spent at Hamilton Field, Marin County, and at the Presidio of San Francisco.

Following is a summary of the allocations to various western posts and a description of the work to be undertaken:

Hamilton Field, Cal., construction, \$3,515,984, and reconditioning, \$20,000.

Construction: Telephone construction, paved aprons, improvement to landing field and building area, railroad tracks, roads and drainage, hangars, field warehouse, field shops and headquarters and operations building, officers' quarters, N. C. O. quarters, barracks, barracks hospital (including medical detachment barracks and hospital steward quarters), headquarters and administration building, fire and guardhouse, quartermaster warehouse ordnance and chemical storage building, photo building, paint, oil and dope storage, completion of gasoline storage, quartermaster maintenance building, salvage warehouse, officers' mess, quartermaster gasoline storage, garage, reservation fence, magazines, camera obscura, oil storage, boat-house, wharf and channel dredging, sentry house and incinerator.

Reconditioning: Miscellaneous repairs to buildings and utilities.

March Field, Cal., construction, \$214,012, and reconditioning, \$70,000.

Construction: Barracks (medical detachment), laundry, bakery, contagious ward, officers' mess, gasoline storage system (completion of), aircraft bomb storage system, theatre, sprinkler system, telephone construction, N. C. O. quarters, magazines, improvement to warehouse, well tank and pump, ordnance warehouse, radio building and sentry house.

Reconditioning: Drainage, roads and miscellaneous repairs to buildings and utilities.

Fort MacArthur, Cal., construction, \$145,000, and reconditioning, \$22,615.

Construction: Telephone construction, N. C. O. quarters and wharf.

Reconditioning: Roads and miscellaneous repairs to buildings and utilities.

Presidio of San Francisco and vicinity, construction, \$985,281, and reconditioning, \$100,000.

Construction: Telephone construction, N. C. O. quarters, headquarters building (addition to), officers' quarters, extension of piers, wharf sheds on piers.

Reconditioning: Roads, electrical, water, sewer and heating systems, fencing, railroad and miscellaneous repairs to buildings.

Fort Lewis, Wash., construction, \$2,397,663, and reconditioning, \$60,000.

Construction: N. C. O. quarters, officers' quarters, water mains, telephone construction, barracks, medical detachment barracks, barracks (special troops), stables (with picket lines), gun sheds, headquarters and administration building, fire and guardhouse, quartermaster warehouse, ordnance repair shops, veterinary hospital, chapel, drill hall, bakery, hay shed and grain warehouse and magazine.

Reconditioning: Roads, railroad and miscellaneous repairs to buildings and utilities.

Vancouver Barracks, Wash., reconditioning, \$80,000.

Reconditioning: Roads, coal trestle, heating system and miscellaneous repairs to buildings and utilities.

The \$1,395,961 allotment to complete facilities under construction includes the following:

Letterman General Hospital, Cal., \$54,989.

Rockwell Field, Cal., \$74,732.

Fort Winfield Scott, Cal., \$7259.

Fort Logan, Colo., \$3087.

Fort George Wright, Wash., \$1867.

Fort F. E. Warren, Wyo., \$7131.

Wheeler Field, T. H., \$9381.

Albrook Field, C. Z., \$257,397.

Fort Clayton, C. Z., \$44,939.

ROBERT WARNS ARCHITECTS OF PROMOTING JOBS

Position Jeopardized by Employment of Special Legal Assistance

The Treasury Department will look with much disfavor on those architects or engineers who retain legal counsel in Washington to aid them in securing professional contracts from the department; in fact, it will be the disposition of the department to eliminate such architects and engineers from consideration altogether. This announcement was recently made by Assistant Secretary of the Treasury Robert, who has requested the American Institute of Architects and American Engineering Council to make the attitude of his office widely known.

Early in the summer the Treasury Department learned that certain Washington lawyers had been soliciting engineers, architects and others interested in obtaining government business, representing that to retain such counsel would enhance the opportunities of the engineers and architects to obtain desirable contracts. This activity has been particularly prevalent in western states, the Engineering Council stated.

The Treasury Department has not made the names of the lawyers who engaged in this practice public, feeling that probably they did not realize (1) that their proposal was in itself a reflection on certain government officials; (2) that representation of the nature lawyers would provide could not possibly have any bearing upon the selections made by the Treasury Department.

"The department desires to make its selections on the merits of each case alone. There is no disposition on the part of the department to prosecute any of the parties concerned but it does want it emphatically understood that such a practice will be outlawed," the bulletin concludes.

START WORK ON CAISSON OF GATE PIER

**Steel Ready for Marin Tower;
To Being Construction
Immediately**

Construction of the caisson for the south pier of the Golden Gate Bridge was commenced Monday at the plant of the Moore Drydock Company on the Oakland estuary, according to General Manager Jas. Reed of the Golden Gate Bridge and Highway District.

Reed stated that work on the caisson will be rushed so that it will be ready to float into place off Fort Point when the fender sections are in place. The first of these steel sections which will go into the fender wall has been completed and placed on a barge at the Moore plant in readiness for delivery at Fort Point. The remaining fender sections are being fabricated and it is expected that erection of the fender at the pier site will commence within a week. This work will continue until sufficient fender wall units have been placed to form a semi-elliptical enclosure, with the east end left open.

At this stage the completed caisson will be floated into place and the fender wall will be completed, forming a protected enclosure for caisson operations.

Meanwhile word was received from the McClintic-Marshall Corporation Monday that all of the steel for the Marin tower, representing an expenditure of over a million dollars, has been rolled at the Pottstown plant of the Bethlehem Steel Corporation.

Erection of the Marin tower is scheduled to commence within a few days, according to General Manager Reed, the grinding operations, which will bring the top surface of the Marin pier to within one-thirty-second of an inch of a true plane, now being forty per cent completed.

Work on the anchorages also is going forward at a rapid pace, 400 tons of anchorage steel now being in place in the San Francisco pier and all of the anchorage steel in place in the Marin pier, which is being made ready for the final concrete pouring operations.

Almost 3500 tons of nickel steel plate will be used to hold the cable eye bars on the new San Francisco-Oakland Bridge.

FEDERAL BUILDING BIDS NOVEMBER 7

WASHINGTON, D. C., Oct. 10.—Re-advertising of the contract for construction of the Federal Office Building in San Francisco was ordered today by the Supervising Architect of the Treasury Department. Bids are to be received in Washington on November 7.

The appropriation approved by the Public Works Administration is \$2,689,000. It provides for a six-story and basement structure.

Bids for the new building were received first on February 28, but all low bidders refused the award when the treasury department delayed action on the proposals for several months.

Arthur Brown, Jr., San Francisco, is the architect.

GEORGE SPERBECK ALAMEDA ENGINEER

George Sperbeck, assistant city engineer, has been appointed Alameda city engineer and superintendent of parks and playgrounds by City Manager Ralph M. Bryant to fill the position vacated when Burnett Hamilton became county engineer.

Sperbeck has been a city employe for 13 years, 12 of which he had served as assistant to Hamilton.

BUILDING INSPECTOR FOR COUNTY URGED

The General Contractors Association of Santa Clara county has adopted a resolution favoring the creation of the office of county building inspector. A committee has been appointed to consult with the board of freeholders now preparing a new county charter to ask that provision for the office be made. William Caldwell is president of the association.

NAME NEW COUNTY PURCHASING AGENT

Miss Emma Allegrini, assistant county purchasing agent since 1925 has been appointed purchasing agent of Santa Clara county by the board of supervisors. She succeeds the late Al Schilling, who died several months ago.

LUMBER ORDERS HIGHEST SINCE MIDDLE OF JULY

**Reports to National Association
Reveal Substantial
Gain in Business**

Lumber orders booked at the mills during the week ended Sept. 30, 1933, were higher than during any week since mid-July and production was slightly above that of the previous week, according to telegraphic reports received by the National Lumber Manufacturers' Association from regional associations covering the operations of 1,106 leading hardwood and softwood mills. Production totalled 192,164,000 feet; shipments, 195,306,000 ft. and orders, 187,022,000 feet. During the nine months ended Sept. 30, production was 25 per cent above that of similar period of 1932; shipments were 14 per cent above those of the 1932 period and orders received were 16 per cent in excess of last year.

During the week ended Sept. 30, 1933, all regions but West Coast and Northern Hemlock reported orders below production. West Coast orders were 6 per cent above output; total softwood orders were only one per cent below production and hardwood orders were 13 per cent below output. The softwood record was the best since July.

Production during the week was 34 per cent greater than that of the corresponding week of 1932; shipments were 6 per cent less and orders 9 per cent below those of the 1932 week. West Coast and the northern regions reported orders greater than last year.

Unfilled orders at the mills on September 30 took another drop to the equivalent of 15 days' average production, compared with 18 days' a year ago.

Forest products carloadings during the week ended September 23 of 25,079 cars were 140 cars below the preceding week but 6,502 cars above the same week of 1932.

QUARTERMASTER IS AT HOME AGAIN

Capt. H. B. Nurse, constructing quartermaster at Hamilton Field, has returned to his home at the field where he is convalescing from an illness that has confined him to the hospital for the past month.

Capt. Leander Larsen is in charge of construction at Hamilton Field while Capt. Nurse is on leave.

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**Consolidated Rock
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CODE BUREAU IS ESTABLISHED BY REGISTRAR

Mano Zan Appointed to Direct Coordination of State Groups

SACRAMENTO, Oct. 9—Machinery to assist state recovery act administrators in expediting the adoption of fair practice codes for the building and construction industry was set in motion here today by Col. Carlos W. Huntington, state registrar of contractors.

Establishment of a bureau of NRA Co-ordination in the office of Registrar of Contractors was announced by Col Huntington as the first step toward aiding the industry in dealing with the complicated code problem.

The bureau was established as a result of orders by Governor James Rolph Jr., instructing state agencies to co-operate to the fullest extent in the recovery drive. The bureau will function as an advisory and co-ordinating agency.

Immediately following this action, Glen V. Slater, assistant registrar, announced that Mano Zan, staff inspector, had been assigned to assume charge of the co-ordination activities.

Zan is widely known in the building and construction industry as a trade association executive in Southern California. In his new job, Zan will divide his time between the Sacramento, San Francisco and Los Angeles offices of the Registrar.

Huntington pointed out that establishment of the bureau is a result of demands of virtually the entire industry that the Contractors Bureau take an active part in aiding the industry to draft its codes. The contractors registration bureau was established four years ago to enforce an act which embraces virtually all of the broad, fundamental principles of the national recovery act.

"Because of the magnitude of the state's building and construction industry, as well as the many trade groups involved, the matter of drafting codes of fair practice for

FUNDS ALLOTTED FOR DAM ENGINEERING

An allotment of \$250,000 for the purpose of making a preliminary investigation and developing plans for the Bonneville Dam on the Columbia River, Oregon, was announced yesterday by Federal Public Works Administrator Harold L. Ickes.

The investigation will be made by the Army Engineer Corps and will be started in the near future.

The purpose of this preliminary work is to determine whether a suitable dam can be built at the Bonneville site without serious construction difficulties and whether sufficient power and navigation facilities can be developed.

The first code of complete development of the Bonneville site, with a power plant having an installed capacity of not less than \$450,000 kilowatts, is estimated at \$43,900,000.

all branches of the industry has become an extremely complex problem," Huntington said.

"Therefore, in order to carry out the mandate of Governor Rolph and render the greatest possible assistance to the state recovery act administrators and to the entire industry itself, we are assigning an inspector to aid in this matter.

"This step was also unanimously requested by the various units and groups in the industry which come under the jurisdiction of the registrar of contractors, all of whom were fully cognizant of the difficult task of formulating satisfactory codes.

"In assigning Mano Zan to this task, we feel we have selected a man whose experience and training enable him to handle the task before him in an efficient and creditable manner. He has been associated in an executive capacity in the industry for many years, and enjoys the confidence and support of all factions of the industry.

"In his new assignment, Mr. Zan will function in the capacity of a liaison officer. He will co-operate with the industry and with the State Recovery Administrators, Edwin M. Daugherty, commissioner of corporations, and T. A. Reardon, director of industrial relations."

CALIF. LEAGUE FILES PROPOSED INDUSTRY CODE

Early Hearing Asked on Recommended Basic Regulation of Construction

A proposed state basic code of fair practice for the construction industry was filed yesterday in San Francisco with the commissioner of corporations by the Construction League of California, with a request that a hearing be scheduled early in November in San Francisco and that a similar hearing be held immediately thereafter in Los Angeles.

The Construction League of California is the state representative of the Construction League of the United States, sponsors of a national basic code which already has been presented in Washington.

Charles F. B. Roeth, architect and president of the Construction League of California, said the state league's code was modeled as closely as practicable after the national code, in order that the national code provisions might be substituted easily in the event it is adopted after the California agreement is in operation.

"In bringing together the membership of the Construction League of California, which is a unit of the Construction League of the United States," Mr. Roeth said, "we have drawn on all sections of the industry, including architects, engineers, both civil and structural, general contractors from the building and engineering groups, sub-contractors, both organized and unorganized.

"This was done in order that we might have the opinions and suggestions of an entire cross-section of the industry and it is our further intention to utilize the newly-created Division of NRA Coordination of the Contractors' License Bureau in an effort to contact every organized group in the construction industry and urge that they obtain

copies of the basic code.

"The purpose of such widespread distribution is to make it possible for all such groups to have a part in making suggestions for whatever changes they might deem necessary and to obtain widespread endorsement of this basic code prior to the hearing date.

"In the program and machinery laid out in the basic code just filed, we are of the opinion that the ground work has been laid for administration and control of the construction industry that has been badly needed for years and that with care and proper guidance under the national and state recovery acts we will be able to establish again conditions wherein the business as a whole will proceed on a stable and profitable basis."

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PERMITS AND CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
748	Bothin	Martin	1300
749	Geile	Coburn	1800
750	Risdon	Risdon	4000
751	Murphy	Owner	1000
752	Lung	Lee	2350
753	McDaniel	Isaac	7750
754	Tubbs	Lindgren	3000
755	Vedell	Owner	2500
756	Zuardo	Depuy	13,999
757	Macla	Unit	2000
758	Popkin	Owner	5000
759	Shapiro	Carraro	4700

ALTERATIONS
 (748) NO. 511 HOWARD ST. Alter loft.
 Owner—Bothin Real Estate Co., 604 Mission St., San Francisco.
 Architect—Not Given.
 Contractor—W. Martin, 666 Mission St., San Francisco. \$1300

REPAIRS
 (749) NO. 18 ALLSTON WAY. Repair fire damage to dwelling.
 Owner—Mrs. Geile, % 2048 Market St., San Francisco.
 Architect—Not Given.
 Contractor—L. W. Coburn, 2048 Market St., San Francisco. \$1800

DWELLING
 (750) S NORTH POINT 100 E Webster St. Two-story and basement frame dwelling.
 Owner—Lillie Risdon, 1324 Portola Drive, San Francisco.
 Architect—Not Given.
 Contractor—Risdon Bros., 1324 Portola Drive., S. F. \$4000

ALTERATIONS
 (751) NO. 1144 O'FARRELL ST. Alter apartments.
 Owner—C. P. Murphy, Premises.
 Architect—Not Given. \$1000

ALTERATIONS
 (752) NO. 1034 STOCKTON ST; 15-17 Cameron Alley. Alter dwelling
 Owner—Lung Kong Kong Shaw Bldg., 1034 Stockton St., S. F.
 Architect—Not Given.
 Contractor—J. Lee, 113 Waverly Pl., San Francisco. \$2350

DWELLING
 (753) W SAN ALESO 107 S Darien Way. One-story and basement frame dwelling.
 Owner—Mrs. A. E. McDaniel, % Contractor.
 Architect—S. A. Colton, 544 Market St., San Francisco.
 Contractor—H. H. Isaac, 1738 Page St., San Francisco. \$7750

ALTERATIONS
 (754) SE TWENTY-SECOND AND Iowa Sts. Alter factory.
 Owner—Tubbs Cordage Co., Prem.
 Engineer—F. J. Claphour, 901 Grizzly Park Blvd., Berkeley.
 Contractor—Lindgren & Swinerton, 625 Standard Oil Bldg., San Francisco. \$3000

DWELLING
 (755) W TWENTY-SIXTH AVE 175 S Lawton St. One-story frame dwelling.
 Owner—Charles Vedell, 1425 26th Ave., San Francisco.
 Architect—Not Given. \$2500

DWELLING
 (757) S MARINA BLVD. 20 W. Webster St.; 2-story and basement frame dwelling.
 Owner—Dr. N. Zuardo, 209 Post St.
 Architect—C. A. Tantan, 210 Post St.

Contractor—F. K. Depuy, 110 Sutter St. \$13,999

ALTERATIONS
 (757) NO. 55 TAYLOR ST. Alter restaurant.
 Owner—Marcia, Ramon & Lopez, 55 Taylor St., San Francisco.
 Architect—Not Given.
 Contractor—Unit Bilt Fixture Co., 963 Harrison St., San Francisco. \$2000

DWELLING
 (758) NE COR. 34th AVE. and Lawton St.; two-story and basement frame dwelling.
 Owner—A. Popkin, 3700 Broderick.
 Architect—Not Given. \$5000

STORE & OFFICE
 (759) NE SAN BRUNO AVE. AND Thornton Ave.; two-story frame store and office.
 Owner—Dr. J. Shapiro, 2475-A San Bruno Avenue.
 Architect—F. W. Dakin, 625 Market.
 Contractor—G. Carraro and Son, 750 Felton St. \$4700

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
151	Bothin	Martin	1317
152	Filippi	Swanson	1032
456	Glaser	Rose	1300

ALTERATIONS
 (151) NO. 511 HOWARD ST. All work for alterations to entrance, stairhall and elevator lobbies of three-story building.
 Owner—Bothin Real Estate Co., 603 Mission St., San Francisco.
 Architect—Bertz, Winter & Maury, Monadnock Bldg., San Francisco.
 Contractor—William Martin, 666 Mission St., San Francisco.
 Filed Oct. 5, '33. Dated Oct. 4, '33.
 On or about 5th of each month 75%
 On completion a sum sufficient to increase total payment to 75%
 Usual 35 days.....Final

TOTAL COST, \$1317
 Bond, \$1317. Surety, New Amsterdam Casualty Co. Limit, 25 days.
 Forfeited, none. Plans and specifications filed.

RAISE & REFINISH HOUSE
 (152) 1853 LA SALLE. Raise and re-finish house.
 Owner—Joseph C. Filippi, 790 Funston Ave., San Francisco.
 Architect—Not Given.
 Contractor—Carl Swanson, 350 Joost St., San Francisco.
 When house is raised..... 25%
 Roof is on and elec. wiring..... 25%
 When job is completed..... 25%
 35 days after completion..... 25%
 TOTAL COST, \$1032

SAN MATEO COUNTY

RESIDENCE
 LOT 12 BLK 9. Baywood; two-story frame and stucco residence and garage.
 Owner—Samuel S. Jacobs, 805 Winchester, Burlingame.
 Architect—Not Given.
 Contractor—Henry Voelker, 805 Winchester Drive, Burlingame.
 Filed, Oct. 9, '33. Dated Oct. 3, '33.
 Roofed\$1784.75
 Brown coated 1784.75
 Completed 1784.75
 Usual 35 days 1784.75
 TOTAL COST, \$7139.00
 Bond, \$1000. Sureties, Wm. P. Sass and Groachino Bragato. Limit, 90 working days. Spec. filed.

SAN FRANCISCO UNDER \$1000

ALTER dwelling, \$150; 843 40th Ave.; owner, H. Blumenthal, 343 40th Avenue.
 ALTER lunch counter, \$150; 263 Embarcadero; owner, Mr. Hoag, 263 Embarcadero; contractor, B. C. Lindsay, 183 Oxford.
 SIGN, electric, \$200; 690-A Market; owner, Dr. C. R. Willett, 690-A Market St.; contractor, Elec. Prod. Corp., 255 Golden Gate Ave.
 ALTER flats, \$900; 1745-51 Fulton St.; owner, E. E. Scharff, 60 Sansome; contractor, A. H. Ohlson, 242 Vienna St.
 ALTER store, \$75; 366 Columbus Ave. owner, E. Spero, 301 Market St.; contractor, G. Nimmo, 804 Montgomery St.
 BILLBOARD, \$6.25; SW Golden Gate and Octavia; owner, Foster and Kleiser, 1675 Eddy St.
 BILLBOARD, \$6.25; N Sutter 100 W Divisadero; owner, Foster & Kleiser, 1675 Eddy St.
 ALTER store, \$250; W Fillmore 60 S Eddy St.; owner, Bert L. Hare, premises.
 ALTER store, \$50; 601 Divisadero at Hayes St.; owner, J. E. Heffery, 157 Sutter St.
 ALTER store, \$400; 726 Mission St.; owner, Incandescent Supply Co., 726 Mission St.
 GREENHOUSE, \$900; W Cambridge 160 S Woolsey; owner, F. Gemignani, 650 Cambridge.
 ALTER store, \$400; 814 Clement St.; owner, Mrs. M. McGlynn, 816 Clement; contractor, P. Sartorio, 2440 Greenwich St.
 ALTER dwelling, 5500; 3935 Washington St.; owner, G. M. Rolph, 65 Arguello Blvd.; engineer, A. A. Brown, 461 Market St.; contractor, W. L. Gott, 683 3rd St.
 SIGNS, two cloth, \$20 each; 1001 Market St.; owner, Marie Cohn, 1001 Market St.; contractor, L. Goldberg, 1085 Golden Gate Ave.
 BILLBOARD, \$6.25; SW Fulton and Octavia; owner, Foster & Kleiser, 1675 Eddy St.
 BILLBOARD, \$6.25; W Franklin 37 S McAllister; owner, Foster and Kleiser, 1675 Eddy St.
 ALTER restaurant, \$150; 1957 Chestnut St.; owner, C. Bacigalupi, 309 Shotwell St.
 STUCCO dwelling, \$500; 550 12th Ave. owner, Dr. T. R. Creely, 3170 Sacramento St.
 STUCCO flats, \$250; 432 Broadway; owner, Mrs. M. Delucchi, 432 Broadway; contractor, J. Oliva, 542 Vienna.
 STUCCO apts., \$150; NW Cor. Balboa and 20th Ave.; owner, Mr. Devlin 595 20th Ave.; contractor, P. J. Phelan, 3245 Cabrillo St.
 SIGN, electric, \$105; 275 O'Farrell; owner, Hollywood Inn, 275 O'Farrell St.; contractor, American El. Sign Co., 1740 Eddy St.
 SIGN, electric, \$160; 1307 Noriega St.; owner, Noriega Pharmacy, 1307 Noriega; contractor, American El. Sign Co., 1740 Eddy St.
 GAS tanks, 2, pumps for service station, \$736; NW Cor. Jackson and Montgomery; owner, F. Biagini, 735 Montgomery; contractor, Barrett & Hilt, 918 Harrison St.
 ALTER warehouse, \$470.00; 425-427 Broadway; owner, G. Croce, 425 Broadway; contractor, S. A. Guisti & Co., 200 Green St.
 STUCCO dwelling, \$185; 2841 Clay St.; owner, F. Ferran, 2841 Clay St.; contractor, L. Polidoro, 780 Vallejo St.

ALAMEDA COUNTY

No.	Owned	Contractor	Amt.
451	Pahl	Petersen	2000
452	Kaufmann	Wiggins	1000
453	Golden	Owner	2400
454	Scanmell	Owner	4000
455	Associated	Independent	1300

STATION

(451) NO. 2346 EIGHTH AVE., OAKLAND. One-story steel service station.
Owner—Louis Pahl, 817 E-24th St., Oakland.

Architect—Not Given.
Contractor—C. Norman Petersen, 1211 E-34th St., Oakland. \$2000

STATION

(452) NO. 7272 FOOTHILL BLVD., OAKLAND. One-story concrete service station.

Owner—Jack Kaufmann, 1026 Market St., San Francisco.
Architect—Not Given.
Contractor—Wiggins & Swanson, 3906 Laguna Ave., Oakland. \$1000

ADDITION

(453) NO. 533 KIRKHAM ST., OAKLAND. Addition and steel tank house.

Owner—Golden West Brewing Co., 533 Kirkham St., Oakland.
Architect—W. Adrian, 781 Market St., San Francisco. \$2400

DWELLING

(454) NO. 3744 ELSTON AVE., OAKLAND. One-story 6-room dwlg.

Owner—J. W. Scammell, 424 Scenic Ave., Piedmont. \$4000
Architect—Not Given.

STATION

(455) NO. 1400 GROVE ST., BERKELEY. Super service station.

Owner—Associated Oil Co., 2395 Webster St., Alameda.
Architect—Not Given.
Contractor—Independent Iron Works, 821 Pine St., Oakland. \$1300

REPAIRS

(456) 3229 ELM ST., OAKLAND; fire repairs.

Owner—Andrew Glaser, 1126½ 6th St., Sacramento.
Architect—Not Given.
Contractor—A. H. Rose, 478 25th St., Oakland. \$1300

ALAMEDA COUNTY UNDER \$1000

SERVICE station, 1-story brick, \$950; SW Park St. and Clement Ave., Alameda; owner, Alameda Steam Laundry, Lincoln Ave.; architect, R. C. Scheupert, Park Bldg., Oakland; contractor, A. Swanson, Laguna St., Oakland.

GARAGE, one-story, \$150; 841 E-18th St., Oakland; owner, P. Desmond, Premises.

ALTER for garage, \$150; 2400 Highland Ave., Oakland; owner, John Ominger, 2400 Highland Ave.

SIGN electric, \$55; 2637 Foothill Blvd., Oakland; owner, Herman's Drug Co.; contractor, Getz Elec. Sign Co., 3140 E-10th St.

SIGN, electric, \$120; 3824 Telegraph Avenue, Oakland; owner, Byrne's Tennis Shop; contractor, Getz Elec. Sign Co., 3140 E-10th St.

ADDITION, \$50; 3524 Ardley Ave., Oakland, owner, J. C. Horner, 3824 Ardley Ave.

SIGN, electric, \$65; 6534 Foothill Blvd., Oakland; owner, Jane's Sandwich Shop; contractor, Getz Elec. Sign Co., 3140 E-10th St.

SIGN, electric, \$55; 3214 Grand Ave., Oakland; owner, Stier & Evey Drug Co.; contractor, Getz Elec. Sign Co.; 3140 E-10th St.

SHED, one-story tile, \$125; 634 Merrimac St., Oakland; owner, H. Fisher, 634 Merrimac St.; contractor, T. J. Garvey, 5686 Ocean View Drive.

ALTERATIONS, \$150; 1707 Beverly Place, Berkeley; owner, Mrs. M. Allen, Premises; contractor, E. H. Buel, 2927 Lorina St.

ALTER basement, \$150; 9720 Thermal Ave., Oakland; owner, J. F. Best, Premises.

ADDITION, \$300; 2615 90th Ave., Oakland; owner, Sierra Financial Corp., 170 Sutter St., San Francisco.

ADDITION, \$400; 3507 66th Ave., Oakland; owner, H. R. Gibson, 987 Sunnyhills Road.

FIRE repairs, \$250; 7800 Lockwood St., Oakland; owner, Andrew Prebestell, Premises; contractor, C. D. DeVelbiss, 354 Hobart St.

RESHINGLE, \$80; 1134 73rd Ave., Oakland; owner, F. W. Wyllie & Son, 1134 73rd Ave.

GARAGE, one-story, \$200; 753 Landvale Road, Oakland; owner, Julia A. Bramlage, 2607 Benvenue Ave., Berkeley.

REPAIR to garage, \$75; 390 51st St., Oakland; owner, Emil Hedstrom, 390 51st St.

ALTERATIONS, \$200; 1724 Telegraph Ave., Oakland; owner, A. E. Reynolds, Premises.

CHIMNEY, patent, \$17; 1331 E-27th Sts., Oakland; owner, Mrs. Zolling, 1331 E-27th St.; contractor, Mauck Sheet Metal Works, 1417 66th Ave.

ALTERATIONS, \$200; 551 Santa Rosa St., Berkeley; owner, Prof. Goodspeed, Premises.

ALTERATIONS, \$125; 2606 Piedmont Ave., Berkeley; owner, R. Marley, 709 North Ave., Los Angeles; contractor, H. A. Johnson.

ALTERATIONS, \$90; 1515 Shattuck Ave., Berkeley; owner, I. I. Norton; contractor, S. P. Sorensen.

ALTERATIONS, \$200; 1937 Alcatraz Ave., Berkeley; owner, Mary G. Browne, Premises; contractor, Jas. F. Browne, 1937 Alcatraz.

SHED, one-story, \$200; 2737 Humboldt Ave., Oakland; owner, C. H. McCaslin, 2737 Humboldt Ave.

BILLBOARD, \$50; SE 6th Ave. and E-18th St., Oakland; owner, Foster & Kleiser, 22nd and Market Sts.

SIGN, electric, \$100; 55th and Wentworth Aves., Oakland; owner, Melrose M. E. Church; contractor, Elec. Prod. Corp.; 950 30th St.

SIGN, electric, \$170; 442 17th St., Oakland; owner, McCann's; contractor, Ace Elec. Sign Co., 1243 E-12th St., Oakland.

GARAGE, one-story, \$100; 1052 Fruitvale Ave., Oakland; owner, Henry Hart, 1052 Fruitvale Ave.

FIRE repairs, \$400; 1771 Evers St., Oakland; owner, E. K. Dunlap, 1771 Evers St.; contractor, Ira W. Coburn, San Francisco.

FIRE repairs, \$572; 3867 Brown Ave., Oakland; owner, Ruel Allen, 3867

SIGN, electric, \$50; 5301 E-14th St., Oakland; owner, Grille's Cafe; contractor, Getz Elec. Sign Co.; 3140 E-10th Street.

ADDITION, \$150; 1625 39th Ave., Oakland; owner, I. L. Gracler, 1625 39th Ave.

SIGN, electric, \$250; 2901 E-14th St., Oakland; owner, Gllkberg Motor Co.; contractor, Electric Prods. Corp., 950 30th St.

SIGN, electric, \$85; 1301 E-14th St., Oakland; owner, Blooms Service Station; contractor, Ace Electric Sign Co., 1243 E-12th St.

ADD to garage, \$495; 5256 Golden Gate Ave., Oakland; owner, Dr. H. G. McLean, 5256 Golden Gate Ave., Oakland; contractor, Kraft & Patrick, 1895 San Juan Ave., Berkeley.

ALTERATIONS, \$75; 2901 21st Ave., Oakland; owner and contractor, A. M. Beauchamp, 2901 21st Ave., Oakland.

ALTERATIONS, \$150; 733 The Alameda, Berkeley; owner, A. Krenser, Premises; contractor, Oscar Johnson, 1915 Virginia St.

GARAGE, private, \$200; 1109 High Court, Berkeley; owner, Carl Blom, Premises; contractor, C. M. Andersen, 1853 9th Ave., Oakland.

ALTERATIONS, \$125; 2608 Piedmont Ave., Berkeley; owner, Randolph Martin, 709 North Ave., Los Angeles; contractor, H. A. Johnson.

GARAGE, one-story, \$100; 2532 Coolidge Ave., Oakland; owner, W. D. Martin, 2600 Coolidge Ave.

GARAGE, one-story, \$200; 4512 Lawton Ave., Oakland; owner, W. E. Marshall, 4512 Lawton Ave.; contractor, N. J. Lindstrom, 2417 Browning St., Berkeley.

BILLBOARD, \$25; NW Elgth and Fallon, Oakland; owner, Foster & Kleiser, 22nd and Market Sts.

BILLBOARD, \$25; E Park Blvd. 75 N 7th Ave., Oakland; owner, Foster & Kleiser, 22nd and Market Sts.
ADDITION, \$200; 4470 Howe Street, Oakland; owner, P. W. Asquith, 4470 Howe St.

ADDITION, \$175; 5401 Holland St., Oakland; owner, J. C. Gonsalves, 5401 Holland St.; contractor, Tony M. Silva, 1034 87th Ave.

BILLBOARD, \$25; S E-18th St. 100 E 4th Ave., Oakland; owner, Foster & Kleiser, 22nd and Market

BILLBOARD, \$50; N 22nd St. 133 E Grove St., Oakland; owner, Foster & Kleiser, 22nd and Market Sts.

ALTERATIONS, \$40; 342 21st St., Oakland; owner, A. Harris, 1020 Brush St.

BILLBOARD, \$25; S 13th St. 100 W Webster Street, Oakland; owner, Foster & Kleiser, 22nd and Market

BILLBOARD, \$25; N Hopkins St. 40 E 39th Ave., Oakland; owner, Foster & Kleiser, 22nd and Market Sts.

GARAGE, one-story, \$80; 1690 Burdick Drive, Oakland; owner, N. W. Davis, 1690 Burdick Drive.

ADDITION, \$250; 1001 72nd Ave., Oakland; owner, T. Parkes, 1001 72nd Ave., Oakland.



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PLAZA**
POST STREET AT STOCKTON
SAN FRANCISCO

BUILDING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

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10.—Hotels	19.—Misc. Const.
	20.—Misc. Supplies & Materials

1— APARTMENTS

Sub-Contracts Awarded.

APARTMENTS Cost, \$40,000
SAN FRANCISCO. SE Webster and North Point Sts.

Three-story and basement frame and stucco apartments (15 2- and 3-room apts.), composition roofing, some tile, steam heating system, colored tiled wainscot in baths, showers and kitchens, electric refrigeration, etc.

Owner & Builder—Viggo Rasmussen, 1580 Beach St., San Francisco.

Architect—Richard R. Irvine, 2048 Market St., San Francisco.

Electrical Work: Aetna Electric Co., 1435 Eddy St., San Francisco.

Iron Work: Golden Gate Iron Works, 1541 Howard St., San Francisco.

Hardwood Floors: Carl Stendell, 41 Cumberland St., San Francisco.

Electric Fixtures: United Lighting Fixture Co., 169 7th St., San Francisco.

Brick Work: A. Nelson, 242 Ocean Ave., San Francisco.

Tile: Malott & Peterson, 20th and Harrison Sts., San Francisco.

Concrete Work: Thorsen & Kirkwood, 1878 Church St., San Francisco.

Fire Escapes: L. Kern & Sons, 517 6th St., San Francisco.

Other sub-contracts reported September 21.
(2646) 1st report Sept. 8, 1933.

Completing Plans.

APARTMENTS Cost, \$3,230,000
SAN FRANCISCO, Cal. Old I. O. O. F. Cemetery property, bounded by Turk St., Parker Ave., Geary St. and Arguello Blvd.

Group of eleven fireproof apartment houses, 2, 3 and 6-story structures (886 apartments).

Owner—Roosevelt Terrace Housing Development, Henry E. Monroe, president, 275 Bush St., San Francisco.

Architect—Miller & Pfueger, 580 Market St., San Francisco.

Contractor—Lindgren and Swinerton, Inc., 225 Bush St., San Francisco.

With Monroe on the board of directors of the corporation in charge of the program are Atholl McBean, Alfred B. Swinerton, Edward H. Heller and William H. McCarthy, San Francisco postmaster.

The Federal Government through the Public Works Administration has approved the project and will advance the \$3,230,000 for the construction which is expected to start in about 30 days. It will be built in units. Further information will be given later.

SAN FRANCISCO.—The Rossi Apts. located at 674 Geary Street, was damaged by fire Tuesday to the amount of \$40,000.

2— BONDS

LOS ANGELES, Cal.—The Los Angeles Board of Education in the near future, proposes submitting a \$15,000,000 bond issue to the voters of the Los Angeles School District to provide funds for rehabilitation, reconstruction and reinforcing of school buildings damaged by earthquake. In the meantime the board will make application for \$4,313,000 of the funds voted by Congress for earthquake relief.

3— CHURCHES

LONG BEACH, Los Angeles Co., Cal.—Architects Soule & Murphy, 116 Sola St., Santa Barbara, are completing plans for rebuilding a church building at the corner of Atlantic Ave. and Seventh St., Long Beach, for St. Luke's Episcopal Church; Rev. Perry G. M. Austin, Rector. The auditorium will be built first and the remainder of the structure will be built later. The parish hall will be reconstructed to conform with the other buildings. Construction will be frame and stucco, shingle roofing, hardwood floors, leaded glass, gas heating, etc. The entire building will cost \$40,000.

4— FACTORIES & WAREHOUSES

SANTA CRUZ, Santa Cruz Co., Cal.—The Old Ben Lomond Winery has been taken over by I. H. Rice of San Francisco and will be altered. Next year a new winery to cost \$20,000 will be erected. Joseph Hill is superintending the alterations.

Completing Plans — Ready for Sub-Figures After October 20.

BREWERY Cost, \$750,000
SAN FRANCISCO (Paul Tract) Bayshore Ave. and Third St.

Group of buildings for brewery, steel and concrete construction.

Owner—General Brewing Corporation (C. W. Ahrens, director).

Architect—Fred H. Meyer, 525 Market St., San Francisco.

Engineer—C. H. Snyder, 251 Kearny St., San Francisco.

Contractor—Cahill Bros., 206 Sansome St., San Francisco.

Plans will not be completed until October 20.

(2633) 1st report Sept. 7; 3rd Sept. 22, 1933.

Plans Being Figured.

BREWERY Cost, Bldg., \$35,000
Equipment, \$100,000

FRESNO, Fresno Co. Cal. NE Hedges and Blackstone Ave.

One 2- and 3-story steel and reinforced concrete brewery (80x140 feet) malt cooling apparatus, capacity of 100 barrels of beer daily, bottling plant, etc.

Owner—Emilio Giometti, 1480 Blackstone Ave., Fresno.

Architect—W. D. Coates, Rowell Bldg., Fresno.

Bids are being taken for a general 28, 1933.

Sub-Contracts Awarded.

ADDITION Cost, \$14,314.81
SAN FRANCISCO. N Jessie Street 80 W Sixth Street.

Two-story Class C reinforced concrete addition to warehouse (steel sash composition roof, wood floors, etc.)
Owner—Weinstein Co., 1401 Market St., San Francisco.

Architect — Hyman & Appleton, 68 Post St., San Francisco.

Contractor—Cahill Bros., 206 Sansome St., San Francisco.

Glass and Glazing—Habenlicht & Howlett, 529 Clay St.

Plumbing—H. Bertram, 726 Bryant St., San Francisco.

Electric Work—G. H. Armstrong Elec. Co., 1388 Van Uess Ave.

Sheet Metal Work—G. R. Nellan.

Painting—D. Zelinsky & Son, 165 Grove St.

As previously reported, reinforcing steel awarded to Concrete Engineering Co., 1280 Indiana St.; lumber to Loop Lumber Co., Central Basin (2627) 1st report Sept. 6; 4th Sept. 23, 1933.

LOS ANGELES, Los Angeles Co., Cal.—Architects Zuckerman & Horwitz, Chicago, have prepared plans for a factory building to be erected at Pico Blvd. and Soto St. for the Bonanza Concentrator Co., 1438 Beechwood Dr., Los Angeles. It will be a steel and glass structure, containing 28,000 square feet of floor space, and will cost approximately \$45,000.

Contract Awarded.

ALTERATIONS Cost, \$1317
SAN FRANCISCO. No 511 Howard Street.

Alter entrance, stairhall and elevator lobbies of three-story brick loft building.

Owner—Bothin Real Estate Co., 608 Mission St., San Francisco.

Architect—Bertz, Winter & Maury, Monadnock Bldg., San Francisco.

Contractor—Wm. Martin, 666 Mission St., San Francisco.

Contract Awarded.

BREWERY Cost, \$200,000
PORTLAND, Oregon. Second and Couch Streets.

Alterations and additions to two-story brewery (new boiler house, new boilers, compressors and other equipment will be installed).

Owner—Pilsner Brewing Co.

Architect—Not Given.

Contractor—Lorenz Bros., Title and Trust Bldg., Portland.

Plans Being Figured.

BREWERY Cost, \$50,000
PORT ORCHARD, Wash.

Six-story heavy frame construction brewery.

Owner—Kitsop Brewing Assn., L. E. Woolfolk, Port Orchard, secretary.

Architect—Carl Siebrand, 5016 E. 21st Ave. NE., Seattle.

Bids will be taken for a general contract, with separate bids for heating, plumbing and equipment.

Contract Awarded.

WAREHOUSE Cost, \$20,000
RENO, Nev. Fourth Street and Elko Avenue.

Warehouse with 8-car storage and refrigeration capacity.

Owner—Triange Produce Co. (C. Serpentine, Reno, Mgr.)

Architect—Not Given.

Contractor—Stephen Rastelli, 826 Humbolt St., Reno.

LOS ANGELES, Cal.—Win. P. Neil Co., 4814 Loma Vista St., has the contract for the construction of an addition to a factory on Eastern Ave. for the Chrysler Motor Corp. The building will cover an area of 300x280 feet and will contain 78,400 square feet of floor space. Construction will be reinforced concrete and corrugated iron, steel roof trusses and frame, saw-tooth roof construction, composition roofing, concrete floor, steel sash, wire glass, metal doors, etc. Estimated cost is \$100,000. Plans were prepared by Architect Harry T. Miller, 4814 Loma Vista St.

Segregated Bids Being Taken.
BREW HOUSE Cost, \$100,000
 STOCKTON, San Joaquin Co., Cal.
 626 N. American Street.
 Four- or five-story brick and steel brew house (40 ft. square, 90 ft. in height).
 Owner—Eldorado Brewing Co. (A. D. Rothenbush), 626 N. American St., Stockton.
 Designed by C. M. Fraenkel, industrial economist, 461 Market St., San Francisco.
 Construction of the foundation has been started by day's labor under the supervision of the owner. All bids will be taken by the owners.
 (1457) 1st report May 11; 4th Sept. 28, 1933.

YUBA CITY, Sutter Co., Cal.—The packing shed of Rosenberg Brothers, on Ohleyer Road, three miles southwest of Yuba City, was recently destroyed by fire, at a loss of \$15,000. Building and equipment was covered by insurance.

Contract Awarded.
MARKET Cost, \$7500
 SAN JOSE, Santa Clara Co., Cal. 7th, 8th, Mission and Taylor Sts.
 Grading and paving two acres and installing drainage and water system for public market.
 Owner—County Vegetable, Berry and Fruit Growers' Assn. (Richard V. Bressani, Atty.)
 Architect—Not Given.
 Contractor—Piazza & Green, San Jose.
 For the present market stalls will be uncovered, although the association contemplates later erection of a combination office and restaurant building and commission houses.
 (2808)

PLANNED

STOCKTON, San Joaquin Co., Cal.—The Santa Cruz Portland Cement Co. (Geo. T. Cameron, Pres.), Crocker Bldg., San Francisco, plans the erection of a cement plant at Stockton on a four acre tract of land to cost \$100,000. This is a part of the \$1,000,000 program of expansion planned by the company on the coast.
 The company recently acquired the steamer Pacific Cedar from the United States Shipping Board. The steamer will be converted into a bulk cement carrier of 40,000 barrels capacity.
 Further information will be given later.

October 12, 1933

Construction Started.
WAREHOUSE Cost, \$5000
 MARYSVILLE, Yuba Co., Cal.
 One-story corrugated iron warehouse 80x60 feet with cement floor.
 Owner—Ottney Warehouse Co., 12th and F Sts., Marysville.

5— FLATS

Sub-Contracts Awarded.
FLATS Cont. Price, \$9285
 SAN FRANCISCO. Union St. 136 W Baker Street.
 Two-story and basement frame and

stucco flats (two 6-room flats) as phalt, gravel and terra cotta tile roof, steam heating, gas furnace, hardwood floors, canvas walls, hardwood trim, electric refrigeration, etc.
 Owner—Leon Kulmellis.
 Architect—Martin Sheldon, Monadnock Bldg., San Francisco.
 Contractor—G. P. W. Jensen, 320 Market St., San Francisco.
Structural Steel—Western Iron Wks. 141 Beale St., San Francisco.
Concrete Work—L. Sartorio, 2627 Lombard St., San Francisco.
Lumber—Loop Lumber Co., Central Basin.
 As previously reported, plumbing awarded to Scott Co., 243 Minna St., at \$1220; electric to Decker Electric Constr. Co., 528 Bryant St., at \$611.
 (2362) 1st report Aug. 7; 4th Sept. 7, 1933.

Segregated Bids Being Taken.
FLATS Cost, \$—
 SAN FRANCISCO. Fillmore St. and Marina Blvd.
 Two-story and basement frame and stucco residential flats (2 7 room flats with 6 baths).
 Owner—Sheldon E. Potter, 710 Camino Del Mar, San Francisco.
 Architect—Houghton Sawyer, Howden Bldg., Oakland.
 Bids are wanted on all branches of the work.

6— GARAGES & SERVICE STATIONS

Sub-Contracts Awarded.
SERVICE STATION Cost, \$—
 SAN FRANCISCO. Ocean Avenue and Miramar Street.
 Steel frame and brick service station.
 Owner—McKale's, Inc., Mission and Twelfth Sts., San Francisco.
 Plans by Engineering Dept. of Owner.
 Contractor—Price Construction Co., 1723 Webster St., Oakland.
Structural Steel—Golden Gate Iron Works, 1541 Howard St.
Electrical—Lynn & Hefferman, 114 Ashton Ave.
Tile—Mangrum, Holbrook & Co., 1235 Mission St.
Roofing—Fisher & Houts, 557 Market
 Other sub-contracts reported Sept. 26.
 (2508) 1st report Aug. 28; 7th Sept. 26, 1933.

October 10, 1933

Plans Being Prepared.
GARAGE Cost, \$25,000
 BAKERSFIELD, Kern Co., Cal. 22nd and I Streets.
 One-story concrete auto sales building.
 Owner—Elmer Houchin (Buick and Pontiac Agency), 1412 17th St., Bakersfield.
 Architect—Edwin J. Symmes, Haberfelde Bldg., Bakersfield.
 Buildings now on the site will be razed.
 (2762) 1st report Oct. 4, 1933. 6

7—FEDERAL BUILDINGS

Completing Working Drawings.
POST OFFICE Cost, \$175,000
 SALINAS, Monterey Co., Cal. Block bounded by Lincoln, Church, Howard and Allisal Streets.
 One-story and basement Class B concrete and brick Post Office building, 60x160 feet (brick and terra cotta exterior).
 Owner—United States Government.
 Architect—O'Brien Bros. and W. D. Peugh, 333 Montgomery St., San Francisco.
 Structural Engineer—F. W. Kellberg, 320 Market St., San Francisco.
 Mechanical Engrs.—Leland & Haley,

58 Sutter St., San Francisco.
 (757) 1st report Feb. 23; 7th Aug. 23, 1933.

SUNNYVALE, Santa Clara Co., Cal.—Theo. Johanns, 2020 15th St., San Francisco, at \$1088 awarded contract by Public Works Officer, 12th Naval District, 100 Harrison St., San Francisco, for alterations and additions to operations office at the Naval Air Station, Sunnyvale. Specification No. 7357.
 (2651) 1st report Sept. 11; 4th Oct. 3, 1933.

SAN RAFAEL, Marin Co., Cal.—The following is a list of the prospective bidders for the barracks and officers' quarters to be erected at Hamilton Field (Marin Bombing Base). Bids to be opened October 17, 1933, 11 a. m. For further particulars see issue of October 4th.
 Lindgren & Swinerton, Inc., 225 Bush St., San Francisco.
 Wm. Spivock, Hobert Bldg., San Francisco.
 MacDonald & Kahn, Financial Center Bldg., San Francisco.
 K. E. Parker Co., 135 South Park, San Francisco.
 Clinton Construction Co., 923 Folsom St., San Francisco.
 Frank J. Reilly, 666 Mission St., San Francisco.
 Meyer Bros., 727 Portola Drive, San Francisco.
 W. J. Jennings, Box 453, San Rafael, Cal.
 Schuler & McDonald, 1723 Webster St., Oakland.
 Herman Baruch Corp., Fort Miley, San Francisco and Los Angeles.
 DeLuca & Son, 1745 Filbert St., San Francisco.
 Gladding McBean & Co., 660 Market St., San Francisco.
 James A. Nelson, 1375 Howard St., San Francisco.
 Albert Karelius, 2178 Casitas Ave., Pasadena.
 M. J. Reeves, 959 Natoma St., San Francisco.
 Mangrum & Holbrook Co., 1235 Mission St., San Francisco.
 Palace Hardware Co., 581 Market St., San Francisco.
 Herman Lawson, 465 Tehama St., San Francisco.
 Grinnell Co., 601 Brannan St., San Francisco.
 C. J. Haglund, 908 Hobart Bldg., San Francisco.
 E. H. Armstrong, 1588 Van Ness Ave. South, San Francisco.
 Lee Dixon Painting Co., 18 Eureka St., San Francisco.
 Johns-Manville Sales Corp., 159 New Montgomery St., San Francisco.
 Pacific Manufacturing Co., 1315 7th St., Oakland.
 Scott Co., 243 Minna St., San Francisco.
 N. Clark & Son, 116 Natoma St., San Francisco.
 W. Olsen & Son, 617 High St., Petaluma.
 Frank D. Smith, 271 Minna St., San Francisco.
 D. Zelinsky & Sons, 165 Grove St., San Francisco.
 Riteway Floors Co., 50 Alice St., Oakland.
 Anchor Post Fence Co. of California, 460 Fifth St., San Francisco.
 Carl N. Swenson, 355 Stockton Ave., San Jose.
 B. Evans, 579 Monadnock Bldg., San Francisco.
 Soule Steel Co., San Francisco.
 Fire Protection Products Co., 1101 16th St., San Francisco.
 Reed & Reed, 1131 Hearst Bldg., San Francisco.
 American Radiator Co., 4th and Townsend St., San Francisco.
 Harry E. Drake, 666 Mission St., San Francisco.

Lannom Bros., 5th and Magnolia Sts., Oakland.

Dunham, Carrigan & Hayden Co., 2 Kansas St., San Francisco.

Robert E. McKee, 108 W. 16th St., Los Angeles.

Severin Electric Co., 172 Clara St., San Francisco.

F. W. Snook Co., 596 Clay St., San Francisco.

Leibert & Trobeck, 325 Rialto Bldg., San Francisco.

F. J. Edwards, 2401 9th Ave., Oakland.

SAN DIEGO, Cal.—Lynch-Cannon Engineering Co., 5658 Wilshire Blvd., Los Angeles, submitted the low bid to the Eleventh Naval District on October 5 at \$188,400 for the construction of final assembly shop building at the Naval Operating Base (Air Station), San Diego; Specification 7426. The bids were held under advisement. The building will cover an area of 222x300 feet and will have concrete footings and paving, structural steel frame, steel trusses, steel stairs, four jib cranes, steel sliding doors, steel windows, wood roof sheathing, built-up roofing, corrugated asbestos sheets on exterior walls, wire glass, metal lath and furring, plaster and stucco, metal shower and toilet partitions, vitreous tile floors and wainscot in shower rooms, plumbing, drinking fountains, air receiver tank, manhole frames and covers, electrical work, steam piping and radiators, painting, etc. The bids follow:

Lynch-Cannon Engineering Co., (1) \$188,400; (3) add for doors, \$9500.

B. O. Larsen, (1) \$189,000; (2) \$7300.

K. E. Parker, (1) \$189,800; (3) \$9500.

W. E. Kier Construction Co., (1) \$191,723; (3) \$9500.

M. H. Golden, (1) \$192,987; (3) \$9887.

Meyers Bros. and Harvey Field, (1) \$193,717; (3) \$1500.

B. F. Campbell and Moran, (1) \$194,146; (3) \$10,479.

Walter Trepte, (1) \$196,975; (3) \$13,000.

R. E. Campbell, (1) \$198,750; (3) \$17,000.

Herbert M. Baruch Corp., (1) \$199,900; (3) \$13,000.

H. Mayson, (1) \$202,400; (3) \$13,750.

Robt. E. McKee, (1) \$204,900; (3) \$8300.

Weymouth Crowell Co., (1) \$205,150; (3) \$11,500.

Bodenhamer Construction Co. and J. A. Hunt, (1) \$210,000; (3) \$16,000.

George Hess, (1) \$218,400; (3) \$7500.

Three lowest bids were reported yesterday.

1st report Sept. 6; 3d October 6, 1933.

SAN DIEGO, Cal.—W. F. Wahrenberger, 3924 Henry St., San Diego, at \$9289 awarded contract by the U. S. Navy Department, for the construction of a one-story reinforced concrete, brick and hollow tile extension to the dispensary at the Naval Operating Base (Air Station), San Diego, under Specification No. 7436. 1st report Sept. 21; 2nd Oct. 6, 1933.

MARCH FIELD, Riverside Co., Cal.—Until 10 A. M., October 20, bids will be received by the Constructing Quartermaster, March Field, for the construction of three sets of non-commissioned officers' quarters at March Field. Bidding data may be obtained from the construction quartermaster upon deposit of \$25. They will be one-story structures with hollow concrete walls and tile roofing. Appropriation for the work is \$22,500.

FORT MASON, San Francisco—Until October 16, 10 A. M., bids will be received by the Constructing Quartermaster, Fort Mason, for changing present hot water heating system in the Ninth Corps Area Headquarters

Building, Presidio of San Francisco, to a Vacuum Steam Heating System. Plans and specifications may be obtained on deposit of \$5 (certified check only) made payable to the Treasurer of the United States.

SAN DIEGO, Cal.—W. F. Wahrenberger, 3924 Henry St., San Diego, submitted the low bid to the Eleventh Naval District on October 5, at \$9289, for extension to dispensary at the Naval Operating Base (Air Station), San Diego; Specification 7436. The bids were held under advisement. The work consists of a one-story building extension, approximately 34x45 feet, and includes plain and reinforced concrete; brick and hollow tile work, etc. The bids follow:

W. F. Wahrenberger, (1) \$9289; (2) \$1015.

B. O. Larsen, (1) \$9910; (2) \$800.

M. H. Golden, (1) \$10,000; (2) \$1100.

A. E. Keyes, (1) \$10,222; (2) \$1070.

J. A. Hunt, (1) \$10,384; (2) \$1050.

B. F. Campbell and Moran, (1) \$10,591; (2) \$1081.

W. E. Kier Construction Co., (1) \$10,696; (2) \$1000.

R. E. Campbell, (1) \$11,950; (2) \$1950.

Miracle Construction Co., (1) \$13,382; (2) \$203.

Three lowest bids were reported yesterday.

1st report Sept. 21; 2d Oct. 6, 1933.

SUNNYVALE, Santa Clara Co., Cal.—Until October 18, 1933, 11 a. m., bids will be received by Public Works Officer, Twelfth Naval District, 100 Harrison St., San Francisco, under Specification No. 7493 for partitions and equipment for post office at the Naval Air Station, Sunnyvale, Mountain View, Cal. The work includes wood partitions, grille work, tables, racks, bins, cabinets, hardware and finishing.

Drawings and specifications may be obtained from the Public Works Officer on a deposit of \$5 certified check or money order, made payable to Chief of the Bureau of Yards and Docks.

SAN DIEGO, Cal.—Until 11 A. M., October 20, bids will be received by the Eleventh Naval District, San Diego, for enclosing second story porches in barracks buildings, 2, 3, 14 and 15, at the Naval Operating Base (Training Station), San Diego; Specifications 7486. The work consists in general of furnishing and installing wooden frames with sash, doors, screens, glazing, hardware and painting on approximately 52 window openings and 8 door openings. Bidding data may be obtained from the district upon deposit of a check or postal money order for \$5, payable to the Chief of the Bureau of Yards and Docks.

POINT VINCENTE, Cal.—Christenson, Johnson & Dahlquist, 606 W. 80th St., Los Angeles, submitted the low bid to the Commandant, U. S. Coast Guard, Washington, D. C., on October 4, at \$13,737 (not including fence), for the erection of a radio station building and a garage at Point Vicente. Pacific System Homes bid \$13,811.85 (including fence), and John T. Bibb bid \$13,972. The contract will be awarded in Washington within a few days to one of the two low bidders. The radio building will be a two-story, frame and stucco structure, 65x32 feet in area. The garage will be one-story, 21x35 feet, frame and stucco.

SAN DIEGO, Cal.—B. O. Larson, 1340 E St., San Diego, submitted low bid to the Eleventh Naval District at San Diego on October 6, at \$30,958 for constructing a heating plant building and a chimney at the Naval Operating Base (Air Station), San Diego;

Specification 7415. Recommendation was made that the contract be awarded the low bidder. Improvements will consist of concrete work, steel and iron, steel windows, tile roofing, stucco and plastering, etc. The bids follow:

B. O. Larson, (1) work complete, \$30,958; (2) work complete, exclusive of chimney and electrical work, \$26,418; (3) price for chimney only, including ladders and electrical work, \$6000.

Stanton-Reed Co. (1) \$33,302; (2) \$28,693; (3) \$4758.

M. H. Golden, (1) \$33,843; (2) \$29,577; (3) \$4566.

George Hess, (1) \$34,785; (2) no bid; (3) no bid.

G. F. Campbell and Frank Doran, (1) \$35,793; (2) \$29,693; (3) no bid.

W. E. Kier Constr. Co., (1) \$35,888; (2) \$29,816; (3) \$6573.

J. A. Hunt, (1) \$36,392; (2) \$30,331; (3) \$6060.

L. S. Dow, (1) \$38,700; (2) \$33,200; (3) no bid.

H. Mayson, (1) \$40,000; (2) \$34,000; (3) \$6600.

Associated Constructors, (1) \$43,982; (2) \$37,913; (3) \$6069.

1st report Sept. 6; 2nd Sept. 29, 1933.

BREMERTON, Wash.—K. E. Parker Company, 135 South Park, San Francisco, at \$653,400 submitted low bid to Public Works Officer, Puget Sound Navy Yard, for construction of shop building under Specification No. 7338. Jacobsen Brothers, Chicago, submitted second low bid at \$678,000; Madsen Construction Company, Minneapolis, third at \$683,200. Eighteen bids were received and taken under advisement.

(2641) 1st rpt Sept. 8; 3rd Oct. 3, 1933.

Plans Being Revised.

POST OFFICE Cost. \$100,000 HAYWARD, Alameda Co., Cal. NE 1

Watkins and C Streets.

One-story and basement Class A concrete and brick Post Office.

Owner—United States Government. Architect—Bliss & Fairweather, Balboa Bldg., San Francisco.

Plans have been received from Washington, with instructions for revisions.

(718) 1st report Feb. 17; 4th Aug. 25, 1933.

PALMDALE, Los Angeles Co., Cal.—Neil & Wirtner, Box 414, Turlock, Calif., at \$1229 awarded contract by the U. S. Lighthouse Service, Customhouse, for the moving of a keeper's watchhouse to a site at the Palmdale Airway Station, Los Angeles Co. () 1st report Sept. 22, 1933.

CHOLLAS, HEIGHTS, Cal.—Until Wednesday, November 1, bids will be received by the Chief of the Bureau of Yards and Docks, Navy Department, Washington, D. C., for painting four radio towers at the Naval Radio Station, Chollas Heights, Calif.; Specification No. 7391. A deposit of \$10 is required for bidding data.

OGDEN, Utah.—Bids will be received until October 24, 1933, 2 P. M., by the Supervising Architect, Treasury Dept., Washington, D. C., for painting, plastering in U. S. Post Office and Courthouse at Ogden. Specifications may be obtained from the Custodian of the building or at the office of Jas. A. Wetmore, Acting Supervising Architect, Washington, D. C.

NAMPA, Idaho.—Bids will be received until October 23, 1933, 2 P. M. by the Supervising Architect, Treasury Dept., Washington, D. C., for painting and plastering in U. S. Post Office at Nampa; Specifications may

he obtained from the Custodian of the building or at the office of Jas. A. Wetmore, Acting Supervising Architect, Washington, D. C.

SAN RAFAEL, Marin Co., Calif.—Until October 23 at 2:30 P. M., bids will be received at the office of the Constructing Quartermaster, Hamilton Field, San Rafael, for construction of the garage building.

Specifications obtainable from the above on deposit of \$10 and on file at the office of the Constructing Quartermaster, Fort Mason, and the Builders' Exchange, 666 Mission St., San Francisco.

SAN RAFAEL, Marin Co., Calif.—Until October 23 at 2:00 P. M., bids will be received at the office of the Constructing Quartermaster, Hamilton Field, San Rafael, for construction of the fire station and guard-house building at Hamilton Field.

Specifications obtainable from the above on deposit of \$10 and on file at the office of the Constructing Quartermaster, Fort Mason, and the Builders' Exchange, 666 Mission St., San Francisco.

VAN NUYS, Los Angeles Co., Cal.—Architect J. Robert Harris, 6715 Hollywood Blvd., Los Angeles, has working plans seventy per cent complete for the United States Post Office to be built on Sylvan St., between Van Nuys Blvd. and Vesper St., Van Nuys. It will be a one-story and mezzanine, Spanish style structure, of steel and masonry construction, clay tile roofing, steel sash, etc. There is approximately \$87,000 available for erecting and equipping the building.

Plans Being Figured—Bids Close Nov. 7, 1933.

FEDERAL BUILDING

Total Cost, \$2,689,000

SAN FRANCISCO. Civic Center.

Six-story and basement reinforced concrete Federal office building (granite exterior, terra cotta court lining, promenade, terrazzo and tile flooring, mastic tile floors in offices, steam heating, seven elevators, etc.

Owner—United States Government. Architect—Arthur Brown, Jr., 251 Kearny Street.

Mechanical Engineer—Leland & Haley 58 Sutter Street.
Structural Engineer—C. H. Snyder, 251 Kearny Street.

Plans are obtainable from the Supervising Architect's Office at Washington, D. C., on a deposit of \$50.00 certified check, made payable to the Treasurer of the United States. (2418) 1st report Sept. 20, 1932; 18th, Sept. 14, 1933.

POINT ARGUELLO, Cal.—U. S. Coast Guard, Washington, D. C., will start plans shortly for a station building and accessories to be built at Point Arguello, Calif. Appropriation for the work is \$800,000.

TECATE, San Diego Co., Cal.—Until 3 P. M., October 17, supplemental bids will be received by the Treasury Dept. Office of the Supervising Architect, Washington, D. C., for the construction of the United States inspection station at Tecate. Bids will be considered from the original bidders only. The station will consist of an inspection building, a garage and two dwellings. The inspection building will be a two-story, L-shaped structure, extreme dimensions, 133x65 feet; concrete foundations, brick walls, tile and composition roof, stucco exterior, interior tile work, one-pipe steam heating system, etc. The garage will be a brick structure and the dwellings will be wood frame and stucco with tile roofs. Gunner Johnson, 2521 33rd St., San Diego, sub-

mitted the low bid of \$46,450 on Mar. 7. Other bidders were: John A. Hunt, P. O. Box 146, East San Diego; North-Moller Co., Jackson, Mich.; R. E. McKee, Central Bldg., Los Angeles; Anton Johnson Co., 921 Monterey Rd., South Pasadena; Ramey Bros., Mills Bldg., El Paso, Texas; Associated Constructors, 1226 S. La Brea Ave., Los Angeles; John Strona, Philadelphia and East End Aves., Pomona; Norman F. Barber, 621 S. Hope St., Los Angeles; Campbell Constr. Co., 951 S. Genesee St., Los Angeles; W. E. Kier Constr. Co., 747 Third Ave., San Diego; Willard Lutz, 1630 Lyman Pl., Los Angeles; Andy Sordal, 722 Magnolia Ave., Long Beach; B. O. Larsen, 1340 E St., San Diego; Floyd Shofner, 5670 Wilshire Blvd., Los Angeles; J. E. Burrell, 346 Euclid Ave., Long Beach.
(507) 1st report Jan. 25; 9th March 8, 1933.

CUSHING, Okla.—Nicholas Billani, West Brighton, Staten Island, N. Y., submitted low bid to the Treasury Department on October 6, at \$80,543 on proposal No. 1 and \$81,643 on proposal No. 2, for the construction of the United States Post Office at Cushing, Okla.
(2177) 1st report July 19; 4th Sept. 15, 1933.

Complete list of bids follow:

- (A) Nicholas Villani, New York.
- (B) Olson Constr. Co., Lincoln, Nebr.
- (C) A. J. Rife, Dallas, Texas.
- (D) Blauner Constr. Co., Chicago.
- (E) Wm. MacDonald Constr. Co., St. Louis, Mo.

	Bid 1	Bid 2
(A).....	\$80,543	\$81,643
(B).....	83,000	86,500
(C).....	83,808	86,300
(D).....	84,800	86,800
(E).....	6,294	87,900

(2177) 1st report July 19; 5th Oct. 11, 1933.

PORTERVILLE, Tulare Co., Cal.—The Keyless Lock Co., at \$952 awarded contract by U. S. Treasury Department, Division of Supplies, Washington, D. C., for steel furniture for Post Office building at Porterville.
October 12, 1933

CONTRACT AWARDED

LAS VEGAS, Nev.—Hubeny Bros. at \$115 awarded contract by U. S. Treasury Department, Division of Supplies, Washington, D. C., for furnishing one case for drawings for Federal Building at Las Vegas. Other bidders were:

- Interior Steel Equipment Co., \$123.50;
- Corry-Jamestown Mfg. Co., \$126;
- Peerless Steel Equipment Co., \$126;
- Invincible Metal Furniture Company, \$127.50;
- Keyless Lock CSmpany, \$160;
- Jamestown Metal Equipment Co., \$234.50.

8—CLUB BUILDINGS

Work Started By Day Labor.
ALTERATIONS Cost, \$10,000
SACRAMENTO, Cal. Plaza Theatre. Remodel second floor of theatre into night club.
Owner—Fred Banducci and Frank Bartley, 1301 57th St., Sacramento
Architect—Not Given.
Extensive decorating in Egyptian style is planned.

9—HOSPITALS

SAN FRANCISCO, Cal.—The following contracts have been awarded by T. A. Brooks, purchaser of supplies: Kitchen equipment, beds and hospital furniture, under invitation to Bid No. 1057.
The Rome Company, Inc.; Dohrmann Hotel Supply Co.; Heywood-Wakefield Co.; Elkington Hellwig Mfg.

Co.; The Simmons Co.; Travers & Hennig, Inc.; Reid Bros., Inc.; Colson Equipment and Supply Co.; Eames Co.; Electric Appliances, Inc.; Sherman-Clay & Co.; Shirar-Young Co.; Hild Floor Machine Co.; Mangrum-Holbrook Co.

Commissioned to Prepare Plans.
REMODEL Cost, \$15,000
BAKERSFIELD, Kern Co., Cal.
Remodel isolation ward and alterations to hospital water system.
Owner—Kern County.
Architect—Ernest J. Kump, Rowell Bldg., Fresno.

Commissioned to Prepare Plans.
COUNTY HOME Cost, \$20,000
BAKERSFIELD, Kern Co., Cal.
Fireproof old men's home.
Owner—Kern County.
Architect—Ernest J. Kump, Rowell Bldg., Fresno.

SANTA CRUZ, Santa Cruz Co., Cal.
County Purchasing Agent Allen Horton has been instructed by the Supervisors to start work by day's labor on the laundry building for the County Hospital. Cost not to exceed \$1000. (2807) 9

SAN FRANCISCO—All bids received by Veterans' Administration Procurement Division, Washington, D. C., for laundry machinery for hospital in San Francisco were returned unopened.

Bids To Be Called For Next Week.
STATE HOSPITAL Cost, \$—
CAMARILLO, Ventura Co., Cal.
Units 2, 3 and 4, ward and administration quarters (two-story reinforced concrete buildings with tile roof).
Owner—State of California.
Architect—George B. McDougall, State Architect, Public Works Building, Sacramento.
It is planned to advertise for bids starting about October 17.

Plans Being Prepared.
HOME Cost, \$225,000
SITKA, Alaska.
Two-story reinforced concrete building, 250x150 feet (home for pioneers).
Owner—Territory of Alaska.
Architect—Heath, Gove & Bell, P. S. Bank Bldg., Tacoma, Wash.
The buildings are to replace the present structures of the Alaska Pioneers' Home. Wm. Hesse, territorial engineer at Juneau, is chairman of the committee in charge of the project at Sitka and Frank A. Boyle, is secretary.

10—HOTELS

Segregated Bids Being Taken—Bids Close Oct. 16, 12 Noon.
HOTEL Cost, \$20,000
MARYSVILLE, Yuba Co., Cal. No. 424 Fifth Street.
Rebuild fifth floor (32 rooms) of five-story reinforced concrete and brick hotel which was recently destroyed by fire.
Owner—Marysville Hotel.
Architect—Charles Dean, California State Life Bldg., Sacramento.
Engineer—C. A. Worden, Marysville Hotel, Marysville.
Construction work requires carpentry millwork, cabinet work, painting, lathing and plastering, electrical lighting, plumbing, heating, tile and insulation.

All bids must be segregated and submitted sealed by Noon on October 16, at the office of C. F. Aaren, Acting President, Marysville Hotel Company, 405 D Street, Marysville.
A deposit of \$1.00 for each set of plant and spec. is required, to be returned upon return of each set in good condition.

Plans and specifications may be obtained from Chas. A. Worden, Supervising Engineer, Marysville Hotel, Marysville, Calif.
(2613) 1st report Sept. 5; 3rd Sept. 23, 1933.

Work Started.

ALTERATIONS Cost, \$—
HOLLISTER, San Benito Co., Cal.
Fourth and East Streets.
Alter hall building into hotel.
Owner—Abbondio Boscacci, Hollister
All building materials are being supplied by the Hayward Lumber Company.

12— POWER PLANTS

Contract Awarded.
SUB-STATION Cost, Approx. \$20,000
SAN RAFAEL, Marin Co., Cal.
Steel and galvanized iron sub-station.
Owner—Standard Oil Co. of California
225 Bush St., San Francisco.
Plans by Engineering Dept. of Owner
Contractor—Duncanson-Harrelson Co.
deYoung Bldg., San Francisco.
(2778)

13— PUBLIC BUILDINGS FIRE HOUSES A JAILS

SAN QUENTIN, Marin Co., Cal.—
Westinghouse Electric Elevator Co.
166 7th St., San Francisco, awarded
contract by State Division of Architecture, at \$2638 for furnishing and installing a passenger elevator at San Quentin prison.

October 11, 1933

FOLSOM, Sacramento Co., Calif.—
Golden Gate Iron Works, 1541 Howard St., San Francisco, at \$5,829 submitted the lowest informal bid to the State Purchasing Office in Sacramento for the construction of cell fronts and miscellaneous iron work at the Folsom Prison. Bids were taken under advisement. Following is a complete list of the bids:

Golden Gate Iron Works, 1541 Howard St., San Francisco, \$5,829 (½% discount for 10 days).

H. C. Smith Co., \$6,195 (½% discount for 15 days).

Judson-Pacific Co., 609 Mission St., San Francisco, \$6,255.

Palm Iron Works, Sacramento, \$6,430.

Mortenson Const. Co., San Francisco, \$6,892.

Folsom St. Iron Works, San Francisco, \$6,965.

Pacific States Elec. Mfg. Co., San Francisco, \$8,047.

Hermann Safe Co., San Francisco, \$10,700.

Dinuba Steel Products Co., San Francisco, \$11,945.

SAN FRANCISCO.—The Plant and Rubber Asbestos Works, 537 Brannan St., at \$27.50 submitted lowest bid to the Board of Public Works, S. J. Hester, Deputy Director, for repairs on No. 17 engine house, between 5th and Mint Ave., as follows:

Steam return piping to be covered with 85% magnesia pipe covering, and boiler to be covered with 1-in. 85% magnesia blocks, ½-inch 85% magnesia cement, wire, paste, and canvas.

Other bidders were:

Asbestos Company of Calif. \$58.00

Western Asbestos Company 59.00

Standard Asbestos Company 116.50

CONCORD, Contra Costa Co., Cal.—
The City Trustees have adopted a resolution to aid in the construction of a fire hall. Federal aid will be applied for.

1st report Sept. 21, 1933.

REDLANDS, San Bernardino Co., Cal.—Architect Howard E. Jones, 518 Anderson Bldg., San Bernardino, has completed preliminary plans for the proposed new Redlands city hall and the city will prepare its application immediately for a \$76,000 government loan with which to finance the building. It will be a fireproof structure, containing 14,934 square feet of floor space, with reinforced concrete walls and floor and roof slabs and a two-pipe steam heating system.

Bids Being Taken By Owner.
RESIDENCE Cost, \$5500
SAN FRANCISCO, N Belgrave St. E of Stanyan St.

Two-story and basement frame and stucco residence, Italian Style (5 rooms).

Owner—Miss M. Malone, 555 Buena Vista Ave., San Francisco.

Architect—Harold Stoner, 200 Castro St., San Francisco.

Sub-Contracts Awarded.
RESIDENCE Cost, \$10,800
SAN MATEO, San Mateo Co., Cal.
In San Mateo Park.

Two-story frame and stucco Monterey Colonial residence (9 rooms and 3 baths); tile roof, hot air gas heating, ornamental iron work, etc.

Owner—J. Gensler.
Architect—Leo Sharps, 1477 Burlingame Ave., Burlingame.

Contractor—Lengfeld & Olund, 220 3rd Ave., San Mateo.

Concrete Work—M. Camerotto, San Mateo.

Concrete Materials—H. E. Casey Co., San Mateo.

Brickwork—Chas. Ohran & Sons, Burlingame.

Heating & Sheet Metal—G. & M. Sheet Metal Works, San Mateo.

Plumbing—E. C. Cottler, San Mateo.

Electricity—Atlas Electric Co., San Mateo.

Mill Work—Pacific Manufacturing Co., Santa Clara.

Reinf. Steel—Concrete Engineering Co., San Francisco.

Roofing—W. J. Anderson, San Francisco.

Painting—A. Petterson, San Mateo.

Plastering—P. Venturelli, San Mateo.
(2728) 1st report Sept. 26, 1933.

Taking Sub-Bids.
RESIDENCE Cost, \$4500
BERKELEY, Alameda Co., Cal. On Euclid Ave.

Two-story, 6-room, frame residence; tile roof, gas hot-air heating system, etc.

Owner and Builder—Budd Reininghaus, 622 Santa Fe Ave., Berkeley.

Sub-Contracts Awarded.
RESIDENCE Cost, \$10,000
OAKLAND, Alameda Co., Cal. No. 1850 Leimert Blvd.

Two-story and basement frame and stucco residence (8 rooms).

Owner—Dr. H. M. Pier.
Architect—Not Given.

Contractor—Henry T. McKallor, 2231 E-39th St., Oakland.

Lumber—Tilden Lumber Co., Foot of University Ave., Berkeley.

Millwork and Frames—Clinton Mill & Lumber Co., 701 4th Ave.

Roofing—Roy Gordon.

Brick—Morgan Bros., 2205 84th Ave.

Plumbing—Max Finzel, 2025 Hopkins Street.

Tile—Brockhurst Tile Co., 2819 Shattuck Ave., Berkeley.

Electric—Diamond Electric Co., 2100 Hopkins Street.

Heating—Atlas Heating & Ventilating Co., 1451 32nd St.

Plastering—A. Springer Co., 620 17th Street.

Steel Sash—Detroit Steel Products Co., 63rd and Doyle (through Morton Gleason).

Concrete—Reichel & Bredhoff, 1555 Central Ave., Alameda.

Hardware—H. and Parker Allen.
1st report Sept. 11.

14— RESIDENCES

Sub-Contracts Awarded.
RESIDENCE Cost, \$20,000
HILLSBOROUGH, San Mateo Co., Cal.

Two-story and basement frame and stucco residence (13 rooms and 4 baths), English type, slate roof, gas heating system, hardwood floors.

Owner—Nathan Rothman.
Architect—Hyman & Appleton, 68 Post St., San Francisco.

Contractor—Jacks & Irvine, Call Bldg. San Francisco.

Plastering: Peter Bradley, 629 Brannan St., San Francisco.

Stairs: E. D. Philbrick, 41 Sheridan St., San Francisco.

As previously reported, roofing by Alta Roofing Co., 976 Indiana St., San Francisco.
(2357) 1st report Aug. 5; 2d Sept. 16, 1933.

Plans Being Figured.
RESIDENCE Cost, \$6000
SAN FRANCISCO. Stockton and O'Farrell Sts.

One-story frame residence (5 rooms and breakfast room; penthouse on roof of 9-story department store building).

Owner—O'Connor, Moffatt & Co., Premises.

Architect—O. A. Deichmann, 110 Sutter St., San Francisco.

Landscape gardening, gas enclosed dining terrace, etc.

Contract Awarded.
RESIDENCE Cost, \$7750
SAN FRANCISCO. W San Alejo 107 S Darien Way.

One-story and basement frame residence.

Owner—Mrs. A. E. McDaniel.

Architect—S. A. Colton, 544 Market St., San Francisco.

Contractor—H. H. Isaac, 1738 Page St., San Francisco.
(2701) 1st report Sept. 15, 1933

Sub-Contracts Awarded.
RESIDENCE Cost, \$—
HILLSBOROUGH, San Mateo Co.

Two-story and basement residence (10 rooms and 3 baths) shakes and plaster exterior, shake roof, gas heating system, hardwood floors, etc.

Owner—Sydney Leibes.
Architect—William I. Garren, 233 Post St., San Francisco.

Contractor—Moore & Roberts, 693 Mission St., San Francisco.

Heating—B. B. Stern & Co., 241 Park Road, San Mateo.

Sheet Metal Work—Gaffigan Sheet Metal Works, 309 8th Ave., San Mateo.

Brick work will be awarded in a few days.

Other sub-contracts reported Sept. 30.

(2298) 1st report July 31; 7th Sept. 30, 1933.

Preliminary Plans Being Prepared.
RESIDENCE Cost, \$6500
ATHERTON, San Mateo Co., Cal.

Two-story and basement frame Colonial style residence (7 room and 2 baths) and garage.

Owner—Withheld.
Architect—Williams & Wastell, 374 17th St., Oakland.

Shingle roof, oil burning heating system, tile, etc.

Plans will be completed in two weeks.

Preliminary Plans Being Prepared.
RESIDENCE Cost, \$7000
SACRAMENTO, Sacramento Co., Cal.
 Five and one-half miles north.
 One-story frame residence (8 rooms
 and 3 baths); 2-car garage.
 Owner—Withheld.
 Architect—Williams & Wastell, 374
 17th St., Oakland.
 Plans will be completed in two
 weeks.

Contract Awarded—Taking Sub-Bids.
RESIDENCE Cost Approx. \$8500
BERKELEY, Alameda Co., Cal. Al-
 varado Road, Claremont District.
 Two-story frame and stucco Mediter-
 ranean style residence (9 rooms,
 4 baths).
 Owner—R. E. Wolf, 6436 Hillegass
 Ave., Berkeley.
 Architect—Edwin L. Snyder, 2101 Ad-
 dison St., Berkeley.
 Contractor—E. W. Urch, 1924 50th
 Ave., Oakland.
Lumber—Sunset Lumber Company.
Mill Work—Melrose Lumber Co.
 Sub-bids are wanted on all other
 branches of the work.
 (2596) 1st report Sept. 1; 3rd, Oct.
 1, 1933.

Taking Sub-Bids.
RESIDENCE Cost, \$10,500
LOS ALTOS, Santa Clara Co., Calif.
 Two-story frame and stucco Span-
 ish style residence (8 rooms, 3
 baths; 2-car garage).
 Owner—C. Kowalski.
 Architect—Chester H. Treichel, 679
 Haddon Road, Oakland.
 Contractor—Orton and Tunberg, 218
 Cowper St., Palo Alto.
 Contractors selected by owner.

Sub-Contracts Awarded
RESIDENCE Cost, \$8143
SAN MATEO, San Mateo Co., Cal.
 Baywood Park.
 One-story and basement frame and
 stucco residence (6 rooms and 2
 baths), tile and composition roof-
 ing, hardwood floors, etc.
 Owner—Ernest Pierre.
 Architect—William H. Toepke and G.
 Hinterman, Associated, 74 New
 Montgomery St., San Francisco.
 Contractor—H. H. Larsen Co., 64
 South Park, San Francisco.
Roof: W. J. Anderson, 244 Dorland
 St., San Francisco.
Painting: A. A. Zelinsky, 4420 Califor-
 nia St., San Francisco.
Mill Work: Pacific Mfg. Co., Santa
 Clara.
Plumbing: H. I. Lauder, Burlingame.
 Other sub-contracts were reported
 Sept. 15th.
 (2673) 1st report Sept. 13; 3rd Sept.
 28, 1933.

PASADENA, Los Angeles Co., Cal.—
 The Pasadena Board of Education has
 commissioned architects to prepare
 plans and specifications for repairing
 schools as follows:
 Robert H. Ainsworth, Central Bldg.,
 Pasadena—Grover Cleveland elemen-
 tary school, \$35,000.
 Austin & Ashley, Chamber of Com-
 merce Bldg., Los Angeles—Pasadena
 junior college auditorium, \$125,000.
 Bennett & Haskell, 311 First Trust
 Bldg., Pasadena—Junior college main
 building, \$275,000.
 Myron Hunt, 408 S. Spring St., Los
 Angeles—James A. Garfield elementary
 school, \$100,000.
 Marston & Maybury, 25 S. Euclid
 Ave., Pasadena—Altadena elementary
 school, \$100,000.
 Marston & Maybury, 25 S. Euclid
 Ave., Pasadena—Jane Addams and
 junior college buildings, \$150,000.

Ready For Bids In A Few Days.
RESIDENCE Cost, \$6000
PIEDMONT, Alameda Co., Calif. In
 Piedmont Pines.
 1½-story 6-room frame and stucco

residence (English style).
 Owner—Not Given.
 Architect—Miller & Warnecke, Finan-
 cial Center Bldg., Oakland.
 Shake roof, oil burning hot air heat-
 ing, etc.
 (2793) 14

Taking Sub-Bids.
RESIDENCE Cost, \$4000
OAKLAND, Alameda Co., Calif. 3744
 Elston Avenue.
 One-story 6-room frame residence.
 Owner—J. W. Scammell, 424 Scenic
 Ave., Piedmont.
 Architect—Not Given.

Preparing Working Drawings.
RESIDENCE Cost, \$—
SAN FRANCISCO, Crown Terrace &
 Twin Peaks Blvd.
 One-story frame and stucco residence
 (5 rooms).
 Owner—F. O. Andres, 735 Gough St.,
 San Francisco.
 Architect—S. A. Colton, 544 Market
 St., San Francisco.
 Tile and composition roof, gas heat-
 ing system, oak plank floors, tile bath.
 Owner will take segregated bids.
 (2794)

Plans Being Prepared.
RESIDENCE Cost, \$—
SAN FRANCISCO, Mallorca Way, bet.
 Capra Way and Beach St.
 Two-story and basement frame and
 stucco residence.
 Owner—Withheld.
 Architect—Geo. E. Ralph, 110 Sutter
 St., San Francisco.
 Plans will be ready for bids in about
 two weeks.

Contract Awarded.
ALTERATIONS Cost, \$7500
HILLSBOROUGH, San Mateo Co.
 Alter residence and install passenger
 elevator.
 Owner—Wm. H. Crocker, Crocker-1st
 National Bank Bldg., S. F.
 Architect—Lewis P. Hobart, Crocker
 Bldg., San Francisco.
 Contractor—Dowsett-Ruhl Co., Russ
 Bldg., San Francisco.
 Elevator awarded to Otis Elevator
 Company.

Contract Awarded.
RESIDENCE Cost, \$3615
SAN JOSE, Santa Clara Co., Calif.
 Lot 5 Blk 1 Alameda Park "R".
 Residence.
 Owner—Neil O. and Marie A. Thomas,
 559 Hoover Ave., San Jose.
 Architect—Not Given.
 Contractor—Gibson Wheeler Co., Inc.,
 19 N 2nd St., San Jose.

Contract Awarded.
RESIDENCE Cost, \$7750
PALO ALTO, Santa Clara Co., Calif.
 1200 Hamilton Avenue.
 Two-story 5-room frame residence.
 Owner—J. H. Lewis, Menlo Park.
 Architect—Not Given.
 Contractor—W. F. Klay, Alameda, de
 las Pulgas, Menlo Park.

Sub-Contracts Awarded.
RESIDENCE Cost, \$15,000
SAN FRANCISCO, Marina District.
 Two-story and basement frame, stucco
 and brick veneer residence (eight
 rooms and two baths).
 Owner—Dr. Nicholas Zuardot and Dr.
 Katherine Barbick.
 Architect—Clarence Tantau, 210 Post
 St., San Francisco.
 Contractor—Fred DuPuy, 110 Sutter
 St., San Francisco.
Plumbing & Tile—Scott Co., 243 Min-
 na St., San Francisco.
Roofing—Alta Roofing Co., 976 Indiana
 St., San Francisco.
Lumber—Rolando Lumber Co., Fifth
 and Berry Sts., San Francisco.
Reinforcing Steel—Gunn, Carle & Co.,
 20 Potrero Ave., San Francisco.

Other contracts will be awarded in
 a few days.
 (2133) 1st report July 14; 6th, Oct.
 4, 1933.

Taking Sub-Bids.
RESIDENCE Cost, \$—
SAN FRANCISCO, NW Williams
 and Neptune Streets.
 One-story and basement frame and
 stucco residence (8 rooms and 2
 baths); Spanish style, roof tile,
 hot air gas furnace, oak floors, or-
 namental iron, colored tile baths,
 kitchen, etc.
 Owner—J. Dematel, 127 Williams St.,
 San Francisco.
 Architect—Not Given.
 Contractor—Empire Construction Co.,
 Shell Bldg., San Francisco.
 Sub-bids wanted on all branches of
 the work.
Lumber—McCallum Lumber Co.
 1st report Oct. 3, 1933.

Plans To Be Revised.
RESIDENCE Cost, \$—
ROSS, Marin Co., Cal. Lagunitas Ave.
 Two-story and basement frame and
 stucco residence (9 rooms and 3
 baths) shakes roof, probably gas
 heating system, tiled baths, col-
 ored fixtures, hardwood floors, etc.
 Owner—Japhe Van Meurs.
 Architect—H. H. Winner, Woodsworth
 Ave., Ross.
 E. E. Vaughn, 269 Crescent Road,
 San Anselmo, submitted the lowest
 bid recently at \$12,443, which was con-
 sidered too high. Plans will be re-
 vised.
 (1976) 1st report June 29; 3rd, Sept.
 13, 1933.

Contracts To Be Awarded Shortly.
RESIDENCE Cost, \$10,000
SAN FRANCISCO, Marina Blvd. 100
 E Webster Street.
 Two-story and basement frame, stucco
 and stone residence (7 rooms and
 3 baths) slate and flat roof, air
 conditioning system, tiled baths,
 hardwood floors and trim, etc.
 Owner—Dr. Bernard A. Cody, 350
 Bush St., San Francisco.
 Architect—Harvey E. Harris, 38 San
 Fernando Way, San Francisco.
 Segregated bids are practically all
 in.
 (2504) 1st report Aug. 22, 2nd Sept.
 26, 1933.

15—SCHOOLS

TUCSON, Ariz.—University of Ari-
 zona has applied to the Public Works
 Administration for a loan of \$800,000
 to finance the construction of new
 buildings at the university in Tucson.
 The program includes the following
 new structures; Science building, lib-
 eral arts college, administration build-
 ing, auditorium, women's gymnasium,
 museum, infirmary and stables.

LOS ANGELES, Cal.—W. M. Bos-
 tock, structural engineer, 6723 Passaic
 St., Huntington Park, has been com-
 missioned by the Los Angeles Board
 of Education to prepare plans and
 specifications, including preliminary
 drawings, analyses, structural design
 computations and estimates of cost
 for the work of repairing, reconstruct-
 ing and reinforcing the Liberty
 Boulevard School.

Completing Working Drawings.
SCHOOL Cost, \$10,000
GRASS VALLEY, Nevada Co., Cal.
 One-story Class C reinforced concrete
 shop building for school (3 room).
 Owner—Grass Valley High School
 District.
 Architect—Frederick H. Reimers, 233
 Post St., San Francisco.
 State Architect has preliminary
 plans for approval.

KENTFIELD, Marin Co., Cal.—Ernest Ongaro, Fairfax at \$718 awarded contract by Ada M. Fusselman, Secretary, Junior College Board, Marin Union College District, for a gas steam heating system in the Tamalpais Center Auditorium. (2532) 1st report Aug. 26; 2nd Sept. 23, 1933.

TEHACHAPI, Kern Co., Cal.—Tehachapi Valley Union High School District has applied to the Public Works Administration for a loan of \$27,650 and a grant of \$11,850 to be used for constructing a second unit at the Tehachapi high school. Edwin J. Symmes, architect, Haberfelde Bldg., Bakersfield.

TEHACHAPI, Kern Co., Cal.—Tehachapi Elementary School District has applied to the Public Works Administration for a loan of \$30,100 and a grant of \$12,900 to be used for adding a concrete unit to the Tehachapi school. Edwin J. Symmes, architect, Haberfelde Bldg., Bakersfield.

KERN COUNTY, Cal.—Richland School District, Kern County, has applied to the Public Works Administration for a loan of \$49,000 and a grant of \$21,000 to be used for constructing a school building. Edwin J. Symmes, architect, Haberfelde Bldg., Bakersfield.

DELANO, Kern Co., Cal.—Delano Union Grammar School District has applied to the Public Works Administration for a loan of \$42,000 and a grant of \$18,000 to be used for constructing a school auditorium. Edwin J. Symmes, architect, Haberfelde Bldg., Bakersfield.

Plans Being Figured—Bids Close October 19, 1933, 8 P. M.

ADDITIONS Cost, \$—
SHAFTER, Kern Co., Cal.
Alterations and additions to branch high school.
Owner—Kern County Union High School District.
Architect—Edwin J. Symmes, 215 Haberfelde Bldg., Bakersfield.

Plans and specifications may be obtained from the architect on a deposit of \$10 on each set.

SAN FRANCISCO, Cal.—Empire Roofing Co., 261 Silver Ave., awarded contract at \$81 to Department of Public Works, 251 City Hall, for covering concrete surface of the passageway roof of the Parkside School, 25th Ave. and Ulloa St., with 5-ply tar and gravel.

RIVERSIDE, Riverside Co., Cal.—Until 7:30 p. m., October 23, bids will be received by the Riverside Board of Education, 3450 Ninth St., Riverside, for the construction of a shop building at Polytechnic High School. Cash, cashier's check or certified check in the amount of 10 per cent must accompany each bid. Plans and specifications may be obtained from Architect G. Stanley Wilson, 3616 Main St., Riverside, upon deposit of \$25.

WHITTIER, Los Angeles Co., Cal.—Whittier Union High School District awarded contracts on October 4 for the construction of a 2-story class A reinforced concrete classroom and science building in Whittier. In accordance with plans and specifications prepared by Architect R. L. Warren, Emporium Bldg., Whittier. Contractors receiving the awards, and the low approximate amount of each contract, follow:

Concrete Work—Reed & Maiser, 1241 97th St., Los Angeles, \$39,800.
Steel Joists—Truscon Steel Co., Los

Angeles, \$5995.

Miscellaneous and Ornamental Iron—Hurley-Wilson Co., Whittier, \$1056.
Roofing—Metropolitan Roof Service Co., 1552 W. 59th Place, Los Angeles, \$1120.

Sheet Metal and Skylights—James Hamilton, Whittier, \$173.

Carpentry—J. H. Linkletter, 107 W. Bailey St., Whittier, \$27,000.

Furring, Lathing and Plastering—A. Karelius, 2178 Casitas Ave., Pasadena, \$11,478.

Metal Toilet Partitions—Continental Building Specialties Co., \$350.

Glass and Glazing—Farmers Hardware Co., Whittier, \$1383.

Tile Work—H. L. Keck, Norwalk, \$855.

Painting—Tondro & Bowers, Covina, \$1760.

Plumbing—Allen Black & Son, 5063 Hollywood Blvd., Los Angeles, \$10,000.

Heating—Harry Barkelew Co., 652 San Julian St., Los Angeles, \$10,325.

Electrical Work—R. R. Jones Electric Co., 1124 S. Fair Oaks Ave., South Pasadena, \$14,622.

The steel windows and the acoustical treatment will be eliminated.

SAN JOSE, Santa Clara Co., Cal.—President T. W. MacQuarrie, president of the San Jose State College, San Jose, has announced that \$725,000 of federal loan funds has been asked for the following building program.

Extension to the present college library, \$345,000.

Students' union, \$100,000.

Roadways, walks and fences at Spartan Field, \$25,000.

Telescope and equipment for science building, \$75,000.

Steam heating system additions, \$40,000.

Alterations and additions to women's gymnasium, \$30,000.

Speech arts classrooms and auditorium stage alterations, \$50,000.

Storeroom and corporation yard, \$10,000.

Homecoming unit, \$6,000.

Locker rooms and facilities, \$6,000.

Remodeling administration unit, \$5,000.

Lights on Seventh St., \$2,500.

16—BANKS, STORES AND OFFICES

Plans Being Prepared.

ALTERATIONS Cost, \$—
STOCKTON, San Joaquin Co., Cal.
SE California and Main Sts.

Alter three-story and basement store building.

Owner—J. C. Penny Co., W. 34th St., New York City, and Mills Bldg., San Francisco.

Architect—Not Given.

Further information will be given later.

Sub-Contracts Awarded.

STORE Cost, \$80,000
REDWOOD CITY, San Mateo Co., Cal.
Broadway and Hamilton Ave.

One-story, mezzanine floor and basement steel and brick or reinforced concrete store (60x150 ft.)

Owner—David J. Davis, 500 Chelmsford Road, Hillsborough.

Plans by Engineering Department of Lessee.

Supervising Architect—G. Albert Lansburgh, 140 Montgomery St., San Francisco.

Lessee—Montgomery Ward & Co., Chicago, Illinois.

Contractor—Cahill Bros., 206 Sansome St., San Francisco.

Glass: East Bay Glass Co., 621 Sixth St., Oakland.

Sheet Metal Work: Morrison & Co., 74 Duboce St., San Francisco.

Kalsamine: Fire Protection Products Co., 1101 16th St., San Francisco.

Painting: A. A. Zelinsky, 4420 California St., San Francisco.

Asphalt Composition Floor Tile: J. E. Higgins, 423 6th St., San Francisco.

Ornamental and Structural Iron: Star Ornamental Iron Works, 1271 Folsom St., San Francisco.

Floor Tile: Art Tile & Mantel Co., 221 Oak St., San Francisco.

Membrane Waterproofing: Alta Roofing Co., 976 Indiana St., San Francisco.

Plastering: E. A. Ziphon, Palo Alto.

Mill Work: Anderson Bros. Planing Mill & Mfg. Co., Quint and Custer Sts., San Francisco.

Granite: California Cut Stone & Granite Co., Railroad and Magnolia Sts., South San Francisco.

Hardware: Palace Hardware Co., 581 Market St., San Francisco.

Other sub-contracts reported September 13th.

(1828) 1st report June 14; 9th Sept. 13, 1933.

VISALIA, Tulare Co., Cal.—The Holt Elock on the corner of Court and Main Streets was recently destroyed by fire at a loss of approximately \$150,000. Mrs. Grace Holt Enquist of Mill Valley is the owner.

Contract Awarded.

STORES Cost, \$—
SAN FRANCISCO, 626 Market St.
Interior finish for stores.

Owner—Crocker Estate, 525 Crocker Building.

Architect—Kent & Hass, Underwood Building.

Lessee—A. G. Spaulding & Brother.

Contractor—S. Kulchar & Co., 731 E 10th St., Oakland.

(2721) 1st report Sept. 23; 2nd, Oct. 4, 1933.

Completing Plans.

ALTERATIONS Cost, \$25,000
SALINAS, Monterey Co., Cal. Main Street.

Alter two-story Class C store bldg.

Owner—Montgomery Ward & Co., 125 Monterey St., Salinas.

Plans by Engr. Dept. of Owner, Chicago.

(2419) 1st report Aug. 12; 3rd, Sept. 12, 1933.

Plans Being Figured—Bids Close Oct. 16, 2 P. M.

STORE Cost, \$—
SAN FRANCISCO, Chestnut St. N of Mallorca Way.

Store fronts, etc., for one-story store building.

Owner—Martin Stelling.

Architect—Bertz, Winter & Maury, Monadnock Bldg., San Francisco.

Among contractors figuring are, Clinton-Stephenson Constr. Co., 550 Montgomery St.

Contract Awarded.

STORE & OFFICES Cost, \$4700
SAN FRANCISCO, NE San Bruno and Thornton Aves.

Two-story frame store and office building.

Owner—Dr. J. Shapiro, 2475A San Bruno Ave., San Francisco.

Architect—F. W. Dakin, 625 Market St., San Francisco.

Contractor—G. Carraro & Son, 750 Felton St., San Francisco.

Plans Prepared.

OFFICE BLDG. Cost, \$—
PALO ALTO, Santa Clara Co., Cal.
Two-story frame dental office (residence style).

Owner—Withheld.

Architect—Birge M. Clark, 310 University Ave., Palo Alto.

Ready For Bids Next Week—Elevator Contract Awarded.
ALTERATIONS Cost, \$20,000
SAN FRANCISCO. SW Battery and Pine Streets.
 Extensive alterations to 6-story Class B store and loft building.
 Owner—Michael Donohoe Estate.
 Mgr. of Const.—Frederick H. Whitton, 363 Pine Street.
 Lessee—Pacific Greyhound Lines, 9 Main Street (lessees of basement and first three floors).
 Elevator—Otis Elevator Company.

one to two bungalows. Said bungalows being designated as No. 1 and No. 2, and being the first and second north bungalows on the east line of bungalows located upon the site known as the David Lubin School at 36th and K Sts. It being understood that the purchase price will not be under \$100 for each bungalow.

At the same meeting bids will be received for wrecking and removal of the two-story and basement frame and stucco building located on the north side of Fourth Ave., between 38th and 39th Sts., and formerly known as the Stanford Junior High School.

At the same meeting separate bids will be received for the furnishing, sale and delivery, f. o. b. to any school or schools which come or may come within the jurisdiction of the Board of Education of the Sacramento City Schools, of the following:

Physical training equipment and supplies;

Combination padlocks.
 A copy of any or all lists together with the general conditions and specifications governing the sale of said equipment and supplies may be obtained by application at the office of the Business Manager, School Administration Building, 21st and L Sts., Sacramento, Cal.

ditioned for the faithful performance of the contract will be required. Specifications and proposal blanks on application.

SAN FRANCISCO—Eaton & Smith, 715 Ocean Ave., awarded contract at \$990 by Board of Public Works, City Hall, for demolition of the Sunnyside School (old building) on Flood Ave., between Foerster and Edna Streets.

YERBA BUENA ISLAND, Calif.—T. L. Rosenberg Co., 411 Webster St., Oakland, submitted low bid at \$866 to H. W. Rhodes, Supt. of Light-houses, Customhouse, San Francisco, for erection of power line and other electrical work at the Yerba Buena Light Station, Yerba Buena Island, San Francisco, Bay. Following is a complete list of bids:

T. L. Rosenberg Co., Oakland.....	\$ 966
Star Delta Elec. Wks., S. F.....	1,033
City Imp. Co., Oakland.....	1,325
Victor Lemoge, San Francisco.....	1,354
Kuchel & Sievers, S. F.....	1,385
G. H. Armstrong, S. F.....	1,410
B. J. Doherty, S. F.....	1,427
Scott-Buttner, Oakland.....	1,430
N. C. Nicklassen, S. F.....	1,481
Globe Electric Works, S. F.....	1,525
American Electric Co., S. F.....	1,741
Severin Electric Co., S. F.....	1,934

17—THEATRES

MARCH FIELD, Riverside Co., Cal. National Theatre Supply Co., 1961 S. Vermont Ave., Los Angeles, submitted low bid to the Constructing Quartermaster at March Field on October 7, at \$3080.73, for furnishing and installing opera chairs in the War Department theatre at March Field. Recommendation was made that the contract be awarded to the low bidder. Other bids were: American Seating Co., \$3396.24; Heywood Wakefield Co., \$3396.24.

18—WHARVES & DOCKS

Plans Approved—To Seek Federal Aid.
HARBOR AND POOL Cost, \$50,000
MARTINEZ, Contra Costa Co., Cal. Yacht harbor (400-foot extension to present pier, etc.)
 Owner—City of Martinez.
 Architect—E. Geoffrey Bangs, 411 30th St., Oakland.

The harbor proper will be provided for by construction of two narrow landing piers on the easterly side of the extended pier, creating a harbor nearly in the form of a "C."

There would be a breakwater pier of seven-inch creosoted sheet piling enclosing the harbor on the north and west sides.

A system of floats connected to landing piers is designed to provide berthing spaces 1700 feet in length, for accommodation of 65 boats of average size.

(2169) 1st report July 18; 2d Oct. 3.

RICHMOND, Contra Costa Co., Cal.—The City Council of Richmond recently awarded contract for roofing on wharf No. 3 to the Mastercraft Tile & Roofing Co., at \$342.75.

Repair work on roof of wharf No. 1 will be done by day's labor under the supervision of E. A. Hoffman, city engineer.

LOS ANGELES, Cal.—Ben C. Gerwick, Inc., 112 Market St., San Francisco, at \$22,721, submitted the lowest bid to Superintendent of Lighthouses, Room 424 Customhouse, San Francisco under Proposal No. 690 to construct lighthouse depot wharf at the U. S. Lighthouse Reservation, Los Angeles Harbor.

Following is a complete list of the bidders:

Ben C. Gerwick, San Francisco.....	\$22,721
R. R. Bishop, Long Beach.....	22,980
Merritt, Chapman & Scott, San Pedro.....	23,295
Pan-Pacific Piling & Constr. Co., Los Angeles.....	26,992

(2757) 1st report Oct. 2, 1933.

19—MISC. CONSTRUCTION

SACRAMENTO, Sacramento Co., Cal.—Until October 16, 1933, 5 p. m., bids will be received by Charles C. Hughes, secretary of the Board of Education of Sacramento, for the following:

For the sale and removal of from

SAN DIEGO, Cal.—Chicago Bridge & Iron Co., 608 S. Hill St., Los Angeles, at \$34,050 submitted low bid to Public Works Officer, 11th Naval District, San Diego, for improvement of fuel oil storage facilities at the Naval Operating Base under Spec. No. 7333. The work consists of furnishing and installing a 55,000 bbls. fuel oil tank and piping. B. O. Larsen, San Diego, second low at \$35,900; Lacy Mfg. Co., Los Angeles, third at \$36,546.

SAN FRANCISCO—O. Monson, 475 Sixth St., at \$1986 awarded contract by Dept. of Public Works, S. J. Hester, Deputy Director, to construct retaining wall, east side of Iron Alley, between Corbett Ave. and Graystone Terrace.

MARE ISLAND, Cal.—Thos. Doyle, 1527 17th Ave., San Francisco, submitted the lowest bid at \$15,957 to the Public Works Officer, U. S. Navy Yard, Mare Island, for furnishing and installing oil tanks on a concrete platform, all supported on a pile foundation, including earth fill berm, asphalt macadam lined oil basin, pump house with pit, pumps, purifier, piping and electric wiring, at the Diesel Oil Purification Plant, Submarine Repair Base, U. S. Navy Yard, Mare Island. Spec. No. 7416.

Following is a complete list of the bidders:

Thos. J. Doyle, 1527 17th Ave., San Francisco, \$15,957.
Herman Lawson, 465 Tehama St., San Francisco, \$16,100.
Theo. Johanns, 2020 15th St., San Francisco, \$16,388.
Baldwin & Butler, Berkeley, \$16,587.
Duncanson & Harrelson Co., San Francisco, \$17,791.
J. A. Fazio, Oakland, \$17,917.
Bennett & Taylor, Los Angeles, \$18,682.
MacDonald & Kahn San Francisco, \$19,250.
E. T. Lesure, Oakland, \$19,894.

Bids were taken under advisement. 1st report Sept. 5; 7th Sept. 30, 1933.

SAN FRANCISCO, Cal.—Until October 16, 2 p. m., bids will be received by T. A. Brooks, purchasing agent, for sale and removal of incinerating apparatus and appurtenances in Islais Creek incinerator. Sale will be made to the highest bidder. A corporate surety bond in the sum of \$5000 con-

FORT MASON, San Francisco—Until October 19, 10 A. M., bids will be received at the Office of the Port Quartermaster, Fort Mason, for the construction of an underground electric system at Fort Mason. Plans and specifications may be obtained on a deposit of \$5, certified check made payable to the Treasurer of the United States.

SAN DIEGO, San Diego Co., Cal.—R. G. Meyler Corp., 408 S Spring St., Los Angeles, submitted low bid to the Public Works Officer, 11th Naval District, San Diego, under Spec. No. 7422 at \$61,370 (using steam boilers) and at \$65,700 (using mechanical boilers).

Second low bid by Herman Lawson Co., San Francisco, at \$65,850, and \$66,690; third, Garrett Co., San Diego, at \$67,500 and \$71,500.

The contract includes furnishing and installing heating plant boilers and equipment at the Naval Operating Base.

CORONADO, Cal.—Miracle Co., 4751 Monroe Ave., San Diego, submitted low bid at \$16,350 to the Constructing Quartermaster, Rockwell Field, San Diego, for constructing an electrical distribution system. The other bids were:

Beacon Electric Co.....	\$17,377
Capital Electric Co.....	17,900
Moore Electric Co.....	17,936
Newbery Electric Co.....	18,177
Globe Electric Co.....	20,000
Robt. E. McKee.....	25,980

The contract was recommended for award to the low bidder.

SAN FRANCISCO.—Until October 25 at 3 p. m. bids will be received by Supervising Superintendent of Construction, Veterans' Administration, Fort Miley, San Francisco, for sand-blasting and repainting 50,000 gallon tank at Fort Miley. Tank is to be recovered with special corrosion-resisting paint.

Specifications obtainable from above.

ROSS FIELD, Arcadia, Los Angeles Co., Cal.—Until 11 A. M., October 16, bids will be received by the Constructing Quartermaster, Rockwell Field, Coronado, for dismantling two balloon hangers at Ross Field, Arcadia. Plans and specifications will be furnished upon deposit of a certified check in the amount of \$15, payable to the Treasurer of the United States.

FORTS BARRY AND BAKER, Cal.—Until October 18, 11 A. M., bids will be received by the Office of the Harbor Defense Quartermaster, Fort Winfield Scott, Calif., for replacing water mains, sewer mains, repairs to electric distribution system and re-conditioning roads at Forts Baker and Barry, Calif. Plans and specifications furnished upon deposit of certified check, \$5.

YUBA COUNTY, Cal.—Pacific Coast Constr. Co., Sacramento, submitted only bid at \$5757 to U. S. Engineer's Office, J. G. Drinkwater, District Engineer, California Fruit Bldg., Sacramento, for constructing four new roads and four bankheads along the northerly boundary of the Yuba River near Simpson Lane Bridge, about ½ mile easterly from the city of Marysville, Yuba County. Engineer's estimated, \$6586.

SAN FRANCISCO.—D. C. McCabe, Call Bldg., at \$692.80 submitted the lowest bid to the Department of Public Works for constructing a stairway six feet wide on the east side of Taylor Street, between Pine and California Streets. Complete list of the bids follows:

D. C. McCabe, San Francisco.....	\$ 692.80
M. J. Lynch, San Francisco.....	734.00
Love & Haun, San Francisco.....	\$26.00
M. Vukicevich, S. F.....	891.00
De Luca & Son, S. F.....	944.00
S. F. Const. Co.....	989.00
Val. Franz & Son, S. F.....	1,065.00

20—MISC. SUPPLIES AND MATERIALS

SAN FRANCISCO, Cal.—Following bids were received by the U. S. Forest Service, Ferry Building, for furnishing nine 200-watt flood lights for power shovels:

Farnsworth Electric, S. F.....	\$ 6.26 ea.
General Electric, S. F.....	6.30 ea.
Grayhar Electric, S. F.....	6.30 ea.
Incandescent Supply, S. F.....	6.30 ea.
California Electric Supply, San Francisco.....	6.30 ea.
Weber & Co., S. F.....	33.60 ea.

SAN FRANCISCO, Cal.—T. A. Brooks, purchaser of supplies, made the following awards on September 28 for furnishing loam, manure, sand and tanbark, under invitation to Bid No. 1081. L. Devincenzi & Co., F. X. Lehner, Eclipse Lime & Cement Co. awarded contracts.

BREMERTON, Wash.—Supply Officer, Puget Sound Navy Yard, Bremerton, Wash., will receive bids for the following under date and requisition number listed:

October 16, 10 a. m., Requisition No. 165 NSA. 1 Inter-condenser, size SU-D2.

October 19, 10 a. m., Requisition No. 148 NSA. 3 grinders, portable, electric driven, without grinding wheels, consisting of meter extension cord, plug, flexible shaft and clamp spindle to hold wheel; 3 shafts, flexible, approximately 6 ft. long, for use with above equipment; 3 heads, grinding, right angle, for cup wheels up to 5-in. in diameter, capable of being conveniently attached to the above flexible shafts.

Further information obtainable from the Supply Officer, Puget Sound Navy Yard, Bremerton, Wash.

SAN FRANCISCO, Cal.—Federated Terminals Co. and A-B-C Transfer & Storage Co. awarded contract by T. A. Brooks, purchasing agent, under invitation No. 1078 for delivery and return of voting machines and delivery of election stationery.

AUBURN, Cal.—Following contracts awarded by Capt. J. F. Greene, District Quartermaster, Sacramento, for furnishing building materials to be used in erecting C. C. C. Camp at Greenwood (Georgetown) Eldorado National Forest:

Auburn Lumber Co., Auburn, lumber, \$4954.12, hardware, \$539.50, millwork, \$777, building paper, roofing felt and floor covering, \$1057.48, plumbing and sheet metal, \$463.40; Diamond Match Co., electrical, \$108.95.

AUBURN, Cal.—Following contracts awarded by Capt. J. F. Green, District Quartermaster, Sacramento, for furnishing building materials to be used in erecting C. C. C. Camp at Bradley Place (Todd Valley), Tahoe National Forest:

Auburn Lumber Co., Auburn, lumber \$5112, hardware \$539.50, millwork \$777, building paper, roofing felt and floor covering \$1057, plumbing and sheet metal \$463.40; Diamond Match Co., Sacramento, electrical \$463.40.

STANISLAUS COUNTY, Cal.—Following contracts awarded by Capt. J. F. Greene, District Quartermaster, Sacramento, for furnishing building materials to be used in erecting C. C. C. Camp Twaine Hart, Stanislaus National Park:

Hales & Symons, Sonora, lumber, \$5818.92, hardware, \$553.52; T. P. Hogan Co., Oakland, millwork, \$589; Diamond Match Co., Sacramento, building paper roofing felt and floor covering, \$1037.72, electrical, \$109.30; Crane Co., Sacramento, plumbing, \$493.20.

CALAVERAS COUNTY, Cal.—Following contracts awarded by Capt. J. F. Greene, District Quartermaster, Sacramento, for furnishing building materials to be used in erecting C. C. C. Camp Murphys:

Stockton Lumber Co., Stockton, lumber, \$5745.96, hardware, \$545.94; T. P. Hogan Co., Oakland, millwork, \$589; Dallman Supply Co., Sacramento, building paper, roofing felt, floor covering, \$1028.83, plumbing and sheet metal, \$487.43; C. H. Carter Co., Sacramento, electrical, \$109.46.

SAN LEANDRO, Alameda Co., Cal.—Following contracts awarded by Capt. J. F. Greene, District Quartermaster, Sacramento, for furnishing building materials to be used in erecting C. C. C. Camp Chabot, near San Leandro:

Smith Lumber Co., Oakland, lumber, \$3575; I. M. Sommer & Co., San Francisco, hardware, \$426.25; T. P. Hogan Co., Oakland, millwork, \$550; Henry Cowell Lime and Cement Co., Oakland, building paper, \$40; Zellerbach Paper Co., Oakland, wall felt, \$154.35, roofing felt, \$330.33, floor covering, \$437.64; Crane Co., Sacramento, plumbing, \$138.02; Diamond Match Co., Sacramento, electrical, \$111.95.

SONOMA COUNTY, Cal.—Following contracts have been awarded by Capt. J. S. Underwood, District Quartermaster, Eureka, for furnishing building materials to be used in erecting buildings at C. C. C. Camp Annapolis, Sonoma County:

Hammond and Little River Redwood Co., Samoa, lumber, \$4840.23; I. M. Sommer Co., San Francisco, hardware, \$393; George C. Jacobs Co., Eureka, millwork, \$500; M. Vonsen Co., Petaluma, building paper, roofing felt and floor covering, \$749.71; Thomas Warren, Eureka, plumbing and sheet metal, \$125.60; Eureka Boiler Works, Eureka, heating stoves, \$401. No award made on electrical supplies.

SAN FRANCISCO.—Until October 20, 3 P. M., bids will be received by T. A. Brooks, Purchaser of Supplies, room 270 City Hall, for furnishing au-

tomobile truck transportation of wood and kneeling for the Citizens' Emergency Relief Committee. Specifications available from above office.

NAVAL SUPPLIES—Bids are wanted until dates indicated by the Bureau of Supplies and Accounts, Navy Dept., Washington, D. C., for miscellaneous supplies for navy yards and stations:

139—For Puget Sound, 3,300 pounds boat facings, half-oval, brass; sch. 802, bids Oct. 24.

192—For Puget Sound, 7 reactances for arc welding sets; sch. 814, bids Oct. 24.

193—For eastern and western yards, motor-driven boring, drilling and milling machines and equipment; sch. 813, bids Oct. 17.

321—For eastern and western yards corrosion-resisting steel castings; sch. 900-7042, bids Oct. 11.

323—For Puget Sound, 600 yds. 54-in. artificial leather and 6,300 sq. ft. upholstery leather; sch. 815, bids Oct. 24.

324—For Mare Island, 37,600 yards cotton bunting and 25,000 yds. wool bunting; sch. 819, bids Oct. 24.

326—For Mare Island, 34,875 pounds boiled linseed oil; sch. 822, bids Oct. 24.

363—For east or west yards, motor-driven engine lathes, 3 do; San Diego and Mare Island, 3 do; sch. 817, Oct. 24.

364—For Puget Sound, portion of after deck house, furnishing and fabrication of corrosion-resisting material and erection of same; sch. 825, bids Oct. 24.

370—For eastern and western yards twenty portable pumps, electric and spares; sch. 827, bids Oct. 24.

372—For Mare Island, 1,900 ft. of wrought iron pipe and 9,700 ft. welded pipe; sch. 824, bids Oct. 24.

392—For eastern and western yards insulated electric cable; sch. 818-R, bids Oct. 13.

439—For eastern and western yards windows, vertical sliding, panels, clear vision, and devices, clear vision and spares; sch. 8228-R, bids Oct. 20.

440—For San Pedro, 7 electric arc welding sets and spares; sch. 834, bids Oct. 24.

442—For Mare Island, 3,000 dozen hand frame hacksaw tungsten blades; sch. 836, bids Oct. 24.

443—For Mare Island, 12,000 feet plow steel wire rope; sch. 837, bids Oct. 27.

444—For eastern and western yards, 9 motor-driven sewing machines; sch. 846-R, bids Oct. 20.

NEVADA COUNTY—Following contracts awarded by Capt. J. F. Greene, District Quartermaster, for furnishing building materials to be used in erecting buildings at C.C.C. Camp, Nevada City:

Clover Valley Lumber Co., Loyalton, lumber, \$5971.25; I. M. Sommer Co., San Francisco, hardware, \$444; Diamond Match Co., Chico, Item II Addenda, \$149; millwork, \$713.42; Dallman Supply Co., Sacramento, building paper, roofing felt and floor covering, \$415.52, Item IV Addenda, \$435.92; Frank N. McCollum, Yuba City, plumbing and sheet metal, \$497; Diamond Match Co., Chico, electrical, \$117.45.

MENDOCINO COUNTY, Cal.—Following contracts awarded by Capt. J. S. Underwood, district quartermaster, Eureka, for furnishing building materials to be used in erecting buildings at C.C.C. Camp, Russian Gulch:

Mendocino County Retail Lumber Co., Fort Bragg, lumber, \$4866.88; Humboldt Milling Co., Fortuna, hardware, \$331.65; Union Lumber Co., Fort Bragg, millwork, \$464.50; A. Brizard,

Arcata, building paper, roofing felt, floor covering, \$806.20, plumbing, \$99.98, electrical \$66.29; Eureka Boiler Works, Eureka, heating stoves, \$486.30 Dallman Supply Co., Sacramento, outside water system, \$862.60.

CALAVERAS CO., Cal.—Following contracts awarded by Captain J. F. Greene, District Quartermaster, Sacramento, for materials to be used in erecting buildings at the C. C. C. Camp, Rich Gulch, Calaveras Co.:

Stockton Lumber Co., lumber, \$8,100, hardware, \$545.94; Redwood Mfg. Co., millwork, \$515; Zellerbach Paper Co., building paper, \$33.93, wall felt \$155.40, roofing felt, \$240.24, floor covering, \$226.64; Crane Co., plumbing and sheet metal, \$493.20; C. H. Carter Co., electrical, \$109.46.

BUTTE COUNTY, Cal.—Following contracts awarded by Capt. J. F. Green, District Quartermaster, Sacramento, for furnishing building materials to be used in constructing C.C.C. Camp, De Saba:

Diamond Match Co., Chico, lumber, \$6913.50; hardware, \$493.94; millwork, \$613.34, building paper, roofing felt, floor covering, \$567.43; Item IV, Addenda, \$380.14, plumbing, sheet metal, \$146; C. H. Carter Co., Sacramento, electrical, \$115.26.

CALAVERAS CO., Cal.—Following contracts awarded by Captain J. F. Greene, District Quartermaster, Sacramento, for materials to be used in erecting buildings at the C. C. C. Camp, Mountain Ranch, Calaveras County:

Diamond Match Co., lumber \$8235, hardware \$454.00, electrical \$109.30; Western Door & Sash Co., millwork \$575; Zellerbach Paper Co., building paper, \$33.74, wall felt, \$145.60, roofing felt \$237.33, floor covering, \$218.82; Dallman Supply Co., plumbing & sheet metal, \$494.30.

PLACER COUNTY—Following contracts awarded by Capt. J. F. Greene, District Quartermaster, for furnishing materials to be used in erecting buildings at C.C.C. Camp, Weimar:

Union Lumber Co., lumber, \$5700; Diamond Match Co., hardware, \$545, plumbing and sheet metal, \$495; Western Door & Sash Co., millwork, \$565; Zellerbach Paper Co., building paper, \$34.71, wall felt, \$155.40, roofing felt, \$251.63, floor covering, \$250.08 I. M. Sommer Co., electrical, \$97.

CONTRA COSTA COUNTY—Following contracts awarded by Capt. J. F. Greene, District Quartermaster, Sacramento, for furnishing materials to be used in erecting C.C.C. Camp, San Pablo:

T. P. Hogan Co., lumber, \$4337.20; Diamond Match Co., hardware, \$554; South City Lumber & Supply Co., millwork, \$479; Martinez Lumber Co., building paper, \$32.37, wall felt, \$132.83, roofing felt, \$213.79, floor covering, \$218.32; C. H. Carter Co., plumbing and sheet metal, \$496; I. M. Sommer Co., electrical, \$97.

NAPA COUNTY—Following contracts awarded by Capt. J. F. Greene, District Quartermaster, Sacramento, for furnishing materials to be used in erecting buildings at C.C.C. Camp Los Pasados:

Napa Lumber Co., lumber, \$81.24; Diamond Match Co., hardware, \$554.50 electrical, \$190.30; T. P. Hogan Co., millwork, \$548; Crane Co., plumbing and sheet metal, \$484.

SACRAMENTO—Following contracts awarded by Capt. J. F. Greene, District Quartermaster, Sacramento, for furnishing materials to be used in erecting buildings at C.C.C. Camp,

Italian Bar, Stanislaus National Forest:

Diamond Match Co., lumber \$6615, electrical, \$109.30; Hales & Symons, Inc., hardware, \$553.52; T. P. Hogan Co., millwork, \$589; Dallman Supply Co., building paper, \$41.84, wall felt, \$170.52, roofing felt, \$358.64, floor covering, \$456.55; Crane Co., plumbing and sheet metal, \$493.20.

CONTRA COSTA COUNTY—Following contracts awarded by Capt. J. F. Greene, District Quartermaster, Sacramento, for materials to be used in erecting buildings at C.C.C. Camp, Mt. Diablo:

Diamond Match Co., lumber, \$5375.46 electrical, \$446.24; I. M. Sommer & Co., hardware, \$559; T. P. Hogan Co., millwork, \$589; Henry Cowell Lime & Cement Co., building paper, \$40; wall felt, \$140, roofing felt, \$230; Zellerbach Paper Co., floor covering, \$446.43 Dallman Supply Co., plumbing and sheet metal, \$485.

MARIN COUNTY—Following contracts awarded by Capt. J. F. Greene, District Quartermaster, Sacramento, for furnishing materials to be used in erecting buildings at C.C.C. Camp, Muir Woods:

Mill Valley Lumber Co., lumber, \$7373.40; Henry Hess Co., hardware, \$548, electrical, \$105.07; T. P. Hogan Co., mill work, \$548; Zellerbach Paper Co., building paper, \$32.96, wall felt, \$136.50, roofing felt, \$220.22, floor covering, \$218.82; Dallman Supply Co., plumbing and sheet metal, \$485.

PANAMA CANAL ZONE—Until October 18, 10:30 A. M., bids will be received by the Office of the General Purchasing Officer, Washington, D. C. for furnishing under Schedule No. 2910 the following equipment:

Hydraulic test pumps, safety treads, brass machine screws and nuts, coil chain, metal-cutting band saws, furniture casters, silver anodes, file handles, canvas gloves, glove fasteners, leather packings, linen thread, white oilcloth, school crayons, lumber crayons, jute twine and roll garnet paper.

Specifications obtainable from General Purchasing Officer, The Panama Canal, Washington, D. C., or to the Asst. Purchasing Agent, The Panama Canal, Fort Mason, San Francisco. A. L. Flint, General Purchasing Officer.

Specifications are also on file at the office of Daily Pacific Builder.

ALAMEDA COUNTY, Cal.—Following contracts awarded by Capt. J. F. Greene, District Quartermaster, Sacramento, for furnishing building materials to be used in erecting buildings at C.C.C. Camp Reservoir:

Smith Lumber Co., lumber, \$4551.19; Diamond Match Co., hardware, \$554; Western Door & Sash Co., millwork, \$495; Zellerbach Paper Co., building paper, \$32.37, wall felt, \$132.83, roofing felt, \$213.79, floor covering, \$218.82; Crane Co., plumbing and sheet metal, \$496; I. M. Sommer & Co., electrical, \$97.00.

ALAMEDA COUNTY, Cal.—Following contracts awarded by Capt. J. F. Greene, District Quartermaster, Sacramento, for furnishing building materials to be used in erecting buildings at C.C.C. Camp Strawberry Canyon:

Smith Lumber Co., lumber, \$4709; Diamond Match Co., hardware, \$552.50; Western Door and Sash Co., millwork, \$490; Zellerbach Paper Co., building paper, \$30.24, wall felt, \$134.93, roofing felt, \$216.65, floor covering, \$218.82; Dallman Supply Co., plumbing and sheet metal, \$498.75; I. M. Sommer & Co., electrical, \$97.

MARYSVILLE, Cal.—Following contracts awarded by Capt. Patrick Kelly, District Quartermaster, Marysville, for

furnishing materials to be used in erecting C.C.C. Camp, Middle Creek:

Hammond & Little River Redwood Co., Eureka, lumber, \$5274; I. M. Sommer & Co., San Francisco, hardware, \$541; Hammond & Little River Redwood Co., millwork, \$588; Diamond Match Co., Chico, building paper, roofing felt and floor covering, \$573.79, Item IV Addenda, \$469.92; Frank M. Booth, Marysville, plumbing and sheet metal, \$547.72; General Supply Co., Sacramento, electrical, \$117.50.

MARYSVILLE, Cal.—Following contracts awarded by Capt. Patrick Kelly, District Quartermaster, Marysville, for furnishing materials to be used in erecting buildings at C.C.C. Camp, Little Giant:

Diamond Match Co., Chico, lumber, \$8222.40; I. M. Sommer & Co., San Francisco, hardware, \$541; Diamond Match Co., Chico, millwork, \$708.22, building paper, roofing felt and floor covering, \$584.05, Item IV Addenda, \$475.20; General Supply Co., Sacramento, electrical, \$117.50; Frank M. Booth, Marysville, plumbing and sheet metal, \$547.72.

BUTTE COUNTY, Calif.—Following contracts awarded by Capt. Patrick Kelly, District Quartermaster, Marysville, for furnishing materials to be used in erecting buildings at C.C.C. Camp, Concow:

Union Lumber Co., Marysville, lumber, \$6490; I. M. Sommer & Co., San Francisco, hardware, \$541; Diamond Match Co., Chico, millwork, \$708.22, building paper, roofing felt and floor covering, \$563.54, Item IV Addenda, \$465.70; Frank N. McCollum, Yuba City, plumbing and sheet metal, \$537.72; General Supply Co., Sacramento, electrical, \$117.50.

BUTTE COUNTY, Calif.—Following contracts awarded by Capt. Patrick Kelly, District Quartermaster, Marysville, for furnishing materials to be used in erecting buildings at C.C.C. Camp, Cohasset:

Union Lumber Co., Marysville, lumber, \$6490; I. M. Sommer & Co., San Francisco, hardware, \$541; Diamond Match Co., Chico, millwork, \$708.22, building paper, roofing felt and floor covering, \$573.79, Item IV Addenda, \$469.92; Frank N. McCollum, Yuba City, plumbing and sheet metal, \$542.72; General Supply Co., Sacramento, electrical, \$117.50.

OAKLAND, Cal.—Following bids were received by John H. Kimball, secretary, East Bay Municipal Utility District, 512 Sixteenth St., Oakland, for furnishing quicklime and hydrated lime as needed by the district during period ending June 30, 1934:

Henry Cowell Lime & Cement Co., 1081 Franklin St., Oakland, \$3356.25.

Holmes Lime & Cement Co., Division & De Haro Sts., San Francisco, \$3356.25.

California Chemical Corp., Newark, Cal., \$3356.25.

U. S. Lime Products Co., 85 Second St., San Francisco, \$3356.25.

Auburn Chemical Co., Auburn, Cal., \$3596.25.

SAN FRANCISCO—E. K. Wood Lumber Co., Frederick and King Sts., Oakland, submitted low bid at \$1,395 f.o.b. Oakland, and was awarded contract by the U. S. Forest Service, Ferry Bldg., for furnishing lumber for three warehouses.

SAN FRANCISCO—Until October 16 at 2 P. M., bids will be received by U. S. Forest Service, Ferry Bldg., for furnishing 8250 wooden camp ground signs 3½x18x¾-in., painted in forest green letters on white background.

ENGINEERING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

- | | |
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| 21.—Bridges | 30.—Reservoirs and Dams |
| 22.—Dredging, Harbor Works, Excava. | 31.—Pipe Lines and Wells |
| 23.—Irrigation Proj. | 32.—Sewers & Sewage Disposal Plants |
| 24.—St. Light. Systems | 33.—Water Works |
| 25.—Machinery and Equipment | 34.—Parks & Playgrounds |
| 26.—Railroads | 35.—Tunnels |
| 27.—Fire Alarm Sys. | |
| 28.—Fire Equipment | |
| 29.—Streets & Highways | |

21— BRIDGES

CAPITOLA, Cal.—Plans and specifications for the new bridge at Capitola over Soquel Creek will be presented at the supervisors' meeting October 23. It will be a concrete bridge with a pier at each end and one arch. Lloyd Bowman, County Engineer.

LINN COUNTY, Oregon—Tom Lillebo, Reedsport, Oregon, at \$42,970.50 awarded contract by W. H. Lynch, District Engineer U. S. Bureau of Public Roads, Portland, to construct three bridges over Pamela, Minto and Marian creeks, Nirth Santlam Highway, N.F.R. Pro. E-24-33, Willamette National Forest.

LOS ANGELES, Cal.—John Oberg, 3470 E. 8th St., Los Angeles, at \$22,700 awarded contract by the Los Angeles County Supervisors, for the construction of a reinforced concrete rigid frame bridge to be built on Muscatel Ave., over Eaton Wash. The proposed bridge will be 120 ft. in width with a 40 ft. clear span.

W. D. Armstrong, county bridge engineer.

GRANT COUNTY, Oregon—Meyers & Goulter, Seattle, Wash., at \$43,935 awarded contract by State Highway Commission, Multnomah Hotel, Portland, for constructing a bridge over the Middle Fork-Forest Boundary section of the Pendleton-John Day highway in Grant County.

CLATSOP COUNTY, Oregon—Associated Construction Co., Portland, Oregon, at \$7997 submitted low bid to State Highway Commission, Multnomah Hotel, Portland, for constructing two bridges over Humburg Creek highway in Clatsop County. Award pending.

HARNEY CO., Oregon—R. F. Nichol, Vale, at \$20,871.50 (Alt. A), awarded contract by the Oregon State Highway Commission for the construction of three bridges and 6 culverts on the Drinkwater Pass-Chimney Creek Section of the Central Oregon Highway.

HUMBOLDT COUNTY, Calif.—Following bids received by County Board of Supervisors for construction of a reinforced concrete culvert at Arlynda Corners, near Ferndale:

H. A. Anderson, Rio Dell, \$1590; extra concrete, \$18.00.

F. J. Maurer & Son, Eureka, \$3,150; \$49.

J. L. Cloney, \$1618; \$11.
Smith Bros., Eureka, \$1897; \$20.
Chris Winkler, Ferndale, \$1765; \$26.

SALEM, Oregon—The War Department has approved plans of the Oregon State Highway Commission for construction of the Coos Bay Bridge at North Bend. Plans are for a steel cantilever span, 1700 feet in length with vertical clearance of 136 feet. Estimated cost \$1,750,000. C. B. McCulloch, State Bridge Engineer.

SONOMA COUNTY, Cal.—Bids will be asked shortly by Joint Highway District No. 19, J. B. Piatt, Santa Rosa, District Engineer, for construction of a reinforced concrete bridge over Russian river at Monte Rio. Bids will probably be called within 30 days. Estimated cost \$100,000.

MONTEREY COUNTY, Cal.—Associated Constructors, Inc., 1226 South LaBrae Avenue, Los Angeles, at \$33,665 awarded contract by State Highway Commission, Sacramento, to construct timber bridge in Monterey County, across Willow Creek, about 32 mi. north of San Simeon, consisting of one 76-foot truss span, two 57-foot truss spans and fifteen 19-foot spans on frame bents.

MONTEREY COUNTY, Cal.—Boedhamer Constr. Co., 354 Hobart Street, Oakland, at \$36,939 awarded contract by State Highway Commission, Sacramento, to construct bridge across Carmel River, about 2 mi. south of Carmel, consisting of thirteen 40-foot reinforced concrete girder spans.

VENTURA COUNTY, Cal.—Associated Constructors, Inc., 1226 So. La Brea Ave., Los Angeles, at \$26,851 awarded contract by State Highway Commission, Sacramento, to construct bridge in Ventura County across Calleguas Creek about eight (8) miles south of Oxnard, consisting of eight 30-ft. reinforced concrete girder spans on reinforced concrete pile bents.

GILA COUNTY, Ariz.—Paul Michelson, Globe, Ariz., at \$5094 awarded contract by Bureau of Public Rds., 802 Title & Trust Bldg., Phoenix, Ariz., for re-erecting steel truss bridge on Section 1 of Route 12, the Globe-Holbrook National Forest, Gila County.

ORANGE CO., Cal.—Until Nov. 1, 2 P. M., bids will be received by the State Highway Commission, Sacramento, to construct a reinforced concrete girder bridge across the Santa Ana River at Buare St., consisting of seven 50-ft. spans on concrete piers with pile foundations and grading and surfacing approaches, in Orange Co., involving:

- (1) 81 sta. clear and grub;
- (2) 23,000 cu. yds. rdwy. embank;

WASHINGTON COUNTY, Oregon.—Jolin & Eldon, Portland, at \$27,927 awarded contract by State Highway Commission for constructing bridge over Tualatin River on the Farmington Secondary Highway near Hillsboro. 21

- (3) 4,700 tons select material;
- (4) 110 bbls. heavy fuel oil;
- (5) 730 tons coarse screenings;
- (6) 210 tons fine screenings;
- (7) 50 tons asph. road oil;
- (8) 230 cu. yds. struc. excav.;
- (9) 3,000 lin. ft. furnish reinf. conc. piles including test piles;
- (10) 80 each drive reinf. conc. piles, including test piles;
- (11) 1,245 cu. yds. Class A Port. cem. conc.;
- (12) 43 cu. yds. Class E do;
- (13) 210,700 lbs. bar reinf. steel;
- (14) 1 lot misc. items of work;
- (15) 81 sta. finish rdwy.

Plans and specifications are obtainable at above office, and are on file at the offices of the district engineers at Los Angeles and San Francisco, and at the office of the district engineer of the district in which the work is situated.

MODESTO, Stanislaus Co., Calif.—T. C. Tunsen, Route No. 1, Box 1360, Modesto, awarded contract at \$2,804 by Stanislaus County Board of Supervisors to construct 46-ft. bridge over Lone Tree Creek on the Valley Home-Oakdale Valley Highway. Following bids received:

- | | |
|-----------------------------------|---------|
| (A) T. C. Tunsen, Modesto..... | \$2,804 |
| (B) Frank Bryant, S. F..... | 2,949 |
| (C) Neves & Harp, Santa Clara | 3,467 |
| (D) Swanson & Chance, Turlock | 3,493 |
| (E) Valley Const. Inc., Modesto.. | 3,675 |
| (F) Nelson & Wallace, Escalon.. | 3,695 |
| (G) H. Sneed, Berkeley..... | 3,946 |
| (H) H. Tennyson, Modesto..... | 4,377 |
| (I) Engineer's estimate | 3,545 |

HUMBOLDT COUNTY, Calif.—Fred J. Maurer & Son, Eureka, submitted low bid at \$7,725, with \$40 per cu. yd. for extra concrete, to County Board of Supervisors for constructing a new bridge over Ryan Slough. Other bids were as follows:

- | | |
|-----------------------------------|--------------------------------|
| (A) Fred J. Maurer & Son, Eureka, | \$7,725; extra concrete, \$40. |
| (B) Mercer-Fraser Co., Eureka, | \$7,896; \$35. |
| (C) Smith Bros., Eureka, | \$7,967; \$30. |
| (D) Chris Winkler, Ferndale, | \$7,945; \$32. |

Award of contract delayed pending settlement of a dispute over the price for right-of-way for one approach to the structure.

22—DREDGING HARBOR WORKS EXCAVATION

SAN JOAQUIN COUNTY, Cal.—O'Neill & Legge, 3255 Laguna Street, San Francisco, submitted low bid at \$1150 (Schedule 1) and \$375 (Schedule 2) to H. W. Rhodes, Superintendent of Lighthouses, Room 4214, Customhouse, San Francisco, for furnishing all labor and materials and performing all work for constructing a 3-wing echo board on the berm of Venice Island, on the northeast side of the San Joaquin River channel opposite the mouth of the Old River and approximately 600 yards southeast of Potato Point Light; and a 4-pile structure on the berm on the southerly line of San Joaquin River channel east of and near the mouth of Fishermen's Slough. The work involves:

CAPITAL CITY TITLE COMPANY

J. C. PALEN,
Manager

914 Seventh Street
Sacramento :: California

- (1) Construction of a 3-wing Echo Board at Venice Island;
 - (2) Construction of a 4-pile beacon at Fishermen's Slough.
- Complete bids follow:
- (A) O'Neill & Legge, San Francisco. Start 15 days, complete 30 days.
 - (B) C. A. Lauritzen, 300 E. St., Antioch.
 - (C) Duncanson - Harrelson Co., 1465 deYoung Bldg., San Francisco. Start 10 days, complete 25 (all or none).
 - (D) A. W. Kitchen & Co., 110 Market St., San Francisco. Start 14 days, complete 30 days.
 - (E) Bundesen & Lauritzen, P. O. Box 395, Pittsburg, Calif. Start 5 days, complete 19 days.
- | | (1) | (2) |
|----------|-----------|----------|
| (A)..... | \$1150.00 | \$375.00 |
| (B)..... | 1212.00 | 638.00 |
| (C)..... | 1294.00 | 489.00 |
| (D)..... | 1410.00 | 483.00 |
| (E)..... | 1890.00 | 559.00 |

STOCKTON, Cal.—San Francisco Bridge Co., 503 Market St., San Francisco, at \$0.124 per cu. yd., submitted low bid to U. S. Engineer's Office, California Fruit Bldg., Sacramento, to dredge 1,140,000 cu. yds. material from Sulsun Bay Channel between Stake Point and Point Edith. Hydraulic Dredging Co., 1217 Central Bank Bldg., Oakland, at \$0.13 per cu. yd. submitted second low bid. Engineer's estimate, \$0.0957.

WRANGELL NARROWS, Alaska.—U. S. Engineer Office, Federal Office Bldg., Seattle, Wash., has rejected bids for dredging and rock removal in the channel at Wrangell, Alaska, and will re-advertise the opening. Puget Sound Bridge & Dredging Co. at \$137,105 submitted the only bid. Government estimate, \$116,400.

SAN RAFAEL Marin Co., Cal.—Until October 23, at 11:30 A. M., bids will be received at the office of the Constructing Quartermaster, Hamilton Field, San Rafael, for construction of a channel from the bay to the boat-house site. The channel is to be 100 feet wide, dredged to a depth of seven feet and involves removal of approximately 385,000 cu. yds. of material. Specifications obtainable from above on deposit of \$5 and on file at the office of the Construction Quartermaster, Fort Mason, or the Builders' Exchange, San Francisco.

RICHMOND, Contra Costa Co., Cal.—A. W. Kitchen & Co., 110 Market St., San Francisco, at \$3127 awarded contract by Richmond City Council, to repair fender system in outer harbor terminal. The other bids were: Duncanson-Harrelson Co., S. F. \$3193; Healy-Tibbitts Constr. Co., S. F. 3240; M. B. McGowan, S. F. 3649

24—ST. LIGHT. SYSTEMS

LOS ANGELES, Cal.—Newbery El. Corp., 1036 Venice Blvd., at \$33,790.00 awarded contract by the Los Angeles board of public works for installation of 141 Marbelite No. S-27-A concrete ornamental lighting posts equipped with Neolite No. 91-4 lighting units in Washington St. bet. Alameda and Main Sts., as shown on Special Plan No. 11288 and Standard Plans Nos. B-1709 and B-1518. Cash contract. The bids were opened Oct. 4.

SAN FRANCISCO, Cal.—Graybar Electric Co., Ninth and Howard Sts., San Francisco, at \$170.55 each submitted low bid to the U. S. Forest Service, Ferry Building, to furnish three gas-driven generator units for lighting power shovels. Following is complete list of bids:

Graybar Electric Co., S. F. \$170.55

- A. L. Young Machinery, S. F. 176.50
 - Brown-Bevis Co., Vernon 210.00
 - Sullivan Machinery Co., S. F. 230.00
 - Kratz & McClelland, Inc., S. F. 237.60
 - Alternate 248.00
 - Edward R. Bacon Co., S. F. 248.00
 - Westinghouse Elec. Co., S. F. 264.00
 - Farnsworth Elec. Co., S. F. 264.00
 - King-Knight Co., S. F. 305.00
 - Weber & Co., S. F. 454.80
 - Fairbanks-Morse Co., S. F.
 - (1) Alt. 134.50
 - (2) Alt. 205.00
- All bids held under advisement.

SAN FRANCISCO—A. L. Young Machinery Co., Inc., 26 Fremont Street, San Francisco, at \$224 submitted low bid to the U. S. Forest Service, Ferry Bldg., to furnish one floor sanding machine. Following is a complete list of bids:

- (A) Floor sanding machine complete
- (B) 50 yds. # 3 8-inch roll paper.
- (C) 50 yds. #1½ 8-inch roll paper.
- (D) 50 yds. #½ 8-inch roll paper.
- (1) A. L. Young Machinery Co., Inc.
- (2) Kratz & McClelland, Inc.
- (3) American Floor Surfacing Co.
- (4) Eby Machinery Co.
- (5) H. S. Scals.

Unit bids follow:

	(A)	(B)	(C)	(D)
(1).....	\$224.00	\$11.87	\$8.79	\$6.90
(2).....	237.50	10.65	7.90	6.20
(3).....	237.50	10.65	7.90	6.20
(4).....	260.00	12.60	9.40	7.40
Alt.....	310.00			
(5).....	267.50	11.87	8.79	6.90

Bids held under advisement.

SACRAMENTO, Cal.—Until October 20 bids will be received by Capt. J. G. Drinkwater, District Engineer, U. S. Engineer's Office, California Fruit Bldg., Sacramento, Cal., for drydocking, painting and repairing the U. S. Engineer Department 20-in. pipe line dredge San Joaquin. Spec. No. 5737. Specifications obtainable at above office.

25—MACHINERY AND EQUIPMENT

RIVERSIDE, Cal.—Until October 16, 4:30 p. m., bids will be received by the Riverside Board of Education, 3450 Ninth St., for furnishing one 50-passenger capacity school bus costing not over \$2800. Specifications are on file at the business office of the board.

LOS ANGELES, Cal.—Cancellation of bid calls for motor generator set under Spec. No. 6462, has been announced by H. E. Russell, County Purchasing Agent.

SAN FRANCISCO—A. L. Young Machinery Co., Inc., 26 Fremont Street, at \$224 awarded contract by U. S. Forest Service, Ferry Bldg., to furnish one floor sanding machine "Speed-matic."

PASADENA, Los Angeles Co., Cal.—Until October 24, 11 A. M., bids will be received by the Pasadena City Directors for furnishing control valve equipment for Pine Canyon Dam as follows:

- (1) one manifold, consisting of one 42-in. pipe, with 30-in. outlet, constructed of ¾-in. steel plate, with cast steel flanges, manhole, and saddle nozzle;
 - (2) one manifold, consisting of 42-in. pipe, with 36-in. outlet, constructed of ¾-in. steel plate, on a wye, with victulic coupling;
 - (3) extra payment if faithful performance bond is required of authorized Pasadena agents.
- Prices to be f.o.b. Azusa. Delivery within 45 calendar days. Plans may be obtained from Samuel B. Morris, Chief Engineer, City Hall. Bessie Chamberlain, City Clerk.

PASADENA, Los Angeles Co., Cal.—Consolidated Steel Corp., 5701 East Slauson Ave., Los Angeles, at \$38,262.95 awarded contract by the Pasadena City Board of Directors for the manufacture and furnishing of operating mechanism and appurtenances for top of outlet tower for Pine Canyon Dam. Samuel B. Morris, 319 City Hall, Chief Engineer. The bids were opened October 3.

PALO ALTO, Santa Clara Co., Cal.—Following bids were received by Veterans' Administration Division, Washington, D. C., for machinery for refrigerator for mortuary at Palo Alto: Frigidalre Corp., item 1, \$235.08. Kelvinator Sales Co., item 1, \$260.74 Starr Co., item 1, \$273.50. National Electrical Supply Co., item

29—STREETS AND HIGHWAYS

SANTA BARBARA COUNTY, Cal.—Until October 25, 2 P. M., bids will be received by California State Highway Commission to grade and pave 4.9 mi. with Portland cement concrete in Santa Barbara County, bet. Arroyo Hondo and Gaviota Creek. The work involves:

- (1) 27 sta. yds. clear and grub right-of-way;
- (2) 431,600 cu. yds. rdwy. excav. unclass;
- (3) 1,512,000 sta. yds. overhaul;
- (4) 290 tons asph. road oil seal coat;
- (5) 31,800 cu. yds. imported borrow;
- (6) 5300 cu. yds. struc. excav.;
- (7) 4960 cu. yds. remove and dispose of exist. conc. pave and struc.;
- (8) 55,750 cu. yds. subgrade for pave
- (9) 11,850 cu. yds. Class A Port. cem. conc. pave;
- (10) 8 tons asph. rd. oil bit. macadam;
- (11) 145 tons broken stone bit. macadam;
- (12) 1210 cu. yds. Class A Port. cem. conc. struc.;
- (13) 142,000 lbs. bar reinf. steel struc.
- (14) 224,000 lbs. wire mesh reinf. pave
- (15) 938 lin. ft. 8-in. C.M.P.;
- (16) 1282 lin. ft. 18-in. do.;
- (17) 862 lin. ft. 24-in. do.;
- (18) 460 lin. ft. 30-in. do.;
- (20) 140 lin. ft. C.M.P. clean and re-lay;
- (21) 98 lin. ft. half circle 24-in. C.M.P.
- (22) 5 each drop inlet frames and covers complete in place;
- (23) 5525 sq. yds. paved gutters and aprons;
- (24) 33 each spillway assemblies comp. in place;
- (25) 2700 lin. ft. move and reset exist. guard rail;
- (26) 5910 lin. ft. lam. timber guard rail
- (27) 91 each timber guide posts;
- (28) 57 each timber culvert markers;
- (29) 2.7 ml. st. property fence;
- (30) 6.9 mi. type A prop. fence;
- (31) 14 each fence gates comp. in place
- (32) 7450 cu. yds. intercepting ditch and dike excav.;
- (33) 8600 M. gals. water;
- (34) 4400 bbls. heavy fuel oil;
- (35) 257 sta. yds. finishing rdwy.;
- (36) 87 monuments complete in place.

ARIZONA STATE—Until October 24, 2 P. M., bids will be received by T. S. O'Connell, State Highway Engineer, Phoenix, Arizona, for highway construction on the Holbrook-Lupton Highway, N.R.H. 83-F. The work begins at the north city limits of Holbrook on Porter St., and extends northeast approximately 14.25 miles and consists of placing a base course and plant mix using cutback asphalt and is to be completed on or before March 31, 1934. The principal items are:

- (1) 234,000 sq. yds. reshaping surf.;
- (2) 334 M. gals. water for sprinkling;
- (3) 25,500 cu. yds. aggreg. base course

- (4) 114,000 cu. yds. ml. aggreg. base course, haul;
- (5) 6000 cu. yds. shoulder material;
- (6) 27,000 cu. yds. ml. shoulder material, haul;
- (7) 25,600 tons plant mix;
- (8) 231,000 ton ml. plant mix, haul;
- (9) 1250 tons cutback asphalt;
- (10) 14.2 mi. placing plant mix;
- (11) 1200 cu. yds. screenings
- (12) 450 sq. yds. intersections and other incidental items.

Proposal guarantee in an unendorsed certified or cashier's check, 5%.

COCHISE COUNTY, Ariz.—Until October 19, 10 A. M., bids will be received at the office of the Bureau of Public Roads, 802 Title & Trust Bldg., Phoenix, Ariz., for grading 2.445 mi. section D of Rt. 32, Chiricahua Monument National Forest Highway, Chiricahua National Monument, Coronado National Forest, Cochise County, Ariz. The work involves:

- (1) 21 ac. clearing;
- (2) 124,000 cu. yds. unclass. excav.;
- (3) 1006 cu. yds. do for struc.;
- (4) 113,500 sta. yds. overhaul;
- (5) 1.445 mi. finish earth gr. rd.;
- (6) 1 cu. yd. concrete;
- (7) 70 lbs. reinf. steel;
- (8) 33 cu. yds. rubble masonry, cem.;
- (9) 1836 lin. ft. C.M.P.;
- (10) 1100 cu. yds. hand laid rock embankment;
- (11) 1150 lin. ft. protection ditch;

Plans and specifications available from C. H. Sweetser, Dist. Engineer, above office, upon deposit of \$10. Also at 807 Sheldon Bldg., San Francisco, Calif.

TEHAMA CO., Cal.—Bids will be requested by C. H. Sweetser, District Engineer, Bureau of Public Roads, 461 Market St., San Francisco, for grading approximately 5 miles of the southwest approach to Lassen Volcanic National Park, Tehama Co., Cal., extending from Mineral to a connection with the new construction at Morgan Summit. The work will consist of clearing, grading and the installation of necessary drainage structures. \$102,000 has been programmed for this project. Interested contractors will be shown over the line on October 17. Arrangements should be made at the above office.

LANDER CO., Nev.—Wheelwright Construction Co., Ogden, Utah, at \$89,886.67 awarded contract by H. C. Durkee, state highway engineer, Carson City, to reconstruct 14.73 miles of the state highway system of Nevada in Lander County, between 12 miles and 27 miles east of Austin, Rt. 2, Section F-1. N. M. Ball, 1889 Yosemite Road, Berkeley, Cal., submitted second low bid at \$93,711.28.

SONOMA COUNTY, Cal.—Peninsula Paving Co., 715 Standard Oil Bldg., San Francisco, at \$63,021 awarded contract by State Highway Commission, Sacramento, to grade and surface with crusher run base and bituminous treated crushed gravel or stone surfacing 0.9 mi. between Fairville and Shellville.

KLAMATH CO., Oreg.—Dunn & Baker, Klamath Falls, Oreg., at \$94,454.50, awarded contract by Oregon State Highway Commission for 26 miles of bituminous macadam, and 16.1 miles of oil mat surface treatment on the Klamath Falls-Forest Boundary Section of the Klamath Falls-Lakeview Highway.

LANDER & EUREKA COS., Nev.—N. M. Ball, 1889 Yosemite Road, Berkeley, Cal., awarded contract at \$91,217.90 by S. C. Durkee, State Highway Engineer, Carson City, to construct 18.7 miles of the state highway

system in Lander and Eureka counties, between 27 miles east of Austin and 14 miles west of Hay Ranch, Rt. 2, Section F-2. Dodge Construction Co., Inc., Fallon, Nev., at \$93,753.35 submitted second low bid.

SAN FRANCISCO—E. J. Treacy, Call Bldg., submitted low bid at \$442 to Treasury Dept., Washington, D. C., for construction of roadway to Laboratory Building, at the U. S. Marine Hospital, San Francisco. Complete bids follow:

E. J. Treacy	\$442
W. Jeffers	4644
John S. Heilmann.....	4647
A. O. Field.....	4650
Chas. G. Harney.....	4746
Eaton & Smith.....	4491
Fay Improvement Co.....	5500

CALIFORNIA STATE HIGHWAY—Bernard G. Carroll, 4396 Maryland St., San Diego, at \$1495.76 submitted low bid to L. H. Gibson, District Engineer (Dist. V), Highway Bldg., 50 Higuera St., San Luis Obispo, for 276 miles of traffic stripe to be applied to the existing pavement in Monterey, San Benito, San Luis Obispo and Santa Barbara Counties, at various locations.

Only other bidder was E. Anderson, San Francisco, at \$1563.60.

MARIPOSA COUNTY, Cal.—Bids will be requested early in the season of 1934 by C. H. Sweetser, District Engineer, Bureau of Public Roads, 461 Market St., San Francisco, for grading approximately 5 miles of the Wawona Road-Glacier Point Highway, Yosemite National Park, extending from near Bridalveil Creek to Sentinel Saddle. The work will consist of clearing, grading and installation of necessary drainage structures. \$250,000 has been programmed for the contemplated project. As weather conditions at that time will not permit contractors to view the work, interested contractors will be shown over the line by T. M. Roach of the Bureau of Public Roads, whose address is Yosemite National Park. Those wishing to have Mr. Roach conduct them over the work should make arrangements in advance.

SAN FRANCISCO, Cal.—Department of Public Works, S. J. Hester, chief deputy director, plans to improve Carolina St. between 22nd and 23rd Sts. where not improved. Estimated cost \$2440. (Expediency.)

SAN FRANCISCO, Cal.—Department of Public Works, S. J. Hester, chief deputy director, plans to improve Jarbee Ave. and Putnam St. crossing. Estimated cost, \$850. (Expediency.)

LOS ANGELES COUNTY, Cal.—Paul R. Hughes, 1020 Loma Vista Dr., Long Beach, at \$4320 awarded contract by Department of Public Works, Division of Highways, at the office of District Engineer, 808 California State Office Building, Los Angeles, for highway construction in Los Angeles County near Beverly Blvd. (VII-L.A.-60-B), 0.08 mile in length, Portland cement concrete slope reinforcement to be constructed.

OKANOGAN COUNTY, Wash.—Columbia Power & Investment Co., Inc., Stevenson, Wash., at \$45,046.10 awarded contract by U. S. Bureau of Public Roads, Portland, Ore., for constructing Loup Highway grading project NR-28-B, National Forest Road project, Chelan National Forest.

FRESNO COUNTY, ETC., Cal.—Until October 24, 2 P. M., bids will be received by Division of Highways, R. M. Gillis, Acting District Engineer,

District VI, Highway Bldg., Fresno, for 250 ml. traffic stripe to be applied to the existing pavement at various locations in Fresno, Kern, Kings, Madera, and Tulare Counties. Specifications available at above office. File No. VI-406.22.

SAN FRANCISCO, Cal.—Until October 18, 2:30 p. m., bids will be received by the Department of Public Works, S. J. Hester, deputy director, Room 251 City Hall, to improve Gaven St. between Barneveld Ave. and Merrill St. Estimated cost, \$1150. The work involves:

- (1) 100 lin. ft. armored conc. curb;
- (2) 80 lin. ft. 6-in. side sewer in place;
- (3) 2000 sq. ft. asph. conc. pave. consisting of a 2-in. asph. conc. wearing surface and a 6-in. class F concrete base.

Plans and specifications obtainable from above office. Deposit of \$5 required. 29

SAN FRANCISCO, Cal.—Until October 18, 2:30 p. m., bids will be received by the Department of Public Works, S. J. Hester, deputy director, Room 251 City Hall, to improve Ortega St. between 20th and 21st Aves. Estimated cost, \$3800. The work involves:

- (1) 200 cu. yds. grading;
- (2) 220 lin. ft. 8-in. V.C.P. sewer in place;
- (3) 10 8x6-in. "Y" branches in place;
- (4) 1 brick manhole complete;
- (5) 250 lin. ft. 6-in. V.C.P. side sewer in place;
- (6) 480 lin. ft. armored concrete curb;
- (7) 9840 sq. ft. asph. conc. pave. consisting of a 6-in. Class F conc. base and a 2-in. asph. conc. wearing surface.

Plans and specifications obtainable from above office. Deposit of \$5 required.

SAN FRANCISCO, Cal.—Until October 18, 1933, 2:30 p. m., bids will be received by the Department of Public Works, S. J. Hester, deputy director, Room 251 City Hall, to improve Quintara St. between 32nd and 33rd Aves. Estimated cost \$6912. The work involves:

- (1) 4000 cu. yds. grading (excav.);
- (2) 40 lin. ft. 8-in. V.C.P. sewer in place;
- (3) 310 lin. ft. 21-in. V.C.P. sewer in place;
- (4) 8 "Y" branches in place, 21x6;
- (5) 200 lin. ft. 6-in. V.C.P. side sewer in place;
- (6) 1 brick manhole, complete;
- (7) 3 brick catch basins, complete;
- (8) 105 lin. ft. 10-in. V.C.P. culvert in place;
- (9) 574 lin. ft. unarmored concrete curb;
- (10) 660 sq. ft. one-course concrete sidewalk;
- (11) 16,894 sq. ft. asph. conc. pave. consisting of a 6-in. Class F concrete base and a 2-in. asph. conc. wearing surface.

Plans and specifications obtainable from above office. Deposit of \$5 required.

COCONINO COUNTY, Ariz.—Haddock & Lindberg, 357 N. Chester Ave., Pasadena, at \$168,495 awarded contract by U. S. Bureau of Public Roads, Phoenix, Ariz., to grade 9.688 miles Section G, Rt. 7, the Oak Creek National Forest Highway, Coconino National Forest.

GRANT & HARNEY COS., Ore.—Newport Construction Co., Portland, at \$39,837 awarded contract by U. S. Bureau of Public Roads, Portland, Ore., to construct Canyon City-Burns Highway oil mix N.F.R. Project NR-35-E2-12, Malheur National Forest.

LOS ANGELES, Cal.—C. W. Wood, Box 49, Stockton, Cal., at \$189,834.23 awarded contract by Metropolitan Water District, Los Angeles, for Schedules 1, 2 and 3, for constructing 20.3 miles road for the Colorado River Aqueduct, Spec. No. 52. The proposed work is in San Bernardino County, Cal., and extends from Earp north-easterly along the west bank of the Colorado River, approximately 20 miles.

SISKIYOU COUNTY, California—A. Teichert and Son, P. O. Box 1118, Sacramento, at \$59,457 awarded contract by State Highway Commission, Sacramento, to grade and surface with bituminous treated crushed gravel or stone, road mix method, about 0.8 mile at Big Canyon.

FORT WINFIELD SCOTT, Cal.—Until Oct. 18, 11:00 A. M., bids will be received by the Office of the Harbor Defense Quartermaster, Fort Winfield Scott, Calif., for reconditioning roads and extending sidewalks at Fort Winfield Scott, Calif. Plans and specifications available from above office upon deposit of certified check in amount of \$5.

SACRAMENTO, Cal.—A. Teichert & Son, Inc., P. O. Box 1118, Sacramento, Calif., at \$6307.50 awarded contract by Sacramento County Board of Supervisors, Harry W. Hall, County Clerk, for construction of an asphalt surface on the Verden-Locke Road.

MONO COUNTY, Cal.—Southwest Paving Co., Inc., 712 Lankershim Bldg., Los Angeles, at \$191,235 awarded contract by State Highway Commission, Sacramento, to grade and surface with select material and apply bituminous surface treatment to 9.7 miles in Mono County between Crestview and 2.2 miles south of Rush Creek.

GRANT COUNTY, Oregon—Von der Hellen & Pierson, Medford, Ore., at \$90,120 awarded contract by U. S. Bureau of Public Roads, Portland, to construct Pendleton-John Day N.R.F. Pro. E-33-F Umatilla National Forest.

KLAMATH COUNTY, Oregon—Von der Hellen & Pierson, Medford, Ore., at \$308,780 awarded contract by U. S. Bureau of Public Roads, Portland, to construct Rim Road Grading Project NR-7-B, Crater Lake National Park Road Project, Crater Lake National Park.

SHASTA COUNTY, Cal.—A. Teichert & Son, Box 1118, Sacramento, at \$123,785 awarded contract by State Highway Commission, Sacramento, to grade and surface a total length of 15.9 miles in Shasta County between Diddy Hill and Montgomery Creek, about 1.5 mile to be graded, about 12.9 miles to be surfaced with crusher run base and bituminous seal coat to be applied to the surfacing over the entire project.

LEWIS COUNTY, Wash.—A. C. Greenwood, Portland, Ore., at \$44,363 submitted low bid to W. H. Lynch, District Engineer, U. S. Bureau of Public Roads, Portland, Ore., to construct 5.059 miles of Randle-Yakima and Chanapeesh grading, surfacing and guard rail projects NR-13-H3, 14 and NR-26-A, National Forest Road projects located within the Columbia National Forest, County of Lewis, State of Washington.

COWLITZ & SKAMANIA COS., Wash.—La Dee Logging Co., Alisky Bldg., Portland, Ore., at \$72,431 (metal pipe alternate) and \$73,081 (concrete pipe) submitted low bid to W. H. Lynch, District Engineer, U. S. Bureau of Public Roads, Portland, Ore.,

for highway construction 4.294 miles of St. Helena Highway grading project, NR-15-A2, located within Columbia Forest, Cowlitz and Skamania Counties, State of Washington.

YAVAPAI COUNTY, Ariz.—Until October 24, 10 A. M., bids will be received by T. S. O'Connell, State Highway Engineer, Phoenix, Ariz., for highway construction on the Prescott-Phoenix Highway, NRH 72-A. The work, which is to begin at a point about 23 3/4-mi. southwest of Prescott and is to extend southwesterly about 10 1/2 mi., consists of grading and draining the roadway and placing a base course and plant mix using cut-back asphalt, and is to be completed on or before June 15, 1934. The principal items are:

- (1) 69,800 cu. yds. rdwy. excav.;
- (2) 11,300 cu. yds. borrow excav.;
- (3) 511 cu. yds. concrete;
- (4) 29,700 lbs. reinf. steel;
- (5) 1150 lin. ft. C.M.P. (various sizes)
- (6) 16,000 lin. ft. road guard;
- (7) 102,000 lin. ft. line fence.
- (8) 114 cu. yds. removal of old conc.;
- (9) 29,000 cu. yds. aggregate base course;
- (10) 82,000 cu. yds. mi. do haul;
- (11) 4000 cu. yds. shoulder material;
- (12) 10,400 cu. yds. mo. do haul;
- (13) 18,700 tons plant mix;
- (14) 132,000 ton mi. plant mix haul;
- (15) 900 tons cutback asph. (CIP);
- (16) 10.4 mi. placing plant mix;
- (17) 900 cu. yds. screenings (CIP);
- (18) 93 MBM treated timber;
- (19) 5 MBM untreated timber piles;
- (20) 2400 lin. ft. treated timber piles;
- (21) other incidental items.

Proposal guarantee is an unendorsed certified or cashier's check for 5%.

UNION COUNTY, Ore.—George F. Price, Dayton, at \$47,539.90 awarded contract by U. S. Bureau of Public Roads, Portland, to construct Weston Elgin Highway Grading Project NR-37-B1, Umatilla National Forest.

SAN DIEGO, Cal.—Miracle Co., 4751 Monroe Ave., San Diego, submitted low bid to the Public Works Office, 11th Naval Dist., San Diego, October 4, at \$31,192, for the improvement of landing field at the Naval Operating Base (Air Station), San Diego. Specification No. 7435. The work will consist of (a) the removal of a section of old asphalt macadam pavement used as a warming-up platform (approximately 88,500 sq. ft.) and the necessary grading and repaving of the area, using a one course cement concrete pavement 5-in. in total thickness; (b) the reolling and reconditioning of the major portion of the existing oil-surfaced landing field. The other bids were: Walter Trepte, San Diego, \$32,800. Matich Brothers and Geo. Gardner & Sons, Elsinore, \$34,000. E. G. Carroll, San Diego, \$47,622. Weymouth Crowell Co., \$49,000.

BUTTE COUNTY, ETC., Cal.—Until October 23, 10:30 A. M., bids will be received by Division of Highways, Dept. of Public Works, District III, C. H. Whitmore, District Engineer, Hotel Marysville, Marysville, Calif., for about 352 miles of traffic strips to be applied to existing pavement in Butte, Colusa, El Dorado, Glenn, Nevada, Placer, Sacramento, Sutter Yolo and Yuba Counties.

CRESCENT CITY, Cal.—E. W. Ross Jr., Crescent City, Calif., submitted only bid at \$840 to Public Works Officer, Mare Island Navy Yard, for repair and maintenance of road to the U. S. Naval Direction Finder Station, Point St. George, Crescent City. Spec.

SAN FRANCISCO — Until October 18, bids will be received by Board

of Public Works, S. J. Hester, Deputy Director, for the construction of Berna Heights Blvd., involving: (1) 46,240 cu. yds. excav.; (2) 42 cu. yds. mortared rubble masonry wall; (3) 170,600 sq. ft. 8-in. water bound macadam base; (4) 150 lin. ft. conc. curb reset; (5) 11,000 lin. ft. 2-in.x8-in. redwood curb. Estimated cost, \$14,000.

SAN RAFAEL, Cal.—Following have obtained specifications for the construction of a post road system at Hamilton Field, San Rafael:

- F. J. Main, Fairfax.
- Hutchinson Co., 1450 Harrison St., Oakland.
- Pacific States Constr. Co., 708 Call Bldg., San Francisco.
- Chas. L. Harney, 443 Call Bldg., San Francisco.
- Fay Improvement Co., 760 Market St., San Francisco.
- A. J. Ralsch, 1 De Haro St., San Francisco.
- City Improvement Co., 4626 Harrison St., Oakland.
- Oilfield Trucking Co., P. O. Box 751, Bakersfield.
- Fredrickson & Watson, 873 81st Ave., Oakland.

SAN FRANCISCO — E. J. Treacy, Call Bldg., at \$3897.60 awarded contract by Dept. of Public Works, S. J. Hester, Deputy Director, for repair and maintenance work on Joost Ave., Slide No. 1 from Acadia to Eaden Sts.

SANTA BARBARA COUNTY, Cal.—Kovacevich & Price, Inc., 5400 Imperial Highway, Southgate, Cal., at \$23,839 awarded contract by State Highway Commission, Sacramento, for grading and widening pavement with Portland cement concrete about 0.6 mile between Summerland and Sheffield Drive.

SAN FRANCISCO, Cal.—Until October 18 bids will be received by Board of Public Works, S. J. Hester, deputy director, for improvement of Parker Ave. between Turk and McAllister Sts. Estimated cost, \$5715. The work involves:

- (1) 1310 cu. yds grading and excav.;
- (2) 1370 lin. ft. armored conc. curb;
- (3) 6190 sq. ft. 1-course conc. sidewalks;
- (4) 13,610 sq. ft. asph. conc. pave.;
- (5) 1500 sq. ft. asph. conc. conform pave.

YAKIMA COUNTY, Wash.—J. Romano Engineering Corp., 1300 Dearborn St., Seattle, Wash., at \$61,263 (metal pipe alternate) and \$61,536 (concrete pipe) submitted low bid to W. H. Lynch, District Engineer, U. S. Bureau of Public Roads, Portland, Ore., to construct 4.734 miles of Randle-Yakima Highway grading project NR-13-N, County of Yakima, State of Washington.

KLAMATH CO., Ore.—J. C. Compton, second low bidder, at \$23,377, awarded contract by State Highway Commission for 4 miles bituminous macadam, and 6.1 miles of oil mat surface treatment on the Merrill-Malin Section of The Dalles-California Highway.

Dunn & Baker low bidder, at \$22,723, refused the award.

JACKSON CO., Ore.—Northwest Roads Co., Park Rose, Portland, at \$43,565, awarded contract by Oregon State Highway Commission for 3 miles of bituminous macadam, and 13.5 miles of oil mat surface treatment on the Little Butte-Elk Creek Section of the Crater Lake Highway.

FRANKLIN COUNTY, Wash.—Standard Asphalt Paving Co., Spokane, Wash., at \$13,991 awarded contract by L. V. Morrow for widening with bituminous macadam, 1 mile of South Tenth Ave. and West and East Lewis Sts. In City of Pasco, National Recovery Munl. Highway Project No. NRM 194-B in Franklin County.

STEVENS COUNTY, Wash.—Joslin & McAllister, Spokane, Wash., at \$34,706 awarded contract by L. V. Morrow, State Director of Highway, Olympia, for highway construction, surfacing with 23,090 cu. yds. of crushed stone 11.6 mi., State Road No. 22 Stevens County.

DOUGLAS COUNTY—Leo J. Levin, Coulee, Wash., at \$12,523 awarded contract by L. V. Morrow, State Director of Highway, Olympia, Wash., for surfacing 2.6 mi. of State Road No. 10, Bridgeport north, in Douglas County.

APACHE CO., Ariz.—Until Oct. 27, 2 p. m., bids will be received by the Arizona State Highway Commission, Phoenix, Ariz., for improving Holbrook-Lupton Highway, Project No. NRH 83-E. The work begins at the east end of NRH 83-D and extends easterly about 12.66 miles, consisting of grading and draining the roadway and placing base course, and is to be completed on or before July 15, 1934. Work involves:

- (1) 80,300 cu. yds. rdwy. excav.;
- (2) 18,500 cu. yds. drainage excav.;
- (3) 7,800 cu. yds. borrow excav.;
- (4) 34,700 cu. yds. sel. borrow.;
- (5) 19,200 cu. yds. ml. select borrow haul.;
- (6) 36,300 cu. yds. aggregate base course.;
- (7) 251,300 cu. yds. mi. do. haul.;
- (8) 852 cu. yds. concrete.;
- (9) 73,500 lbs. reinf. steel.;
- (10) 1,772 lin. ft. C. M. P. (various sizes).;
- (11) 6,400 lin. ft. road guard.;
- (12) 132,700 lin. ft. line fence.;
- (13) 90 M. B. M. treated timber.;
- (14) 5 M. B. M. untreated timber.;
- (15) 2,800 lin. ft. treated timber plies.

Specifications obtainable at above office.

APACHE COUNTY, Ariz.—Until October 27, 10 A. M., bids will be received by the Arizona State Highway Commission, Phoenix, Ariz., for improving Holbrook-Lupton Highway Project No. NRH 83-D. The work begins at the Navajo-Apache County line and extends easterly about 18.2 mi. consisting of grading and draining the roadway and placing base course, and is to be completed on or before August 31, 1934. The work involves:

- (1) 136,000 cu. yds. rdwy. excav.;
- (2) 21,200 cu. yds. drainage excav.;
- (3) 13,600 cu. yds. borrow excav.;
- (4) 48,200 cu. yds. aggregate base course.;
- (5) 188,600 cu. yds. aggregate do haul.;
- (6) 882 cu. yds. concrete.;
- (7) 1624 lin. ft. CMP (various sizes).;
- (8) 6600 lin. ft. road guard.;
- (9) 178,500 lin. ft. line fence.;
- (10) 67,500 lbs. reinf. steel.;
- (11) 58,600 lbs. struc. steel.;
- (12) 53 M.B.M. treated timber.;
- (13) 4 M.B.M. untreated timber.;
- (14) 1750 lin. ft. treated timber plies.

Specifications obtainable at above office.

VALLEJO, Solano Co., Cal.—Until Oct. 17, 11 A. M. (tentative date Oct. 16 previously published) bids will be received by the city council of Vallejo to grade, pave and curb Butte St. between Alabama and Tennessee, involving:

- (1) 460 cu. yds. grading.;
- (2) 15,850 sq. ft. 5-in. asph. cover.;

- (3) 750 lin. ft. curbs and gutter.;
- (4) 600 sq. ft. special gutter.

Specifications obtainable from the above office. No deposit required. Alfred E. Edgcombe, city clerk, Vallejo.

SANTA CLARA COUNTY, Cal.—A. J. Raisch, Burrell Bldg., San Jose, at \$22,400, second low bidder, awarded contract by Santa Clara County Board of Supervisors for improvement of Buena Vista Ave., in Supervisorial District No. 1.

Tiffany Construction Co., 535 N. 7th St., San Jose, at \$18,432 low bidder, withdrew their bid.

SAN RAFAEL, Marin Co., Cal.—Until October 23, 11:15 A. M., bids will be received at the Office of the Constructing Quartermaster, Hamilton Field, San Rafael, for construction of sidewalks and driveways at Hamilton Field.

Specifications obtainable at above office on deposit of \$5 and on file at the Office of the Constructing Quartermaster, Fort Mason, and at the Builders' Exchange, San Francisco.

SANTA CLARA CO., Calif.—Until November 1, 2 P. M., bids will be received by State Highway Commission, Sacramento, to grade and pave 2.7 miles with Portland cement concrete between Lawrence Sta. Road and Alviso-Santa Clara Road, Santa Clara County, involving:

- (1) 21.5 acres clear and grub right of way.;
- (2) 3,000 cu. yds. rdwy. excav., unclassified.;
- (3) 142,000 cu. yds. imp. borrow.;
- (4) 3,640 cu. yds. struc. excav.;
- (5) 65,250 sq. yds. subgrade for pave.;
- (6) 13,270 cu. yds. Class A Portland cem. conc. pave.;
- (7) 597 cu. yds. Class A Port. cem. conc. struc.;
- (8) 8 cu. yds. Class E do.;
- (9) 353,800 lbs. bar reinf. steel pave. and struc.;
- (10) 1,060 tons asph. concrete, type B surf.;
- (11) 1250 bbls. heavy fuel oil.;
- (12) 2.54 mi. oil mix. earth shoulders.;
- (13) 2000 sq. yds. asph. paint binder.;
- (14) 165 tons asph. rd. oil seal coat.;
- (15) 900 lin. ft. 8-in. corr. MP.;
- (16) 778 lin. ft. 18-in. CMP.;
- (17) 1284 lin. ft. 24-in. CMP.;
- (18) 306 lin. ft. 30-in. CMP.;
- (19) 110 lin. ft. 36-in. CMP.;
- (20) 1574 lin. ft. 12-in. CMP close riv. and soldered.;
- (21) 250 lin. ft. 6-in. vitrified clay pipe.;
- (22) 70 etch conc. joints for siphons.;
- (23) 6 each inlet assemblies for siphons.;
- (24) 6 ea. outlet assemblies for siphons.;
- (25) 5 ea. sand trap assemblies for siphons.;
- (26) 1300 lin. ft. furnishing reinf. coc. piles.;
- (27) 40 ea. driving surf. conc. piles.;
- (28) 3 ea. removing trees Size 1.;
- (29) 1 ea. removing trees Size 2.;
- (30) 1 ea. removing trees Size 3.;
- (31) 80 cu. yds. Portland cement concrete in existing pave. & struc. to be removed and disposed of.;
- (32) 1250 thousand gals. water.;
- (33) 2.2 mi. new property fence.;
- (34) 10 ea. fence gates.;
- (35) 72 ea. timber guide posts.;
- (36) 70 each culvert markers.;
- (37) 400 lin. ft. laminated timber guard rail.;
- (38) 141 stations finish rdwy.;
- (39) 44 each monuments complete in place.;

Plans and specifications are obtainable at above office, and are on file at the offices of the District Engineers at Los Angeles and San Francisco, and at the office of the District En-

gineer of the district in which the work is situated.

COCONINO AND GILA COUNTIES, Ariz.—H. J. Hagen, Globe, Arizona, at \$110,080 submitted low bid to Bureau of Public Roads, 802 Title and Trust Bldg., Phoenix, Ariz., for grading 6.870 mi. Section D of Route 10, Coconino and Gila Counties, Ariz. Complete bids follow:

H. J. Hagen, Globe, Ariz., \$110,080.
Martin Wunderlich, Jefferson City, Mo., \$113,731.
Skousen Bros., Albuquerque, N. M., \$116,746.
Utah Construction Co., Salt Lake City, \$117,949.

H. J. Hagen, Globe, Ariz., low bidder, recommended award.

ARIZONA STATE.—Morrison and Knudsen, Boise, at \$269,995 submitted combination low bid for grading section D (\$216,866.90) and Section E (\$53,634.10) to C. H. Sweetser, District Engineer, 302 Title and Trust Bldg., Phoenix, to grade 10.938 miles Northern Arizona-Cameron Desert View Approach to Grand Canyon National Park, Section D; and to grade Section E of the Cameron-Desert View Approach to Grand Canyon National Park, Coconino Co., Ariz.

The following are five low bidders on Section D (eight bids received):

(A) Morrison and Knudsen, Boise Idaho, \$216,866.90; 3 per cent deducted if awarded Section E.

(B) Martin Wunderlich, Jefferson City, Mo., \$223,353; 3 per cent deducted if awarded Section E.

(C) Daley and Vinson and Pringle, Phoenix, \$247,180; 5 per cent deducted if awarded Section E.

(D) Gist & Bell, Arcadia, Calif., \$247,577; 8 per cent deducted if awarded Section E.

(E) Moore & Casson, Oakland, Cal., \$254,888; 1 per cent deducted if awarded Section E.

(F) Engineer's estimate, \$233,103.75; net.

The following are five low bidders on Section E (seven bids received):

(A) Moore & Casson, Oakland, Cal., \$54,473.00.

(B) Martin Wunderlich, Jefferson City, Mo., \$56,697.00.

(C) O. F. Fisher, Phoenix, \$59,356.

(D) Morrison and Knudsen, Boise, \$59,634.10.

(E) Daley and Vinson and Pringle, Phoenix, \$64,284.

(F) Engineer's estimate, \$53,848.25.

Morrison & Knudsen, Boise, are recommended for award on both contracts, net total \$269,995. Engineer's estimate total \$286,952.

YOLO CO., Cal.—Until Nov. 1, 2 P. M., bids will be received by the State Highway Commission, Sacramento, to grade about 3.7 miles between Rumsey and the northerly boundary in Yolo county, involving:

- (1) 25 acres clear and grub right of way.;
- (2) 203,000 cu. yds. rdwy. excav., unclassified.;
- (3) 2,084,000 sta. yds. overhaul.;
- (4) 18,500 cu. yds. sel. stone embankment.;
- (5) 5,000 cu. yds. blasting channel obstructions.;
- (6) 7,500 cu. yds. struc. excav.;
- (7) 32 lin. ft. 12-in. C.M.P.;
- (8) 1,234 lin. ft. 18-in. do.;
- (9) 280 lin. ft. 24-in. do.;
- (10) 394 lin. ft. 36-in. do.;
- (11) 108 lin. ft. 48-in. do.;
- (12) 176 lin. ft. 84-in. do.;
- (13) 1,600 cu. yds. rubble masonry.;
- (14) 124 lin. ft. rubble masonry parapet.;
- (15) 5 miles new property fence.;
- (16) 10 ea. gates complete in place.;
- (17) 190 sta. finish rdwy.;
- (18) 68 each monuments complete in place.

LOS ANGELES & KERN COS., Cal.—Until November 1, 2 P. M., bids will be received by the State Highway Commission, Sacramento, to widen 24.4 miles in length, the existing roadbed and earth shoulders on each side of the existing pavement to be oil treated for a length of about 11.2 miles between Lancaster and Mojave in Los Angeles and Kern Counties, involving:

- (1) 1,287 sta. clear and grub right of way;
- (2) 22,800 cu. yds. rdwy. excav., unclassified;
- (3) 500,000 sta. yds. overhaul;
- (4) 26,000 cu. yds. imp. borrow;
- (5) 1,100 cu. yds. struc. excav.;
- (6) 77 cu. yds. Class A Port. cement concrete structures;
- (7) 3,550 lbs. bar reinf. struc.;
- (8) 1,030 lin. ft. 18-in. CMP;
- (9) 170 lin. ft. 24-in. CMP;
- (10) 194 each culvert markers;
- (11) 5,500 bbls. heavy fuel oil;
- (12) 11.2 miles prepare, mix and shape shoulders;
- (13) 7.25 miles remove and reset existing property fence;
- (14) 1,287 sta. finish rdwy.;
- (15) 117 each monuments complete in place.

The State will furnish corrugated metal pipe as more explicitly set forth in the special provisions.

Plans and specifications are obtainable at above office, and are on file nears at Los Angeles and San Fran at the offices of the district engineer, and at the office of the district engineer of the district in which the work is situated.

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WASHINGTON COUNTY, Ore.—Kern & Kibbe, 290 E. Salmon St., Portland, at \$191,178 awarded contract by State Highway Commission for 8.97 mi. of asphaltic concrete pavement on Hillsboro-Beaverton Section of the Tualatin Valley Highway.

WHITE PINE AND ELKO COUNTIES, Nevada—Until October 25, 3:30 P. M., bids will be received by S. C. Durkee, State Highway Engineer, Heroes' Memorial Bldg., Carson City, Nevada, to surface 21.69 mi. Route 13, Sections A and A1 in White Pine and Elko Counties, between 28½ mi. north of Magnussen's and 5 mi. north of Currie, involving:

- (1) 179,200 cu. yds. rdwy. excav.;
- (2) 139 acres clearing and grubbing;
- (3) 80,196 sta. yds. overhaul;
- (4) 50,760 cu. yds. select borrow;
- (5) 1670 cu. yds. struc. excav.;
- (6) 21.69 mi. subgrade;
- (7) 68,500 cu. yds. cru. gravel or stone surface;
- (8) 255 cu. yds. Class B concrete;
- (9) 5150 lbs. reinf. steel;
- (10) 1324 lin. ft. 18-in. CMP;
- (11) 3734 lin. ft. 24-in. CMP;
- (12) 114 lin. ft. 30-in. CMP;
- (13) 538 lin. ft. 36-in. CMP;
- (14) 268 lin. ft. 48-in. CMP;
- (15) 1710 lin. ft. construct fence;
- (16) 69 monuments;
- (17) 21.69 mi. finish roadway.

MINERAL AND ESMERALDA COUNTIES, Nevada—Until Oct. 25, 3 P. M., bids will be received by H. C. Durkee, State Highway Engineer, Heroes' Memorial Bldg., Carson City, Nevada, for surfacing 22.28 mi. between Basalt and Coaldale, in Mineral and Esmeralda Counties, Rt. 15, Sec. A, involving:

- (1) 249,500 cu. yds. rdwy. excav.;
- (2) 75 acres clearing and grubbing;
- (3) 68,681 sta. yds. overhaul;
- (4) 54,930 cu. yds. sel. borrow;
- (5) 3100 cu. yds. struc. excav.;
- (6) 22.26 mi. subgrade;
- (7) 54 MFBM Redwood;
- (8) 70,300 cu. yds. crushed gravel or stone surface;
- (9) 200 cu. yds. Class A concrete;

- (10) 312 cu. yds. Class B concrete;
- (11) 26,000 lbs. reinf. steel;
- (12) 327 sq. yds. asph. bridge surf.;
- (13) 120 lin. ft. 15-in. CMP;
- (14) 1294 lin. ft. 18-in. CMP;
- (15) 3436 lin. ft. 24-in. CMP;
- (16) 280 lin. ft. 30-in. CMP;
- (17) 1144 lin. ft. 36-in. CMP;
- (18) 154 lin. ft. 48-in. CMP;
- (19) 819 lin. ft. 24-in. vitrified pipe;
- (20) 100 lin. ft. 4-in. water pipe;
- (21) 165 cu. yds. handlaid rlpip;
- (22) 123 monuments;
- (23) 22.28 mi. finish roadway.

Plans and specifications available from above office on deposit of \$5. \$2.50 refunded.

UMATILLA COUNTY, Ore.—Northwest Road Co., Park Rose, Portland, at \$109,873 awarded contract by State Highway Commission for 6.05 mi. of crushed rock surfacing, and 7.1 mil. of bituminous macadam on Emigrant Springs-Summit Section of the Old Oregon Trail.

MULTNOMAH COUNTY, Oregon—Harold Blake, Portland, at \$125,435 awarded contract by State Highway Commission for pavement and rock surfacing work on Fourth St., Sheridan St.-Portland City Limits Section of the West Side Pacific Highway.

SHASTA COUNTY, Cal.—Until Oct. 20, 2 P. M., bids will be received by F. W. Haselwood, District Engineer, District II, Dept. of Public Works, Division of Highways, Redding, for grading and surfacing with crusher run base about 1.3 miles bet. Haynes Ranch and Canyon Creek in Shasta County. Specifications may be obtained at the above office.

LOS ANGELES, Cal.—Southern California Roads Co., 2145 E. 25th St., at \$82,971.66 awarded contract by the Los Angeles Board of Public Works, for improving Manchester Avenue from Central Ave. to Wall St. under cash contract (A.C.20509). The bids were opened September 13.

MOHAVE COUNTY, Ariz.—Until October 26, 2 P. M., bids will be received by C. H. Sweetser, District Engineer, Bureau of Public Roads, 807 Sheldon Bldg., San Francisco, for grading Section A of Federal Lands Highway Project No. 2, Kingman-Boulder Dam Highway, Mohave Co., Arizona, involving:

- (1) 249,000 cu. yds. unclass. excav.;
- (2) 1594 cu. yds. unclass. excav. struc.;
- (3) 7000 cu. yds. unclass. excavation borrow;
- (4) 316,700 sta. yds. overhaul;
- (5) 2,964 mi. finishing earth graded roads;
- (6) 1285 cu. yds. concrete;
- (7) 126,480 lbs. reinf. steel;
- (8) 1306 lin. ft. corru. met. pipe;
- (9) 68,968 lbs. struc. steel;
- (10) 11,310 lin. ft. guard rail.

Plans and specifications obtainable from above office upon a deposit of \$10. Checks should be certified and made payable to the Regional Fiscal Agent, U. S. Forest Service.

LYON & CHURCHILL COS., Nev.—Union Paving Co., 624 Call Bldg., San Francisco, at \$68,286.16 awarded contract by Nevada State Highway Commission, Carson City, for 12.10 miles of highway reconstruction in Lyon and Churchill counties, between two miles west of Lahontan and Leeteville, Rt. 2A, Sections C3, A, and B, NRA 115-E. Isbell Const. Co., Carson City, at \$68,537.28 submitted second low bid. Complete bids will be published shortly.

LINCOLN COUNTY, Nevada—N. M. Ball, 1889 Yosemite Road, Berkeley, Calif., at \$99,124.11 awarded contract by Nevada State Highway Commission, Carson City, S. C. Durkee, State Highway Engineer, for 13.5 miles of highway reconstruction bet. Pioche and Stonehouse, Lincoln County, Rt. 7, Sec. D-1-NR11 63. George French, P. O. Box 107, Stockton, Cal., at \$107,642.61 submitted second low bid.

SAN FRANCISCO.—Eaton & Smith, 715 Ocean Ave., at \$981.80 awarded the contract by the Department of Public Works for improving Gaven Street between Barneveld Ave. and Merrill St. Bids opened October 4.

LOS ANGELES COUNTY, Calif.—Griffith Const. Co., 502 Los Angeles Railway Bldg., Los Angeles, at \$35,090 awarded contract by State Highway Commission, Sacramento, to apply bituminous surface treatment and to super-elevate curves over five miles between Oak Garage and Palmdale. Complete bids will be published shortly.

30—RESERVOIRS & DAMS DISPOSAL PLANTS

SACRAMENTO, Cal.—Governor James Rolph has set December 19, as the date for a special State Election on the proposed Central Valley Water Conservation and Flood Control Project. Construction of dams and canals estimated to cost \$170,000,000 is involved.

EUREKA, Humboldt Co., Cal.—See Item under 33, "Water Works."

BONNEVILLE, Ore.—Pennsylvania Drilling Co. at \$13,025 submitted low bid to the War Department, U. S. District Engineer, 306 Customhouse, Portland, Ore., under Invitation No. 34-122 for core drilling at Bonneville dam site in Columbia river, 42 miles east of Portland.

SANTA CLARA COUNTY, Cal.—Santa Clara Valley Water Conservation District will rebuild a small dam on Los Gatos Creek at the Acasia Road crossing 1 mile south of Campbell by day labor. The work involves placing about 25 tons of steel and 500 cubic yards of concrete. Leroy Anderson, Secretary of the District, Fred H. Tibbetts, Alaska Commercial Bldg., San Francisco, District Engineer. Estimated cost of the work \$12,000.

PASADENA, Cal.—Kemper Constr. Co., Ltd., 3701 Overland Ave., Los Angeles, at \$43,584.40 awarded contract by the Pasadena City Board of Director for driving 1625 ft. of small tunnels, lining same with concrete, and constructing 850 ft. of steel and concrete syphon, at the Pine Canyon Reservoir site, in accordance with plans prepared by Samuel B. Morris, Chief Engineer. The bids were opened October 3.

31—PIPE LINES & WELLS

PUGET SOUND, Wash.—Queen City Constr. Co., 603 18th Avenue South, Seattle, Wash., at \$21,695.54 awarded contract by Public Works Officer, Puget Sound Navy Yard, Puget Sound, Washington, for replacing water main at Puget Sound. Specification No. 7339.

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

SONOMA COUNTY — OVERPASS — STATE

SONOMA CO., Cal.—State Highway Commission, Sacramento, will announce on October 13 a decision on the low regular bid submitted for constructing overhead crossing over the tracks of the Northwestern Pacific railroad at Preston, Sonoma County, consisting of one 63-ft. steel beam span on concrete piers and 255½ ft. of timber trestle approach on frame bents with concrete pedestals. The low bid of Frank J. Reilly, 6350 Fulton St., San Francisco, at \$24,728, was believed to be disqualified by failure to follow correct bid form. The work involves:

- (1) 665 cu. yds. structure excav.;
- (2) 212 cu. yds. class A Portland cement concrete struc.;
- (3) 219 cu. yds. class A Portland ce-

- ment concrete trestle slab;
- (4) 84 cu. yds. class B Portland cement concrete;
- (5) 49,000 lbs. bar reinforcing steel;
- (6) 87,000 lbs. structural steel;
- (7) 240 lbs. cast steel;
- (8) 71 M feet board measure redwood timber, dense select allheart struc. grade;
- (9) 63 M ft. board measure redwood timber, select allheart struc. grade;
- (10) 1 lot misc. items of work.

- Total bids follow:
- (A) Frank J. Reilly, San Francisco, \$24,728.
 - (B) B. A. Howkins Co., San Francisco, \$24,890.75.
 - (C) M. B. McGowan, San Francisco, \$26,232.

- (D) Neves & Harp, Santa Clara, \$26,523.10.
- (E) MacDonald & Kahn, San Francisco, \$27,076.50.
- (F) L. C. Seidel, Oakland, \$27,896.50.
- (G) Rocca & Caletti, San Rafael, \$28,007.25.
- (H) F. J. Main, Fairfax, \$28,213.50.
- (I) Mercer-Fraser Co., Eureka, \$28,687.30.
- (J) Bodenhamer Const. Co., Oakland, \$28,698.60.
- (K) Alfred H. Vogt Co., San Francisco, \$30,534.30.
- (L) J. P. Brennan, Redding, \$30,596.
- (M) J. W. Terrell, Sacramento, \$32,969.00.

Unit prices follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)
(1)....	\$ 1.20	\$ 1.00	\$ 1.50	\$ 1.50	\$ 1.50	\$ 1.50	\$ 1.25	\$ 2.50	\$ 1.90	\$ 2.00	\$ 1.50	\$ 2.00	\$ 1.50
(2)....	9.10	14.75	16.00	15.00	18.00	19.00	20.00	17.50	19.75	17.00	18.60	22.00	20.00
(3)....	11.20	10.00	14.00	15.00	16.00	15.00	13.20	13.00	12.75	15.00	17.20	18.00	17.50
(4)....	14.50	13.75	16.00	15.00	15.00	14.00	17.00	16.50	15.40	16.50	17.00	20.00	17.50
(5) ..	.0521	.045	.04	.0415	.042	.044	.045	.045	.045	.05	.0475	.055	.055
(6)....	.0515	.051	.04	.05	.045	.05	.05	.052	.05	.05	.0475	.06	.06
(7)....	.09	.20	.25	.19	.20	.30	.20	.25	.28	.20	.20	.25	.20
(8)....	85.00	83.50	90.00	72.50	84.00	81.00	94.00	90.00	94.00	90.00	100.00	80.00	96.00
(9)....	80.00	76.75	83.00	89.00	78.00	87.00	80.00	83.00	88.25	85.00	86.00	75.00	90.00
(10)....	200.00	300.00	313.50	617.00	600.00	600.00	300.00	200.00	295.00	500.00	1500.00	600.00	2000.00

ENGINEERING NEWS

(Continued from Page 23)

32—SEWERS & SEWAGE DISPOSAL PLANTS

SAN RAFAEL, Cal. — Following have obtained specifications for the construction of extensions to sanitary sewer system and storm drainage system, gas distribution system and water distribution system at Hamilton Field, San Rafael:

- Crane Co., 301 Brannan St., San Francisco.
- Oakland Sewer Co., 9915 Walnut St., Oakland.
- Alta Electric Co., 467 O'Farrell St., San Francisco.
- Pittsburg Equitable Meter Co., 2431 Peralta St., Oakland.
- G. C. DeColyer, 217 Federal Tele. Bldg., Oakland.
- H. E. Conner, 1222 Whipple Ave., Redwood City.
- Pacific States Constr. Co., 708 Call Bldg., San Francisco.
- J. J. O'Neare Jr., 50 Winship Ave., San Anselmo.
- Pacific Irrigation Equipment Co., 7 Front St., San Francisco.
- U. S. Pipe & Foundry Co., 907 Monadnock Bldg., San Francisco.

NORTH SACRAMENTO, Cal. — North Sacramento City Council has engaged Harry A. Jenks, sanitary engineer, to begin immediately a preliminary survey to ascertain a recommended design and estimate cost of constructing a municipal sewage disposal plant.

ONTARIO, Cal.—Currie Engr. Co., Anderson Bldg., San Bernardino, has been retained by the Ontario City Council to prepare a report on a proposed sewage disposal plant to serve Ontario. The cities of Ontario and Upland have been considering a joint plant to serve both cities. Estimated cost, \$125,000.

(Continued on Page 25)

MONO COUNTY—GRADE AND SURFACE—STATE

MONO COUNTY, Cal.—Southwest Paving Co., Inc., 712 Lankershim Bldg., Los Angeles, at \$191,235.45 submitted low bid to State Highway Commission, Sacramento, for grading and surfacing with select material and apply bituminous surface treatment 9.7 mi. in Mono county, between Crestview and 2.2 ml. south of Rush Creek, involving:

- (1) 315 sta. clearing and grubbing right of way;
- (2) 237,600 cu. yds. roadway excav. without classification;
- (3) 665,000 sta. yds. overhaul;
- (4) 68,000 cu. yds. imported borrow;
- (5) 2360 cu. yds. structure excav.;
- (6) 15,000 tons selected surfacing material;
- (7) 6000 gallons water;
- (8) 1500 barrels light fuel oil;
- (9) 780 tons cutback asphalt;
- (10) 60 cu. yds. class A Portland cement concrete structures;
- (11) 2100 lbs. bar reinforcing steel structures;
- (12) 134 lin. ft 8-in. corr. metal pipe;
- (13) 50 lin. ft. 12-in. corr. metal pipe;

- (14) 2856 lin. ft. 18-in. corr. metal pipe;
- (15) 338 lin. ft. 24-in. corr. metal pipe;
- (16) 266 lin. ft. corr. metal pipe remove and salvage;
- (17) 18 each spillway assemblies complete in place;
- (18) 32 each timber guide posts complete in place;
- (19) 36 each culvert markers complete in place;
- (20) 513 sta. finishing roadway;
- (21) 118 each monuments complete in place.

Complete bids follow:

- (A) Southwest Paving Co., Inc., Los Angeles, \$191,235.45.
- (B) Basich Bros., Torrance, \$194,305.60
- (C) Hemstreet & Bell, Marysville, \$201,477.80.
- (D) Morrison & Knudsen, Los Angeles, \$212,800.40.
- (E) Isbell Constr. Co., Carson City, Nevada, \$216,348.60.
- (F) Union Paving Co., San Francisco, \$312,983.

Unit bids follow.

	(A)	(B)	(C)	(D)	(E)	(F)
(1).....	\$35.00	\$60.00	\$20.00	\$40.00	\$50.00	30.00
(2).....	.35	.30	.34	.38	.38	.77
(3).....	.004	.0125	.005	.01	.01	.01
(4).....	.39	.31	.50	.31	.35	.50
(5).....	1.00	.70	1.00	.70	1.00	1.50
(6).....	1.39	1.60	1.65	2.25	1.75	2.00
(7).....	1.50	1.00	1.50	1.50	1.75	1.65
(8).....	3.00	4.50	4.00	3.25	3.80	4.00
(9).....	25.10	29.00	30.00	28.00	30.00	22.00
(10).....	25.00	30.00	30.00	25.00	30.00	30.00
(11).....	.06	.06	.07	.05	.06	.06
(12).....	1.10	1.50	.90	1.00	1.10	1.50
(13).....	1.50	2.00	1.25	1.50	1.50	1.75
(14).....	2.00	2.10	2.00	2.00	1.75	2.00
(15).....	2.75	2.75	2.90	3.00	2.90	3.00
(16).....	.50	.50	.50	.80	.50	.25
(17).....	16.50	12.00	12.50	15.00	15.00	15.00
(18).....	2.00	3.25	2.50	2.20	3.50	3.00
(19).....	1.50	2.25	2.50	2.20	2.50	2.00
(20).....	4.50	7.00	3.50	3.00	5.00	7.00
(21).....	2.00	4.00	3.50	3.00	3.00	2.50

ENGINEERING NEWS

MONTEREY, Monterey Co., Cal.—City council has set Nov. 20 as date for submitting a bond issue of \$86,000 to the voters with which it is planned to finance construction of a main intercepting and outfall sewer.

ROCKWELL FIELD, Calif.—Garrett & Co., 3333 S. Pacific Ave, San Pedro (San Pedro 661) at \$2585 submitted low bid to the Constructing Quartermaster, Rockwell Field, for installing sewer system at Rockwell Field. The engineer recommended that the award be made to the low bidder.

The other bids were:
Dudley Haverty Co. \$2890
Miracle Company 3132

LAS VEGAS, Nev.—The application of the City of Las Vegas for a loan to finance the construction of a lateral sewer system has been approved by the Nevada State Advisory Board. The application has been sent to Justice Wardell, Regional Director, at San Francisco, for his approval and forwarding to Washington for final action. The loan requested is for \$100,000.

33—WATER WORKS

FRESNO, Cal.—City commission will apply to Public Works Administration for loan to finance well drilling, new mains and pipe line in municipal water system. Estimated cost, \$94,350. Claude H. Weeks, Superintendent, Water Department.

LOS ANGELES, Cal.—The Water & Power Commission has authorized A. J. Holm, City Purchasing Agent, to award contract to American Concrete & Steel Plue Co., at \$43,060.46 for fabricating, furnishing, delivering, and installing, complete, centrifugally spun reinforced concrete pipe line required for the Department's Concrete Collecting Line from Wilmington Wells to Lomita Pumping Plant under Spec. No. 3227.

EUREKA, Cal. — City Council will apply for a federal loan and grant of \$1,200,000 to construct a new water supply. Project includes construction of a 184 ft. dam in Canyon Creek and conduits to the cities of Arcata and Eureka and improvement of Distributing System. Evan D. Gardner, City Engineer and Clyde C. Kennedy, San Francisco, Consulting Engineer.

SALEM, Oregon—Federal Public Works Administration has allotted \$1,500,000 to the City of Salem for improvement of its water system. Barr & Cunningham, Spalding Bldg., Portland, are consulting engineers on the project.

CORONADO, San Diego Co., Calif.—Miracle Co., 4751 Monroe Avenue, San Diego, at \$4344.30 for installing water mains, and \$5379.85 for installing gas lines at Rockwell Field, submitted the low bid to the Constructing Quartermaster, Rockwell Field.

The award was recommended to the low bidder. The other bids were:
Dudley Haverty Co., water, \$4745; gas, \$6250.
Garrett Co., water \$5190; gas \$5823.
Fred A. Heilbron Co., water, \$5292; gas, \$6979.

(Continued on Page 26)

SANTA BARBARA CO.—GRADING & PAVING—STATE

SANTA BARBARA COUNTY, Cal.—Kovacevich & Price, Inc., 5400 Imperial Highway, Southgate, at \$23,839.30 submitted low bid to State Highway Commission, Sacramento, for grading and widening pavement with Portland cement concrete about 0.6 mi. between Summerland and Sheffield Drive, involving:

- (1) 20,300 cu. yds. rdwy. excav. without class;
- (2) 75,000 sta. yds. overhaul;
- (3) 6500 cu. yds. selected material;
- (4) 530 cu. yds. struc. excavation;
- (5) 2850 sq. yds. subgrade for pave.;
- (6) 675 cu. yds. Class A Port. cem. conc. pave.;
- (7) 12 cu. yds. Class A Port. cem. concrete struc.;
- (8) 17,500 lbs. bar reinf. steel pave. and struc.;
- (9) 162 lin. ft. 8-in. corru. metal pipe;
- (10) 24-lin. ft. 18-in. do;
- (11) 310 lin. ft. 24-in. do;
- (12) 4 cu. yds. conc. removed from existing struc.;

- (13) 1230 sq. yds. paved butters and spillway inlet aprons;
 - (14) 700 M. gals. water;
 - (15) 440 bbls. fuel oil;
 - (16) 2950 lin. ft. move and reset existing guard rail;
 - (17) 12 each move and reset existing culvert markers;
 - (18) 8 each spillway assemblies;
 - (19) 2 each cast steel frames and covers for drop inlets;
 - (20) 33 sta. finish rdwy.;
 - (21) 38 each mounments complete in place.
- Complete bids follow:
(A) Kovacevich & Price, Inc., Southgate, \$23,839.30.
(B) Tiffany Constr. Co., San Jose, \$23,906.30.
(C) United Concrete Pipe Corp., Los Angeles, \$23,136.10.
(D) P. J. Akmatich, Los Angeles, \$29,987.
(E) Western Motor Transport, Santa Barbara, \$30,260.75.
(F) M. J. Bevanda, Stockton, \$34,990.50.
- Unit bids follow.

	(A)	(B)	(C)	(D)	(E)	(F)
(1).....	\$.38	\$.34	\$.45	\$.40	\$.48	\$.50
(2).....	.005	.01	.005	.01	.01	.01
(3).....	.38	.40	.60	.45	.50	.60
(4).....	1.00	.80	1.00	1.00	1.00	1.25
(5).....	.12	.08	.12	.12	.13	.15
(6).....	9.50	7.80	12.50	10.00	11.25	15.00
(7).....	20.00	22.00	20.00	20.00	20.00	30.00
(8).....	.05	.06	.05	.06	.06	.06
(9).....	.90	1.20	.80	1.00	1.00	1.00
(10).....	1.25	1.60	1.50	2.50	1.75	2.00
(11).....	2.00	2.10	2.50	3.50	2.25	3.25
(12).....	10.00	6.00	3.00	3.00	2.00	7.00
(13).....	1.00	1.35	.80	2.70	1.80	1.50
(14).....	.50	.80	.50	1.00	1.00	1.50
(15).....	2.00	1.75	1.60	3.00	2.00	2.25
(16).....	.40	1.00	.40	.80	.50	.60
(17).....	2.00	1.00	1.00	1.00	2.00	.50
(18).....	10.00	20.00	15.00	5.00	20.00	10.00
(19).....	30.00	18.00	10.00	10.00	15.00	25.00
(20).....	5.00	5.00	6.00	2.00	8.00	12.00
(21).....	2.00	3.00	2.00	2.00	2.00	3.50

MENDOCINO CO.—OVERHEAD CROSSING—STATE

MENDOCINO COUNTY, Cal.—Rocca & Caletti, Box 243, San Rafael, at \$25,393.40 submitted low bid to State Highway Commission, Sacramento, to construct overhead crissing over the tracks of the Northwestern Pacific Railroad near Hopland consisting of one 32-ft. steel beam span on concrete piers, three 27-ft. and twelve 19-ft. timber stringer spans on pile bents and frame bents with concrete pedestals, involving:

- (1) 570 cu. yds. struc. excav.;
- (2) 164 cu. yds. Class A Port. cem. conc. structure;
- (3) 231 cu. yds. Class A Port. cem. conc. timber trestle slab;
- (4) 46 cu. yds. Class B Portland cem. concrete;
- (5) 49,500 lbs. bar reinf. steel;
- (6) 24,000 lbs. struc. steel;
- (7) 89 M bd. ft. redwood timber dense sel. allheart struc. grade;
- (8) 56 M bd. ft. Redwood timber sel. allheart struc. grade;
- (9) 2700 lin. ft. fur. redwood plies

- Incl. test piles;
(10) 54 each driving redwood piles including test piles;
(11) 60 lin. ft. 8-in. C.M.P.;
- (12) 1 only assembly;
- (13) 1 lot misc. items of work.

Complete bids follow:
(A) Rocca & Caletti, San Francisco, \$25,393.40.
(B) Sam Sciarrino, San Jose, \$25,504.
(C) Nevis & Harp, Santa Clara, \$25,766.95.
(D) Baldwin & Butler, Berkeley, \$26,034.25.
(E) Bodenhamer Constr. Co., Oakland, \$26,981.
(F) MacDonald & Kahn, San Francisco, \$27,252.50.
(G) M. B. McGowan, San Francisco, \$27,755.
(H) Merced Fraser Co., Eureka, \$27,857.80.
(I) J. W. Terrell, Sacramento, \$32,237.50.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
(1)....	\$ 1.00	\$ 2.00	\$ 1.00	\$ 1.50	\$ 2.00	\$ 1.50	\$ 1.00	\$ 1.80	\$ 1.50
(2)....	18.75	16.00	15.00	16.00	17.00	18.50	17.00	21.00	1.50
(3)....	12.00	13.50	15.00	12.25	17.00	16.50	12.00	12.30	17.50
(4)....	17.25	14.00	15.00	15.00	16.00	15.00	17.00	15.90	17.50
(5)....	.045	.055	.045	.045	.05	.042	.04	.045	.055
(6)....	.05	.045	.045	.055	.055	.05	.055	.05	.06
(7)....	88.00	78.00	72.50	84.00	85.00	85.00	95.00	96.50	96.00
(8)....	73.40	63.00	89.00	79.00	80.00	78.00	85.00	87.00	90.00
(9)....	.50	.35	.33	.50	.40	.43	.40	.38	.50
(10)....	20.00	40.00	30.00	35.00	20.00	30.00	65.00	27.40	40.00
(11)....	1.10	1.00	1.00	1.00	1.00	.90	1.00	1.30	1.00
(12)....	25.00	40.00	50.00	15.00	30.00	15.00	25.00	10.50	20.00
(13)....	292.00	500.00	1200.00	250.00	300.00	800.00	193.00	333.00	2000.00

ENGINEERING NEWS

(Continued from Page 25)

34—PARKS AND PLAY-GROUNDS

SEATTLE, Wash.—Until October 27, 1933, 3 p. m., bids will be received by the Office of the Supervising Architect, Washington, D. C., for fencing, lawns, etc., for the U. S. Marine Hospital at Seattle, Wash. Drawings and specifications may be obtained from James A. Wetmore, supervising architect, on a deposit of \$15 certified check, payable to the Treasurer of the United States.

Following prospective bidders have applied for plans:

A. F. Mowatt, McDowell Bldg., Seattle, Wash.

West Coast Construction Co., Lloyd Bldg., Seattle, Wash.

Neil McDonald, Lloyd Bldg., Seattle, Wash.

H. S. Staffenson, 714 First Ave. N.W., Seattle, Wash.

Hedeen Construction Co., American Bank Bldg., Seattle, Wash.

Butler Construction Co., 3419 13th St. S.W., Seattle, Wash.

Bebb Gould & John Graham, 710 Hoge Bldg., Seattle, Wash.

Preliminary Plans Being Prepared.

SWIMMING POOL
Cost, \$—
WOODLAND, Yolo Co., Cal.
Concrete swimming pool.
Owner—City of Woodland.

Consulting Engineer—Frank A. Hill, 1448 Webster St., Oakland.

Plans will be submitted to the Chamber of Commerce and City Council shortly for approval.

(2703) 1st report Sept. 13, 1933.

HAYWARD, Cal.—Mayor Frank J. Cunha and the city councilmen will consider a bond election for the proposed swimming pool at their meeting, October 18. Federal aid for funds will be asked after the election.

SAN RAFAEL, Marin Co., Calif.—Until October 23 at 11:00 A. M., bids will be received at the office of the Constructing Quartermaster, Hamilton Field, San Rafael, for construction of a boundary fence at Hamilton Field.

Specifications obtainable from the above on deposit of \$5.00 and on file at the office of the Constructing Quartermaster, Fort Mason, and the Builders' Exchange, 666 Mission St., San Francisco.

FORT MASON, San Francisco.—Until October 20, 10 A. M., bids will be received by the Office of Port Quartermaster, Fort Mason, for the erecting of 800 feet of wire fence, including two gates on west side of McDowell Ave., Fort Mason. Plans and specifications obtainable on deposit of \$5.00, certified check made payable to the Treasurer of the United States.

23— IRRIGATION PROJ.

ONTARIO, Oreg.—Until Nov. 7, 10 a. m., bids will be received by the office of the Bureau of Reclamation, Ontario, Oreg., Elwood Mead, Commissioner, for the construction of canal lining, Tunnel No. 4, and structures, North Canal, Station 0 (Tunnel Canyon) to Station 513 (Mitchell Butte), Mitchell Butte Division, Owyhee project, Oregon-Idaho. The work is located near Nyssa and Ontario, Oregon, on the Oregon Short Line Railroad. The work involves:

(1) 14,120 cu. yds. excav., all classes open-cut;

(Continued on Page 27)

SAN BERNARDINO CO.—ROAD CONSTR.—MET. DIST.

LOS ANGELES, Cal.—C. W. Wood, Box 49, Stockton, Cal., submitted the low bid to the Metropolitan Water District, Los Angeles, October 3, at \$189,836.23 for Schedules 1, 2 and 3, for constructing 20.3 miles of road for the Colorado River Aqueduct, Specifications No. 52. The proposed work is in San Bernardino County, Cal., and extends from Earp northeasterly along the west bank of the Colorado River, approximately 20 miles. The work is divided into schedules as follows:

Schedule 1—River Road, 15.9 miles.
Schedule 2—Desilt Wash, 2.6 miles.
Schedule 3—Gene Draw, 1.8 miles.

The work consists of all necessary excavation and grading, and the placing of surfacing materials, culvert pipes, riprap and protection work. F. E. Weymouth, Chief Engineer and General Manager. The schedules and items are:

SCHEDULE 1—Construction of the River Road; approximate length 15.9 miles:

- (1) 3000 cu. yds. earth excavation;
- (2) to (14) Items 2 to 14, inclusive, do not apply to Schedule 1.
- (15) 800 M. gallons watering subgrade;
- (16) 2500 cu. yds. furnishing select borrow sub-base stabilizer;
- (17) 25,600 cu. yds. furnishing selected material;
- (18) 70,150 cu. yd. mi. haul sel. material and sel. borrow sub-base stabilizer;
- (19) 15.9 mi. preparing subgrade and finishing shoulders;
- (20) 438,500 gals. road oil—furnishing, hauling and spreading;
- (21) 182,500 sq. yds. preparing surface, mixing, spreading and finishing of oil-treated surface;
- (22) 400 cu. yds. stock piles of oil-treated material;

SCHEDULE 2—Construction of the Desilt Wash Road; approximate length, 2.6 miles.

- (1) 34,500 cu. yds. rock excavation;
- (2) 20,000 cu. yds. rock excavation;
- (3) 15,000 sta. yds. excavation overhaul;
- (4) 600 cu. yds. structure excavation;
- (5) 35 cu. yds. concrete;
- (6) 1000 lbs. reinf. steel, furnish and place;
- (7) 150 lin. ft. furnish and place 24-in. dia. corru. pipe culvert;
- (8) 175 lin. ft. furnish and place 30-in. dia. corru. pipe culvert;
- (9) 340 lin. ft. furnish and place 36-in. dia. corru. pipe culvert;
- (10) 60 lin. ft. furnish and place 42-in. dia. corru. pipe culvert;

- (11) Item 11 does not apply to Schedule 2.
- (12) 200 cu. yds. dry rubble retaining wall;
- (13) 150 cu. yds. dumped riprap;
- (14) 23 M. gals. water embankments;
- (15) 155 M. gals. watering subgrade;
- (16) 800 cu. yds. furnishing select borrow sub-base stabilizer;
- (17) 4400 cu. yds. furn. sel. material;
- (18) 6000 cu. yd. miles haul selected material and sel. borrow sub-base stabilizer;
- (19) Item 19 does not apply to Schedule 2.
- (20) 74,060 gals. road oil, furnish, haul and spread;
- (21) 30,278 sq. yds. preparing surface, mix, spread and finish of oil-treated surface;
- (22) 250 cu. yds. stock piles of oil-treated material.

SCHEDULE 3—Construction of the Gene Draw Road; approximate length 1.8 miles.

- (1) 5000 cu. yds. earth excavation;
- (2) 110,000 cu. yds. rock excavation;
- (3) 150,000 sta. yds. excav. overhaul;
- (4) 1000 cu. yds. structure excav.;
- (5) 25 cu. yds. concrete;
- (6) 500 lbs. reinforcing steel, furnish and place;
- (7) 975 lin. ft. furnish and place 24-in. dia. corru. pipe culvert;
- (8) Item 8 does not apply to Schedule 3.
- (9) 80 lin. ft. furnish and place 36-in. dia. corru. pipe culvert;
- (10) Item 10 does not apply to Schedule 3.
- (11) 50 lin. ft. furnish and place 48-in. dia. corru. pipe culvert;
- (12) 200 cu. yds. dry rubble retaining wall;
- (13) Item 13 does not apply to Schedule 3.
- (14) Item 14 does not apply to Schedule 3.
- (15) 100 M. gals. water subgrade;
- (16) 4300 cu. yds. furnish select borrow sub-base stabilizer;
- (17) 3000 cu. yds. furnish sel. material
- (18) 6500 cu. yd. miles haul selected material and select borrow sub-base stabilizer;
- (19) Item 19 does not apply to Schedule 3.
- (20) 50,800 gals. road oil, furnish, haul and spread;
- (21) 22,100 sq. yds. preparing surface, mix, spread and finish of oil-treated surface;
- (22) 150 cu. yds. stock piles of oil-treated material.

	(1)	(2)	(3)	Total
(A) C. W. Wood, Stockton.....	\$52,317.50	\$33,529.23	\$103,489.50	\$189,836.23
(B) A. Teichert & Son, Sacto.....	57,132.50	34,952.52	103,383.60	195,468.62
(C) Weymouth Crowell L. A.....	53,523.00	38,229.52	110,121.90	201,874.42
(D) Western Motor Transfer.....	65,663.50	44,553.60	94,882.60	205,099.70
(E) T. L. Parker, L. A.....	67,787.80	41,520.64	104,683.20	213,971.64
(F) Morrison-Knudsen, L. A.....	64,703.00	41,462.90	111,242.50	217,511.40
(G) J. E. Haddock, Pasadena.....	58,002.50	40,248.52	119,471.75	217,722.77
(H) Griffith Co., L. A.....	97,808.00	61,193.10	126,571.00	285,572.10

SCHEDULE NO. 1

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
(1)	\$.20	\$.20	\$.18	\$.40	\$.21	\$.32	\$.20	\$.53
(2)-(14)								
(15)	2.00	2.50	1.15	2.75	2.84	2.00	2.20	1.50
(16) .....	.20	.30	.18	.40	.21	.25	.30	.40
(17) .....	.50	.55	.46	.52	.47	.65	.50	.80
(18) .....	.10	.10	.07	.09	.12	.12	.10	.12
(19)	100.00	250.00	160.00	365.00	142.00	400.00	200.00	1600.00
(20) .....	.05	.05	.055	.062	.074	.05	.051	.07
(21) .....	.035	.035	.042	.043	.048	.042	.04	.05
(22)	1.00	1.00	1.50	2.00	1.06	1.20	1.20	1.00

SCHEDULE NO. 2

(1)20	.20	.22	.30	.21	.30	.20	.60
(2)50	.63	.59	.67	.78	.80	.94	.75
(3)01	.01	.04	.02	.007	.01	.01	.02

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ENGINEERING NEWS

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- (2) 12,000 cu. yds. tunnel excav.;
 - (3) 5,750 cu. yds. backfill;
 - (4) 8,325 cu. yds. conc. in structures;
 - (5) 630 cu. yds. conc. in canal lining;
 - (6) 3,180 cu. yds. conc. in tunnel lining;
 - (7) 700 sq. yds. dry dock paving;
 - (8) placing 1,297,000 lbs. reinf. bars;
 - (9) installing 41,500 lbs. gates, gate holsts and operating mechanisms.
- No charge for specifications and plans to prospective bona fide bidders; to others, \$2, not returnable. Further information available at above office.

SACRAMENTO.—Following permits issued to appropriate water issued by the Department of Public Works, Division of Water Resources, during the month of September, 1933.

4176, application 7538 (Butte County) issued to M. B. Turner, Elmer Johns, W. A. Dresser and Edith Bell Turner, Oroville, Cal., September 6, 1933, for 3 cubic feet per second from Browns Ravine for mining purposes. Estimated cost \$150.

4177, application 7624 (Sacramento County), issued to R. H. Schwab, Sacramento, Cal., September 11, 1933, for 3 cubic feet per second from American River for mining purposes. Estimated cost \$300.

4178, application 7622 (Sacramento County), issued to Ruby H. Meyer, 2618 L St., Sacramento, Cal., September 11, 1933, for 0.375 cubic feet per second from American River for irrigation and domestic purposes on 30 acres. Estimated cost \$6000.

4179, application 7530 (Trinity County), issued to W. P. Anderson and R. L. Chase, Cincinnati, Ohio, September 13, 1933, for 1.5 cubic feet per second from North Fork Trinity River for power purposes. Estimated cost \$40,000.

4180, application 7531 (Trinity County), issued to W. P. Anderson and R. L. Chase, Cincinnati, Ohio, September 30, 1933, for 15.0 cubic feet per second from North Fork Trinity River, North Fork Gulch, Baxter Gulch, Rapid Gulch, Thurston Gulch and Brown Gulch for mining purposes. Estimated cost \$40,000.

4181, application 7599 (Los Angeles County), issued to Seaboard National Bank of Los Angeles, Los Angeles, Cal., September 13, 1933, for 2.0 cubic feet per second from north and east canyon of Fitzgerald Ranch for irrigation and domestic purposes.

4182, application 7569 (Riverside County), issued to Joseph Simonich, Fort McArthur, Cal., September 14, 1933, for 0.01 cubic foot per second from an unnamed creek for irrigation and domestic purposes. Estimated cost \$300.

4183, application 7451 (Siskiyou County), issued to H. W. A. Docker, Forks of Salmon, September 15, 1933, for 6.00 cubic feet per second from Salmon River for power purposes. Estimated cost \$300.

4184, application 7302 (Nevada County), issued to Wm. H. Taylor, San Francisco, Cal., September 15, 1933, for 50.00 cubic feet per second from north fork of Poorman Creek for mining purposes. Estimated cost \$20,000.

4185, application 7406 (Siskiyou County), issued to M. H. Bush, Somes Bar, Cal., September 15, 1933, for 3.00 cubic feet per second from Tom Payne Creek for mining and domestic purposes. Estimated cost \$2500.

4186, application 7573 (Siskiyou County), issued to A. H. Barnum, Hamburg, Cal., September 21, 1933, for 4000 gallons per day from an unnamed spring for domestic purposes. Estimated cost \$150.

4187, application 7636 (Placer County), issued to Rudolph Mayo Nixon,

SAN BERNARDINO—(Continued from page 26)

(4)	1.00	.80	2.40	1.00	1.06	1.00	1.50	1.25
(5)	2.00	20.00	30.00	35.00	28.40	20.00	15.00	30.00
(6)	.07	.07	.12	.10	.08	.06	.07	.10
(7)	3.00	2.60	3.00	2.70	3.30	2.70	2.55	4.00
(8)	3.50	3.50	4.00	3.24	4.12	3.30	3.20	4.00
(9)	5.00	5.50	6.25	5.07	6.38	5.20	5.00	7.00
(10)	7.00	7.50	9.00	7.50	8.88	7.30	7.00	10.00
(11)	.....	.....	.....	.....	.....	.....	.....	.....
(12)	3.00	3.50	6.00	5.00	8.50	3.00	3.00	7.00
(13)	2.00	1.00	3.00	2.00	3.55	1.60	1.50	2.60
(14)	3.00	2.50	1.00	5.00	3.12	2.50	2.20	2.50
(15)	3.00	2.50	1.00	3.00	3.12	2.00	2.20	2.50
(16)	.30	.35	.30	.40	.21	.25	.30	.50
(17)	.60	.60	.60	.60	.47	.65	.50	2.00
(18)	.10	.15	.12	.11	.12	.12	.10	.12
(19)	.....	.....	.....	.....	.....	.....	.....	.....
(20)	.05	.052	.064	.065	.074	.05	.055	.07
(21)	.035	.05	.042	.05	.048	.05	.01	.05
(22)	1.00	1.00	1.50	2.00	1.06	1.20	1.20	1.00

SCHEDULE NO. 3

(1)	.20	.22	.40	.39	.21	.25	.20	.45
(2)	.80	.78	.80	.67	.78	.85	.94	.90
(3)	.01	.01	.022	.02	.007	.01	.01	.02
(4)	1.00	.80	2.40	1.50	1.42	1.50	1.75	1.25
(5)	20.00	25.00	30.00	35.00	28.40	20.00	15.00	30.00
(6)	.07	.08	.12	.10	.08	.06	.07	.10
(7)	3.00	2.60	3.00	2.70	3.30	2.70	2.55	4.00
(8)	.....	.....	.....	.....	.....	.....	.....	.....
(9)	5.00	5.50	6.00	5.07	6.38	5.20	5.00	6.00
(10)	.....	.....	.....	.....	.....	.....	.....	.....
(11)	8.00	9.00	10.00	9.55	10.28	8.50	8.15	10.00
(12)	2.00	3.50	6.00	5.00	8.50	3.00	3.00	7.00
(13)	.....	.....	.....	.....	.....	.....	.....	.....
(14)	.....	.....	.....	.....	.....	.....	.....	.....
(15)	3.00	4.00	1.25	3.50	3.12	2.50	2.20	2.50
(16)	.20	.35	.30	.40	.21	.25	.30	.50
(17)	.60	.70	.60	.60	.47	.70	.50	2.00
(18)	.10	.15	.125	.11	.12	.14	.10	.12
(19)	.....	.....	.....	.....	.....	.....	.....	.....
(20)	.055	.052	.064	.065	.074	.06	.055	.07
(21)	.035	.07	.042	.05	.061	.06	.04	.05
(22)	1.00	1.50	2.00	2.00	1.06	1.20	1.20	1.00

COCONINO COUNTY — GRADING — GOVT.

COCONINO COUNTY, Ariz.—Had-dock & Lindberg, 357 N. Chester Ave., Pasadena, Cal., at \$42,447.50 submitted low bid to U. S. Bureau of Public Roads, 802 Title & Trust Bldg., Phoenix, Ariz., for grading 2.947 miles Section H of Route 7, Oak Creek National Forest Highway, Coconino National Forest, Arizona.

Complete bids follow:

(A) Hoddock & Lindberg, Pasadena, Cal., \$42,447.50.

(B) Skousen Bros., Albuquerque, N. M., \$49,930.76.

(C) H. J. Hagen, Globe, Ariz., \$50,682.00.

(D) All Arizona Engineering & Construction Co., Clifton, \$52,506.80.

(E) Hodgman & MacVicar, Flagstaff, \$65,031.20.

(F) Engineer's estimate, \$42,341.10.

- (1) 28,600 cu. yds. unclass. excav.;
- (2) 350 cu. yds. do for struc.;
- (3) 7600 cu. yds. do for borrow;

- (4) 24,000 sta. yds. overhaul;
- (5) 2.976-mi. finish earth grade road;
- (6) lump sum provide and maintain water plant or plants;
- (7) 724 lf. gals. watering;
- (8) 162 cu. yds. Class A concrete;
- (9) 26 cu. yds. Class B concrete;
- (10) 60 cu. yds. Class D concrete;
- (11) 22,000 lbs. rein. steel;
- (12) 586 lin. ft. 24-in. C.M.P. in place;
- (13) 120 lin. t. 30-in. do;
- (14) 3670 lin. ft. wood guard rail;
- (15) 3700 cu. yds. mi. borrow haul;
- (16) 84 lin. ft. remove, clean and stockpile C.M.P.;
- (17) 40 lin. ft. remove, clean, relay C.M.P.;
- (18) 5300 lin. ft. type I protec. ditch;
- (19) 5800 lin. ft. remove and reset fence;
- (20) 450 lin. ft. fence in place;
- (21) lump sum remove and reconstruct cattle guard;
- (22) 28 each R/W monuments.

	(A)	(B)	(C)	(D)	(E)	(F)
(1)	.....\$ .60	.....\$ .98	.....\$ .85	.....\$ 1.00	.....\$ 1.25	.....\$ .67
(2)	.....2.00	.....1.25	.....2.00	.....1.50	.....1.25	.....2.00
(3)	......45	......35	......40	......40	......50	......45
(4)	......04	......04	......04	......05	......08	......03
(5)	.....500.00	.....10.00	.....500.00	.....150.00	.....200.00	.....300.00
(6)	.....750.00	.....100.00	.....500.00	.....250.00	.....500.00	.....500.00
(7)	......50	.....1.00	.....3.00	.....1.25	.....3.00	.....3.70
(8)	.....30.00	.....27.00	.....30.00	.....25.00	.....28.00	.....24.00
(9)	.....29.00	.....30.00	.....30.00	.....24.00	.....30.00	.....23.00
(10)	.....40.00	.....33.00	.....35.00	.....36.00	.....35.00	.....26.00
(11)	......07	......06	......07	......07	......065	......05
(12)	.....3.00	.....3.50	.....3.00	.....2.90	.....3.25	.....2.25
(13)	.....3.75	.....4.50	.....4.00	.....3.50	.....4.50	.....3.00
(14)	.....1.00	......75	.....1.00	.....1.50	.....1.25	.....1.00
(15)	......12	......40	......25	......15	......50	......15
(16)	.....1.00	.....2.00	......80	.....1.00	.....1.50	.....1.00
(17)	.....2.00	.....2.00	.....1.00	.....1.50	.....2.50	.....1.00
(18)	......10	......10	......10	......06	......25	......10
(19)	......10	......07	......10	......05	......06	......06
(20)152010101512
(21)250.00300.0050.0050.0050.0050.00
(22)5.005.004.005.004.004.00

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ENGINEERING NEWS

(Continued from Page 27)

Loomis, Cal., September 21, 1933, for 1.00 cubic foot per second and 25.00 acre feet per annum storage from Miners Ravine for irrigation and domestic purposes. Estimated cost \$500.

4188, application 7487 (San Bernardino County), issued to Allen Foster Davis, Redlands, Cal., September 22, 1933, for 0.025 cubic foot per second from an unnamed spring for irrigation and domestic purposes. Estimated cost \$200.

4139, application 7586 (Eldorado County), issued to A. S. Loomer, Sacramento, Cal., September 26, 1933, for 5.0 acre feet for storage from Long Canyon for domestic and recreational purposes.

4190, application 7474 (San Joaquin County), issued to C. B. Orvis and Wm. S. Orvis, Stockton, Cal., September 26, 1933, for 6.0 cubic feet per second from Upland Canal for irrigation purposes. Estimated cost \$5500.

4191, application 7456 (Sutter County), issued to William A. Glenn, Pleasant Grove, Cal., September 26, 1933, for 3.00 cubic feet per second and 5 acre feet per annum to storage from Auburn Ravine for irrigation and domestic purposes on 170 acres. Estimated cost \$500.

4192, application 7457 (Placer County), issued to Dr. J. L. Hardin, Sacramento, Cal., September 26, 1933, for 3.0 cubic feet per second and 9 acre feet to storage from Auburn Ravine for irrigation and domestic purposes on 305 acres. Estimated cost \$500.

4193, application 7583 (Placer County), issued to Annie G. Hardin, Sacramento, Cal., September 26, 1933, 3.0 cubic feet per second and 3.0 acre feet per annum to storage from Auburn Ravine for irrigation and domestic purposes on 100 acres. Estimated cost \$500.

4194, application 7592 (Placer County), issued to J. T. Glenn & Sons, Pleasant Grove, September 26, 1933, 3.0 cubic feet per second from Auburn Ravine for domestic and irrigation purposes on 185 acres. Estimated cost \$250.

4195, application 7585 (Sierra County), issued to J. H. Haines, Camptonville, Cal., September 26, 1933, 3.0 cubic feet per second from Humburg Creek for mining purposes. Estimated cost \$250

CORONADO, Cal.—B. G. Carroll, 4396 Maryland Ave., San Diego, at \$43,314 submitted low bid to the Constructing Quartermaster, Rockwell Field, Coronado, for constructing roads and walks at Rockwell Field, involving:

- (1) 4269 26-ft. concrete road 6-in. thick with curb;
- (2) 1170 ft. 20-in. concrete road, 6-in. thick, with curb;
- (3) 2862 ft. 14-ft. concrete road, 6-in. thick with curb;
- (4) 40,000 sq. ft. sidewalk.

The engineer recommended that the contract be awarded to the low bidder.

The other bids were:
Griffith Co. \$46,200
Weymouth Crowell Co. 49,180

HUMBOLDT COUNTY, Calif.—Mercer-Fraser Co., Eureka, at \$1.30 per cubic yard submitted low bid to the County Board of Supervisors for furnishing gravel for the Samoa-Rolph road. Other bids were:

- (A) Mercer-Fraser, Eureka.....\$1.30
- (B) H. C. Anderson, Alton..... 1.49
- (C) Smith Bros., Eureka..... 1.57
- (D) W. S. Selvage, Eureka..... 1.59
- (E) J. C. Kjer, Arcata..... 1.85

LANDER COUNTY, NEV.—SURFACING—STATE

LANDER CO., Nev.—Wheelwright Const. Co., Ogden, Utah, at \$89,886.67 (as previously reported) was awarded contract by Nevada State Highway Commission, Carson City, to surface with crushed gravel or stone 14.73 mi. of highway in Lander County, bet. 12 and 27 miles east of Austin. Project No. NRH 93C. Complete bids follow:

- (A) Wheelwright Const. Co., Ogden, \$89,886.67.
- (B) N. M. Ball, Berkeley, Cal., \$93,711.28.
- (C) Geo. French, Jr., Stockton, Cal., \$96,088.47.
- (D) Utah Const. Co., Ogden, \$100,836.17.
- (E) Dodge Const. Co., Inc., Fallon, Nev., \$112,899.
- (F) Jack Casson, Oakland, Cal., \$113,757.
- (G) Isbell Const. Co., Carson City, Nev., \$119,899.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
(1)	\$.49	\$.50	\$.45	\$.50	\$.65	\$.60	\$.60	\$.95	\$.45
(2)	.03	.02	.03	.03	.03	.05	.05	.03	.03
(3)	.30	.50	.60	.60	.50	.50	.50	.70	.40
(4)	1.50	1.00	1.00	.90	1.00	2.00	1.50	2.50	1.00
(5)	300.00	100.00	100.00	60.00	100.00	100.00	100.00	150.00	100.00
(6)	.60	.65	.80	.80	.85	.80	1.00	.90	.80
(7)	28.00	30.00	20.00	32.00	30.00	40.00	35.00	40.00	30.00
(8)	25.00	30.00	30.00	28.00	30.00	30.00	35.00	40.00	30.00
(9)	.06	.07	.07	.065	.06	.10	.07	.08	.07
(10)	2.00	1.90	1.50	1.80	2.25	2.00	2.00	2.00	1.50
(11)	2.50	2.10	1.75	2.30	2.50	2.50	2.25	2.50	1.75
(12)	3.40	3.00	3.00	3.10	3.00	3.00	2.75	3.00	2.50
(13)	4.00	3.60	3.50	4.00	3.50	4.00	3.50	4.00	3.50
(14)	4.00	20.00	7.00	7.00	5.00	5.00	15.00	15.00	5.00
(15)	1.00	.75	.50	1.00	.50	1.00	1.00	.50	.50
(16)	.50	.75	.50	.60	.50	1.00	1.50	.75	.75
(17)	6.00	10.00	7.00	14.00	5.00	5.00	10.00	6.00	7.50
(18)	2.00	3.00	3.00	3.00	3.00	4.00	4.00	4.00	3.00
(19)	100.00	150.00	100.00	100.00	100.00	300.00	150.00	150.00	100.00

(H) Union Paving Co., San Francisco, \$145,812.

(I) Engineer's estimate, \$93,188.

The quantities are as follows:

- (1) 73,600 cu. yds. rdwy. excav.;
- (2) 28,849 sta. yds. overhaul;
- (3) 13,000 cu. yds. sel. borrow;
- (4) 1,450 cu. yds. struc. excav.;
- (5) 14.73 miles subgrade;
- (6) 46,500 cu. yds. crushed gravel or stone surf.;
- (7) 139 cu. yds. Class A concrete;
- (8) 41 cu. yds. Class B concrete;
- (9) 18,300 lbs. reinf. steel;
- (10) 798 lin. ft. 15-in. C.M.P.;
- (11) 648 lin. ft. 18-in. C.M.P.;
- (12) 608 lin. ft. 24-in. C.M.P.;
- (13) 48 lin. ft. 30-in. C.M.P.;
- (14) 51 remove culvert headwalls;
- (15) 480 lin. ft. do, pipe;
- (16) 208 lin. ft. relay culvert pipe;
- (17) 108 move pipe culvert headwalls;
- (18) 82 monuments;
- (19) 14.73 miles finish rdwy.

LANDER - EUREKA COS.—RECONSTRUCTION—STATE

LANDER & EUREKA COUNTIES.

NEV.—N. M. Ball, 1889 Yosemite Rd., Berkeley, was awarded contracts at \$91,317.90 by S. C. Durkee, the State Highway Engineer, Carson City, for reconstruction of a portion of the state highway system in Lander and Eureka counties, between 27 miles east of Austin and 14 miles west of Hay Ranch, Route 2, Sections F2 and A1, a length of approximately 18.72 miles. Complete bids follow:

- (A) N. M. Ball, Berkeley, \$91,317.90.
- (B) Dodge Const. Co., Inc., Fallon, Nev., \$93,753.35.
- (C) Geo. French, Jr., Stockton, Cal., \$96,762.55.
- (D) Heuser & Garnett, Glendale, Cal., \$99,993.55.
- (E) Utah Const. Co., Ogden, \$102,617.25.
- (F) Tedford Const. Co., Fallon, \$103,789.40.
- (G) Isbell Const. Co., Carson City, \$112,052.70.

(H) Engineer's estimate, \$101,852.05.

The quantities are as follows:

- (1) 45,700 cu. yds. rdwy. excav.;
- (2) 40,465 sta. yds. overhaul;
- (3) 35,654 cu. yds. sel. borrow;
- (4) 1,450 cu. yds. struc. excav.;
- (5) 18.72 miles subgrade;
- (6) 60,400 cu. yds. crushed gravel or stone surface;
- (7) 300 cu. yds. Class A concrete;
- (8) 42 cu. yds. Class B concrete;
- (9) 33,700 lbs. reinf. steel;
- (10) 150 lin. ft. 15-in. C.M.P.;
- (11) 544 lin. ft. 18-in. C.M.P.;
- (12) 344 lin. ft. 24-in. C.M.P.;
- (13) 86 lin. ft. 30-in. C.M.P.;
- (14) 72 lin. ft. 36-in. C.M.P.;
- (15) 68 lin. ft. 48-in. C.M.P.;
- (16) 26 remove culvert headwalls;
- (17) 52 lin. ft. do, pipe;
- (18) 26 lin. ft. relay culvert pipe;
- (19) 114 move pipe culvert headwalls;
- (20) 38 monuments;
- (21) 18.72 miles finish rdwy.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
(1)	\$.35	\$.30	\$.30	\$.30	\$.32	\$.35	\$.40	\$.35
(2)	.02	.03	.03	.05	.03	.04	.04	.03
(3)	.40	.35	.40	.45	.60	.40	.40	.40
(4)	1.00	1.00	1.00	1.00	.80	1.00	1.25	1.00
(5)	100.00	100.00	100.00	75.00	60.00	60.00	100.00	100.00
(6)	.60	.75	.75	.77	.70	.80	.85	.80
(7)	30.00	25.00	30.00	27.00	32.00	30.00	35.00	30.00
(8)	30.00	30.00	30.00	27.00	30.00	30.00	35.00	30.00
(9)	.07	.06	.07	.07	.065	.08	.07	.07
(10)	1.90	2.25	1.50	1.25	1.80	2.00	2.00	1.50
(11)	2.10	2.75	1.75	2.00	2.30	2.50	2.50	1.75
(12)	3.00	3.25	3.00	3.00	3.10	3.00	3.25	2.50
(13)	3.60	4.50	3.50	4.00	4.00	4.00	4.00	3.50
(14)	5.00	5.00	5.00	5.00	6.00	5.00	5.00	4.50
(15)	7.50	7.50	6.50	8.00	8.50	9.00	7.00	6.50
(16)	20.00	5.00	7.00	5.00	7.00	5.00	15.00	5.00
(17)	1.00	.50	.50	.25	1.00	1.00	1.00	.50
(18)	1.00	1.00	.50	.25	.60	1.00	1.50	.75
(19)	8.00	5.00	7.00	10.00	14.00	7.50	10.00	7.50
(20)	3.00	3.00	3.50	2.00	3.00	3.00	4.00	3.00
(21)	150.00	100.00	100.00	125.00	100.00	150.00	150.00	100.00

SAN BERNARDINO COUNTY — FUEL OIL TREAT — STATE

SAN BERNARDINO COUNTY, Cal.—Geo. Herz & Co., 311 Platt Bldg., San Bernardino, at \$23,951.50 submitted low bid to State Highway Commission, Sacramento, to treat with fuel oil approximately 25 ml. between a point about 5 miles north of Adelanto and a point near Kramer, involving:

- (1) 25 miles preparing roadbed;
- (2) 9450 bbls. heavy fuel oil;
- (3) 25 miles mixing and shaping oiled

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)
(1).....	\$ 75.00	\$100.00	\$140.00	\$150.00	\$110.00	\$145.00	\$100.00	\$ 50.00	\$100.00	\$ 48.00	\$130.00
(2).....	1.77	1.50	1.62	2.07	1.47	1.88	1.825	1.75	1.83	2.106	2.00
(3).....	214.00	300.00	325.00	165.00	460.00	280.00	360.00	450.00	370.00	360.00	400.00

material.
Complete bids follow:
(A) Geo. Herz & Co., San Bernardino, \$23,951.50.
(B) C. W. Wood, Stockton, \$24,175.
(C) Tiffany Constr. Co., San Jose, \$26,934.
(D) E. L. Yeager, San Bernardino, \$27,436.50.
(E) Oilfields Trucking Co., Bakersfield, \$28,141.50.
(F) Alex A. Chalmers and Max Win-

ters Jr., Los Angeles, \$28,391.
(G) Dimmitt & Taylor, Los Angeles, \$28,746.25.
(H) U. B. Lee, San Leandro, \$29,037.50.
(I) Match Bros. and Geo. Gardner & Son, Elsinore, \$29,043.50.
(J) P. J. Akmadzich, Los Angeles, \$30,101.70.
(K) Martin Bros. Trucking Co., Long Beach, \$32,150.
Unit bids follow:

SAN FRANCISCO—E. J. Treacy, Call Bldg., at \$3897.60 submitted low bid to S. J. Hester, Chief Deputy, Director, Dept. of Public Works, for repair and maintenance work, Joost Ave., Slide No. 1 from Acadia to Baden. Complete bids follow:
(A) E. J. Treacy, Call Bldg., \$3937.60.
(B) C. L. Harvey..... 4221.00
(C) O. Monson..... 4723.00
(D) J. S. Heilmann..... 4801.80

- Unit prices follow:
(1) 500 cu. yds. excav. to be hauled away;
(2) 200 cu. yds. clay fill;
(3) 4200 sq. yds. rolling and oiled surface;
(4) 8 hours furnish and operate 6 horse plow with operator;
(5) 16 hrs. furnish and operate 60 horse plow tractor with operator
(6) 600 lin. ft. 12" perf. metal pipe drains in trench not over 12 ft. deep;
(7) 100 lin. ft. 8-in. do;
(8) 9 wooden manholes with conc. inverts and remove plank covers
(9) 380 lin. ft. macadam gutter (4 ft. 12-in. thick) with oiled surf.;
(10) 2 wooden manhole covers with remov. plank section;
(11) Under lump sum price resetting redwood curb, reconstructing wood fence and 4 "No Dumping Signs;"
(12) 10 cu. yds. extra rock backfill;
(13) 100 cu. yds. rubbish excav.

Unit bids follow:

	(A)	(B)	(C)	(D)
(1).....	\$.35	.75	.62	.56
(2).....	.20	1.00	1.00	.36
(3).....	.06½	.18	.14	.16
(4).....	4.25	1.00	3.00	3.00
(5).....	8.25	7.50	11.00	12.00
(6).....	3.62	3.00	3.50	3.75
(7).....	3.06	2.80	3.40	3.00
(8).....	60.00	40.00	50.00	70.00
(9).....	.12	.40	.60	.36
(10).....	10.00	20.00	6.00	15.00
(11).....	30.00	75.00	65.00	75.00
(12).....	3.00	3.00	3.00	3.00
(13).....	1.00	.25	2.00	1.10

OAKLAND, Cal.—Ransome Co., 1450 Harrison St., Oakland, awarded contract by Board of Port Commissioners, Grove St. Pier, Oakland, for asph. pavement on apron wharf of 329 ft. northern, extension to outer harbor terminal wharf, involving:

- (1) 110 tons binder coat;
- (2) 210 tons surface mix.

The bidders were:
(A) Ransome Co., Oakland.
(B) Heafey-Moore Co., 344 High St., Oakland.
(C) W. H. Larson, 2805 Parker St., Berkeley.

Unit bids follow:

	(A)	(B)	(C)
(1).....	\$4.80	\$5.25	\$5.25
(2).....	5.25	5.50	5.50

FORT SCOTT — UTILITIES EXTENSION — GOVT.

FORT WINFIELD SCOTT, Calif.—The items are:
Following bids received by Constructing Quartermaster, Fort Mason, for extending sewers, water mains, roads and walks, and electric light pole line for eleven double non-commissioned officers' quarters at Ft. Winfield Scott.

	(1)	(2)	(3)	(4)
(1) Scott Co., 243 Minna St., San Francisco	\$1200	\$1497	\$.....	\$.....
(2) Scott-Buttner Elec. Co., San Francisco	.....	.....	.....	947
(3) Lynn & Heffernan, 114 Ashton, Oakland	.....	.....	.....	799
(4) H. S. Tittle Co., 85 Columbia Sq., S. F.	.....	.....	.....	919
(5) Peter McHugh, Sr., 466 36th Ave., S. F.	1190	1256	2412	.....
(6) Fay Imp. Co., 758 Phelan Bldg., S. F.	1340	1300	790	.....
(7) P. L. Burr, 320 Market St., San Francisco	.....	.....	1536	.....
(8) F. W. Snook Co., 596 Clay St., S. F.	1175	1570	.....	.....
(9) H. C. Reid, 389 Clementina St., S. F.	.....	.....	.....	900
(10) Herman Lawson Co., 465 Tehama St., S. F.	1500	1730	.....	.....
(11) Pacific States Const. Co., San Francisco	1390	1705	3339	.....
(12) G. H. Armstrong, 1388 Van Ness, So., S. F.	.....	.....	.....	825
(13) Eureka Elec. Radio Co., San Francisco	.....	.....	.....	630
(14) G. M. Gest, 2423 Magnolia, Oakland	1825	1995	3075	730
(15) Lindgren & Swinerton, San Francisco	3389	.....	.....	.....
(16) E. J. Treacy, 309 Call Bldg., San Francisco	1428	1614	2727	.....
(17) Oakland Sewer Const. Co., Oakland	1388	1838	.....	.....
(18) Panacci Bros., 1520 Quesada Ave., S. F.	1500	.....	.....	.....
(19) Theo. Cohn, Russ Bldg., San Francisco	1900	.....	3060	.....
(20) Severin Elec. Co., 172 Clara St., S. F.	.....	.....	.....	841

Unit items follow:
(a) cu. yds. excav., unclass.;
(b) lin. ft. 6-in. vitrified sewer;
(c) each, brick manholes;
(d) each, 6x16x6-in. vitrified Y's;
(e) lin. ft. 6-in. cast iron water main;
(f) each, 6-in. gate valves, including valve boxes;
(g) each, 4-in. do;

(h) each, 1½-in. do;
(i) each, double nozzle fire hydrants (gate valve not included);
(j) lin. ft. 1½-in. gal. genuine wrought iron pipe;
(k) sq. ft. oil macadam pave. with sub-base;
(l) sq. ft. sidewalk.
Unit prices follow:

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)
(1).....	\$.75	\$.50	\$72.00	\$1.15	\$.84	\$28.00	\$19.50	\$7.00	\$53.00	\$.53	\$.....	\$.....
(2).....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
(3).....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
(4).....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
(5).....	.45	.55	65.00	2.00	.95	35.00	25.00	6.00	65.00	.41	.10	.125
(6).....	.50	.75	70.00	1.00	1.25	17.00	13.00	9.00	55.00	.17	.14	.14
(7).....	.60	.....	.....	.....	.85	28.00	17.00	5.00	60.00	.45	.....	.....
(8).....	1.25	.45	75.00	1.00	1.25	30.00	20.00	5.00	65.00	.50	.....	.....
(9).....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
(10).....	1.00	.83	65.00	1.50	.70	29.00	22.00	5.00	65.00	.45	.....	.....
(11).....	.27½	.70	65.00	1.00	1.40	25.00	16.00	5.75	64.00	.45	.17	.14
(12).....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
(13).....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
(14).....	.40	.70	88.00	1.50	1.00	29.00	24.00	11.00	65.00	.47	.10	.13
(15).....	2.00	.10	145.00	2.00	.....	.....	.....	.....	.....	.....	.....	.....
(16).....	.40	.70	75.00	1.00	1.00	20.00	14.00	4.50	55.00	.29	.12	.12
(17).....	.30	.60	65.00	1.00	1.00	30.00	17.00	6.00	60.00	.60	.....	.....
(18).....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
(19).....	.40	1.00	70.00	1.00	.....	.....	.....	.....	.....	.....	.13	.12
(20).....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

MARIPOSA CO., Cal.—Granite Construction Co., Watsonville, at \$71,482.45 submitted low bid to the Bureau of Public Roads, 807 Sheldon Bldg., 461 Market St., San Francisco, for placing a crushed rock base course on Section A-1, Rt. 5, Wawona Road-Glacier Pt., Yosemite National Park, Mariposa Co. Complete bids follow:

Unit bids follow:

	(A)	(B)	(C)	(D)
(1).....	\$.50	.40	.75	.65
(2).....	450.00	400.00	300.00	500.00
(3).....	1.73	2.00	2.50	2.50
(4).....	2.03	2.24	2.75	2.00
(5).....	2.03	2.24	2.60	1.80

(D) Engineer's estimate, \$72,910.50.
Quantities follow:
(1) 5,000 cu. yds. unclass. excav.;
(2) 8.601 mi. fine grade and subgrade shoulders;
(3) 2200 M. gals. watering;
(4) 27,500 tons crush. rock base course
(5) 2700 tons suppl. crushed rock.
Unit bids follow:

FORT MASON—UTILITIES EXTENSION—GOVT.

FORT MASON, Cal.—Following bids received by Constructing Quartermaster, Fort Mason, for extension of sewers, water mains, roads and walks, and underground electric system at Fort Mason.

The items are:

(1) extending sewers;

- (2) extending water main;
- (3) extending front and service roads
- (4) extending underground electrical distribution system;
- (5) deduction from (3) if top soil is used from Presidio reservation;
- (6) deduction from (3) if all top soil and grass seeding are omitted;

(7) add or deduct if rock asph. surf. is used in place of asph. conc. (Item 3);

(8) deduct from (4) if conc. hand-holes are omitted and secondary distribution boxes are placed directly in the ground.

Lump sum bids follow:

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
(1) Scott Co., 243 Minna St., San Francisco	\$ 919	\$1597	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
(2) Scott-Buttner Elec. Co., 34 Harriett St., S. F.	.....	.....	.....	4455	.....	.....	.....	100.00
(3) Panacci Bros., 1520 Quesada Ave., San Francisco	1700	.....	.....	.....	.....	.....	.....	.....
(4) Oakland Sewer Const. Co., 9915 Walnut St., Oakland	1951	2288	.....	.....	.....	.....	.....	.....
(5) Lynn & Hefferman, 114 Ashton Avenue, Oakland	.....	.....	.....	4790	.....	.....	.....	218.00
(6) H. S. Tittle Co., 85 Columbia Square, San Francisco	.....	.....	.....	5010	.....	.....	.....	.....
(7) Lowrie Paving Co., 1540 16th St., San Francisco	1326	2196	15,978	3984	555	4476	.....	300.00
(8) Peter McHugh, 466 36th Avenue, San Francisco	1150	1766	11,915	.....	465	2600	.....	.....
(9) Theo. Cohn, Russ Bldg., San Francisco	1465	.....	13,384	.....	340	3671	.....	.....
(10) City Imp. Co., 2626 Harrison St., Oakland	.....	2367	.....	4399	.....	.....	.....	55.00
(11) H. Lawson Co., 465 Tehama St., San Francisco	1250	1950	.....	.....	.....	.....	.....	.....
(12) Pacific Irrig. & Engr. Co., 7 Front St., San Francisco	.....	2199	.....	.....	.....	.....	.....	.....
(13) Fay Imp. Co., 758 Phelan Bldg., San Francisco	1550	1700	13,562	.....	.....	3250	.....	.....
(14) H. C. Reid, 389 Clementina St., San Francisco	.....	.....	.....	4536	.....	.....	.....	.....
(15) P. L. Burr, 320 Market St., San Francisco	.....	1849	.....	.....	.....	.....	.....	.....
(16) G. H. Armstrong, 1388 Van Ness Ave. So., S. F.	.....	.....	.....	4424	.....	.....	.....	.....
(17) E. J. Treacy, 309 Call Bldg., San Francisco	1260	2100	12,835	.....	100	2100	.....	.....
(18) Pacific Pavements Co., 85 Barstow St., S. F.	.....	.....	13,521	.....	549	2000	.....	.....
(19) F. W. Snook Co., 596 Clay St., San Francisco	1263	1714	.....	.....	.....	.....	.....	.....
(20) Eaton & Smith, 715 Ocean Ave., San Francisco	.....	.....	15,700	.....	600	4360	1010add	.....
(21) Globe Elec. Works, 1899 Mission St., San Francisco	.....	.....	.....	4620	.....	.....	.....	.....
(22) Pacific States Const. Co., Call Bldg., San Francisco	1885	1975	12,882	.....	475	2850	515	.....
(23) Eureka Elec. Radio Co., 3469 Mission St., S. F.	.....	.....	.....	4090	.....	.....	.....	65.00
(24) Severin Elec. Co., 172 Clara St., San Francisco	.....	.....	.....	3944	.....	.....	.....	90.00

Unit items follow:

- (a) cu. yds. excav., unclass.;
- (b) lin. ft. 6-in. vit. sewer;
- (c) each brick manhole;
- (d) each concrete manhole;
- (e) each 6x6x6-in. vit. Y's;
- (f) lin. ft. 6-in. cast iron water main;
- (g) each 6-in. gate valve (inc. valve

- boxes);
- (h) each 1½-in. gate valve (do);
- (i) each 2-in. gate valve (do);
- (j) each double nozzle fire hydrant (gate valve not included);
- (k) lin. ft. 1½-in. gal. genuine wrt. iron pipe;
- (l) lin. ft. 2-in. do;

- (m) sq. ft. asph. conc. pave. with sub-base;
 - (n) sq. ft. natural rock asph. paving with sub-base;
 - (o) lin. ft. concrete curbing;
 - (p) sq. ft. plain sidewalk;
 - (q) lin. ft. redwood curbing;
 - (r) each street lighting standard.
- Unit prices follow:

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)
(1).....	\$.75	\$.50	\$ 72.00	\$80.00	\$1.15	\$.84	\$28.00	\$7.00	\$9.00	\$53.00	\$.53	\$.61	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
(2).....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	175.00
(3).....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
(4).....	.40	1.00	75.00	90.00	1.00	1.00	30.00	6.00	7.50	60.00	.60	.75	.....	.....	.....	.....	.....	.....
(5).....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	120.00
(6).....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
(7).....	.35	.50	125.00	.....	1.00	.90	36.00	7.00	8.70	60.00	.40	.52	.17	.17	.55	.13	.10	150.00
(8).....	.30	.73	65.00	100.00	2.00	.95	35.00	6.00	8.00	65.00	.41	.50	.13	.13	.55	.12	.12	.....
(9).....	.40	1.00	70.00	70.00	1.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
(10).....	1.00	.....	.....	.....	.....	1.00	30.00	10.00	15.00	60.00	.40	.55	.....	.....	.....	.....	.....	130.00
(11).....	1.00	.83	65.00	.....	1.50	.70	29.00	5.00	6.00	65.00	.45	.60	.....	.....	.....	.....	.....	.....
(12).....	.....	.....	.....	.....	.....	1.14	32.00	11.00	12.50	85.00	.63	.73	.....	.....	.....	.....	.....	.....
(13).....	.30	1.00	70.00	.....	.70	.90	18.00	4.00	6.00	59.00	.16	.38	.14	.....	.50	.12	.12	125.00
(14).....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
(15).....	.60	.....	.....	.....	.....	.85	28.00	5.00	12.00	60.00	.45	.65	.....	.....	.....	.....	.....	.....
(16).....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
(17).....	.30	.70	75.00	90.00	1.00	1.00	20.00	4.50	6.00	55.00	.29	.35	.12	.....	.50	.12	.10	.....
(18).....	.20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
(19).....	1.25	.45	75.00	125.00	1.00	1.25	30.00	5.00	7.50	65.00	.50	.65	.....	.....	.....	.....	.....	.....
(20).....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
(21).....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
(22).....	.26	1.30	70.00	.....	1.00	1.25	25.00	5.75	7.50	64.00	.45	.52	.13	.14	.50	.13	.14	.....
(23).....	.....	.....	.....	202.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	120.00
(24).....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	120.00

SAN FRANCISCO.—City Const. Co., San Francisco at \$2210.50 submitted low bid to W. H. Worden, Director, Department of Public Works, Room 251, City Hall, San Francisco, for construction of the Merced Manor storm water relief sewer adjacent to 26th Ave., and Eucalyptus Drive.

- Complete bids follow:
- (A) City Const. Co. \$2210.50
 - (B) Fay Improvement Co. \$2293.25
 - (C) C. L. Harney \$2908.50
 - (D) E. J. Treacy \$3002.00
 - (E) P. McLugh \$3088.00
 - (F) MacDonald & Kahn \$7272.50

Quantities and unit prices follow:

(1) 350 lin. ft. 36-in. CGMP 12-gauge, in place;					
(2) 1 reinf. conc. outlet;					
(3) 95 sq. ft. basalt block apron.					
(A) (B) (C) (D) (E) (F)					
1. \$ 5.65 \$ 6.10 \$ 7.75 \$ 8.13 \$ 8.00 \$ 6.85					
2. 100.00 125.00 120.00 128.00 250.00 125.00					
3. 1.40 .35 .80 .30 .40 50.00					

VENTURA COUNTY — WIDEN PAVEMENT — STATE

VENTURA COUNTY, Cal.—Kovacevich & Price, Inc., 5400 Imperial Highway, South Gate, at \$30,454.50 submitted low bid to State Highway Commission, Sacramento, to widen pavement with Portland cement concrete about 1.6 miles between the west city limits of Ventura and Sanjon road, involving:

- (1) 2550 cu. yds. rdwy. excav. without classification;
- (2) 130,000 station yards haul;
- (3) 20,100 sq. yds. subgrade for pave.;

(4) 3575 cu. yds. Class A Portland cement concrete pavement;

(5) 21,500 lbs. bar reinf. steel pave.

- Complete bids follow:
- (A) Kovacevich & Price, South Gate \$30,454.50
 - (B) Griffith Co., L. A. 32,121.25
 - (C) United Concrete pipe Corp., Los Angeles 33,895.00
 - (D) P. J. Akmadzich, L. A. 35,177.75
 - (E) Weymouth-Crowell, L. A. 36,289.50
 - (F) Gibbons & Reed, Burbank 36,886.50
 - (G) T. C. Rogers, L. A. 37,127.50
 - (H) M. J. Bevanda, Stockton 40,110.00

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
(1).....	\$.30	\$.51	\$.50	\$.54	\$.43	\$.35	\$.50	\$1.00
(2).....	.004	.005	.005	.006	.0036	.01	.01	.01
(3).....	.12	.09	.10	.12	.10	.09	.20	.10
(4).....	7.10	7.49	8.00	8.05	8.70	8.80	8.10	9.00
(5).....	.05	.05	.04	.06	.005	.05	.05	.05

KERN COUNTY — OVERHEAD CROSSING — STATE

<p>KERN COUNTY, Cal.—Oscar Oberg, 150 N Vista St., Los Angeles, at \$55,286.58 submitted low bid to the State Highway Commission, Sacramento, to construct overhead crossing over the tracks of the Southern Pacific Company, about five miles north of Bakersfield at Oil Junction, consisting of six 61-ft. and two 25-ft. steel girder spans, involving:</p> <p>(1) 1125 cu. yds. struc. excav.; (2) 1895 cu. yds. Class A Port. cem.</p>	<p>concrete; (3) 237,000 lbs. bar reinf. steel; (4) 323,000 lbs. struc. steel; (5) 9042 lbs. cast bearings; (6) 1 lot misc. items of work.</p> <p>Total bids were:</p> <p>(A) Oscar Oberg, Los Angeles, \$55,286.58. (B) Stroud Bros. & Seabrook, Bakersfield, \$55,997.37. (C) M. B. McGowan, San Francisco, \$56,287.00.</p>	<p>(D) Carl N. Swenson Co., San Jose, \$56,495.04. (E) Eodenhamer Const. Co., Oakland, \$56,836.29. (F) Weymouth-Crowell Co., Los Angeles, \$58,296.54. (G) Nevis & Harp, Santa Clara, \$58,334.62. (H) Sharp & Fellows, Los Angeles, \$58,617.30. (I) Byerts and Dunn, Los Angeles, \$59,108.29.</p>
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	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)
(1).....	\$ 1.25	\$.90	\$ 1.00	\$ 2.00	\$ 1.25	\$.70	\$ 1.00	\$.60	\$ 1.00	\$.60	\$ 1.00	\$ 1.60	\$ 2.25	\$ 1.40	\$ 1.40
(2).....	13.70	13.55	15.50	14.00	14.00	14.00	15.50	15.00	13.75	16.80	15.75	17.00	18.00	17.35	18.40
(3).....	.639	.045	.04	.04	.045	.04	.04	.045	.04	.039	.045	.04	.041	.0445	.05
(4).....	.052	.051	.045	.05	.05	.058	.05	.052	.055	.052	.055	.05	.052	.055	.049
(5).....	.115	.11	.10	.12	.12	.12	.11	.12	.12	.125	.14	.13	.12	.145	.14
(6).....	840.00	1175.00	870.30	10,000.00	1000.00	1680.00	1225.00	700.00	3597.00	1250.00	1560.00	2000.00	1850.00	\$25.00	4100.00

CONTRA COSTA COUNTY — PAVING — STATE

CONTRA COSTA COUNTY, Cal.—Peninsula Paving Co., 715 Standard Oil Bldg., San Francisco, at \$37,923.50 submitted low bid to State Highway Commission, Sacramento, to pave with asphalt concrete 1.4 mi. in Contra Costa County, between San Pablo and Pinole, involving:

(1) 120 cu. yds. struc. excav.;
(2) 70 cu. yds. Portland cem. conc. to be removed from existing pavement;
(3) 1800 tons crusher run base;
(4) 5000 sq. yds. asphaltic paint binder;
(5) 9300 tons asphalt concrete;
(6) 150 bbls. light fuel oil;
(7) 120 tons screenings;
(8) 160 lin. ft. 8-in. C.M.P.;
(9) 132 lin. ft. 15-in. C.M.P.;
(10) 11 each spillway assemblies complete in place;

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
(1).....	\$ 1.50	\$.75	\$.60	\$.80	\$ 1.00	\$ 1.00	\$.70	\$ 1.00
(2).....	3.00	2.50	2.50	1.50	5.00	3.00	2.00	1.25
(3).....	1.75	1.75	1.45	1.60	1.85	1.70	1.94	1.90
(4).....	.03	.015	.02	.02	.03	.02	.03	.03
(5).....	3.00	3.34	3.66	3.65	3.71	4.30	4.175	4.30
(6).....	2.25	2.00	1.50	2.00	2.50	1.50	2.00	2.00
(7).....	2.25	2.00	2.00	2.50	2.50	2.30	2.28	2.20
(8).....	1.25	1.00	1.50	1.00	1.00	1.00	1.00	.98
(9).....	1.75	2.00	2.00	2.00	1.50	1.50	1.28	1.37
(10).....	15.00	12.00	10.00	20.00	12.50	12.00	12.65	15.00
(11).....	.90	.75	.75	.95	1.00	.75	.91	1.00
(12).....	15.00	5.00	5.00	10.00	10.00	8.00	10.00	6.50

VENTURA COUNTY — BRIDGE — STATE

VENTURA COUNTY, Cal.—Associated Constructors, Inc., 1226 S. La Brea Ave., Los Angeles, at \$26,851 submitted low bid to State Highway Commission, Sacramento, to construct bridge in Ventura county across Calleguas Creek, about eight miles south of Oxnard, consisting of eight 30-foot reinforced concrete girder spans on reinforced concrete pile bents, involving:

(1) 130 cu. yds. structure excav.;
(2) 2500 cu. yds. roadway excav.;
(3) 230 tons crushed gravel or stone surfacing detour;
(4) 65 barrels heavy fuel oil detour;
(5) 235 tons asphalt concrete pave.;
(6) 1 only timber detour bridge;

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)
(1).....	\$.75	\$ 1.50	\$ 1.00	\$ 1.50	\$ 3.00	\$.66	\$ 1.77	\$ 2.20	\$ 1.70	\$ 1.50	\$ 2.00
(2).....	.30	1.01	.30	.70	.70	.39	1.04	.39	.80	1.00	.50
(3).....	3.60	4.00	2.60	4.00	3.50	3.65	4.95	3.50	3.00	3.25	2.50
(4).....	2.50	2.00	3.50	2.50	2.50	2.25	3.77	1.70	5.00	2.00	2.00
(5).....	4.00	6.00	3.50	5.50	6.00	6.75	5.77	4.40	9.00	5.50	7.00
(6).....	2500.00	4000.00	3600.00	3700.00	4000.00	3648.15	3300.00	5000.00	4750.00	4000.00	3500.00
(7).....	1300.00	3835.00	1200.00	1400.00	1500.00	1865.00	3058.00	3300.00	1300.00	4000.00	3000.00
(8).....	250.00	100.00	500.00	70.00	150.00	100.00	127.00	120.00	60.00	100.00	200.00
(9).....	1.77	1.30	1.75	2.00	1.75	1.53	1.70	2.00	1.50	2.00	1.50
(10).....	35.00	50.00	70.00	47.00	20.00	47.00	35.00	60.00	84.00	50.00	62.00
(11).....	13.00	14.00	17.00	18.00	18.50	20.00	19.50	16.00	16.50	23.00	23.00
(12).....	35.00	40.00	50.00	60.00	70.00	56.70	60.00	60.00	45.00	60.00	50.00
(13).....	.04	.045	.0371	.045	.05	.045	.0375	.043	.039	.048	.043
(14).....	.13	.10	.12	.15	.10	.15	.11	.12	.13	.15	.15
(15).....	720.00	500.00	2169.00	500.00	1000.00	900.00	805.00	530.00	200.00	420.00	1000.00

Unit prices follow:

(7) 1 only existing bridge to be removed and disposed of;
(8) 1 lot existing reinforced concrete pavement to be removed and disposed of;
(9) 2340 lin. ft. furnishing reinforced concrete piles including test piles;
(10) 63 acre driving reinforced concrete pile piles including test piles;
(11) 530 cu. yds. class A Portland cement concrete structure;
(12) 16 cu. yds. class A Portland cement concrete railing;
(13) 105,000 lbs. bar reinforcing steel;
(14) 3640 lbs. cast steel;
(15) 1 lot miscellaneous items of work.

Complete bids follow:
(A) Associated Constructors, Inc., Los Angeles, \$26,851.
(B) Byerts & Dunn, Los Angeles, \$33,541.
(C) Neves & Harp, Santa Clara, \$33,908.30.
(D) Dimmitt & Taylor, Los Angeles, \$34,303.50.
(E) United Concrete Pipe Corp., Los Angeles, \$34,901.50.
(F) C. Bongiovanni Constr. Co., Hollywood, \$35,223.05.
(G) Clinton Constr. Co., Los Angeles, \$35,237.70.
(H) Oscar Oberg, Los Angeles, \$36,477.30.
(I) M. B. McGowan, San Francisco, \$37,149.
(J) R. R. Bishop, Long Beach, \$37,400.
(K) Sharp & Fellows Co., Los Angeles, \$37,962.

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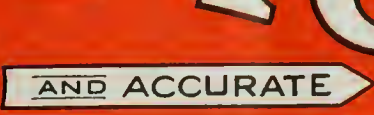
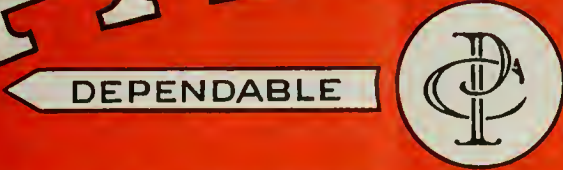
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September Payroll Gain 6.4 Per Cent

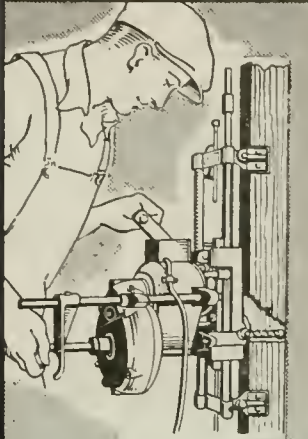
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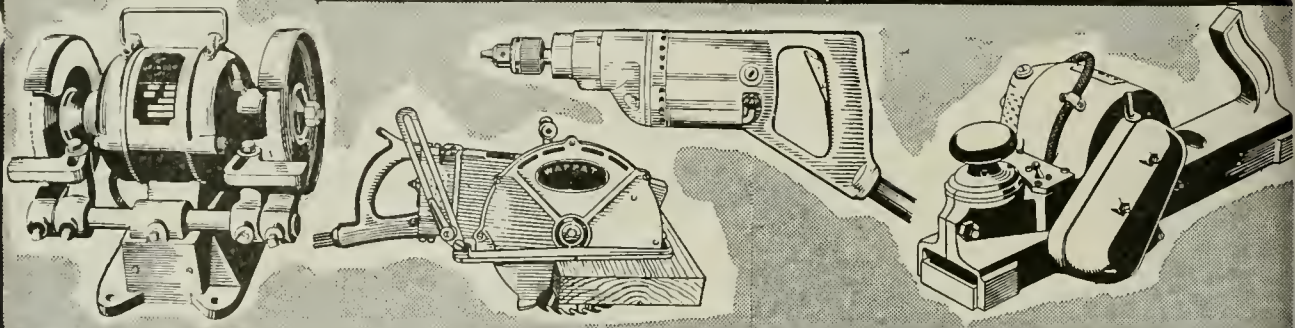
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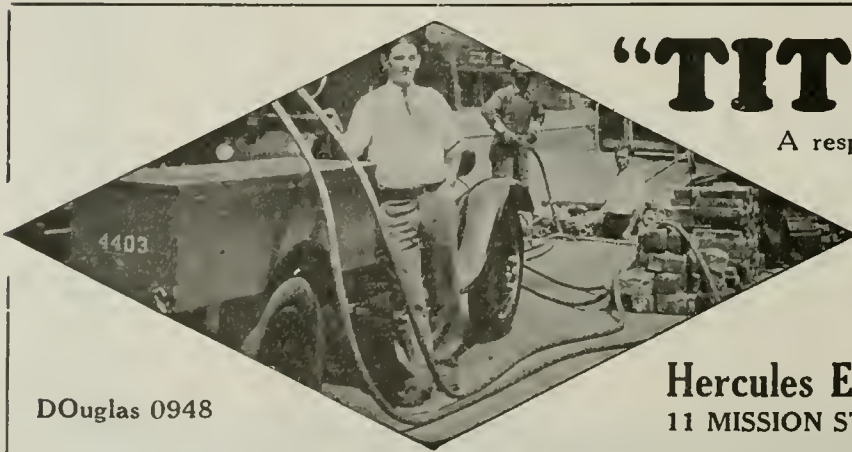
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Vol. XVI

SAN FRANCISCO, CALIF., OCTOBER 21, 1933

No. 40

STATE INCREASE IN INDUSTRY PAYROLLS 6.4%

Favorable Employment and Earnings Statistics Reported by Commission

Statewide employment in the construction industry was 6.4 percent greater in September this year than in September a year ago, according to reports from 160 identical firms compiled by the State Division of Labor Statistics.

The number of employees reported on payrolls in September was 6,811.

September employment, however showed a decrease of 4.5 percent in number of employes and 2.4 percent in total weekly payrolls compared with the preceding month. Average per capita weekly earnings were 2.2 percent higher in September than in August, but 12.1 percent less than in September last year.

Construction industry employment in various sections of the state compared as follows: Alameda-San Francisco, decrease 8.2 percent in September compared with September, 1932; Los Angeles increase 13.8 percent; remainder of state, increase 16 percent. Average increase 6.4 percent.

Comparing September with August employment: Alameda-San Francisco decreased 8.8 percent; Los Angeles decreased 10.4 percent; remainder of state increased 10 percent. Average decrease, 4.5 percent.

PLUMBING ORDINANCE FOR COUNTY PROPOSED

San Mateo county supervisors have given first reading to an ordinance regulating plumbers in the unincorporated area. The act provides for registration of plumbers licensing and regulation of installation and repair of all plumbing, gas and sewer services and fixtures.

An annual license fee of \$12 for resident plumbers is prescribed.

The ordinance will be before the supervisors for second reading at their meeting next week.

\$25,000,000 FOR MATERIALS IN FOREST CAMPS

Millwork is Big Item of Building Quarters For 1466 Locations

The estimate was made public yesterday by Wilson Compton, who has been co-operating with Robert Fehner, Director of the Emergency Conservation Work, that approximately \$25,000,000 will be expended within the next sixty days on building materials and equipment and labor in providing the 1,466 Conservation Camps with suitable winter quarters.

In addition to 250,000,000 or 300,000,000 feet of lumber there will be an enormous quantity of millwork. There will, for instance, be approximately 26,000 doors and 175,000 windows in these camps. The doors alone will require seven miles of a single variety of moulding strip.

While the lumber and millwork will cost around \$10,000,000, fully as much more will be expended on other accessory materials, equipment and labor. It is calculated that about 45,000 carpenters, other skilled workmen and common laborers will be employed. Purchases are being made through the Quartermaster at each Army Corps Area headquarters.

Many contracts have been let already and thousands of carloads of materials are or will soon be on their way to the various camps. One southern mill is already delivering lumber at camp rail heads in the Northeast faster than C.C.C. trucks can take it away.

This mill is shipping its lumber in solid freight trains running passenger train time schedules—not more than four days elapsing between loading and delivery. The Administration and the War Department have expressed themselves as much gratified at the promptness with which manufacturers and the railroads have co-operated in making speedy deliveries.

STATE OPENS \$355,000 NEW HIGHWAY BIDS

Proposals Received on Five Contracts in Various Counties

SACRAMENTO, Oct. 18.—Bids were opened today on five state highway construction contracts, the total of the low figures being \$355,471.

The work included grading jobs in four counties with concrete paving included in two contracts, and construction of a concrete bridge for the fifth location.

Following are the low bidders on today's openings:

VENTURA COUNTY: Construct reinforced concrete girder bridge. Carlo Bongiovanni, Hollywood, \$26,591.

HUMBOLDT COUNTY: 1.9 miles grade and surface. Mercer-Frasee Co., Eureka, \$101,939.

SAN BERNARDINO CO.: 3.5 mi. grade and pave. C. O. Sparks, Los Angeles, \$91,716.

SAN LUIS OBISPO CO.: 1.9 mi. grade and pave. M. J. Bevanda, Stockton, \$72,597.

CALAVERAS COUNTY: 4.2 mi. grade and surface. Fredrickson and Watson, Oakland, \$62,634.

TURLOCK BUILDERS ELECT OFFICERS

D. G. Niel has been named president of the Turlock Association of Contractors and Builders.

Edward H. Wolfe, vice-president; Glenn Conner, secretary, and Lloyd Terrell, treasurer, were the other officers named by the group. Constitutional rights of individuals and not amount to an improper or arbitrary.

FEDERAL SERVICE OPENS YUBA OFFICE

The Federal Re-employment Service has established offices in Marysville in the basement of the new federal building at Fourth and C streets. Contractors having jobs in Yuba county financed by federal funds are required to apply to the bureau for labor. Clarence Galligan is in charge of the Marysville office.

POSTPONE WAGE INCREASES FOR YEAR PROPOSAL

Administration Offered Plan to Stabilize Construction Industry

"Agree to postpone wage increases and reduction of hours in the construction industry and in the materials industries, for one year, with the firm announcement that on Sept. 1, 1934, wages go up 20% and hours are cut to 40 a week, with the further proviso that on March 1, 1935, wages go up another 20% and hours are cut to 30—and you have the makings of an early revival of the very sick construction industry. So reasons the dazzling plan suggested by Malcolm Pirnie, deputy administrator under Malcolm Muir for the construction industry, and Roy Wentzlick of St. Louis, construction economist to Deputy Pirnie," as reported by "The Business Week."

"The plan is a working-out of a clear conception of the job of NRA as setting the stage for the financial and governmental push (thru the Home Loan Board, and similar agencies) to practical industrial recovery. It does not contemplate the reduction of wages at all, but keeping them at present scales or at a good-living level where anything below that now prevails. It only postpones the increase in costs for one year and holds out this bait to private capital to draw it into the construction field. The plan includes the construction materials and machinery codes as well as those of the construction industries proper. Literally, it seeks to stabilize prices for one year, then jump them radically twice, on a stairway plan that would put code-control into the price factor. It is a part of the NRA job that was certainly there in the original conceptions, but which has largely been lost sight of in the scramble of code production and labor markup.

"The plan, awaiting high approval and labor support before being incorporated into the codes, would not merely stabilize costs but have a direct effect on building. Instead of a sharp upturn which Mr. Wentzlick estimates will come in construction about 1936, but not before it should start an immediate pick-up in anticipation of the frankly promised rises in costs. It would take from the future, of course, but what is would take would be the top of the terrific spurt which Mr. Wentzlick's charts show is due through 1936-39 and which would, by its very height, be one of the contributants to the next depression, if history is allowed to repeat itself.

WESTERN PRODUCERS ASK CODE DIVISION

L. S. Page, representing Western producers of cedar poles, has appeared before the National Control Committee of the Lumber Code Authority requesting the creation of a cedar pole division and the designation of the Northern White and Western Red Cedar Associations, Consolidated, as the administrative agency under the lumber code.

The committee directed Mr. Page to submit evidence showing the representative character of his group, statistics on imports and domestic production of the product and proposals for amendments to the code. The regular procedure in such cases after approval of an application by the committee would be to submit a code amendment to the administration. This amendment would then be subjected to the usual public hearing and examination.

WOLMAN DENIES WAGE CUT STORY

Dr. Leo Wolman, chairman of the Labor Advisory Board of the NRA, today issued a statement denying in positive terms the report that he had discussed with officials of the organization or others a plan to reduce wages in the building trades 10 per cent. Dr. Wolman's statement follows:

"My attention has been called to a statement in a local newspaper, Monday, October 9th, that I have considered a plan designed to reduce all building trade wages 10 per cent and have discussed this plan with representatives of the building trades unions. I know of no such plan, nor has any such plan been brought to my attention, nor have I discussed any such plan with any of the officers of the National Recovery Administration. Needless to say, no such plan has been discussed by me with representatives of the building trades unions. If there were such a plan, I would be unalterably opposed to it as unsound in both practice and theory. The statement that I have seen such a plan and seriously considered it with anyone is absolutely untrue."

CONTRACTORS ASK LOWER LICENSE

Santa Cruz contractors have petitioned the city council for a substantial reduction in the annual municipal contractors' license fee.

It is proposed to reduce the license from \$25 a year to \$10 for general contractors, the same fee now paid by sub-contractors.

FEDERAL CODES WILL SUPERSEDE CRA AGREEMENTS

National Regulation Alone Governs Intrastate Industry After Acceptance

Codes promulgated under the California Industrial Recovery Act remain in effect only so long as the trade or industry involved is not governed by a code approved by the President under the National Industrial Recovery Act. Upon adoption of a federal code for any given trade or industry, the federal code automatically supersedes in all respects the state code in effect.

Such, in brief, are the high spots of an important and sweeping interpretation delivered to the California Industrial Recovery Administration by U. S. Webb, attorney general of California.

In substance, the question asked by State Administrator Daugherty of the attorney general was whether a federal code for a given industry, upon approval by the President, superseded all the provisions of any state code governing strictly intrastate business then in effect for the particular industry involved.

This ruling will serve to clarify many vital problems of administration affecting both the state and federal authorities. It also answers the question most frequently asked since the state law was passed, whether a federal code superseded a state code in its entirety.

The opinion, after reviewing the problem under consideration and quoting sections from the Supplement to the California Industrial Recovery Act, concludes as follows:

" * * * Said Statute (California Industrial Recovery Act) specifically states that in the event a code is approved under the National Industrial Recovery Act, such code 'shall supersede' any state code 'and shall immediately become the code of fair competition provided for in this act for the said trade or industry or subdivision thereof and shall be enforceable as such under the provisions hereof'.

"The words 'shall supersede' and 'immediately become the code' would seem to clearly indicate that it was intended that where a federal code was approved for an industry that code, and that code only, should govern the said industry. The purpose of those provisions was to avoid any possible conflict between state and national codes and to give the federal government full control in any case where a code is approved under the National Industrial Recovery Act."

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Engineers' Code Is Submitted To NRA After Hearing October 9

The code of fair competition for the engineers' division of the construction industry, submitted to the NRA by the American Society of Civil Engineers as a supplemental code under the construction industry code, was advanced toward formal adoption by a public hearing held in Washington on October 9. Malcolm Pirnie, deputy administrator for the construction industry, presided and Alonzo J. Hammond, president of American Society of Civil Engineers, represented that organization in sponsoring the code.

"Engineering News-Record" reports the hearing as follows:

Formal presentation of the code was made by Carlton Proctor, chairman of the code committee of the American Society Civil Engineers, and amendments proposed by the code committee since the filing of the code to the PWA were outlined by him. Since filing of the code with the NRA, Mr. Proctor stated, the code has been approved by the authorized representatives of the following organizations:

American Society of Mechanical Engineers.

American Institute of Consulting Engineers.

American Association of Engineers.

American Society of Heating and Ventilating Engineers.

American Society of Municipal Engineers.

New York Association of Consulting Engineers.

Structural Engineers Association of California.

Chicago Structural Engineers.

New York State Society of Professional Engineers.

Oregon Technical Council.

Western Society of Engineers.

Connecticut Society of Civil Engineers.

Florida Engineering Society.

Rochester Engineering Society.

In the amendments proposed, the names of these societies were added to the preamble and the five national organizations were specified as being represented in the national control committee set up

under the code.

Mr. Proctor, in presenting the amendments, stated that one of the worst effects of the present depression was shopping for engineering services and the price cutting it had brought about in engineering fees, much of which had been done at the expense of employees. He took the opportunity to put the society on record as recognizing the federal government as one of the worst offenders in seeking professional services on a competitive fee basis.

On the matter of wages Mr. Proctor said that the code committee recognized that present standards in many cases were far below actual requirements for mere living needs and that the purpose of the code would not be fulfilled until they were raised to meet the cultural living conditions requisite to professional work.

Wage rates to fulfil this requirement were not set forth in the code, Mr. Proctor said, because it had not been found practical to set any one basic group of rates that would be applicable to the whole country. This will have to be done by the regional committees provided for in the code. Even the minimums set forth are acknowledged to be far from requisite. Much the same comment, Mr. Proctor said, applied to fees for engineering services now in the code.

The code committee's proposals for minimum wages and hours were strongly opposed by J. Jay of the Federation of Architects, Engineers, Chemists & Technicians, an organization representing 3000 employees. As a first step in relieving unemployment among engineers this organization would cut the maximum hours to 30 per week with restricted provisions for emergency work. The minimum wages proposed in the code were declared to be wholly inadequate and the organization does not hold to the view that raising the pay of engineering employees to adequate rates will increase the total cost of construction sufficiently to check new undertakings.

Specifically, the association proposed that the following rates be written in the code: Senior engineers (technical school graduates with 6 years experience or 10 years of experience for non-graduates), \$65 per week; junior engineers (graduates with one year experience, or men with five years practical experience), \$45; assistants (graduates with no experience), \$35; and apprentices \$30 per week.

Arnold G. Chapman, president of the New York State Society of Professional Engineers, proposed modifications in the definition of the functions of an engineer, to broaden it and make it more like the definition in the New York State law. On the subject of wage rates, Mr. Chapman proposed \$30 a week for engineering assistants rendering the lowest grade of service, to be applicable during the four-month interim in which regional rates are being established under the code.

Article IV of the code should be altered to require the engineer to enter into a contract for all work, eliminating the \$1000 fee minimum now in the code, according to Frank Dougherty, representing the Association of Professional Engineers (Philadelphia), a new organization. Also, Mr. Dougherty said the code should require that engineers supervise all work executed under their contract.

At the close of the hearing Mr. Pirnie stated that the construction industry, in the preparation of its codes, should take cognizance of the fact that increasing costs out of line with income to be expected from new construction will result in postponing new projects until another boom period is upon us; that as a consequence every effort should be made to keep construction costs down in order to stimulate new construction and so "borrow work from a future boom period" to help carry the industry through the present depression.

Following the hearing, at the suggestion of Administrator Pirnie, representatives of the code committee of the American Society of Civil Engineers sat down with the representatives of the Federation of Architects, Engineers, Chemists & Technicians to determine whether minimum rates and maximum hours of work more acceptable to the employees could be written into the code. The outcome of the discussion was that the employees representatives will endeavor to draw up new classifications for the first three of its four groups, those who may be classed as engineers or as engineering assistants under the code, classifying them by functions rather than experience, and outlining wage rates for each class in the major regions of the country. On the matter of hours, the code committee was unwilling to cut the maximum below 35 hours but agreed to revise the limitations for emergency work to keep the 48-hour provision from being abused.

September shipments of electric industrial trucks and tractors, as reported to the Bureau of the Census by ten leading manufacturers, totaled 51, compared with 52 in August, 16 in September, 1932, and 43 in September.

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PERMITS AND CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
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SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
760	Ovviani	Risdon	4000
761	Standard	Emanuel	1600
762	Levin	Salih	1200
763	Cope	Warden	6500
764	Blum	Owner	3000
765	Jorgensen	Sbarboro	7000
766	Amalgamated	Barrett	5000
767	Cereal	Forbes	5000
768	Donahoe	Whitton	12000
769	Vetter	Owner	5000

DWELLING

(760) E WEBSTER ST. 77 S Beach; two-story and basement frame dwelling.

Owner—G. Ovviani, care bulgder. Plans by Contractors.
Contractor—Risdon Bros., 1324 Portola Drive. \$4000

ALTERATIONS

(761) NW STOCKTON & BROADWAY. Alter store.

Owner—Standard Stores, 1620 Polk St., San Francisco.

Architect—Not Given.
Contractor—L. & E. Emanuel, Inc., 2665 Jones St., S. F. \$1600

ALTERATIONS

(762) NO. 2123-27 POLK ST. Alter stores.

Owner—S. H. Levin, 25 Taylor St., San Francisco.

Architect—Not Given.
Contractor—Salih Bros., 25 Taylor St., San Francisco. \$1200

DWELLING

(763) E NINETEENTH AVE 100 S Anza St. Two-story and basement frame dwelling.

Owner—Miss Cope, 1957 McAllister St., San Francisco.

Architect—A. J. Loulect, 2641 Dwight Way, Berkeley.

Contractor—F. Warden, 1675 Eighth Ave., San Francisco. \$6500

DWELLING

(764) SE SILVER AVE. AND 30 E Girard St. One-story and basement frame dwelling.

Owner—J. Blum, 212 Silliman St., San Francisco.

Architect—Not Given. \$3000

DWELLING

(765) N FRANCISCO ST. 100 W Divisadero. Two-story and basement frame dwelling.

Owner—M. P. Jorgensen, 2225 North Point St., San Francisco.

Architect—Not Given.
Contractor—Sbarboro & Jorgensen, 207 Walnut St., S. F. \$7000

STORAGE TANK

(766) NO. 22 HURON ST. Concrete storage tank for public garage.

Owner—Amalgamated Laundries Co., Eighth and Huron Sts., San Francisco.

Engineers—Ellison & Russell, Pacific Bldg., San Francisco.

Contractor—Barrett & Hillp, 918 Harrison St., San Francisco. \$5000

FOUNDATION

(767) N FULTON ST. 137 E Webster St. Unit one (foundation).

Owner—Cereal Products Corn., 763 Fulton St., San Francisco.

Architect—Not Given.
Contractor—R. J. Forbes, 1067 Montgomery St., San Francisco. \$5000

ALTERATIONS

(768) SW PINE AND BATTERY.

Alter Class C office building.

Owner—Anna Meloy Donahoe, 211 Securities Bldg., Seattle, Wash.

Architect—Not Given.
Contractor—F. Whitton, 369 Pine St., San Francisco. \$12,000

RESTAURANT

(769) NW FIFTEENTH ST. AND Potrero Ave. Two-story and basement frame restaurant.

Owner—A. Vetter Sons, 198 Potrero Ave., San Francisco.

Engineer—H. Helbing, 1310 Lombard St., San Francisco. \$5000

ALAMEDA COUNTY

457	Turner	Henderson	1545
458	Benz	Owner	7000
459	Chalmers	Courtright	2000
460	Carlson	Carlson	4000
461	Murray	Owner	3500
462	Belliardi	Henning	1600
463	Same	Same	2500
464	Green	Confer	6895
465	Barr	Owner	5000
466	Collings	Owner	1000
467	Kaiser	Lynn	1000

ALTERATIONS

(457) NO. 2441 TELEGRAPH AVE., BERKELEY. Alterations.

Owner—F. C. Turner, 2710 Durant Ave., Berkeley.

Architect—Not Given.
Contractor—H. K. Henderson, 393 40th St., Oakland. \$1545

DWELLING

(458) NO. 952 SUNNYHILLS ROAD, OAKLAND. Two-story 7-room dwelling.

Owner—C. J. Bene, 3486 35th Ave., Oakland.

Architect—Miller & Warnecke, Financial Center Bldg., Oakland. \$7000

DWELLING

(460) 755 EUCLID AVE., BERKELEY; 1-story 6-room frame dwelling and garage.

Owner and Builder—Oscar E. Carlson, Jr., 659 Santa Barbara Rd., Berkeley.

Architect—Not Given. \$4000

DWELLING

(459) 11034 BROADWAY TERRACE, OAKLAND; one-story four-room dwelling.

Owner—Miss Fay Chalmers, 124 San Carlos Ave., Piedmont.

Architect—Not Given.
Contractor—T. D. Courtright, 349 51st St., Oakland. \$2000

DWELLING

(461) NO. 1460 GRIZZLY PEAK RD., BERKELEY. Two-story 6-room frame dwelling and garage.

Owner—B. Franklin Murray, 407 Vernon St., Oakland.

Architect—Not Given. \$3500

BUILDING

(462) NO. 2736 TELEGRAPH AVE., BERKELEY. One-story three-room Class C building.

Owner—James Belliardi, Richmond. Plans by Richfield Oil Co., San Francisco.

Contractor—K. J. Henning, 2514 Piedmont Ave., Berkeley. \$1500

STATION

(463) NO. 2730 TELEGRAPH AVE., BERKELEY. One-story one-room Class C service station.

Owner—James Belliardi, Richmond. Plans by Richfield Oil Co., San Francisco.

Contractor—K. J. Henning, 2514 Piedmont Ave., Berkeley. \$2500

DWELLING

(464) E ASCOT DRIVE 200 N Morley Drive, OAKLAND. Two-story 7-room dwelling.

Owner—Wm. H. Green, 1242 Trestle Glen Road, Oakland.

Architect—Not Given.
Contractor—F. W. Confer, 2500 Shasta Road, Berkeley. \$6895

DWELLING

(465) NO. 4339 HARBOARD DRIVE, OAKLAND. Two-story six-room brick dwelling.

Owner—Robert J. Barr, 596 Chetwood St., Oakland.

Architect—Not Given. \$5000

ALTERATIONS

(466) NO. 3740 FOOTHILL BLVD., OAKLAND. Alterations and addition.

Owner—Mrs. L. Collings, 4021 E-14th St., Oakland.

Architect—Not Given. \$1000

REPAIRS

(467) NO. 3221 CHESTNUT STREET, OAKLAND. Fire repairs.

Owner—Miss Emma Kaiser, 210 Chancellor St., Richmond.

Architect—Not Given.
Contractor—W. F. Lynn, 1037 Ashmount Ave., Oakland. \$1000

BUILDING CONTRACTS

No.	Owner	Contractor	Amt.
153	Zuardo	De Puy	13999
154	Shapiro	Carraro	5625
155	De Barbieri	Cicero	12000
156	Griffin	Hedahl	6700
157	McKale	Price	18200

RESIDENCE

(153) SW MARINA BLVD. 28 frontage on Marina Blvd., said lot begins at pt 19.582 NW from NW Webster St., being Lot 27 Blk 436C, Marina Blvd. All work for two-story and basement frame residence.

Owner—Dr. Nicholas Zuardo and Dr. Katherine Barbick, 209 Post St., San Francisco.

Architect—Clarence A. Tantau, 210 Post St., San Francisco.

Contractor—Fred K. DuPuy, 110 Sutter St., San Francisco.

Filed Oct. 13, '33. Dated Oct. 3, '33.

Frame up\$3499.75

Brown coat on 3499.75

When completed 3499.75

Usual 35 days 3499.75

TOTAL COST, \$13,999

Bond, \$13,999. Surety, Massachusetts Bonding & Insurance Co. Limit, 90 days. Forfeited, none. Plans and specifications filed.

BUILDING

(154) N SAN BRUNO AVE. AND Thornton Ave NW 25xNE 75. All work for two-story frame building.

Owner—Joseph Shapiro, 2475-A San Bruno Ave., San Francisco.

Architect—F. W. Dakin, 625 Market St., San Francisco.

Contractor—G. Carraro & Son, 750 Felton St., San Francisco.

Filed Oct. 16, '33. Dated Oct. 11, '33.

Roof sheathing in place\$1406

Brown coat plaster on 1406

When completed 1406
 Usual 35 days..... 1407
TOTAL COST, \$5625
 Bond, \$2813. Sureties, Joseph Ferrari and J. Ferrari. Limit, 75 days. Forfeit, none. Plans and specifications filed.

APARTMENTS

(155) E POWELL 32-6 S Greenwich St. 25x37. All work for three-story and basement 16-room frame and part stucco apartments. Owner—Angelo and Amosilia De Barbieri, 673 Greenwich St., San Francisco. Architect—Not Given. Contractor—Carl Cicero, 4261 23rd St., San Francisco. Filed Oct. 17, '33. Dated Sept. 20, '33. On first of every month until building is completed..... 75% Usual 35 days..... 25%
TOTAL COST, \$12,000
 Bond, not given. Limit, 90 days. Forfeit, plans and specifications, none.

RESIDENCE

(156) LOT 3 ELK 3255 Map Balboa Terrace. All work for two-story and basement frame residence. Owner—Edna M. and Walter L. Griffin, 1035 Portola Ave., San Francisco. Architect—Not Given. Contractor—Oscar Hedahl, Burlingame Filed Oct. 17, '33. Dated July 11, '33. Frame up 25% Brown coat plaster on..... 25% Building completed 25% Usual 35 days..... 25%
TOTAL COST, \$6700
 Bond, not given. Limit, 100 days. Forfeit, plans and specifications, none.

STATION

(157) PTN LOTS 9, 10 AND 11 BLK 3197 Map Westwood Park desd: E Miramar Ave dist S thereon 10 from N line said Lot 11; S 69.348 S and SE 45.304 SE 71.814 N 121.414 W 95 to beg. All work for combination brick, steel and stucco super service station. Owner—McKale's Inc., 1600 Mission St., San Francisco. Plans by Frederick Shaw. Contractor—Louis P. Price (as Price Constr. Co.) and Marshall A. Dean 1723 Webster St., San Francisco. Filed Oct. 18, '33. Dated Sept. 16, '33. On 5th and 20th of each month 75% The term SAVINGS is to be defined as the sum that cost plus 10% Contractor's fee is reduced below the contract sum of \$18,200 and is to be participated in by owner and contractor as follows: The owner to be given a credit in the sum of 75% of any such savings.
TOTAL COST, \$18,200, less any savings as hereinabove noted.
 Bond, \$13,650. Surety, American Surety Co. of New York. Limit, 60 days. Forfeit, plans and specifications, none.

SAN FRANCISCO UNDER \$1000

ALTER apartments, \$500; 1057-59; Capp St.; owner, A. Berndt, 3090 16th St.
 ALTER hotel, \$300; 1525 Grant Ave.; owner, T. Marini, 649 Green St.; contractor, L. Murer, 1815 Mason
 SIGN, cloth, \$20; 444 Grant Ave.; owner, Chew Jan Co., 444 Grant Ave.; contractor, A. Neil, 911 Folsom St.
 FLUES (3), \$130; 2886 Folsom St.; owner, M. Paquette, 3230 24th Street; contractor, National Sheet Metal Works, 3168 Mission St.
 SIGN, electric, \$250; 2140 Market St.; owner, Donbock Colbin, Premises;

contractor, Pioneer Elec. Co.; 2128 Market St.
 SIGN, electric, \$200; 1327 Divisadero St.; owner, S. Weinberg, 1327 Divisadero St.; contractor, Pioneer Elec. Co., 2128 Market St.
 SIGN, electric, \$475; 761 Market St.; owner, V. Onorato, 761 Market St. contractor, Neon Sign Co., 1707 Folsom St.
 SHED, \$31.60; 4465 Mission St.; owner, L. Cristofani, 4465 Mission St.
 BILLBOARD, \$6.25; SE Polk and Vallejo Sts.; owner, Foster & Kleiser, 1675 Eddy St.
 ALTER dwelling, \$400; 149 San Jose Ave.; owner, T. Schultz, 149 San Jose Ave.
 ALTER office, \$100; 161 California St. owner, California Beverages, 161 California St.
 FLUE (1), \$182; 169 Precita Avenue; owner, E. Stack, Premises; contractor, National Sheet Metal Works, 3168 Mission St.
 SIGN, electric, \$225; 2185 Chestnut St.; owner, H. Rosenthal, Prem.; contractor, Neon Sign Service Co., 1707 Folsom St.
 SIGN, electric, \$200; 2290 Mission St.; owner, W. Kornmesser, 2290 Mission St.; contractor, Pioneer Elec. Co., 2128 Market St.
 SIGN, electric, \$75; 2052 Fillmore St.; owner, State Cafe, 2052 Fillmore St.; contractor, American Electric Sign Co., 1740 Eddy St.
 ALTER flats, \$175; 628-530 Greenwich St.; owner, C. Minorni, 630 Greenwich Street; contractor, S. Mazzoneini, 3020 Buchanan St.
 BILLBOARD, \$18.75; SE Chestnut and Laguna Sts.; owner, Foster & Kleiser, 1675 Eddy St.
 ALTER church, \$200; SW Cor. Franklin and Geary Sts.; owner, Unitarian Church, Franklin and Geary Sts.; contractor, J. H. Thorup, 800 35th Ave.
 FLUE, one patent, \$15; 1015 Van Ness Ave.; owner, T. Buckley, 1015 Van Ness Ave.
 SIGN, electric, \$325; 1053 Market St.; owner, Grand Dept. Store, Inc., 1053 Market St.; contractor, Elec. Prod. Corp., 255 Golden Gate.
 ADD to dwelling, \$200; 321 Monticello; owner, E. S. Gordon, 321 Monticello.
 STEEL structure and electric sign, \$750; 1001 Brannan St.; owner, Golden West Brewing Co., 1001 Brannan St.; contractor, Q. R. S. Neon Corp., Ltd., 690 Potrero.
 SIGN, electric, \$175; 3355 Mission St.; owner, Costa's Tavern, 3355 Mission St.; contractor, Golden Gate Neon Sign Co., Inc., 355 8th St.
 SIGN, electric, \$225; 1121 Market St.; owner, Barrett's Tavers, 1121 Market St.; contractor, Elec. Products Corp., 255 Golden Gate Ave.
 SIGN, electric, \$375; 437 Sutter St.; owner, Ruud Heater Co., 437 Sutter St.; contractor, Elec. Products Corp., 255 Golden Gate Ave.
 ALTER store, \$300; 556 California St.; owner, F. Lewis Co., 14th and Harrison Sts., Oakland.
 ALTER store, \$620; 1315 Stockton St.; owner, A. Esmiol, 1315 Stockton; architect, Fabre & Hildebrand, 110 Sutter St.
 ADD to dwelling, \$710; 670 39th Ave.; owner, Mrs. Winifred O. Morrison, 670 39th Ave.
 ALTER dwelling, \$200; 22 Beaver St.; owner, Mrs. Russell, Premises.
 ALTER dwelling, \$300; 926-32 Greenwich St.; owner, L. Nicolai, 926 Greenwich St.; contractor, S. Mazzoneini, 3020 Buchanan St.
 ALTER laundry, \$50; 1615 Geary St.; owner, Tom Toon Goon, 1615 Geary; contractor, Wong Mon, 45 Shofford St.
 ALTER dwelling, \$200; 1129 Guerrero St.; owner, P. Carraro, 830 Felton St.

ALAMEDA COUNTY UNDER \$1000

ADDITION, \$115; 1250 30th Ave., Oakland; owner, M. R. Hansen, 1250 30th Ave.
 SIGN, electric, \$150; 324 40th Street, Oakland; owner, C. M. Thomson; contractor, Radiant Neon Display 2561 San Pablo Ave.
 SIGN, electric, \$126; 4096 Piedmont Ave., Oakland; owner, J. Trechemé contractor, Radiant Neon Display, 2561 San Pablo Ave.
 DWELLING, one-story 2-room, \$500 5027 Calaveras Ave., Oakland; owner, Emory Blunkall, 3833 Keller Ave.
 ALTERATIONS, \$300; 5221 Broadway, Oakland; owner, Associated Oil Co., 2395 Webster St., Alameda; contractor, Independent Iron Works, 821 Pine St.
 ALTERATIONS, \$100; 1530 28th Ave., Oakland; owner, E. O. Boyer, 1530 28th Ave.
 SIGN, electric, \$145; 6011 E-14th St., Oakland; owner, H. O. Kimmel; contractor, Radiant Neon Display, 2561 San Pablo Ave.
 ADDITION, \$230; 2537 35th Ave., Oakland; owner, C. L. Scott, 2587 35th Ave.
 ALTERATIONS, \$175; 1819 University Ave., Berkeley; owner, Dr. Bohannon, Premises; contractor, Oakland Star Roof Co., 1737 E-12th St., Oakland.
 ALTERATIONS, \$80; 1148 Colusa St., Berkeley; owner, E. F. Goebler, 1148 Colusa St.; contractor, E. H. Euel, 2927 Lorina St.
 ALTERATIONS, \$155; 1523 Milvia St., Berkeley; owner, Mabel S. Pardon, 1525 Milvia St.; contractor, Charles Marietti.
 ALTERATIONS, \$570; 2300 Telegraph Ave., Berkeley; owner, Woolsey, Center St.; contractor, Guy Tyler, 1502 Cedar St.
 ALTERATIONS, \$70; 1702 Arch St., Berkeley; owner, H. J. Priestly, 1702 Arch St.; contractor, Laurence C. Sullivan Co., 3909 Loma Vista Ave., Oakland.
 ALTERATIONS, \$130; 2143 Ward St., Berkeley; owner, Alex Munro, 2139 Ward St.
 GARAGE, one-story, \$75; 734 60th St., Oakland; owner, Mrs. E. Jones Jansen, 674 24th St.
 RESHINGLE, \$50; 1341 E-34th Street, Oakland; owner, Harry H. Joyce, 1341 E-34th St.
 ALTER for garage, \$200; 714 5th Ave., Oakland; owner, Mr. Phillips, 714 5th Ave.; contractor, C. E. Atkinson, 3125 61st Ave.
 GARAGE, one-story tile, \$350; 2710 San Pablo Ave., Oakland; owner, N. T. Schroeder, 1922 Broadway, Alameda; contractor, Dorsch & Thomsen, 3513 Adeline St.
 GARAGE, one-story, \$150; 3234 Liese Ave., Oakland; owner, R. J. Flynn 3234 Liese Ave.
 LATH house, one-story, \$65; 7950 Mountain Blvd., Oakland; owner, Oak View Nursery, Premises.
 ALTERATIONS, \$100; 5636-42 College Ave., Oakland; owner, G. Fahmie, 1804 University Ave., Berkeley.
 SHED, corrugated iron, \$750; S end Park St., Alameda; owner, City of Alameda.
 SIGN, electric, \$350; 3100 Telegraph Ave.; owner, Mary Dowd Pardon; contractor, Elec. Prod. Corp. 950 30th St.
 SIGNS, two electric, \$300; 3001 East 14th St., Oakland; owner, Bill Wood Motor Co.; contractor, Elec. Prod. Corp., 950 30th St., Oakland.
 SIGN, electric, \$140; 1330 Broadway, Oakland; owner, Oakland Drug Co. contractor, Q. R. S. Neon Corp., 690 Potrero Ave., San Francisco.
 GARAGE, one-story, \$100; 1915 E-28th St., Oakland; owner, H. Creelin, 727 14th St.

BUILDING NEWS

NEWS INDEX

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1—APARTMENTS

Sub-Contracts Awarded.

APARTMENTS Cost, \$20,000
VALLEJO, Solano Co., Cal. Marin Ave. and Kentucky St.

Two-story and basement frame and stucco apartment building (four 4-room apts.) tile roof, gas hot air heating system, oak floors, wall beds, etc., and two-story detached residence (seven rooms) same construction as apartments.

Owner—C. J. O'Neal.

Architect—Chas. E. Perry, 514 Martin Ave., Vallejo.

Contractor—David Paganini, 519 California St., San Francisco.

Grading—E. E. Lowell, 464 Wilson Ave., Vallejo.

Lumber—Perry Lumber Co., Vallejo.

Plumbing—R. G. Winchell, Box 495, Vallejo.

Electrical Work—Ed Pierce, Vallejo.

Plastering—Chas. Bourne, 1020 Alabama St., Vallejo.

Painting—Vera & Castro, 727 Marin St., Vallejo.

Steel Sash—Edw. L. Soule Co., 1750 Army St., San Francisco.

Mill Work—Pacific Mfg. Co., Santa Clara.

Sheet Metal Work—Monarch Sheet Metal Works, Vallejo.

Roofing—Anderson Roofing Co. (2254) 1st report July 26; 12th Sept. 23, 1933.

2—BONDS

OAKLAND, Alameda Co., Cal. — A bond election is planned by the Supervisors of Alameda County on December 19, to vote \$1,500,000 for the proposed county courthouse to replace the old structure.

MODESTO, Stanislaus Co., Cal.—A bond election will be held in Stanislaus County on December 16 to vote the sum of \$495,000 for a new Courthouse and an administration building at the county hospital.

SANTA ANA, Orange Co., Cal.—Santa Ana civic organizations are behind a movement to call a special election for the purpose of determining whether or not \$70,000 in bonds be issued to furnish collateral for a government loan to finance the construction of a new city hall in Santa Ana. The proposed building would cost about \$100,000, the other \$30,000 to be provided by the government in the form of a grant.

3—CHURCHES

To Be Done By Day's Work.

CHURCH Cost, \$—
MARTINEZ, Contra Costa Co., Calif. Shell and Pacheco Avenues.

One-story frame and stucco church (28x50).

Owner—Mt. View Community Church. Plans by J. S. Hadden, premises.

The building committee consists of E. Marlar, chairman; T. J. McKinley, G. Farnsworth, A. Heflin and E. L. Aubrey. F. X. Willar will be in charge of finances.

4—FACTORIES & WAREHOUSES

SAN PEDRO, Los Angeles Co., Cal. —Bids will be received until October 31, 2 P. M., by H. W. Rhodes, Superintendent of Lighthouses, Room 424 Custom House, San Francisco, for construction of a one-story combination warehouse and shop building, 62x102 feet with reinforced concrete exterior walls, hollow tile partitions, structural steel roof trusses. It is to be erected on the west or channel side of the U. S. Lighthouse Reservation, Los Angeles Harbor, San Pedro. Plans and specifications obtainable from Supt. of Lighthouses, San Francisco, on deposit of \$5. Work will be done under the NIRA.

Sub-Contracts Awarded.

PLANT Cost, \$50,000
SAN FRANCISCO. Washington St. Two-story reinforced concrete printing plant.

Owner—Security Lithograph Co., 32 Clay St. (formerly Edward Barry Co.)

Architect—H. A. Minton, 525 Market St., San Francisco.

Engineer—L. H. Nischkian, 525 Market St., San Francisco.

Contractor—David Paganini, 519 California St., San Francisco.

Lumber—Loop Lumber Co., Central Basin, San Francisco.

Roofing—Alta Roofing Co., 976 Indiana St., San Francisco.

Electric Work—Alta Electric Co., 467 O'Farrell St., San Francisco.

As previously reported piling was awarded to M. E. McGowan, 74 New Montgomery St.; reinforcing steel to W. S. Wetenhall, 17th and Wisconsin Sts. (9701) 1st report Oct. 4, 1932; 17th Sept. 15, 1933.

YUBA CITY, Sutter Co., Cal. — Rosenberg Brothers Packing Co. is planning to rebuild within the next few weeks the packing shed on the Ohlever road destroyed by fire recently, according to J. W. Lange, manager. Estimated loss, \$15,000.

Ready For Figures In A Few Days.
BREWERY Cost, \$275,000
OAKLAND, Alameda Co., Cal. Location not given.

Three-story reinforced concrete brewery (100,000 barrel capacity per year), 150 barrel kettles, etc.

Owner—Samarkand Brewing Co., 893 Folsom St., San Francisco.

Architect—W. D. Peugh (O'Brien Bros.) 333 Montgomery St., San Francisco.

Bids will be asked on a general contract and mechanical work. (1711) 1st report June 3; 7th, Sept. 29, 1933.

COCO SOLO, Canal Zone — Until Nov. 22, 11 A. M., bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., to construct hangar at Coco Solo. Specification No. 7351.

Sub-Contracts Awarded.

ADDITION Cost, \$—
SOUTH SAN FRANCISCO. Bayshore Highway.

Addition to glue factory (vats, etc.) Owner—Pacific Bone, Coal & Fertilizer Co., South San Francisco.

Plans by Engineering Dept. of Owner, Contractor—MacDonald & Kahn, Financial Center Bldg., San Francisco.

Reinforcing Steel—Truscon Steel Co., Call Bldg., San Francisco.
Concrete—Bode Gravel Co., 235 Alabama St., San Francisco.

Plans Being Figured—To Close Oct. 24.

ADDITION Cost, \$50,000
OAKLAND, Alameda Co., Calif. East 14th St. and 57th St.

One-story addition to factory on fill (concrete floors, Kalman floor finish, steel frame, wooden foundations, composition roof, continuous steel sash, etc.)

Owner—Safeway Stores, 4th and Jackson Sts., Oakland.

Engineer—Jesse Rosenwald, 525 Market St., San Francisco, consulting structural engineer.

Bids are being taken from a selected list of contractors only.

SAN DIEGO, Cal.—Consolidated Aircraft Corp. Major Reuben Fleet, president; Mr. Lee, purchasing agent, 2050 Elmwood Ave., Buffalo, N. Y., is completing plans and will probably be ready for general contract bids early in November for large manufacturing plant to be erected on a 20-acre site at Lindbergh Field, San Diego. Plant will consist of a one-story factory building, 300x500 feet; two-story office building, 40x300 feet; one-story warehouse, 100x100 feet. Steel frame structures with brick and Transite walls and Transite roofs. San Diego harbor department will install sewer and water mains to site and build spur tracks. Corporation's entire operations are to be transferred from their Buffalo and Tonowanda plants to San Diego.

Structural Steel Contract Awarded.
BREW HOUSE Cost, \$100,000
STOCKTON, San Joaquin Co., Cal. No. 626 N. American Street.

Four- or five-story brick and steel brew house (40 ft. square, 90 ft. in height).

Owner—Eldorado Brewing Co. (A. D. Rothenbush), 626 N. American St., Stockton.

Designed by C. M. Fraenkel, industrial economist, 461 Market Street San Francisco.

Structural Steel—Schrader Iron Wks. 1247 Harrison St., San Francisco. Segregated bids on other portions of the work will be taken shortly.

ROSS FIELD, Los Angeles Co., Cal. —A. C. Rice, Los Angeles, submitted low bid to Constructing Quartermaster, Rockwell Field, at 11,320, for dismantling two balloon hangars at Ross Field, Arcadia. Recommendation was made that the contract be awarded to low bidder. Other bids were: Lynch-Cannon Engr. Co., \$14,600; J. A. Hunt, \$19,782; L. Summerville, \$20,686; Geo. E. Miller, \$21,498; Contracting Engineers, \$31,900.

Segregated Bids Being Taken.
MILK PLANT Cost, \$10,000
SAN JOSE, Santa Clara Co., Cal. 400 Block East of Empire St.
 One-story brick milk processing plant (bottling room, cooling room, bottle washing room, etc.)
 Owner—Golden State Co., Ltd., 400 N. First St., San Jose.
 Designer—Engineering Dept. of Owner
 Mgr. of Constr.—E. Perkins, % Owner

FRESNO, Cal.—San Francisco Oven Co., 1652 21st Ave., San Francisco, awarded contract at \$10,000 to furnish and install three continuous ovens in the Athens Baking Company plant, 1253 F St., Fresno.

Plumbing and Heating Contract Awarded.
PLANT Cost, \$50,000
SAN FRANCISCO, Washington St.
 Two-story reinforced concrete printing plant.
 Owner—Security Lithograph Co., 32 Clay St. (formerly Edward Barry Co.)
 Architect—H. A. Minton, 525 Market St., San Francisco.
 Engineer—L. H. Nishkian, 525 Market St., San Francisco.
 Contractor—David Paganini, 519 California St., San Francisco.
Plumbing and Heating—Adrian Ramazzotti, 1473 Vallejo St., S. F.
 Other awards reported Oct. 13.

6—GARAGES & SERVICE STATIONS

Sub-Contracts Awarded.
AUTO SHOP Cost, \$—
SAN FRANCISCO, N Cortland Ave. 100 W Bayshore.
 One-story Class C auto shop.
 Owner—W. L. Ulfelder and S. Bisinger.
 Architect—Not Given.
 Contractor—Barrett & Hilp, 918 Harrison St., San Francisco.
Roofing—Alta Roofing Co., 976 Indiana St., San Francisco.
Plumbing—Dowd & Welch, 3558 16th St., San Francisco.
Brick—W. A. Rainey & Son, 323 Clementina St., San Francisco.
Electric—Electric Service Co.
Lumber—Rolando Lumber Co., 301 Berry St., San Francisco.
 1st report Oct. 5, 1933.

Sub-Bids Being Taken.
SERVICE STATION Cost, \$—
SAN FRANCISCO, SW Fulton and Laguna Street.
 Steel and concrete super-service station.
 Owner—G. Ricci.
 Engineer & Supt. of Const.—E. H. Oxendene, 1707 23rd Ave.
Wrecking—Banks Wrecking Co., 1230 Howard Street.

Construction Started.
GARAGE Cost, \$3000
MADRONE, Santa Clara Co., Calif.
 One-story frame and corrugated iron garage (59x50) plaster front, corrugated iron roof, cement floor.
 Owner—R. Moesle.
 Architect—Charles McKenzie, Twohy Bldg., San Jose.
 Contractor—M. A. Urstadt, 118 Radio, San Jose.

Contract Awarded.
SERVICE STATIONS \$2500 each
BERKLEY, Alameda Co., Cal. No. 2736 and 2730 Telegraph Avenue.
 Two one-story Class C service stations.
 Owner—James Belliard, Richmond.
 Plans by Engineering Dept. of Lessee.
 Lessee—Richfield Oil Co., 249 Battery St., San Francisco.
 Contractor—K. J. Henning, 2514 Piedmont Ave., Berkeley.

SAN FRANCISCO—Barrett & Hilp, 918 Harrison St., as approximately \$5000 awarded contract by Amalgamated Laundries Co., 8th and Huron Sts., to construct concrete storage tank for public garage at 22 Huron St. Ellison & Russell, Pacific Bldg., engineers.

7—FEDERAL BUILDINGS

BIDS OPENED
HAMILTON FIELD, Marin Co., Cal.—Complete list of bids with unit prices for erecting the Barracks and Officers' Quarters at Hamilton Field, opened October 17, will be found in the Unit Bid Summary Section of this issue.

TECATE, San Diego Co., Cal.—Associated Constructors, 1226 S La Brea, Los Angeles, at \$48,728 submitted low bid to Treasury Department to construct inspection station at Tecate.
 Will be a two-story, L-shaped structure, extreme dimensions, 133x65 feet; concrete foundations, brick walls, tile and composition roof, stucco exterior, interior tile work, one-pipe steam heating system, etc. The garage will be a brick structure and the dwellings will be wood frame and stucco with tile roofs.
 Second low bid submitted by John Strona, Pomona, at \$52,567. Complete bids will be published shortly.

MARCH FIELD, Riverside Co., Cal.—Constructing Quartermaster, March Field, rejected all bids for construction of medical detachment barracks and hospital contagious ward at March Field. Low bid of \$39,201, submitted by George Mittry, exceeded the appropriation of approximately \$7000.

SUNNYVALE, Santa Clara Co., Cal.—Forderer Cornice Works, 269 Fordero Ave., San Francisco, and the Munthe Equipment Co., 7 Front St., San Francisco, have procured plans for the purpose of submitting bids to the 12th Naval District, San Francisco, on Oct. 25 in connection with the construction of office, shop and quarters for the S. S. Macon in airship hangar at Sunnyvale. Spec. No. 7466.

SOUTH SAN FRANCISCO, San Mateo Co., Cal.—Until Nov. 14, 11 A. M., bids will be received by Public Works Officer, Navy Yard, Mare Island, for re-roofing Building S-3 and the construction of a new penthouse on, and other alterations and repairs to Bldg. S-8 at the Naval Radio Station, South San Francisco. Spec. No. 7390. Plans and specifications available from the above office upon deposit of \$5.00.

MARE ISLAND, Calif.—San Francisco Const. Co., 3159 Fillmore Street, San Francisco, at \$11,096 submitted low bid to Public Works Officer, Mare Island, to construct new tin roof and gutters, wood cornice, wood framing, plaster ceiling and other work for Marine Barracks Building No. M-53, Mare Island, under Spec. No. 7382. Following bids received:
 San Francisco Const. Co., S. F. \$11,096
 Theo. Johanns, S. F. 11,188
 Thos. J. Doyle, S. F. 12,417
 A. D. Colman, S. F. 12,680
 S. Rasori, S. F. 13,206
 Walter Mork, S. F. 17,200
 Bids held under advisement.

MARCH FIELD, Riverside Co., Cal.—H. G. Klusman, 154 N. Archibald Ave., Cucamonga, submitted low bid to Constructing Quartermaster, at \$44,000, for erecting officers' mess building at March Field. Recommendation was made that contract be awarded to Klusman at \$44,000, less \$2500 for omission of kitchen equipment. Will be a one-story structure with hollow concrete walls

and tile roof. Bids follow: H. G. Klusman, \$44,000; Cresmer Mfg. Co., \$44,542; Contracting Engineers, \$45,440; Wm. J. Shirley, \$45,859; Willard Lutz, \$46,000; John Strona, \$47,732; Herbert M. Baruch Corp., \$47,531; Gene B. Foster, \$48,652; Geo. Mittry, \$49,176; Jones Brothers, \$49,940; Louis A. Gelsler, \$55,141; Harvey A. Nichols, \$55,999; L. A. Contracting Co., \$61,400.

FT. MacARTHUR, San Pedro, Cal.—Until 11 A. M., October 30, bids will be received by the Constructing Quartermaster, Fort MacArthur, San Pedro, for the construction of eight double sets of non-commissioned officers' quarters at Fort MacArthur. Plans may be obtained at Fort MacArthur upon deposit of \$15, checks to be made payable to the Constructing Quartermaster.

SAN DIEGO, Cal.—Geo. Hess, 434 S. Westmoreland Ave., Los Angeles, at \$66,900 awarded contract by Bureau of Yards and Docks, Navy Department, Washington, D. C., for extension to building No. 27, Naval Operating Base, San Diego. Specification No. 7424.

HAMILTON FIELD, Marin Co., Cal.—Until October 30, 1 P. M., bids will be received by Construction Quartermaster, Hamilton Field, San Rafael, to construct one-story concrete maintenance building and one quartermaster salvage warehouse at Hamilton Field.

Contract involves. Salvage of structural steel from Building 39, Mather Field, together with salvage of corrugated iron roofing and siding, excavating, filling and grading, wood and concrete (Composite) piles, reinforced concrete, structural steel, steel sash, channel iron door frames, wire mesh partitions, asbestos protected metal roof, twenty-four-inch ventilators, built-up roofing over wood deck (alternate), plaster partitions and ceilings, stucco, gunite, hardware, painting, glazing (salvage glass), plumbing, lavatory fixtures, drinking fountain, electrical wiring and fixtures, gas steam radiator.

SUNNYVALE, Santa Clara Co., Cal.—H. C. Miller & Son, Santa Clara, at \$700.80 submitted low bid to Public Works Officer, 12th Naval District, San Francisco, in connection with the partitions and equipment for Post Office at the Naval Air Station, Sunnyvale. The work includes wood partitions, grille work, tables, racks, bins, cabinets, hardware and finishing. Specifications No. 7493.

Following bids received:
 H. C. Miller & Son, Santa Clara \$ 700.80
 Theo. Johanns, S. F. 848.00
 Anchor Post Fence Co., S. F. 1075.00
 San Francisco Constr. Co., San Francisco 1095.00
 Bids held under advisement.

SAN DIEGO, Cal.—B. O. Larsen, 1340 E St., San Diego, at \$174,500 awarded contract by Bureau of Yards and Docks, Navy Department, Washington, D. C., to construct assembly shop building at the Naval Operating Base (Air Station), San Diego. Specifications No. 7426.

MODESTO, Stanislaus Co., Cal.—Lyon Metal Products Co., 582 Market St., San Francisco, at \$432.01 submitted low bid to Treasury Supply Division to furnish metal shelving in the U. S. Postoffice, Modesto. Following bids received:
 Lyon Metal Products, \$432.01; Penn Metal Co., \$464; Interior Steel Equipment Co., \$465.75; Berger Mfg. Co., \$475.72; Jamestown Metal Equipment Co., \$535.69; Globe-Wernicke Co., \$627.

BREMERTON, Wash.—K. E. Parker Co., 135 South Park St., San Francisco, at \$655,400 awarded contract by Bureau of Yards and Docks, Navy Department, to construct machine and electric shop building under Specification No. 7338. Structure will be 805 feet long, 251 feet wide and 95 feet high.

PEARL HARBOR, T. H.—Until Nov. 29, 11 A. M., bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., to construct general facilities building to cost \$175,000; storehouse to cost \$250,000 and magazine to cost \$13,000. Specification No. 7257.

PEARL HARBOR, T. H.—Until November 29, 11 A. M., bids will be received by Bureau of Yards and Docks, Navy Department, to construct three-story extension to storehouse at the Naval Fleet Air Base, Pearl Harbor. Specifications No. 7085.

PEARL HARBOR, T. H.—Until Nov. 29, 11 A. M., bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., to construct facilities building at the Navy Yard, Pearl Harbor. Specification No. 7074. On previous bid opening lowest bid was submitted by Tucker McClure, Ancon, Canal Zone, at \$124,480 (item 1) and E. E. Black, Honolulu, at \$119,320 (item 2).

SAN DIEGO, Cal.—As previously reported, George Hess, 434 S. Westmoreland Ave., Los Angeles, submitted the low main bid to the Eleventh Naval District at San Diego on Oct. 12, at \$66,900 for extension to building No. 27, Naval Operating Base, San Diego; Specification No. 7427. Basing award on proposal No. 2 or proposal No. 4, Milton C. Shedd, 1132 Stearns Dr., Los Angeles, would be the low bidder. Bids exceeded the appropriation and no recommendation has been made as yet. The addition will cover an area of 100x180 feet and will have concrete foundations, structural steel frame, steel roof trusses, corrugated iron exterior, brick work, steel windows, steel doors, plastering, plumbing, electrical work and fire protection. The bids follow:

George Hess, (1) work complete, \$66,900, (2) omitting fire protection, deduct \$4000, (3) omitting two wing racks, deduct \$3000, (4) omitting south half of extension, deduct \$22,000.

Milton C. Shedd, (1) \$67,900; (2) \$5925; (3) \$120; (4) \$23,950.

M. H. Golden, (1) \$68,846; (2) \$5000; (3) \$2775; (4) \$23,174.

B. O. Larsen, (1) \$69,163; (2) \$5200; (3) \$4000; (4) \$21,000.

Lynch-Cannon Engineering Co., (1) \$69,740; (2) \$4850; (3) \$2700; (4) \$23,250.

B. F. Campbell Building Co., (1) \$70,430; (2) \$5765; (3) \$3150; (4) \$25,710.

W. E. Kier Constr. Co., (1) \$73,195; (2) \$5537; (3) \$3822; (4) \$27,355.

Associated Constructors, (1) \$84,698 (2) \$5500; (3) \$2500; (4) \$28,060.

MARE ISLAND, Cal.—Malott & Peterson, 20th and Harrison Sts., San Francisco awarded contract at \$1236 by Public Works Officer, U. S. Navy Yard, Mare Island, for magnesite flooring and base in portions of building No. 74 and filling house at Mare Island. Specification No. 7442.

HAMILTON FIELD, Marin Co., Cal.—Until October 30, 1 P. M., bids will be received by Constructing Quartermaster, Hamilton Field, San Rafael, to construct one quartermaster maintenance building and one quartermaster salvage warehouse at Hamilton Field. Plans and specifications available from above office upon deposit of

\$10. Plans may be seen at the Builders' Exchange, 666 Mission St., San Francisco, or at the Constructing Quartermaster's Office, Fort Mason.

HELENA, Mont.—Berger Manufacturing Co., 1129 Mission St., San Francisco, at \$512.41 awarded contract by Treasury Supply Division to furnish steel shelving in the U. S. Postoffice at Helena, Mont. Proposal No. 636.

SAN FRANCISCO—Geo. Rehn, 1919 Mission St., at \$9289 submitted low bid to Constructing Quartermaster, Fort Mason, for changing present hot water heating system in the Ninth Corps Area Headquarters Building, Presidio, San Francisco, to a vacuum steam heating system.

- (1) total cost.
- (2) Thermostatic radiation valves;
- (3) radiator valves;
- (4) radiators installed.

Following bids received:

George Rehn	(1) \$ 9,289.00
	(2) 12.00
	(3) 2.00
	(4) 1.50
Oscar Aaron	(1) \$ 9,550.00
	(2) 14.00
	(3) 2.75
	(4) .75
Herman Lawson.....	(1) \$ 9,810.00
	(2) 15.00
	(3) 2.00
	(4) .45
Frederick Snook	(1) \$ 9,905.00
	(2) 12.50
	(3) 3.00
	(4) 2.00
A. Harper	(1) \$11,383.00
	(2) 14.00
	(3) 2.50
	(4) 1.50
M. J. Reeves Heating Co..	(1) \$12,213.00
	(2) 12.00
	(3) 2.00
	(4) 1.50
Adrian Ramazzotti.....	(1) \$12,300.00
	(2) 12.00
	(3) 1.92
	(4) .25

Bids held under advisement.

PORTERVILLE, Tulare Co., Cal.—Herring Hall Marvin Safe Co., 214 California St., San Francisco, at \$641 awarded contract by Treasury Supply Division to furnish one safe in the Porterville Postoffice. Proposal No. 629.

PORTERVILLE, Tulare Co., Cal.—Following bids received by Treasury Supply Division to furnish metal shelving in the Porterville Postoffice. Proposal No. 1676.

Lyon Metal Products Co., 582	Market St., San Francisco.....	\$317.99
Interior Steel Equipment Co.....		326.75
Penn Metal Co.		344.00
Berger Mfg. Co.		374.00
Jamestown Metal Equipment Co.		391.86
Globe-Wernicke Co.		454.00

Bids under advisement.

SACRAMENTO, Cal.—W. F. McCrea Co., 731 E. 8th St., Oakland, at \$2344.31 awarded contract by Treasury Supply Division to furnish venetian blinds in the U. S. Postoffice, Sacramento. Proposal No. 214.

Plans Being Figured—Bids Close Oct. 25, 1933, 11 A. M.

BARRACKS BLDGS. Cost, \$—

FORT LEWIS, Washington.

Two 2-company barracks buildings (to house 100 men each).

Owner—United States Government.

Plans by Constructing Quartermaster's Office, Fort Lewis (Capt. R. A. Blair, Quartermaster).

Bids are being taken for a general contract. Plans and specifications may be obtained by prospective bidders at the offices of the construction quartermaster upon deposit of \$25.

7—FEDERAL BUILDING

SAN RAFAEL, Marin Co., Cal.—As previously reported, until October 23, 2:00 P. M., bids will be received at the office of the Constructing Quartermaster, Hamilton Field, San Rafael, for construction of one- and two-story concrete and tile guard house and fire station including firemen's dormitory, guards' dormitory, fire truck room, ambulance room and cell room.

The contract includes excavation, wood and concrete piles (composition piles), reinforced concrete, brick and building tile, cast stone, dampproofing, structural steel, miscellaneous iron and steel, steel casement windows, steel detention windows, fixed steel windows, steel door frame, kalamein doors, steel lockers, hose rack, cell construction, brass slide pole, brass pipe rails, brass angle curbs, safety treads, bronze thresholds, insect screens, tubular steel window and wood door frames, copper screen cloth, Mission tile roofing, metal lath and plaster, Tennessee or Florence Brand marble, standard mosaic floor tile, battleship linoleum, hardware, painting, glazing, plaster walls, plumbing, bath, shower and lavatory fixtures, water heater, gas-fired hot water heating system, electrical work.

Specifications obtainable from the above on deposit of \$10 and on file at the office of the Constructing Quartermaster, Fort Mason, and at the office of the PACIFIC CONSTRUCTOR. PACIFIC CONSTRUCTOR.

SAN DIEGO, Cal.—Geo. Hess, 434 S. Westmoreland Ave., Los Angeles, at \$66,900 submitted lowest bids to the Public Works Officer, Eleventh Naval District, San Diego, for extension to Building No. 27, Naval Operating Base, San Diego; Specification No. 7427.

The work consists in general of a 100 by 180-foot building extension and includes concrete, steel and iron work, brick work, steel windows and doors, plaster work, carpentry, plumbing fixtures, electrical systems and fire protection.

Three low bidders were as follows: Geo. Hess, 434 S. Westmoreland Ave., Los Angeles, \$66,900.

Milton C. Shedd, Los Angeles, \$67,900

M. H. Golden, San Diego, \$68,846.

Complete list of bids will be reported later.

(2745) 1st report Sept. 27; 2nd Sept. 28, 1933.

Call For Bids Cancelled—Plans To Be Revised.

OFFICERS' QTRS. Cost, \$154,327

FORT LEWIS, Washington.

Two 4-family company officers' apartment houses (20 non-commissioned officers' quarters).

Owner—United States Government. Plans by Constructing Quartermaster's Office.

Call for bids has been cancelled by Capt. R. A. Blair, Constructing Quartermaster, Fort Lewis, pending receipt of revised plans for Washington. A new date for opening bids will be announced shortly.

SUNNYVALE, Santa Clara Co., Cal.—Until October 25, 11 A. M., bids will be received by the Public Works Officer, 12th Naval District, 100 Harrison St., San Francisco, under Spec. 7466 for the construction of office, shop and quarters for the S. S. S. Macon, in the airship hangar at Sunnyvale. Work includes concrete curbing, steel and iron work, metal glass partitions, wire mesh partitions, steel doors, steam heating, electrical work and painting. Plans are obtainable from the above office on deposit of \$5.

Plans Being Figured—Bids Close Nov. 7, 1933, 3 P. M.

FEDERAL BUILDING

Total Cost, \$2,689,000
SAN FRANCISCO. Civic Center.

Six-story and basement reinforced concrete Federal office building (granite exterior, terra cotta court lining, promenade, terrazzo & tile flooring, mastic tile floors in offices, steam heating, seven elevators, etc.)

Owner—United States Government.
 Architect—Arthur Brown, Jr., 251 Kearny Street.

Mechanical Engineer—Leland & Haley 58 Sutter Street.

Structural Engineer—C. H. Snyder, 251 Kearny Street.

Plans are obtainable from the Supervising Architect's Office at Washington, D. C., on deposit of \$50.00 certified check, made payable to Treasurer of the United States.

PEARL HARBOR, T. H.—Following have obtained copies of Spec. No. 7094 from the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for extension of foundry at the Navy Yard, Pearl Harbor. Bids open Nov. 15:

- Westinghouse Elec. and Mfg. Co., Washington, D. C.
- Truscon Steel Co., Investment Bldg., Washington, D. C.
- Shepard-Niles Crane & Hoist Corp., Mifflin east of Front St., Philadelphia.
- Ederer Engr. Co., 2945 First Ave. South, Seattle, Wash.
- McClintic-Marshall Corp., Bethlehem, Pa.
- Cleveland Crane & Engr. Co., 525 Calvert Bldg., Baltimore, Md.
- Whitney Corp., N. E. Cor. Lathrop Ave. and 157th St., Harvey, Ill.
- () 1st report Sept. 25, 1933. 7

FT. MACARTHUR, San Pedro, Cal.—Until 11 A. M., October 30, bids will be received by the Constructing Quartermaster, Fort MacArthur, San Pedro for the construction of eight double sets of non-commissioned officers' quarters at Fort MacArthur. Estimated cost, \$112,500. Plans will be available some time next week, when further information will be published.

SAN DIEGO, San Diego Co., Cal.—B. O. Larsen, 1340 E St., San Diego, at \$30,958 awarded contract by Navy Department, Washington, D. C., for constructing a heating plant building and chimney at the Naval Operating Base (Air Station). Spec. 7415. 7

8— CLUB BUILDINGS

Planned.
CLUB Cost, \$—
SANTA CRUZ, Santa Cruz Co., Cal.
 De Laveaga Park.
 Rod and gun club (banquet room, kitchen, dressing rooms, etc.)
 Owner—Santa Cruz Rod & Gun Club.
 Architect—Not Given.
 Financing arrangements are under

APTOS, Santa Cruz Co., Cal.—Aptos Chamber of Commerce approved plans for rebuilding the community hall in Aptos. President H. H. Rhodes stated that money required for construction work will be advanced by a unnamed person. Further details will be announced later.

9— HOSPITALS

Contract Awarded.
BOILER ROOM AND BOILER
 Cost, \$5169
RENO, Washoe Co., Nevada. State Hospital Site.
 Extension to boiler room and installation of a new boiler (Mental Diseases Building).

Owner—State of Nevada.
 Architect—F. J. Longchamps, Gazette Bldg., Reno.
 Contractor—J. C. Dillard, 805 S. Virginia St., Reno.
 Complete list of bidders, all of Reno:
 J. C. Dillard.....\$5169.00
 Wine & Williams..... 2373.00
 Davis & Lathrop..... 5900.00
 W. J. Boudwin..... 5922.41
 Wm. Kennedy 6116.00
 Wilbur & Luhrs..... 6395.00

Taking Sub-Bids.
HOSPITAL Cost, \$12,000
SAN MATEO, San Mateo Co., Calif.
 El Camino Real and El Cerrito Avenues.

Two-story frame and stucco medical building.
 Owner—Dr. Alan Benner, 27 San Mateo Drive, San Mateo.

Architect—Leo Sharps, 1477 Burlingame Ave., Burlingame.
 Contractor—Langfeld & Olund, 220 3rd Ave., San Mateo.

Building will contain office, laboratories, a minor operating room, and one or two rooms to take care of emergency patients.
 (271) 1st report Sept. 21; 2nd, Oct. 2, 1933.

Preparing Plans.
HOSPITAL BLDG. Cost, \$40,000
SACRAMENTO, Sacramento Co., Cal.
 County Hospital Grounds.

One-story and basement concrete and brick women's home building.
 Owner—Sacramento County.
 Architect—Harry J. Devine, California State Life Bldg., Sacramento.
 Federal aid will be applied for.

Preparing Plans.
CLINIC BLDG. Cost, \$30,000
SACRAMENTO, Sacramento Co., Cal.
 County Hospital Grounds.

One-story and basement concrete and brick clinic building.
 Owner—Sacramento County.
 Architect—Harry J. DeVine, California State Life Bldg., Sacramento.
 Federal aid will be applied for.

Bids Wanted—To Close November 14, 2 P. M.

HOSPITAL Cost, \$—
CAMARILLO, Ventura Co., Cal.
 Three two-story reinforced concrete hospital buildings (units 2, 3 and 4) reinforced concrete walls, foundations, floors and roofs.
 Owner—State of California.
 Architect—Geo. B. McDougall, State Architect, Public Works Building, Sacramento.

SAN LUIS OBISPO, Calif.—County Supervisors have under consideration improvements to be made at the general hospital. It is planned to overhaul boilers, radiators and equipment and install a heating system in the insane ward.

10— HOTELS

Contract Awarded.
IMPROVE HOTEL Cost, \$6000
STOCKTON, San Joaquin Co., Cal. E Weber Avenue.

Alterations and additions to Stockton Hotel (18 new showers, 12 new toilets, painting, papering, etc.)

Owner—McDonough Estate Co., San Francisco.

Architect—Not Given.
 Contractor—O. H. Chain, 41 S Sutter St., Stockton.

Lessee—J. Beauty, Stockton Hotel, Stockton.

HOTEL Cost, \$20,000
MARYSVILLE Yuba Co., Cal. No. 424 Fifth Street.

Rebuild fifth floor (32 rooms) of five-story reinforced concrete and brick hotel which was recently destroyed by fire.

Owner—Marysville Hotel.
 Architect—Charles Dean, California State Life Bldg., Sacramento.
 Engineer—C. A. Worden, Marysville Hotel, Marysville.

Mill Work—Davis Iardwood Co., Bay and Mason Sts., San Francisco, at \$1485.

Cabinet Work—Diamond Match Co., Chico, at \$790.

Painting—Zwanck's Paint Shop, Yuba City, at \$1122.

Plumbing and Heating & Sheet Metal Frank Booth, Marysville, at \$7395.

Electric—Con Franke, 748 E. Weber St., Stockton, at \$3977.

Carpentry—Chell & Triplett, Marysville, at \$3200.

Plastering—H. Brooks, Chico, at \$3350.

Tile—H. P. Fischer Tile & Marble Co., 1219 Jay St., Sacramento, at \$607.

12— POWER PLANTS

LOS ANGELES, Cal.—Wm. Davidson, Los Angeles county mechanical engineer, Hall of Records, has been authorized to prepare plans for an extension to the power house at the General Hospital, 1100 Mission Road.

**13— PUBLIC BUILDINGS
 FIRE HOUSES & JAILS**

LAKEPORT, Lake Co., Cal.—C. E. Beach, Lakeport, awarded contract at \$243 by Fred H. Merritt, County Clerk, for furnishing material and construction of concrete steps at the front of the Court House building at Lakeport.

The only other bid received was from Heidler & Woodward of Lakeport at \$330.

Prospective Bidders.
MEMORIAL BLDG. Cost, \$—
SAN LEANDRO, Alameda Co., Cal.
 Bancroft Ave. near Estudillo.

Two-story reinforced concrete Veterans' memorial building (100x125 ft.); tile roof, steam heating system.

Owner—County of Alameda.
 Architect—Henry H. Meyers, Kohl Bldg., San Francisco.

E. T. Lesure, 87 Ross Circle, Oakland.

Lindgren & Swinerton, Inc., Standard Oil Bldg., San Francisco.

George Swanstrom, 1615 78th Ave., Oakland.

F. C. Stolte, 3449 Laguna St., Oakland.

George Petersen, 1841 Bancroft Ave., San Leandro.

E. Swenstrom, San Jose.
 Sjoberg & Son, 632 Call Bldg., San Francisco.

E. T. Leiter & Son, 811 37th St., Oakland.

K. E. Parker, 135 South Park, San Francisco.

Val Franz & Son, 666 Mission St., San Francisco.

Schuler & McDonald, Inc., 1723 Webster St., Oakland.

A. Cederborg, 1045 Excelsior Blvd., Oakland.

Sub-Contractors
 Western Ornamental Iron Work.
 Robert D. Fearey.
 Maxwell Hardware Co.
 Scott Co.
 Edgar W. Anderson Co.
 Herrick Iron Works.

Bids are being taken for a general contract. Plans may be obtained from the Clerk on deposit of \$50, certified check or cash. Five days will be allowed for bidders to return plans, if not bidding, without forfeiting deposit. General contractors will be allowed to keep plans 15 days. Bids close October 24, 10:30 A. M.

FOLSOM, Sacramento Co., Cal.—Golden State Iron Works, 1541 How-

ard St., San Francisco, at \$5829 awarded contract to construct cell fronts and miscellaneous iron work at the Folsom Prison. Complete bids published October 11.

STOCKTON, San Joaquin Co., Cal.—J. F. Ecker, 17 W Poplar St., Stockton, at \$2,475 awarded contract at \$2,475 for cleaning and painting all outside metal and wood work of the county courthouse, Stockton. Following bids received:
 J. F. Ecker, Stockton..... \$2,475
 Patterson Bros., Berkeley..... 3,200
 A. H. Davies, Stockton..... 3,475
 Wm. Anderson & Co., Stockton.....

SAN FRANCISCO—Asbestos Company of California, 475 Stevenson St., at \$58 awarded contract by Board of Public Works for repairs on No. 17 Engine House, on Mission St., bet. Fifth St. and Mint Ave.

SAN FRANCISCO—Until October 30, 12 Noon, bids will be received by H. Simpson, Secretary, Library Commissioners, San Francisco Public Library, Civic Center, for general construction of the special wood finish, wainscot, etc., to be installed in the main branch of the San Francisco Public Library in the Civic Center. Plans and specifications available from Architect Harry A. Thomsen Jr., 315 Montgomery St., upon deposit of \$25.00. Certified check in the amount of \$10% of amount bid required.

OROVILLE, Butte Co., Cal.—County Supervisors awarded contract to F. M. Savage, Oroville, at \$455.55 to modernize old equipment and plumbing in the county jail. Work involves installation of new toilets and pipes and general improvements.

SAN FRANCISCO—Until October 25, 2:30 P. M., informal bids will be received by S. J. Hester, Chief Deputy Director, Board of Public Works, City Hall, for shelving in Room 457, City Hall (law library). Estimated cost, \$500.

14— RESIDENCES

Contract Awarded.
 RESIDENCE Cost, \$6000
 SACRAMENTO, Sacramento Co., Cal. 2178 Fourth Ave.
 One - story and basement frame and stucco residence (6 rooms).
 Owner—H. M. Skidmore, 2195 Fourth Ave., Sacramento.
 Architect—Not Given.
 Contractor—E. A. Corum, 2665 Donner St., Sacramento.

October 19, 1933
 Lumber Contract Awarded.
 RESIDENCE Cost, \$15,000
 SAN FRANCISCO, Forest Hill.
 Two-story frame and brick veneer residence (8 rooms and 4 baths).
 Owner—Albert Gallenkamp.
 Architect—Edw. E. Young, 2002 California St., San Francisco.
 Lumber—Christensen Lumber Co., Fifth and Hooper Sts., San Francisco.

As previously reported, concrete work awarded to D. Seghieri & Co., 35 Cook St.

Segregated bids are being taken on other parts of the work.

Sub-Contracts Awarded.
 RESIDENCE Cost, \$—
 SAN MATEO, San Mateo Co., Calif. Baywood Park.
 1½-story frame and stucco residence (7 rooms, 2 baths) tile roof, gas heating system, interior stucco and canvas, tiled baths & kitchen.
 Owner—A. L. Scott, 244 Staten Street, San Mateo.
 Architect—Harold Stoner, 810 Ulloa St. San Francisco.

Contractor—E. S. Shaver, 2600 Easton Drive, Burlingame.
 Heating—Atlas Heating Co. San Francisco.
 Plumbing—A. H. Dittmann, Burlingame.
 Electric Wiring—Mausser Electric Co., Burlingame.
 Mill Work—Nelson & Shirkey, Burlingame.
 Lumber—Wisnom Lumber Co., Burlingame.
 Cement Work—G. Bragato & Co., San Mateo.
 Steel Sash—Soule Steel Co., San Francisco.
 Ornamental Iron—H. Braunicke, San Mateo.
 Roofing—United Roofing Co., San Francisco.
 Sheet Metal—Gaffigan Sheet Metal Co. San Mateo.
 Painting—Frank Hanson, San Francisco.
 Plastering—Frank H. Le, San Francisco
 Tile—Thomas J. Lamey & Son, San Francisco.
 Glass and Glazing—W. P. Fuller & Co. San Francisco.
 Hardwood Floors—Acme Floor Co. San Francisco.
 Screens—Roll - away Window Screen Co., Berkeley.
 Stair Work—P. O. Lind, Inc., San Francisco.

SAN FRANCISCO—Empire Roofing Co., 261 Silver Ave., at \$598.31 (Excelsior School) and \$600 (Franklin School) and Alta Roofing Co., 976 Indiana St., at \$567 (Hillcrest School) awarded contracts by Board of Public Works for roofing on following schools:

- (1) Remove present roofing and lay a new 5-ply tar and gravel roof at the Excelsior School, Excelsior Ave. and Linden Street. Est. cost, \$700.
- (2) Remove present roofing and lay a new 5-ply tar and gravel roof at the Franklin School, Eighth St., between Harrison and Bryant Sts. Est. cost, \$725.
- (3) For laying new roof of felt shingle over present shingle roof of main building at Hillcrest School, Silliman and Cambridge Sts. Est. cost, \$725.

Complete bids follow:

ITEM 1	
Empire Roofing Co.....	\$598.31
Alta Roofing Co.....	638.00
J. W. Bender Roofing Co.....	644.00
Jack Johnson	722.00
ITEM 2	
Alta Roofing Co.....	\$586.00
Empire Roofing Co.....	600.83
J. W. Bender Roofing Co.....	681.00
Jack Johnson	811.00
ITEM 3	
Alta Roofing Co.....	\$567.00
Empire Roofing Co.....	772.00
Jack Johnson	778.00

To Be Done By Day's Work.
 LANDSCAPING, ETC. Cost, \$—
 PALO ALTO, Santa Clara Co., Calif. 100 Edgewood Drive.
 Landscaping, planting, walks, arbor, fountain, etc., in connection with residence.
 Owner—L. S. Gurley, 10 Edgewood Dr. Palo Alto.
 Landscape Architect—Horace G. Cotton, Call Bldg., San Francisco.

Sub-Contracts Awarded.
 RESIDENCE Cost, \$20,000
 HILLSBOROUGH, San Mateo Co. Cal.
 Two - story and basement frame and stucco residence (13 rooms and 4 baths) English type, slate roof, gas heating system, hardwood floors.
 Owner—Nathan Rothman.
 Architect—Hyman & Appleton, 68 Post St., San Francisco.
 Contractor—Jacks & Irvine, Call Bldg. San Francisco.

Tile—Sunset Tile Co., 2219 Irving St., San Francisco.
 Metal Windows & Doors—Soule Steel Co., 1750 Army St., San Francisco.
 Stairs—E. D. Philbrick, 41 Sheridan St., San Francisco.
 Mill Work—Anderson Bros. Planing Mill, Quint and Custer Sts., San Francisco.
 Glass—W. P. Fuller & Co., 301 Mission St., San Francisco.
 Roofing—Alta Roofing Co., 976 Indiana St., San Francisco.

Permit Applied For.
 RESIDENCE Cost, \$7500
 PALO ALTO, Santa Clara Co., Calif. 1716 Fulton St.
 Two-story frame and stucco residence
 Owner—H. H. Dabinett, 1402 Parkinson Ave., Palo Alto.
 Architect—Not Given.

BEVERLY HILLS, Los Angeles Co., Cal.—Thomas C. Sellers, 862 Rome Dr., Los Angeles, has been awarded a contract for the construction of a two-story, frame, stucco and brick veneer, 22-room residence at 1035 Cove Way for David O. Seznick. It will contain 6 tiled baths, four maids' rooms, study, projection room, living room, morning room, dining room, sleeping porch, 4-car garage, motor shed, etc. It will cover an area of 100x46 feet; brick veneer and plaster exterior, shake roofing, hardwood floors and trim, flagstone walks, gas unit heating system, steel and wood sash, ornamental iron stair rails, electric plate warmer, electric range, electric motors and fans, cement work, etc. Plans were prepared by Architect Roland Coate, 701 Architects' Bldg., Los Angeles. Cost is estimated at \$75,000. 14

Contract Awarded.
 RESIDENCE Cost, \$—
 OAKLAND, Alameda Co., Cal. Sunnyside Road.
 Two-story frame and stucco residence (7 rooms and 2 baths).
 Owner—C. J. Benz, 3486 34th Avenue, Oakland.
 Architect—Miller & Warnecke, Financial Center Bldg., Oakland.
 Contractor—Olaf Peterson, 3626 Rhoda St., Oakland.

Contract Awarded.
 RESIDENCE Cost, \$6500
 ATHERTON, San Mateo Co., Cal.
 Two-story and basement frame Colonial style residence (7 rooms and 2 baths) and garage.
 Owner—E. P. Gerth, Amador Avenue, Atherton.
 Architect—Williams & Wastell, 374 17th St., Oakland.
 Contractor—F. A. Kurtz, 364 41st St., Oakland.
 Shingle roof, oil burning heating system, tile, etc.

Contract Awarded.
 RESIDENCE Cost, \$4000
 SAN FRANCISCO, E Webster St. 77 S Beach.
 Two-story and basement frame residence.
 Owner—G. Ovviani, care builder.
 Contractor—Risdon Bros., 1324 Portola Drive.

Low Bidders Refiguring.
 COUNTRY RESIDENCE Cost, \$5000
 MONTE RIO, Sonoma Co., Cal.
 Seven-room frame rustic residence (2 baths).
 Owner—Withheld.
 Architect—Ray Keefer, 770 Wesley St. Oakland.
 The following two low bidders are now refiguring the plans: A. T. Beckett, 224 Scenic Ave., Piedmont; Schrock & Swindler, Sebastopol. (2754) 1st report Sept. 30, 1933.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$6000
HILLSBOROUGH, San Mateo Co., Cal. No. 1808 Floribunda Road. Extensive alterations to residence (new stairs, addition of rooms, heating, plumbing, redecoration, etc.)
 Owner—Dr. J. C. Flowers, Premises.
 Architect—Leo J. Sharps, 1477 Burlingame Ave., Burlingame.
 Contractor—Jacks & Irvine, 74 New Montgomery St., San Francisco.
Stairs—J. Di Cristina & Son, 3150 18th St., San Francisco.
Heating and Plumbing—A. H. Dittmann, 1109 California Drive, Burlingame.

Construction Postponed — Prices Too High.
RESIDENCE Cost, \$10,000
SAN FRANCISCO. E San Pablo Ave. N Yerba Buena.
 Two - story and basement frame and stucco residence (8 rooms, 3 baths) slate roof, gas hot air heating system, tiled baths, hardwood floors.
 Owner—John B. King.
 Architect—Martin Rist, Phelan Bldg.
 Construction has been indefinitely postponed on account of sudden raise in materials, making bid too high. (2239) 1st report July 25; 5th, Sept. 15, 1933.

Sub-Contracts Awarded.
RESIDENCE Cost, \$5500
SAN FRANCISCO. N Belgrave St. E of Stanyan St.
 Two - story and basement frame and stucco residence (Italian style; 5 rooms).
 Owner—Miss M. Malone, 555 Buena Vista Avenue.
 Architect—Harold Stoner, 200 Castro.
Concrete Work — Paramount Concrete Co., 375 Wheeler St.
Lumber—Smith Lumber Co., Fourth and Channel Streets.
 Sub-bids are being taken by the owner for other parts of the work.

Sub-Contracts Awarded.
ALTER RESIDENCE Cost, \$6000
SAN FRANCISCO. 611 Camino del Mar, (Sea Cliff).
 Alterations and additions to frame and stucco residence.
 Owner—J. H. Threlkeld, Matson Bldg.
 Architect—Bertz, Winter & Maury, 210 Post Street.
 Contractor—Jacks & Irvine, Call Bldg.
Plastering—G. Martinelli & Company.
Hardwood Floors—Royal Floor Co., 7th and Brannan Ets.
Tile—Art Tile & Mantel Co., 221 Oak.
Roofing—W. J. Anderson.

FRESNO. Fresno Co., Calif.—Until Oct. 27, bids will be received by the Division of Purchase, Sales and Traffic, Department of Agriculture, Washington, D. C., to construct superintendent's residence in Fresno. Proposal No. 5014.

Sub-Contracts Awarded.
RESIDENCE Cost, \$8500
PIEDMONT, Alameda Co., Cal. Piedmont Pines.
 Two - story and basement frame and stucco residence.
 Owner—Wm. H. Green, 1242 Trestle Glen Road, Oakland.
 Designer—F. L. Confer, 2812 Russell St., Berkeley.
 Contractor—F. W. Confer, 2800 Shasta Road, Berkeley.
Excavating—Elmer Morrill, 259 Mandalay Road, Berkeley.
Concrete—Axel A. Johnson, 1280 Monterey Ave., Berkeley.
Lumber—Tilden Lumber Co., foot of University Ave., Berkeley.
 (2726) 1st report Sept. 23; 2nd, Oct. 5, 1933.

Sub-Contracts Awarded.
RESIDENCE Cost, \$25,000
PIEDMONT, Alameda Co., Calif. On Sandringham Road.
 Two-story frame and stucco residence, English style with slate roof (12 rooms, 4 baths and 3-car garage).
 Owner—F. W. Gibson.
 Architect—Williams and Wastell, 374 17th St., Oakland.
 Contractor—W. E. Lyons, 354 Hobart St., Oakland.
Lumber—Tilden Lumber Co., foot of University Ave., Berkeley.
Mill Work—Oakland Planing Mill, 2nd and Washington, Oakland.
Electric Work—Fred Schmidt, 428 Moss Ave., Oakland.
Plastering—F. M. Clausen, 819 Santa Rey, Oakland.
Roofing—General Roofing Co., Beach and Halleck, Oakland.
Painting—W. H. Pollard, 522 Grand Ave., Oakland.
Hardwood Floors—F. C. Thrall, 3006 Santa Clara, Oakland.
Tile—Rigney Tile Co., 3012 Harrison St., Oakland.
 Heating, concrete work, glass, etc., will be awarded shortly.
 (2729) 1st report Sept. 26, 1933.

Contracts Awarded.
SCHOOL Cost, \$14,737
COALINGA, Fresno Co., Cal. Present high school site.
 Owner—Board of Trustees of Coalinga Union High School District.
 Architect—W. D. Coates Jr., 626 Rowell Bldg., Fresno.
 Contractor—R. P. Moore, 3662 Verne Ave., Fresno.
Plumbing and Heating—Hansen's, 609 10th St., Modesto, \$1,730.
 (2748) 1st report Sept. 26; 4th, Oct. 14, 1933.

Construction Postponed.
ALTERATIONS Cost, \$—
HILLSBOROUGH, San Mateo County, Cal. Easton Drive.
 Alterations and additions to two-story and basement frame residence (add rooms, new plumbing, heating, wiring, mill work, etc.)
 Owner—Paul I. Fagan, Hillsborough.
 Architect — Arthur Brown Jr., 251 Kearny St., San Francisco.
 Young & Horstmeyer, 461 Market St., submitted lowest bid at approximately \$80,000, when bids were opened Sept. 6.

Bid Opening Postponed Until October 23, 11 A. M.
RESIDENCE Cost, \$8000
SAUSALITO, Marin Co., Cal.
 Two-story frame Colonial type residence (6 rooms and 3 baths).
 Owner—Dr. Russell Ryan, 909 Hyde St., San Francisco.
 Architect — R. H. Bickel, Crocker Bldg., San Francisco.
 Fred DuPuy, 110 Sutter St., San Francisco, is figuring the plans and desires sub-bids on all portions of the work.

To Be Done By Day's Work.
RESIDENCE Cost, \$6000
OAKLAND, Alameda Co., Cal. No. 4339 Harboard Drive.
 Two-story frame, stucco and brick residence.
 Owner—Robert J. Barr, 596 Chetwood St., Oakland.
 Architect—Not Given.
 Contract Awarded.

RESIDENCE Cost, \$6500
SAN FRANCISCO. E Nineteenth Ave. 100 S Anza Street.
 Two-story and basement frame and stucco residence.
 Owner—Miss Cope, 1957 McAllister St., San Francisco.

Architect—A. J. Loufect, 2641 Dwight Way, Berkeley.
 Contractor—F. Warden, 1675 8th Ave., San Francisco.

Contract Awarded.
RESIDENCE Cost, \$6000
SAN JOSE. Santa Clara Co., Cal. No. 720 Chapman Street.
 Two-story frame and stucco residence (7 rooms).
 Owner—Supreme Grand Lodge of A. M. O. R. C., 1342 Naglee Ave., San Jose.
 Architect—Not Given.
 Contractor—Paul Anderson, 1210 Lincoln Ave., San Jose.

October 18, 1933
 To Be Done By Day's Work.
RESIDENCE Cost, \$—
LAKEPORT, Lake Co., Cal.
 One - story and basement frame residence (6 rooms, 2 baths).
 Owner—Henry Eickhoff, Mills Building, San Francisco.
 Architect—Bakewell and Weihe, 251 Kearny St., San Francisco.

Heating Contract Awarded.
RESIDENCE Cost, \$12,000
ROSS, Marin Co., Calif.
 One - story and basement frame and brick veneer residence (6 rooms) redwood shake roof, oil hot air heating system, hardwood floors, bath, etc.
 Owner—Victor E. Kleven.
 Architect—W. W. Wurster, 260 California St., San Francisco.
 Contractor—Young & Horstmeyer, 461 Market St., San Francisco.
Heating—Aladdin Heating Co., 5107 Broadway, Oakland.
 Other awards previously reported.

15— SCHOOLS

Complete List of Bids—All Bids Rejected.
SCHOOL BLDG. Est. Cost, \$3000
COALINGA, Fresno Co., Calif. Sunset school site.
 One-story frame and stucco kindergarten with patent shingle roof.
 Owner—Board of Trustees, Coalinga Grammar School District.
 Architect—W. D. Coates, Jr., 626 Rowell Bldg., Fresno.
 L. Ubels, Ripon\$4 620
 R. P. Moore, Fresno 4.658
 Jolly & Harrington, Fresno..... 4.914
 W. T. Harris, Fresno 5.090
 R. Pedersen, Fresno..... 5.455
 (2749) 1st report Sept. 26; 3rd, Oct. 13, 1933.

Plans Awaiting Approval.
SCHOOL Cost, \$20,000
RICHMOND, Contra Costa Co., Calif.
 Rebuilding and reinforcement of Roosevelt Junior High School.
 Owner—Richmond Union High School District.
 Architect—Louis Stone, 98 Ramona St., Piedmont.
 Plans have been forwarded to Sacramento for approval. An emergency measure is planned to omit advertising for bids, so work may be started by local men immediately after approval of plans.

Complete Bid Listing.
SCHOOL Cost, \$15,000
COALINGA, Fresno Co., Cal. Present High School Site.
 One-story reinforced concrete Junior College Building (3 rooms); tile roof.
 Owner—Board of Trustees of Coalinga Union High School District.
 Architect — W. D. Coates Jr., 626 Rowell Bldg., Fresno.
General Contract
 R. P. Moore, 3662 Verne Ave., Fresno\$16,187

Jolly & Harrington, Fresno.....	16 220
L. Ubels, Ripon.....	16,350
W. T. Harris, Fresno.....	16,430
R. Pedersen, Fresno.....	17,570
W. J. Ochs, Fresno.....	17,760

Plumbing and Heating

Hansen's, 609 10th St., Modesto \$1791	
Barrett-Hicks Co., Fresno.....	1953
B. A. Newman, Fresno.....	2466

Bids were taken under advisement.

CARMEL, Monterey Co., Cal.—The Board of Education of Carmel plans improvements to schools to make the structures earthquakeproof as near as possible. Approximately \$10,000 will be expended.

October 14, 1933

Ready For Bids Soon.

SCHOOL Cost, \$150,000
VANCOUVER, Washington.

Four-story reinforced concrete and brick school building, 150x150 feet (15 classrooms, auditorium, 90x100 feet, etc.)

Owner—Vancouver High School Dist. Architect—W. F. Higgins, Terminal Sales Bldg. and Donald J. Stewart of Seattle.

Separate bids will be asked for general construction, plumbing, heating, wiring, equipment, and ventilation. A vacuum vapor heating system and complete air conditioning system is to be installed.

Preparing Plans.

SCHOOL Cost, \$10,000
GRASS VALLEY, Nevada Co., Cal.

One-story Class C reinforced concrete shop building for school (3 room). Owner—Grass Valley High School District.

Architect—Frederick H. Reimers, 233 Post St., San Francisco.

Plans will be ready for bids in about thirty days.

SAN FRANCISCO—Until October 25, 2:30 P. M., informal bids will be received by S. J. Hester, Chief Deputy Director, Board of Public Works, City Hall, to lay Pabco industrial black mastipave on roof of Jean Parker School on Broadway, between Powell and Mason Sts. Estimated cost, \$1000

SACRAMENTO, Cal.—The following bids received by Board of Education to raze the two-story and basement frame and stucco school located on north side of Fourth Ave. bet. 38th and 39th Sts., known as the Stanford Junior High School:

Chas. Markell, Sacramento.....	\$520
Cut Rate Wrecking Co.....	350
Capital Lumber Co.....	225

Contracts Awarded.

MEDICAL SCHOOL BLDG.

Cont. Price, \$31,673

SAN FRANCISCO. University of California Site, Second and Parnassus Avenues.

(1) complete interior of sixth and seventh floors; (2) laboratory furniture; (3) linoleum; (4) grading and paving around building.

Owner—Regents of the University of California, Berkeley.

Architect—W. C. Hays, Crocker-First National Bank Bldg., S. F.

Contractor—Lindgren & Swinerton, 225 Bush St., San Francisco.

Linoleum—Venor Co., 36 Sacramento St., \$2639.

Furniture—R. Brandlein & Co., 2141 Bryant St., \$7990.

Grading—Fay Improvement Co., Phelan Bldg., \$4577.

FLAGSTAFF, Ariz.—Arizona State Teachers' College will apply to the Public Works Administration for a loan of \$120,000 to finance the construction of a new dining hall and dormitory building on the college campus at Flagstaff.

SACRAMENTO, Cal.—Fort Jones Elementary School District, Sacramento, has applied to the Public Works Administration for a grant of \$4700 to be used in financing the construction of a three-classroom school building. The district has \$11,000 on hand. Starks & Flanders, Bank of America Bldg., Sacramento, are the architects.

OAKLAND, Cal.—Until October 26, 1933, bet. 8 and 9 P. M., bids will be received by the City Clerk of Oakland for furnishing 7000 license tax plates and 3,000 inserts.

SAN FRANCISCO.—Meyer Rosenberg, 1755 San Bruno Ave., at \$120 per 100 cu. yds. submitted low bid to T. A. Brooks, Purchaser of Supplies, 270 City Hall, for furnishing 4000 yards loam for Park Department, under Bid No. 1089. Complete bids follow:

(A) Meyer Rosenberg, San Francisco, \$120 per 100 cu. yd., 1 day delivery.

(B) L. Devincenzi & Co., 148 Blake St., San Francisco, \$161 per 100 cu. yd., 1 day delivery.

(C) Devincenzi Bros., 150 Collins St. San Francisco, \$175 per 100 cu. yd., 10 days delivery.

ANAHEIM, Orange Co., Cal.—Anaheim Elementary School District, at a recent meeting, discussed the possibility of obtaining a government loan for the construction of a new school building on the south side site in Anaheim. No action was taken.

PASADENA, Los Angeles Co., Cal.—Pasadena Board of Education has commissioned architects to prepare plans and specifications for repairing school buildings in Pasadena as follows:

Bennett & Haskell, 311 First Trust Bldg., Pasadena; James Madison Elementary School, \$107,393.

Marston & Maybury, 25 S. Euclid Ave., Pasadena; Thomas Jefferson Elementary School addition, \$65,000; Andrew Jackson Elementary, \$112,860; Henry W. Longfellow School, \$108,800; San Rafael elementary school, \$20,000.

PETALUMA, Sonoma Co., Cal.—Petaluma Board of Education has instructed School Supt. David M. Durst to secure estimates of the cost of installing additional outlets in connection with the fire escapes in the gymnasium building.

Commissioned To Prepare Plans.

LIBRARY Cost, \$—
MODESTO, Stanislaus Co., Cal. Junior College.

Library unit for the Modesto Junior College.

Owner—Modesto Junior College Dist. (C. Shackelford, president of the board).

Architect—J. J. Donovan, 950 Parker St., Berkeley.

LOS ANGELES, Cal.—Los Angeles board of education has commissioned structural engineers to prepare plans and specifications, including analyses, structural design computations and estimates of cost for the repairing, reconstructing and reinforcing of school buildings as follows:

Blaine Noice, 5436 Carlton Way, Gardena high school.

R. McC. Beanfield, 615 Chamber of Commerce Bldg. Torrance high school.

C. J. Derrick, 2021 Kenilworth Ave., Angeles Mesa school.

David H. Merrill, 124 W 4th Street, Figueroa Street school.

Blake E. Beatty, 2830 San Marina St., Fries Avenue school.

John S. Ferguson, 1463 Reeves St., Gage Avenue school.

Donald F. Shugart, 1770 N Vermont Ave., Wilmington Park school.

16—BANKS, STORES AND OFFICES

Sub-Contracts Awarded.

OFFICE BLDG. Cost, \$—
SOUTH SAN FRANCISCO, San Mateo Co., Cal. On Tanloran Ave. One-story frame office building, 18x38 feet.

Owner—American Brake Shoe and Foundry Co., 74 New Montgomery St., San Francisco.

Engineer—K. Theill, 580 Market St., San Francisco.

Contractor—Cahill Bros., 206 Sansome St., San Francisco.

Millwork—South City Lumber Supply Co., South San Francisco.

Lumber—Loop Lumber Co., Central Basin, San Francisco.

Composition Sheet Roofing—Alta Roofing Co., 976 Indiana St., San Francisco.

Sheet Metal Work—R. J. Neilan, 39 Isis St., San Francisco.

Glass—Habenicht & Howlett, 529 Clay St., San Francisco.

(6) 1st report Nov. 1, 1932; 9th Oct. 4, 1933.

Contracts Awarded.

STORES Cost, \$—
SAN FRANCISCO. 626 Market Street. Interior finish for stores.

Owner—Crocker Estate, 525 Crocker Building.
Architect—Kent and Hass, Underwood Building.

Lessee—A. G. Spaulding & Brother. Contractor—S. Kulchar & Co., 731 E 10th St., Oakland.

Architects have awarded the following contracts in connection with the improvement:

Floor—Van Fleet-Freear Co. 557 Howard Street.

Awnings—J. L. Stewart Company.

Light Fixtures—Boyd Light Fixture Co., 278 Post St.

Exterior Signs—O. M. Robinson, 281 Natoma Street.
(2721) 1st report Sept. 23; 3rd, Oct. 11, 1933.

Work Started.

ALTERATIONS Cost, \$—
VALLEJO, Solano Co., Cal. 432 Georgia Street.

Alter and add to basement store. Owner—Crowley's, 432 Georgia Street, Vallejo.

Architect—Not Given.
Excavation has been started.

Contract Awarded.

STORE Cost, \$—
VALLEJO, Solano Co., Cal. 520 Carolina Street.

One-story concrete store building. Owner—E. V. Uffleman, 520 Carolina St., Vallejo.

Architect—Not Given.
Contractor—Geo. Barenchi, 921 Kentucky St., Vallejo.

Segregated Bids Being Taken.

ALTERATIONS Cost, \$20,000
SAN FRANCISCO. SW Battery and Pine Streets.

Extensive alterations to 6-story Class B store and loft building.

Owner—Michael Donohoe Estate. Mgr. of Const.—Frederick H. Whitton, 369 Pine Street.

Lessee—Pacific Greyhound Lines, 9 Main Street (lessees of basement and first three floors).

As previously reported, elevator contract awarded to Otis Elevator Co., 1 Beach Street.

Preparing Plans.

MARKET Cost, \$20,000
SAN FRANCISCO. Broadway near Stockton Street.

One-story Class C reinforced concrete market (35x137); composition roof, tile floors, glass, steel sash, electric refrigeration, etc.
 Owner—Withheld.
 Architect—C. O. Clausen, 746 46th Avenue.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$18,000
SAN FRANCISCO. 239 Geary Street. Alterations to loft bldg. (frame construction).

Owner—J. Brickell Co., % contractor. Architect—Hyman & Appleton, 68 Post Contractor—Jacks & Irvine, Call Bldg. **Linoleum**—Venor Co., 36 Sacramento Street.

Painting—D. Zelinsky, 165 Grove St. **Mill Work**—Brannan Street Planing Mill, 560 Brannan St.

Plumbing and Heating—E. Sugarman, 3624 Geary Street.
 Other awards previously reported.

Contract Awarded.
ADDITION Cost, \$5000
SACRAMENTO, Sacramento Co., Cal. No. 715 J Street.
 Additional work for office building.
 Owner—California Western States Life Insurance Co., Sacramento.
 Architect—Not Given.
 Contractor—Campbell Constr. Co., 800 R St., Sacramento.

Planned.
REMODEL Cost, \$2000
STOCKTON, San Joaquin Co., Cal. No. 506 E. Main Street.
 Remodel building.
 Owner—A. W. Simpson, 41 E. Oak St., Stockton.
 Architect—Not Given.
 Contractor—Lewis & Green, Bank of America Bldg., Stockton.

Contract Awarded.
ALTERATIONS Cost, \$—
SAN JOSE, Santa Clara Co., Cal. Julian Street.
 Alter present store building.
 Owner—John Bean Mfg. Co., 217 West Julian St., San Jose.
 Architect—Wm. Higgins, 19 N 2nd St., San Jose.
 Contractor—Henry Bridges, 1398 Lincoln St., San Jose.

Construction of a new one-story reinforced concrete building has been abandoned and the present building will be altered.

Contract Awarded.
MARKET Cost, \$60,000
PORTLAND, Ore. NE First & Washington Streets.
 One-story and basement, and mezzanine floor building (electrical refrigeration and storage quarters.)
 Owner—M. K. Jones, 4th and Alder Sts., Portland.
 Architect—Sutton & Whitney, Lewis Bldg., Portland.
 Contractor—Drake, Wyman & Voss, U. S. National Bank Bldg., Portland.

Plans Being Revised.
EDUCATION BLDG. Cost, \$40,000
BERKELEY, Alameda Co., Cal. Dana St. and Bancroft Way.
 Two-story Class C concrete educational buildings.
 Owner—Trinity Methodist Church.
 Architect—George Rushforth, 21 San Mateo St., Berkeley.

It is expected to ask bids in about thirty days.

Contract Awarded.
ADDITION Cost, \$10,000
SACRAMENTO, Sacramento Co., Cal. No. 2630 Fifth Street.
 Addition to market.
 Owner—Sacramento Farmers Market
 Architect—W. E. Coffman, Forum Bldg., Sacramento.

Contractor—Chas. Mabrey, 2123 36th St., Sacramento.

To Be Done By Day's Work.
RESTAURANT Cost, \$5000
SAN FRANCISCO, NW Fifteenth St. and Potrero Ave.
 Two-story and basement frame restaurant.

Owner—A. Vetter Sons, 198 Potrero Ave., San Francisco.
 Engineer—H. Helbing, 1310 Lombard St., San Francisco.

17— THEATRES

CHICO, Butte Co., Cal.—M. A. Naify of the T & D Jr. Co., of San Francisco, has been in Chico inspecting the Senator and National theatres to consider improvements to both show houses.

18— WHARVES & DOCKS

Completing Plans.
PIER Cost, \$700,000
SAN FRANCISCO. Pier No. 19, Foot of Filbert Street.

Reinforced concrete pier to replace present structure and a steel frame shed with timber sides and composition roof.

Owner—State of California (Harbor Board, Ferry Bldg.)
 Engineer—Frank G. White, Ferry Bldg., San Francisco.

To Call For Bids Shortly.
WHARF Cost, \$110,000
SAN FRANCISCO. Piers 44 and 46, Foot of Berry Street.
 Reinforced concrete wharf.
 Owner—State of California Harbor Commission, Ferry Bldg., San Francisco.
 Engineer—Frank C. White, Ferry Bldg., San Francisco.

Planned.
YACHT HARBOR Cost, \$—
SAUSALITO, Marin Co., Calif. Yacht harbor.
 Owner—Albert von der Werth, et al. Sausalito.
 Architect—Willis Polk Co. (Angus McSweeney, architect), 269 Pine St., San Francisco.
 Engineers—White & Squires.

SAN RAFAEL, Marin Co., Cal.—Until October 30, 11:15 a. m., bids will be received at the office of the Constructing Quartermaster, Hamilton Field, San Rafael, for construction of a creosoted wood dock at Hamilton Field, Marin Co., Cal.

Plans and specifications obtainable at above office upon a deposit of \$5, and on file at the office of the Constructing Quartermaster, Fort Mason, San Francisco.

19—MISC. CONSTRUCTION

MARE ISLAND, Calif.—Thomas J. Doyle, 1527 17th Ave., San Francisco, at \$15,957 awarded contract by Navy Department, Washington, D. C., for furnishing and installing oil tanks under Spec. No. 7416. 19

SAN DIEGO, San Diego Co., Calif.—Chicago Bridge & Iron Works, 608 S Hill St., Los Angeles, at \$34,450 were awarded contract by the Navy Department, Washington, D. C., for improving fuel oil storage at the Naval Operating Base (Fuel Dspot), San Diego. Spec. No. 7333.

YERBA BUENA ISLAND, Cal.—T. L. Rosenberg Co., 411 Webster Street, Oakland, at \$966 awarded contract for erection of power line and other electrical work at the Yerba Buena Light Station, Yerba Buena Island, San Francisco Bay.

Blds Opened.
CROSS Cost, \$—
SAN FRANCISCO. Mt. Davidson. Reinforced concrete cross, 100 feet high (500 cu. yds. concrete).
 Owner—Golden Gate Park Commission (For Sunrise Easter Service Committee).

Architect—George W. Kelham, 315 Montgomery St., San Francisco.
 Engineer—H. J. Brunnler, Sharon Bldg., San Francisco.

Webster Jeffers, 425 Bosworth St., San Francisco\$ 8,942
 Monson Bros., San Francisco..... 11,850
 Val Franz, San Francisco..... 12,327
 De Luca & Son, San Francisco 12,480
 Young & Horstmeyer, S. F..... 13,344
 D. W. Ross..... 13,888
 H. L. Peterson, S. F..... 13,891
 M. E. Vukicevich, S. F..... 13,973
 Barrett & Hilp, S. F..... 14,291
 Fred J. Early, San Francisco.... 15,451
 S. Rasori, S. F..... 15,488
 Anderson & Ringros, S. F..... 15,748
 MacDonald & Kahn, S. F..... 15,851
 S. F. Constr. Co., S. F..... 15,968
 C. W. and H. H. Haun, S. F..... 17,100
Commercial Constr. Co...... 18,386
 29, 1933.

EUREKA, Humboldt Co., Cal.—Until October 31, 11 A. M., bids will be received by the Public Works Officer, Navy Yard, Mare Island, for improvements—fire protection at the U. S. Naval Radio Station, Eureka, (Table Bluff), Calif., under Specifications No. 7501. Work involves, excavating, furnishing and laying all pipes and fittings, backfill and furnishing of hose cabinets, etc. Plans may be obtained on a deposit of \$5, check or money order payable to the Chief of the Bureau of Yards and Docks. A. L. Parsons, Chief of Bureau.

Permit Refused.
RACE TRACK & BLDGS. Cost, \$—
BERESFORD, San Mateo Co., Calif. Curtis Wright Airport Site.
 Concrete grandstand to seat 7,500; clubhouse, stables, 2 tracks, outer and inner, for trotting races (to be known as "Bay Meadows").
 Owner—California Jockey Club, Peter B. Kyne, President (Wm. P. Kyne 1945 Broadway, San Francisco, will be in charge of races.)
 Architect—Not Given.
 Permit filed by Arnold C. Lackenbach, attorney, with the California Horse Racing Board for a license has been refused.

Permit Granted—Plans To Be Completed.
RACE TRACK \$750,000 to \$1,350,000
SAN MATEO COUNTY. 150 acres of Spring Valley land facing Sloat Blvd. near the San Francisco Golf Club.

Race Track.
 Owner—St. Francis Jockey Club, headed by Chas. Strub and associates, Seals Stadium, Sixth and Bryant Sts., San Francisco.

Architect—Miller & Pfueger, 580 Market St., San Francisco.

The State Racing Commission has granted a permit to conduct a horse race track.

Among those identified with the organization are Kenneth Kingsbury, president of the Standard Oil Co.; Felix McGinnis, vice-president of the Southern Pacific; Robert O'Dell, president of the Pacific States Savings & Loan Co.; Cliff Weatherwax, wealthy lumberman; W. C. Van Antwerp, Alfred Swinerton, Athol McBean and Miss Marion Hollins, former national golf champion.

A steeplechase course will be constructed in the infield at the new track.

Plans Being Figured—Bids Close Oct. 26th.

MAUSOLEUM Cost, \$20,000
TAFT, Kern Co., Calif.
 Reinforced concrete mausoleum with tile roof (164 crypts, 14 urn receptacles, chapel and office).

Owner—West Side Cemetery District, Fourth Road District Headquarters Bldg., Taft.

Architect—Charles H. Biggar, Habersfelde Bldg., Bakersfield.

The chapel will have a tile floor and Travertine plaster walls with a marble base. Crypt sections will be built of gray Alaska marble with quarry tile floor.

H. R. McGray of Taft, submitted the lowest bid at \$15,000 in March, at which time construction was postponed.

MODESTO, Cal.—The Modesto City Council has authorized formal application for a loan under the NRA for funds for building a \$40,000 incinerator. An outright grant of 30% of the cost will be asked. Harold Rogers, Public Works Commissioner, and Frank J. Rossi, City Engineer.

SAN FRANCISCO—D. C. McCabe, Call Bldg., at \$62,80 awarded contract by Board of Public Works to construct stairway six feet wide on east side of Taylor street, between Pine and California Sts.

RENO, Nevada — City Council has abandoned the plan to convert the Reno Golf and County Club into a municipal golf course. Work was estimated to cost \$70,000.

Planned.
SWIMMING POOL Cost, \$30,000
WOODLAND, Yolo Co., Cal. City Park, bet. Oak and Cross Sts.
 Swimming pool (capacity of 200,000 gallons of water) filtration system, etc. (locker rooms, bleachers and sand beach).

Owner—City of Woodland.
 Engineer—Frank A. Hill, % Frank L. Morris, President Chamber of Commerce, Woodland.

Federal aid will be asked to help finance the construction.

ORLAND, Glenn Co., Cal. — Until November 6, 8 P. M., bids will be received by E. W. Parlin, City Clerk, to clean by sand blast and two coats of paint on Municipal water tank at Orland.

POINT REYES, Marin Co., Calif.—Until October 31, at 11 A. M., bids will be received at the office of the Public Works Officer, Navy Yard, Mare Island, for construction of radio masts at the U. S. Naval Direction Finder Stations at Point Reyes and Point Montara, Specification No. 7521 obtainable from Commandant, Mare Island, on deposit of \$5.00.

LOS ANGELES, Calif. — Raymond Cannon and Earl Carlwin, motion picture directors of Los Angeles, propose repairing existing buildings at the northeast corner of Aliso and Los Angeles Sts. for the use of Chinese residents of Los Angeles. Estimated cost of the improvements is \$100,000. Most of the existing Chinatown is to be razed to make way for the new Union railway terminal.

PEARL HARBOR, T. H.—Until December 6, 11 A. M., bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., for landscaping at the Ammunition Depot at Pearl Harbor. Specification No. 7334.

PEARL HARBOR, T. H. — Until Dec. 13, 11 A. M., bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., to construct fleet moorings at Pearl Harbor. Estimated cost \$500,000. Specification No. 7093.

PEARL HARBOR, T. H. — Until Nov. 29, 11 A. M., bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., to furnish gate houses at the Ammunition Depot, Pearl Harbor. Estimated cost, \$30,000. Specification No. 7055.

RIVERSIDE, Cal. — Henry L. A. Jekel, 5063 Magnolia Ave., Riverside, completing plans for a new wing to be added to Neighbors of Woodcraft Home on Magnolia Ave. Riverside. Construction is scheduled to start within a few weeks, but whether the work will be handled by contract or day labor has not yet been determined. Plans provide for a four-story reinforced concrete and steel structure, containing 172 rooms and costing approximately \$180,000, exclusive of equipment. An alternate plan contemplates a structure containing 156 rooms and costing \$150,900. Funds for improvements available. Mrs. Minnie Hiner, chairman.

CHOLLAS HEIGHTS, Cal.—The following is the list of prospective bidders for painting radio towers at the Naval Radio Station, Chollas Heights, under Spec. 9391. Bids will be received until November 1 by the Bureau of Yards and Docks, Navy Department, Washington, D. C.:

National Decorating Service, 4035 Michigan Ave., Chicago.

Ralph C. Day, 3510 NE Schuyler St., Portland, Ore.

A. R. Means, 135 E Day St., Jacksonville, Fla.

Carlson Painting Co., 30 Church St., New York City.

Central Contracting Co. Union Trust Bldg., Pittsburgh.

T. R. Hanff & Co., Real Estate Bldg. Philadelphia.

SACRAMENTO, Cal.—Bush Roofing Co., 1912 K St., Sacramento, at \$1074 awarded contract by State Architectural Department to re-roof portion of State Armory in Sacramento. Complete bids published Sept. 28.

POINT VINCENT, Cal. — Pacific System Homes, 5800 Boyle Ave., Los Angeles, awarded contract by Commandant, U. S. Coast Guard, Washington, at \$13,811.85 (including fence), for erection of radio station building and garage at Point Vincent. Radio building will be a two-story, frame and stucco structure, 65 x 32 feet in area. Garage will be one-story, 21x 35 feet.

CATALINA ISLAND, Cal.—Architects Bennett & Parsons, Chicago, have submitted plans to the regional planning commission for a mausoleum to be erected on Catalina Island for the William Wrigley Jr., estate. It will be a reinforced concrete structure, 60x50 feet in area, with an 80-foot tower. Estimated cost \$100,000.

Planned.
PAVILION Cost, \$6000
EUREKA, Humboldt Co., Calif.
 Dance and social pavilion (90x150 ft.)

timber structure, maple floors, dressing rooms, kitchen, etc.

Owner—Eureka Volunteer Fire Dept. (Wm. Walker, chief).

Architect—Not Given.
SAN RAFAEL, Marin Co., Cal.—Chas. M. Davis, Paradise, Calif., at \$8900 submitted low bid to Construct-

ing Quartermaster, Hamilton Field, to salvage buildings at Mather Field, Sacramento (material to be cleaned and painted and delivered to Hamilton Field). Only other bid submitted by Leibert & Trobeck, San Francisco, at \$13,600.

FORTS BARRY & BAKER, Marin Co., Cal.—Following bids received by the Office of the Harbor Defense Quartermaster, Fort Winfield Scott, for Item I: Replacing water and sewer mains, etc.; Item II: Repairs to electric distribution system; Item III: Reconditioning roads at Forts Barry and Baker:

(A) City Improvement Co., 2626 Harrison St., Oakland, Item I: \$4,214; Item II, \$5,425.

(B) American Electric Sign Co., 1740 Eddy St., San Francisco, Item II: \$5,898.

(C) Eureka Electric Radio Co., 3469 Mission St., San Francisco, Item II: \$6,150.

(D) Globe Electric Co., 15th and Mission Sts., San Francisco, Item II: \$5,985.

(E) Herman Lawson Co., 465 Tehama St., San Francisco, Item I: \$15,500.

(F) N. C. Nicklassen, 49 Downey St. San Francisco, Item II: \$8,787.

(G) Baldwin & Butler, 620 Cragmont Ave., Berkeley, Item I: \$5,787.

(H) H. C. Reid & Co., 389 Clementina St., San Francisco, Item II: \$5,999.

(I) Severin Electric Co., 172 Clara St., San Francisco, Item II: \$6,949.

(J) F. W. Snook Co., 596 Clay St., San Francisco, Item I: \$5,434.

(K) H. S. Tittle Co., 85 Columbia Square, San Francisco, Item II, \$6,739.

(L) James Currie, 1100 Peninsular Ave., Burlingame, Item I: \$4,950.

(M) Pacific States Const. Co., 708 Call Bldg., San Francisco, Item III: \$7,325.

(N) Ariss-Knapp Co., 961 41st St., Oakland, Item III: \$5,495.

SAN DIEGO, Cal.—R. G. Meyler Corp., 408 S. Spring St., Los Angeles, at \$61,370 (using steam boilers) awarded contract by Bureau of Yards and Docks, to furnish and install heating plant boilers and equipment at the Naval Operating Base, San Diego. Specification No. 7422.

POINT HUENEME, Cal. — H. O. Bauerle, 9039 Washington Blvd., Culver City, submitted low bid to the Eleventh Naval District, San Diego, at \$421 for constructing pump house and air mark at the Navy Direction Finder Station, Point Hueneme; Specification 7463. Work consists of constructing one-story wood frame pump house, approximately 11 feet square, and painting an air mark on an existing building roof.

FORT MASON, Cal.—Following bids received for the construction of an underground electric system at Ft. Mason:

(1) completion of Sects. A, B, & C;
 (2) completion of Sects. C & D;
 (3) sections A, B, C, & D, complete.

Severin Electric Co., (1) \$7,890; (2) \$6,280; (3) \$14,000.

Scott-Buttner, (1) \$7,444; (2) \$7,267; (3) \$14,711.

A. Soda & Son, (1) \$8,292; (2) \$6,996; (3) \$15,288.

Eureka Elec. Radio Co., (1) \$7,885; (2) \$7,592; (3) \$15,477.

G. H. Armstrong, (1) \$7,950; (2) \$7,650; (3) \$15,600.

H. S. Tittle, (1) \$8,395; (2) \$7,889; (3) \$16,284.

H. C. Reid, (1) \$8,420; (2) \$7,900; (3) \$16,320.

Globe Elec. Works, (1) \$8,280; (2) \$8,330; (3) \$16,610.

G. M. Gest, (1) \$9,830; (2) \$7,930; (3) \$17,700.

20—MISC. SUPPLIES AND MATERIALS

SAN FRANCISCO—Tay - Holbrook Co., 165 8th St., at \$142.50 submitted low bid and was awarded contract by U. S. Forest Service, Ferry Bldg., to furnish thirty Sibley tent stoves. Following is a complete list of bids:

- (A) 30 camp stoves;
(B) 150 joints 4-in. stove pipe;
(C) 4-in. elbows.

Tay-Holbrook, San Francisco, (A) \$142.50; (B) \$18.50; (C) \$7.00.

Mangrum-Holbrook Co., San Francisco, (A) \$150.00; (B) \$14; (C) \$5.

OAKLAND, Cal.—California Chemical Corp., Newark, Calif., at \$3356.25 awarded contract by East Bay Municipal Utility District, for furnishing quick-lime and hydrated lime as needed by the District during period ending June 30, 1934.

BREMERTON, Wash.—Until Oct. 31, 10 A. M., bids will be received by the Supply Officer, Puget Sound Navy Yard, Bremerton, Wash., for furnishing under Req. 154 No. NSA, 21,600 lbs. glue, Marine (Ship) in 300 lb. barrels. Specifications obtainable from above office.

SACRAMENTO, Cal.—Until Nov. 7, 3 P. M., bids will be received by the U. S. Engineer Office, Calif. Fruit Bldg., Sacramento, Capt. J. G. Drinkwater, District Engineer, for sale of the following supplies and materials: Anchors, Blocks, Cylinders, Post, Drill, "old man," batteries, vises, winches, rubber boots, air hose, fire hose, discharge hose, oxy-acetylene hose, suction hose, rope, rubber dredge sleeves, auto tires, clocks, calpines, counter-sink, fire extinguishers, gages, saws, stoves, watches, pipe joints, casting patterns, discharge pipe, pumps, auto starter, scrap brass, scrap copper, scrap iron and steel, slip scrapers, propellers, transformers, and milling machine.

All articles may be inspected at the U. S. Engineer Storehouse, grounds and wharf, Rio Vista, Calif. Complete schedule on file at the office of PACIFIC CONSTRUCTOR.

BREMERTON, Wash.—Until Oct. 25 and 27, 10 A. M., as listed below, bids will be received by the Supply Officer, Puget Sound Navy Yard, Bremerton:

October 25, Requisition No. 141 NSA:

12 sets reamers, taper-pin, straight-shanks, square ends, fluted, in sets, number of tapers in set 0 to 10 incl.

October 25, Requisition No. 141 NSA:

240 files, American-Standard, half-round, second cut, length (point to shoulder) 6-in.

October 27, Requisition No. 141 NSA:

1284 wrenches.

Specifications obtainable from above office.

BREMERTON, Wash.—Bids will be received by the Supply Officer, Puget Sound Navy Yard, Bremerton, under date and requisition number listed as follows:

Oct. 27, 10 A. M., Requisition No. 141 NSA:

30 bits; 36 gauges; 60 nippers; 900 pliers; 2400 rules; 7 sets scrapers; 2-040 screw drivers; 204 nail sets, and 15 trowels.

Oct. 30, 10 A. M., Requisition No. NIRA 14:

2 metal spray machines; 1 booth for metal spraying equipment.

Specifications obtainable at above office.

SAN FRANCISCO—Molvany Sign Co., 574 8th St., Oakland, awarded contract of \$.0475 each by the U. S. Forest Service, Ferry Bldg., for furnishing 8250 wooden camp ground signs, 2½x18x¾-in. painted in forest green letters on white background.

PANAMA CANAL ZONE—Until Oct. 27, bids will be received by the General Purchasing Officer, the Panama Canal, Washington, D. C., for 38 pieces of creosoted yellow pine piling and quantities of floor tile and base and floor and wall tile.

PANAMA CANAL ZONE—Until October 31 bids will be received by the General Purchasing Officer, the Panama Canal, Washington, D. C., for furnishing cast iron pipe, brass gate valves, flap valve, hose gate valves, check valve, cast iron pipe fittings, screw cast brass pipe fittings, malleable iron pipe fittings, cast iron strainer, steel machine bolt and 4,416 ft. cypress lumber, under Schedule No. 2912.

SAN FRANCISCO.—Tay - Holbrook Co., 165 8th St., submitted lone bid at \$81.19 and awarded contract by U. S. Forest Service, Ferry Bldg., for furnishing 500-ft. black wrought iron pipe 1½-in., and miscellaneous tees, ells and plugs.

NAVY YARDS.—Bids are wanted on dates shown below, by the Bureau of Supplies and Accounts, Navy Department, Washington, D. C., for miscellaneous supplies, as follows:

October 24

Mare Island—1,900 ft. wrought iron pipe, and 9,700 ft. welded steel pipe; sch. 824.

East & West yards—1 electric truck; sch. 889.

October 27

Mare Island—15 portable ventilating sets; sch. 877.

Puget Sound—20 portable ventilating sets; sch. 877.

Mare Island—575 storage batteries; sch. 882.

Mare Island—5,000 screw anchor shackles; sch. 838.

Mare Island—10 rolls templet paper; sch. 829.

Mare Island and San Diego—Magnesia pipe covering and asbestos magnesia plaster; sch. 840.

Mare Island—7,000 lbs. spun oakum; sch. 841.

October 31

Mare Island—30 electric searchlights and spares; sch. 883.

Mare Island—500 metallic-ladder treads, aluminum alley; sch. 872.

SAN FRANCISCO.—Henry Cowell Lime & Cement Co., 2 Market St., at \$1.75 per bbl., f.o.b. Port Chicago, awarded contract by U. S. Forest Service, Ferry Bldg., for furnishing 40 tons of Portland cement.

LOS ANGELES, Cal.—Riverside Cement Co., 621 S Hope St., at \$63,000.00 (\$2.10 bbl.) awarded contract by the Los Angeles County Supervisors for furnishing 30,000 barrels of portland cement, to be used in construction of San Gabriel Dam No. 1.

FORT MASON, Cal.—Until October 26, 10 A. M., bids will be received by the Quartermaster Supply Officer, San Francisco General Depot, Fort Mason, for furnishing under Circular No. 928-34-78 Misc. the following supplies: (1) 24 1½-in. brass wash trap plugs; (2) 10 boxes brass faucet screws and nuts;

- (3) 12 urinals;
(4) 500 lbs. granulated insulating cork;
(5) 400 hose assemblies to fit 2½-gal fire extinguishers;
(6) 100 Badger type extinguishers;
(7) 100 Bayol and Acme type do;
(8) 100 Vulcan type do;
(9) 100 Metropolitan type do;
(10) 300 glass acid bottles, round, 8 ounce;
(11) 4 globe valves for ammonia, 1½-inch;
(12) 46 chemical fire extinguishers.

SAN FRANCISCO—Keeler White Co., 1149 Howard St., awarded contract by T. A. Brooks, Purchasing Agent, for furnishing under Bid No. 1086 wrought steel galvanized water pipe as follows: (1) 35,000 ft. ¾-in. at \$5.64 per cu. ft.; (2) 2,000 ft. 1-in. at \$7.87 per cu. ft.; (3) 2000 ft. ½-in. at \$4.58 per cu. ft. Delivery to be made within 45 days.

HAWTHORNE, Nevada.—Following contracts awarded by Captain J. F. Greene, District Quartermaster, Sacramento, for furnishing materials to be used in erecting buildings at Hawthorne, Nev., C.C.C. Camp:

I. H. Kent Co., lumber, \$6731; I. M. Sommer Co., San Francisco, hardware, \$481, millwork, \$965; Zellerbach Paper Co., building paper, \$37.83, wall felt, \$184.27, roofing felt \$303.87, floor covering, \$253; Dallman Supply Co., Sacramento, plumbing and sheet metal, \$120; I. M. Sommer Co., San Francisco, electrical, \$120, heaters, \$152.

MONTEREY COUNTY, Calif.—Following contracts awarded by Capt. — T. Sallee, District Quartermaster, Monterey, for furnishing building materials to be used in erecting Big Sur C.C.C. Camp:

Union Supply Co., Monterey, lumber, \$6800.74; Oakland Sheet Metal Supply Co., Oakland, hardware, \$425, plumbing and sheet metal, \$510, heating stoves, \$352.40; Roper & Dabadie, Santa Cruz, millwork, \$575; C. A. Borchers & Son, Pacific Grove, building paper, roofing felt, floor covering, \$727.77; Langlais Electric Co., Pacific Grove, electrical, \$98.



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RAY MAXWELL, Manager

HOTEL
PLAZA
POST STREET AT STOCKTON
SAN FRANCISCO

ENGINEERING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

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26.—Railroads	35.—Tunnels
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21— BRIDGES

APACHE & NAVAJO COUNTIES, Ariz.—Dell E. Webb Const. Co., Phoenix, at \$15,367 awarded contract by the Bureau of Public Roads, Washington, D. C., for constructing a railroad overpass on Petrified Forest Routes 1 and 2, Petrified National Forest, Apache and Navajo counties.

APACHE & NAVAJO COUNTIES, Ariz.—Whiting Bros., St. Johns, Ariz., at \$37,202 awarded contract by U. S. Bureau of Public Roads, Phoenix, to construct two bridges.

ORANGE COUNTY, Cal.—State Highway Commission, Sacramento, has cancelled the call for bids on the construction of a reinforced concrete girder bridge across the Santa Ana River at Buaro St., consisting of seven 50-ft spans on concrete piers with pile foundations and grading and surfacing approaches in Orange Co.

TULARE COUNTY, Cal.—Mittry Bros. 5531 Downey Road, Los Angeles, at \$222,711.25 awarded contract by U. S. Bureau of Public Works, San Francisco, to grade Section C, General Grant-Sequoia Park Approach Road, Sequoia - National Forest, approximately 3.367 miles.

SAN FRANCISCO.—Western Iron Works, 141 Beale St., has been awarded contract by Terminal Company, San Francisco, for steel work on the bridge over Federal St. between Rincon and Second Sts., to connect the warehouses of the company. Construction of bridge is by day labor under supervision of Ellison & Russell, Pacific Bldg., engineers, for the owners. Estimated cost, \$2,000.

LAKE COUNTY, Cal.—C. E. Beach, Lakeport, at \$1647.50 submitted low bid to the Lake County Board of Supervisors for the construction of a bridge at Detert Lake in Supervisorial District No. 1. Estimated cost, \$1500. Fred S. Wilson, county engineer.

VENTURA COUNTY, Cal.—Kovacevich & Price, Southgate, at \$30,454.50 awarded contract by State Highway Commission, Sacramento, to widen pavement with Portland cement concrete about 1.6 miles between the west city limits of Ventura and Sanjon Road.

OREGON STATE—Until October 25, 9 A. M., bids will be received by the Oregon State Highway Commission, R. H. Baldock, State Highway Engineer, in the Multnomah Hotel, Portland, for the following work:

HARNEY COUNTY—Two bridges on

Central Oregon Highway near Drewsey. Work requires approximately 1450 lin. ft. treated piling, 16 MFBM treated lumber, and 321 lin. ft. treated trestle superstructure.

JEFFERSON COUNTY—One bridge over Deschutes River, and two bridges over Shitike Creek on Warm Springs Highway near Madras. Work requires approximately 250 cu. yds. excavation; 590 lin. ft. treated piling; 560 cu. yds. concrete; 79,600 lbs. metal reinforcement; 356,000 lbs. structural steel, 17 MFBM treated lumber, and 1018 lin. ft. concrete handrail.

MALHEUR COUNTY—One bridge and approximately 1.18 mi. of grading and surfacing on Jordan Valley Secondary Highway near Nyssa. Work requires approximately 1000 lin. ft. treated piling; 10 MFBM treated lumber; 233 lin. ft. treated trestle superstructure; 23,000 cu. yds. excav., and 60 lin. ft. 24-in. pipe.

Plans and specifications may be obtained from the office of the State Highway Commission, Room 322, State Office Bldg., Salem, Oregon, on deposit of \$5.00 for each set.

FRESNO COUNTY, Cal.—W. T. Harris, 577 McKinley Ave., Fresno, at \$3327 awarded contract by County Board of Supervisors, Chris. P. Jensen, County Surveyor, for the construction of a bridge on Butler Ave. near Fresno, involving 16,070 B. M. lumber and 124.80 cu. yds. reinf. conc. Complete bids were:
W. T. Harris, Fresno.....\$3327
M. Maesen, Fresno..... 3660
Engineer's Estimate 3700
The bids were opened October 12.

ARIZONA STATE.—Until Oct. 31, 2:30 P. M., bids will be received by T. S. O'Connell, State Highway Engineer, Arizona State Highway Commission, Phoenix, for bridge construction on the Benson-Douglas Highway, N.R.H. 79-C. The work, which is located about 9½ miles south of the town of Tombstone, consists of the construction of a timber bridge, approaches, and road guard, and is to be completed on or before Jan. 31, 1934. The principal items are:

- (1) 2,400 cu. yds. borrow excav.;
- (2) 1,030 lin. ft. road guard CIP;
- (3) 125 cu. yds. struc. excav.;
- (4) 50 MBM treated timber CIP;
- (5) 3 MBM untreated timber CIP;
- (6) 1,200 lin. ft. treated timber piles;
- ALTERNATE:
- (7) 57 MBM redwood timber CIP.

Plans and specifications obtainable from above office.

ARIZONA STATE—Phoenix-Tempe Stone Co., Box 1645, Phoenix, second low bidder at \$41,668.65 awarded contract by Arizona State Highway Commission, Phoenix, for highway con-

struction on the Benson-Vail Highway, NRH 18-G. The work is located approximately 12½ miles west of Benson and consists of a railroad overpass and approaches and is to be completed on or before February 28, 1934.

LOS ANGELES, Cal.—Kovacevich & Price, Inc., 5400 Imperial Highway, Southgate, at \$43,474.50 awarded contract by State Highway Commission, Sacramento, for constructing an undergrade crossing in Los Angeles County under the tracks of the S. P. Railroad, 1½ miles east of El Monte, consisting of two concrete abutments, with wing walls, installing irrigation and drainage systems and grading and paving approximately 0.4 mi. roadway with Portland cement concrete.

SAN LUIS OBISPO COUNTY—Until October 30, 2 P. M., bids will be received by L. H. Gibson, District Engineer, District V, State Highway Commission, San Luis Obispo, for the widening of a reinforced concrete bridge in San Luis Obispo County, at Sta. 764+46.5 south city limits of San Luis Obispo (V-SLO-2-E). Plans and specifications obtainable from above office.

MENDOCINO COUNTY, Cal.—Rocca & Calletti, Box 243, San Rafael, at \$25,393 awarded contract by the State Highway Commission, Sacramento, to construct an overhead crossing over the tracks of the North-western Pacific Railroad near Hopland, consisting of one 32-ft. steel beam span on concrete piers, three 27-ft. and twelve 19-ft. timber stringer spans on pile bents and frame bents with concrete pedestals.

KERN COUNTY, Cal.—Oscar Oberg, 150 N. Vista St., Los Angeles, at \$55,286 awarded contract by State Highway Commission, Sacramento, to construct an overhead crossing over the tracks of the Southern Pacific Company, 5 mi. north of Bakersfield at Oil Junction, consisting of six 61-ft. and two 25-ft. steel girder spans.

SAN DIEGO COUNTY, Calif.—Until November 8, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for widening two reinforced conc. girder bridges, each having a span of approximately 32 ft., between Oceanside and Carlsbad, in San Diego County, involving:

- (1) 450 cu. yds. struc. excavation;
- (2) 32 cu. yds. existing concrete to be removed and disposed of;
- (3) 1,576 lin. ft. fir Douglas fir piles, including test piles;
- (4) 54 each driving Douglas fir piles, including test piles;
- (5) 150 cu. yds. Class A Port. cement concrete footing blocks;
- (6) 220 cu. yds. Class A Port. cement concrete, structures;
- (7) 30,250 lbs. bar reinf. steel;
- (8) 224 lin. ft. solid timber railing;
- (9) 210 sq. yds. conc. surfaces, to be gunited;
- (10) 1 lot misc. items of work.

Plans and specifications obtainable at above office, and are on file at the office of the District Engineers at Los Angeles and San Francisco, and at the office of the District Engineer of the district in which the work is situated.

SONOMA COUNTY, Cal.—B. A. Howkins, 1985 Mission St., San Francisco, second low bidder, at \$24,890 awarded contract by State Highway

CAPITAL CITY TITLE COMPANY

J. C. PALEN,
Manager

914 Seventh Street
Sacramento :: California

Commission, Sacramento, to construct an overhead crossing over the tracks of the Northwestern Pacific Railroad at Princeton, Sonoma County, consisting of one 63 ft. steel beam span on concrete piers and 255½ ft. of timber trestle approach on frame bents with concrete pedestals.

22—DREDGING, HARBOR WAYS

WRANGELL NARROWS, Alaska.—Puget Bridge & Dredging Co., Seattle, at \$131,539 submitted only bid received to U. S. District Engineer, Seattle, for dredging and rock removal in Wrangell Narrows. For rock removal the bid was \$14.66 per cu. yd.; for dredging, \$1.50 per cu. yd. Engineer's estimate, \$116,300. Bid taken under advisement.

PEARL HARBOR, T. H.—Until Dec. 13, 11 A. M., bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., for dredging 2,900,000 cu. yds. at Pearl Harbor. Specification No. 7337.

SEATTLE, Wash.—Postponed from October 23 (previously advertised) bids will be received until November 2 by the Seattle Board of Public Works, Room 511, County-City Bldg., Seattle, for construction of seawall and improvement of Railroad Ave. from Madison St. to Bay St. Work includes construction of a seawall with riprap protection, filling, paving, sewers, side sewers, water mains, hydrants, concrete sidewalks, grading. Estimated cost \$1,243,000. Date postponed at the request of prospective bidders to allow them more time for figuring, if no bids are received by November 2, it is probable that the work will be let by day labor under city control.

MARE ISLAND, Cal.—Until Nov. 9, 11 A. M., bids will be received by the Public Works Officer, Navy Yard, Mare Island, for extension to Dike No. 12 at the Navy Yard, Mare Island. Spec. No. 7102. Estimated cost, \$250,000. Plans and specifications obtainable from Commandant, Navy Yard, Mare Island, upon deposit of \$25. Public Works Officer, Capt. Ralph Whitman.

YOLO COUNTY, Cal.—Until Oct. 31, 2 P. M., bids will be received by U. S. Engineer's Office, California Fruit Bldg., Sacramento, Capt. J. G. Drinkwater, District Engineer, under Spec. No. 5572 for 525,000 cu. yds. embankment in place in levee for the raising and strengthening of an existing levee along the easterly side of the Yolo By-Pass between the Yolo Causeway and Miner Slough, a distance of about 20.2 mi. Specifications obtainable from above office.

STOCKTON, Cal.—San Francisco Bridge Co., 503 Market St., San Francisco, at \$148,200 awarded contract by the U. S. Engineer's Office, California Fruit Bldg., Sacramento, to dredge 1,140,000 cu. yds. material from Suisun Bay Channel between Stake Point and Point Edith.

23—IRRIGATION PROJ.

SACRAMENTO — Applications for permit to appropriate water filed with the State Department of Public Works, Division of Water Resources during the month of September, 1933:

7659 (Mariposa County) William H. Rykert, Clearinghouse, Calif., for 4760 gallons per day from an unnamed spring tributary to South Fork of Merced River, for domestic purposes. Estimated cost, \$30.

7660 (Los Angeles County) Teresa V. Forbell, 578 Mateo Street, Los Angeles, Calif., for 0.5 cubic foot per second and 10 acre feet per annum from springs in unnamed canyon tributary to Bouquet Canyon, for irrigation and domestic purposes on 25 acres. Estimated cost \$250.

7661 (San Luis Obispo County) J. H. Marshall and H. W. Mumford, South Gate, Calif., for 3 cubic feet per second from springs tributary to Los Berros Creek, for domestic and recreational purposes. Estimated cost, \$350.

7662 (El Dorado County) Matthew F. Rudeeb, Sacramento, Calif., for 200 gallons per day from unnamed stream tributary to South Fork American River, for domestic purposes

7663 (Trinity County) John Albert Farley, Weaverville, Calif., for 3 cubic feet per second from Bassham Springs tributary to Trinity River, for mining purposes.

7664 (El Dorado County) John H. Williamson, Rescue, Calif., for 16,000 gallons per day from Kelly Creek tributary to Dry Creek, for irrigation and domestic purposes on 20 acres. Estimated cost \$350.

7665 (Sierra County) W. H. Butler, Downieville, Calif., for 0.1 cubic foot per second from an unnamed Ravine tributary to North Fork Yuba River, for irrigation and domestic purposes on 5 acres. Estimated cost, \$500.

7666 (Orange County) Silverado School District, Silverado, Calif., for 0.25 cubic foot per second from a spring, tributary to Silverado Creek, for domestic purposes. Estimated cost, \$400.

7667 (San Joaquin County) E. L. Ratto, Stockton, Calif., for 1.6 cubic feet per second from Middle River, tributary to San Joaquin river, for irrigation purposes on 124 acres. Estimated cost \$2500.

7668 (El Dorado County) A. J. Morrison, 1332 44th St., Sacramento, Calif., for 0.025 cubic foot per second from a spring tributary to Echo Lake, for domestic purposes. Estimated cost \$250.

7669 (Lassen County) Ora Willard, Susanville, Calif., for 1200 gallons per day from spring tributary to Willard Creek and Susan River, for domestic purposes. Estimated cost \$650.

7670 (El Dorado County) George W. Peltier, Sacramento, California, for 48 acre feet per annum from Dry Creek tributary to Webber Creek for mining and domestic purposes. Estimated cost, \$2500.

7671 (Mono County) Silas A. Lewis, 1680 No. Vine St., Los Angeles, Calif., for 200 gallons per day from Tamarack Creek tributary to Lower Big Twin Lake, for domestic purposes. Estimated cost, \$100.

7672 (Ded Norte County) O. F. Beutke, Crescent City, Calif., for 30 cubic feet per second from 2 unnamed streams and Goose Creek tributary to South Fork of Smith River, for mining purposes.

7673 (El Dorado County) Inez Roth, Randall, Calif., for 0.025 cubic feet per second from a spring tributary to South Fork American River, for domestic purposes.

7674 (San Bernardino County) Redlands Building-Loan Assn., Redlands, Calif., for 0.025 cubic feet per second from an unnamed spring, tributary to Cajon Canyon, for irrigation and domestic purposes on 38 acres. Estimated cost \$1800.

7675 (Siskiyou County) G. R. Vause, 17th Ave., Seattle, Washington, for 3 cubic feet per second from Johnson or Sawmill Creek tributary to Rock Creek thence Klamath River, for mining purposes. Estimated cost, \$250.

7676 (El Dorado County) B. W. cubic feet per second and 125,000 acre

cubic feet per second and 125,000 acre feet per annum from Rubicon River and other sources, for municipal purposes.

7677 (Kern County) R. P. Stine, Caliente, Calif., for 0.02 cubic foot per second from a spring tributary to Kern River, for domestic purposes. Estimated cost, \$50.

7678 (Siskiyou County) Division of Highways, Eureka, Calif., for 1000 gallons per day from Pat Creek tributary to Klamath River, for recreational purposes.

7679 (Siskiyou County) Division of Highways, Eureka, Calif., for 1000 gallons per day from Sweetwater Spring tributary to Klamath River, for recreational purposes.

7680 (Siskiyou County) Division of Highways, Eureka, Calif., for 1000 gallons per day from Niagara Falls Stream tributary to Klamath River, for recreational purposes.

7681 (Siskiyou County) Division of Highways, Eureka, Calif., for 1000 gallons per day from Browns Creek tributary to Klamath River, for recreational purposes.

7682 (Siskiyou County) Division of Highways, Eureka, Calif., for 1000 gallons per day from Yumaqua Spring tributary to Klamath River, for recreational purposes.

7683 (Humboldt County) Division of Highways, Eureka, Calif., for 1000 gallons per day from Little Falls Creek tributary to Klamath River, for recreational purposes.

7684 (Humboldt County) Division of Highways, Eureka, Calif., for 1000 gallons per day from Five Mile Creek tributary to Klamath River, for recreational purposes.

7685 (Siskiyou County) Karl Johnson, Happy Camp, Calif., for 1 cubic foot per second from Little South Fork tributary to South Fork Indian Creek, for mining and domestic purposes. Estimated cost \$500.

7686 (Humboldt County) W. V. Hunt, Arcata, Calif., for 2.45 cubic feet per second from Mad River tributary to Pacific Ocean, for irrigation and domestic purposes on 65 acres. Estimated cost \$2500.

7687 (Sierra County) U. S. National Forest, Nevada City, Calif., for 0.025 cubic foot per second from a spring tributary to North Fork Yuba River, for domestic purposes.

7688 (Placer County) J. H. Stephens, 2531 H St., Sacramento, Calif., for 115 cubic feet per second and 16,000 acre feet per annum from streams tributary to North Fork of North Fork of American River, for mining purposes.

7689 (Butte County) James L. Claghorn, Brentwood, Calif., for 10 cubic feet per second from Brock Creek tributary to South Fork Feather River, for mining purposes.

7690 (San Diego County) Charles H. Jacobs, Fallbrook, Calif., for 0.33 cubic foot per second from an unnamed creek tributary to San Luis Rey River for irrigation and domestic purposes on 32 acres. Estimated cost \$1000.

7691 (Sierra County) U. S. Tahoe National Forest, Nevada City, Calif., for 0.005 cubic foot per second from Gentle Annie tributary to Ramshorn Creek, for recreational purposes. Estimated cost \$20.

7692 (Monterey County) Division of Highways, Sacramento, Calif., for 500 gallons per day from Bolshevik Creek tributary to Pacific Ocean, for recreational purposes. Estimated cost \$250.

7693 (Monterey County) Division of Highways, Sacramento, Calif., for 500 gallons per day from unnamed creek tributary to Pacific Ocean, for recreational purposes. Estimated cost \$250.

7694 (San Bernardino County) Mrs. Dorothy W. Witwer, Rt. 1, Box 337, San Bernardino, Calif., for 0.025 cubic foot per second, from an unnamed

springs tributary to Cajon Creek, for irrigation and domestic purposes on 2½ acres. Estimated cost \$10.

7695 (Trinity County) Trinity Farm and Cattle Company, Redding, Calif., for 4 cubic feet per second from Swift Creek tributary to Trinity River, for irrigation and domestic purposes. Estimated cost \$3500.

TURLOCK. Stanislaus Co., Cal.—Carlson Bros. and J. W. Kristich, at \$16,480 awarded contract by Turlock Irrigation District for Schedule 1, involving 257,500 sq. ft. on Ceres Main Canal. Ed Erickson, Turlock, awarded contract at \$30,042.40 for Schedules 2 to 6 as follows:

Schedule 2—\$3905.80; 66,200 sq. ft. on lateral 1.

Schedule 3—\$6136; 104,000 sq. ft. on lateral 2.

Schedule 4—\$9510.40; 148,000 sq. ft. on lateral 4.

Schedule 5—\$1421.90; 24,100 sq. ft. on lateral 4.

Schedule 6—\$9068.30; 153,700 sq. ft. on lateral 7.

24—ST. LIGHT. SYSTEMS

SAN RAFAEL. Cal.—Until October 30, 11:30 A. M., bids will be received at the office of Capt. Leander Larson, Constructing Quartermaster, Hamilton Field, San Rafael, for construction and completion of extensions to the electrical underground distribution and street lighting system at Hamilton Field. Specifications obtainable from above office upon deposit of \$5.

25—MACHINERY AND EQUIPMENT

BOULDER CITY, Nevada—Until November 15, 2 P. M., bids will be received by the Bureau of Reclamation, Washington, D. C., for furnishing 8 100-ft. by 16-ft. drum gates and control mechanisms for spillways at Boulder Dam, Boulder Canyon project, Arizona - California - Nevada. The drum gates and drum gate control mechanism will be installed by the government, Spec. No. 548. Specifications obtainable at above office without charge to prospective bidders, to others a deposit of \$2.

SACRAMENTO, Cal.—Sacramento Tractor & Equipment Co., 1730 16th St., Sacramento, at \$2397.50, plus tax, awarded contract by Sacramento Bd. of Supervisors for furnishing one Allis-Chalmers Model K Tractor.

SAN FRANCISCO.—Until Oct. 31, 2 P. M., bids will be received by J. W. Grace, Superintendent of Equipment, Shop 4, Division of Highways, State Bldg., San Francisco, for the sale of the following equipment:

CHC 3221, automobile, Model A Ford Tudor sedan, Eng. No. A-2056599;

CHC 139, Grager Attachment with scarifier, Russell 8 ft., Serial No. 1-P-341, with

CHC 172, Tractor, McCormick-Deering Industrial 10-20, motor No. IND-32582.

Bidders may make offers for one or more items, as is and where is, but must state price offered for each item. No lump sum bids will be considered. The equipment may be inspected at the Division of Highways' yard, 1045 Denby Ave., Fruitvale, Oakland on any working day between 8:30 A. M., and 4:30 P. M.

MINIDOKA, Idaho.—Until Nov. 1, bids will be received by the Bureau of Reclamation, Denver, Colo., for pumping unit and electrical apparatus for new unit No. 2 in south side pumping station No. 3, Minidoka project, Idaho, including one vertical pump,

180-sec. ft. capacity; one 900-hp. vertical synchronous motor and 1 switchboard panel; Spec. 602-D.

BAKERSFIELD, Cal.—Kimball-Kreugh Pump Co., 1010 E. 62nd St., Los Angeles, at \$826.95 submitted low bid to City Clerk, V. Van Riper, Bakersfield, for one turbine pump and meter.

Complete bids follow:
Kimball-Kreugh Pump Co., Los Angeles, \$826.95.

Pomona Pump Co., Pomona, Cal., \$922.15.

Wintreath Pumps, Ltd., Alhambra, \$945.85.

Peerless Pump Co., Los Angeles, \$979.98.

Lane & Bowler, \$1005.30.

Fairbanks-Morse Co., South San Francisco, \$1107.00.

Sterling Pump Corp., Stockton, \$1200.

SAN FRANCISCO—Following bids were received by the U. S. Forest Service, Ferry Bldg., for furnishing one drill sharpener for ¾-in. rock drill steel:

Ingersoll-Rand Co., 350 Brannan St., San Francisco, \$716.

Sullivan Machinery Co., Hobart Bldg., San Francisco, Class "E," \$716; Class "C," \$1115.

Gardner-Denver Co., 250 Seventh St., San Francisco, \$1115.

All bids held under advisement.

FRESNO, Cal.—Until October 31, 2 P. M., bids will be received by the Dept. of Public Works, Division of Highways, E. F. Green, Superintendent of Equipment, Shop 6, Division of Highways, 645 West Olive Avenue, Fresno, for the sale of the following equipment:

CHC 97 A. L. Young 65 Gal. Portable Kettle.

CHC 37 Scarifier, Killefer No. 4 Disc.

CHC 166 Drill, 1-R, S-49.

CHC 178 Drill, Gardner-Denver No. 411.

CHC 4100 Pontiac 6 Sedan, Ser. No. 743839. Motor P-854471.

2 Rear wheel extensions (for solid tires) McCormick-D 10-20 Tr.

All equipment may be inspected at the above office from 8:30 A. M. to 4:30 P. M., on any working day. Bidders may make offer for one or more items, as is and where is, but must state price offered for each item. No lump sum bids will be received.

BREMERTON, Wash.—Until Nov. 1 bids will be received by the Chief, Bureau of Yards & Docks, Navy Dept., Washington, D. C., for furnishing a motor generator set at the Navy Yard, Puget Sound, Bremerton, under Spec. No. 7485. The prospective bidders are:

Electric Machinery Mfg. Co., 112 S 16th St., Philadelphia.

Allis-Chalmers Mfg. Co., 632 South-ern Bldg., Washington, D. C.

Crocker - Wheeler Elec. Mfg. Co., Ampere, N. J.

Ellicott Co., Washington Loan and Trust Bldg., Washington, D. C.

General Elec. Co., Schuectady, N. Y.

Westinghouse Elec. Mfg. Co., Washington, D. C.

BOULDER CANYON, Nev.—Until November 17, 2 p. m., bids will be received by Bureau of Reclamation, Denver, Colo., under Spec. No. 549, for furnishing and delivering f.o.b. cars at the factory shipping point four 300-ton double-trolley, motor-operated overhead traveling cranes, with a span of 64-ft. and with one set of lifting beams; and one 50-ton, single-trolley, motor-operated overhead traveling crane, with a span of 58 ft. 2 in., for installation in the Boulder power plant, Boulder Canyon project, Ari-

zona - California - Nevada. No charge for specifications and plans to prospective bidders; to others, \$1, not returnable.

For further information address Bureau of Reclamation, Denver, Colo.; Boulder City, Nev., or Washington, D. C.

LOS ANGELES, Cal.—The Water & Power Commission has authorized A. J. Holm, Los Angeles City Purchasing Agent, to award a contract to Utility Traller Sales Co., at an estimated total of \$7310 for furnishing trailers under Specifications No. 3225

LOS ANGELES, Cal.—Moreland Truck Co., at \$14,832.16 awarded contract by A. J. Holm, Los Angeles City Purchasing Agent, for furnishing Water & Power Dept. with two heavy duty Moreland trucks with stake bodies under Spec. No. 3224. Time bids were opened Sept. 22.

BEVERLY HILLS, Los Angeles Co., —Layne & Bowler, 900 Santa Fe Ave., Los Angeles, at \$456 were awarded contract by Beverly Hills City Council for furnishing and installing a vertical sump pump at the LaCienega booster plant. Salisbury, Bradshaw & Taylor, engineers, 714 W 10th St., Los Angeles. Other bids received were: Kimball-Kreugh Pump Co., \$488. Fairbanks Morse & Co. \$441.80 (alt.) \$477.20.

BEVERLY HILLS, Los Angeles Co., —Franklin B. Gridley, 256 S Lake St., Pasadena, at \$2990 was awarded contract by the Beverly Hills City Council for furnishing and installing one electrically driven pumping plant at Coldwater Park for the water department. Salisbury, Bradshaw & Taylor, engineers, 714 W 10th St., Los Angeles. Other bids received were: Johnston & Washer.....\$3101.00 William J. Gage.....3582.00

LOS ANGELES, Cal.—Until Oct. 24, 11 A. M., bids will be received by A. J. Holm, Los Angeles City Purchasing Agent, 107 City Hall, for furnishing and delivering to Water & Power Dept. f.o.b. the department's warehouse 1630 N Main St., one only Universal hydraulic testing machine complete with accessories, under Spec. No. 3237. Bids will be taken as follows:

(1) One Universal hydraulic testing machine having 200,000 lbs. compression capacity and 200,000 lbs. tension capacity, capable of accommodating specimen 11 ft. in length, and having a power stroke of not less than 18-in.;

(1 Alt.-A) One Universal hydraulic testing machine as specified under item (1) above, except for compression capacity which shall be 300,000 lbs.;

(1 Alt.-B) One Universal hydraulic testing machine in accordance with bidder's specifications.

SAN DIEGO, San Diego Co., Cal.—Concrete Machinery Co., 777 E Gage Ave., Los Angeles, at \$1775, 2% 30 days, submitted low bid to State Bureau of Purchases, Sacramento, for furnishing one 5-ton 3-wheeled road roller with scarifier and blade attachments under Quotation No. 10040 for delivery at Shop 11, Division of Highways, San Diego. Following bids received:

(A) Concrete Mach. Co., Los Angeles, Austin Bullpup, 5-ton \$1775, 2% 30 days.

(B) Brown-Bevis Co., Los Angeles, 5-ton, Huber, 3-wheeled, \$2500.

(C) Crook Co., Los Angeles, 5-ton Buffalo Springfield, \$3785, 2% 30 days.

(D) Concrete Mach. Co., Los Angeles, Austin Cadet, \$3785, 2% 30 days.

(E) Smith, Booth, Usher Co., Los Angeles, Gallion 6-ton Little Master, 3-

wheeled, \$3985, 2%, 30 days.
(F) Associated Equip. Co., Hercules, Model "60", 6-ton \$3985, 2%, 30 days.

PEARL HARBOR, T. H.—Following have obtained copies of Spec. No. 7419 from the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for furnishing and erecting four cranes at Navy Yard, Pearl Harbor. Bids open Nov. 15.

Curtis Mfg. Co., St. Louis, Mo.
Buffalo Gasoline Motor Co., 1280 Niagara St., Buffalo, N. Y.
American Hoist & Derrick Co., 63 S Robert St., St. Paul, Minn.
Orton Crane & Shovel Co., 508 South Dearborn St., Chicago.

Euclid-Armington Corp., Euclid, O.
Alliance Machine Co., P. O. Box 720, Alliance, Ohio.

Shaw-Box Crane & Hoist Co., Inc., 100 E 42nd St., New York City.

R. W. Kallenbach Corp., P. O. Box H, Bedford, Ohio.

General Elec. Co., Schnectady, N. Y.
Dravo Contracting Co., Dravo Bldg., Pittsburgh, Pa.

Bucyrus-Erie Co., P. O. Box 56, So. Milwaukee.

Worthington Pump & Machinery Co., Washington, D. C.

Star Iron & Steel Co., Tacoma, Wash.
Detroit Hoist & Machine Co., 8201 Morrow St., Detroit.

Westinghouse Elec. & Mfg. Co., Washington, D. C.

Whitney Corp., Jarvey, Ill.

Heyl & Patterson, Inc., 50 Water St., Pittsburgh, Pa.

Erie Steel Const. Co., P. O. Box 1031 Erie, Pa.

Ideal Electric & Mfg. Co., 1706 Connecticut Ave., Washington, D. C.

Browning Crane & Shovel Co., 16-226 Waterloo Road, N. E., Cleveland.

Industrial Brownhoist, 1175 Broad St. Sta. Bldg., Philadelphia.

Morris Bros., Inc., 56th St. and Gray Ave., Philadelphia.

The Osgood Co., Marion, Ohio.

LOS ANGELES, Calif.—Western Wheel Scraper Co., Aurora, Ill. (Los Angeles address, Oviatt Bldg.) at \$8,-925 awarded contract by the directors of the Metropolitan Water District for furnishing 21 5-yard dump cars. The bids were taken informally through the office of Saul Joseph, Purchasing Agent. 25

NAVY YARDS.—Bids are wanted on dates shown below, by the Bureau of Supplies and Accounts, Navy Department, Washington, D. C., for machinery and equipment, as follows:

October 24
Mare Island; 6 engine lathes, motor-driven; sch. 851.

Mare Island; 1 motor-driven turret lathe; sch. 850.

San Diego; 1 cadmium plating plant; sch. 863.

East and west yards; 5 motor-driven diamond boring machine; 2 spindle high speed; sch. 885.

Mare Island and Puget Sound; Portable electric pumps and spares; sch. 827.

San Diego; 1 crawler tread type tractor; schs. 894 and 894-R.

East and west yards; 1 motor-driven 24-in. shaper; sch. 829.

Mare Island, 3 motor-driven engine lathes; sch. 833.

San Diego; 1 motor-driven engine lathe; sch. 833.

East and west yards; 1 motor-driven tool room engine lathe; sch. 832.

East and west yards; motor driven brake drum lathe; sch. 831.

East and west yards; 1 motor-driven wood-turning lathe; sch. 830.

Puget Sound; motor-driven shear & copper punch; sch. 854.

San Diego; 6 2-ton capacity chain hoist; sch. 853.

Puget Sound; 1 motor-driven duplex coating and drying machine; sch. 875.

Mare Island; 25 motor-driven engine lathes and spares; sch. 861.

Mare Island; 1 rivet machine; sch. 859.

Mare Island; 1 motor-driven engine gap lathe; sch. 856.

October 27

Puget Sound; 1 motor-driven circle cutting shear; sch. 870.

Mare Island; 1 motor-driven bending roll machine; sch. 874.

Mare Island; 1 motor-driven straight edge rapping, edging and jointing saw; sch. 873.

October 31

Puget Sound; arc welding sets; sch. 796.

Mare Island; 1 motor-driven straight line cut-off saw; sch. 935.

26—RAILROADS

CARLSBAD, New Mexico—Sharp & Fellows Contracting Co., Central Bldg., Los Angeles, at \$150,000 awarded contract, subject to approval by the Interstate Commerce Commission, for construction of about 20 miles of standard railway out of Carlsbad, New Mexico, for the Atchison Topeka & Santa Fe line, north of Pecos River Bridge to the mines of the Potash Co. of America, east of Carlsbad, where the latter company is building a refinery, camp and auxiliary buildings.

28—FIRE EQUIPMENT

GUSTINE, Merced Co., Cal.—Until October 30, 8 P. M., bids will be received by W. L. Chappell, Clerk of the Board of Trustees, Gustine, Calif., for furnishing one 50-gallon capacity Combination Pumping Engine and hose car, with 100-gallon capacity water tank, and equipment, for the Fire Department of the City of Gustine. Plans and specifications obtainable from above office.

ALAMEDA CAL.—Seagrave Corp., Chronicle Bldg., San Francisco, at \$12,500 awarded contract by the Alameda City Council for furnishing a 1000-gal. triple combination pumping engine for the Fire Department.

30—RESERVOIRS & DAMS

PHOENIX, Arizona—The application for a one hundred per cent Federal financed flood control dam on the upper Gila River has been approved by the public works advisory board at Phoenix and forwarded to Washington for final approval, according to word received at Phoenix from W. W. Lane, chairman of the state board. The project, which calls for a flood control dam, provides for an expenditure of approximately \$3,000,000.

GLENDALE, Los Angeles Co., Cal.—Until October 26, 10 A. M., bids will be received by the Glendale City Council for the construction of a reinforced concrete roof on the Chevy Chase reservoir, Glendale. Alternate bids will be taken on two types:

- (1) flat slab design;
- (2) arch type design.

Alternates—Items Nos. 1 and 2

The work consists of constructing 124,000 sq. ft. of concrete roof and covering same with 2 ft. of earth, involving:

- (1) 5,000 cu. yds. reinf. conc.;
- (2) 10,000 cu. yds. earth backfill.

Estimated materials required are:

- 33,000 sacks cement;
- 3,600 tons sand;
- 5,000 tons rock;
- 425 tons reinf. steel;
- 250,000 FBM lumber;
- 332 round column forms, copper water stops and hatch.

This project will be built in accordance with regulations of the National Recovery Act, application for funds to finance the work having been made to the Federal Emergency Administration of Public Works. Cost of labor and materials is estimated at \$97,009.63, and total with incidentals, \$108,509. Specifications obtainable from Supt. of Plant & Production, P. Diederich, Public Service Bldg., Glendale.

BONNEVILLE, Ore.—Bids will be asked shortly by U. S. District Engineer, 341 Pittock Block, Portland, for preliminary excavation at the Bonneville dam site on the Columbia river. A contract will involve moving about 500,000 cubic yards of material. Construction work on the dam is to proceed by segregated contracts accord-Engineer for the project.

BONNEVILLE, Ore.—Fred P. Cannon of Compton, Cal., second low bidder, at \$14,725 was awarded contract by the U. S. Engineer Office for core drilling at Bonneville Dam on the Columbia River, 42 miles east of Portland.

31—PIPE LINES & WELLS

LOS ANGELES, Cal.—The directors of the Metropolitan Water District have rescinded their previous order to construct by force account the East Blind Canyon Siphon and have ordered the construction of the experimental siphon and adjacent cut-and-cover conduit at East Fan Hill in lieu of the previously chosen location. The new specifications are designated as Spec. No. 59. The work will be done by force account as planned in the other location.

The specifications provide for constructing the East Fan Hill siphon and adjacent cut-and-cover conduit between East and West Coachella tunnels, and appurtenant works of the Colorado river aqueduct. The work is located approximately 11 miles northwest of Indio, in Riverside County. The work bid upon consists of the construction of one monolithic concrete siphon with an interior diameter of 12 ft. 4 in. and one section of semi-elliptical conduit with an interior height of 16 ft. and is divided into two schedules as follows: Schedule 1, East Fan Hill siphon, length 790 ft. and Sched. 2, conduit, length 700 ft.

F. E. Weymouth is chief engineer; Julian Hinds, assistant chief engineer in charge of design. Engineer's estimate of quantities follows:

- Schedule 1:** Construction of East Fan Hill Section bet. Sta. 8219 plus 85 and Sta. 8227 plus 75; length 790 ft.
- (1) 16,000 cu. yds. excav. for siphon, earth;
 - (2) 100 cu. yds. excav. for siphon, rock;
 - (3) 150 cu. yds. excav. for structures, earth;
 - (4) 10,000 cu. yds. backfill for siphon;
 - (5) 200 cu. yds. backfill for struc.;
 - (6) 1500 cu. yds. concrete in siphon;
 - (7) 500 cu. yds. conc. in transitions;
 - (8) 250,000 lbs. placing reinf. steel in siphon;
 - (9) 60,000 lbs. placing do in transition
 - (10) constructing one bow-off;
 - (11) 140 lin. ft. laying additional 8-in. drain pipe.

- Schedule 2:** Construction of Cut-and-Cover Conduit bet. Sta. 8227 plus 75 and Sta. 8234 plus 75; length 700 ft.
- (12) 23,000 cu. yds. excav. for conduit, earth;
 - (13) 14,500 cu. yds. backfill for conduit
 - (14) 2750 cu. yds. concrete for conduit;
 - (15) 470 cu. yds. reinf. conc. for road crossing;
 - (16) 78,000 lbs. placing reinf. steel in road crossing;

- (17) 4300 lbs. furnish and place metal for construction joints;
 (18) 7100 lbs. do for dummy joints.

NEWARK, Alameda Co., Cal.—Until Oct. 25 (previously advertised for Oct. 18) bids will be received by the Alameda County Water District, Centerville, for laying about 5000 ft. new pipe line (pipe to be furnished by district) on Thornton Ave. in Newark; fittings to be furnished by contractor. Specifications obtainable from E. A. Richmond, general manager, Alameda County Water District, Alvarado.

PEARL HARBOR, T. H.—Following have obtained copies of Spec. No. 7136 from the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for improvement of fuel oil facilities at the Naval Fuel Depot, Pearl Harbor. Bids open Nov. 8:

- U. S. Pipe & Foundry Co., 1620 Lincoln Liberty Bldg., Philadelphia.
 American Cast Iron Pipe Co., P. O. Box 2603, Birmingham, Ala.
 Kinney Mfg. Co., 3523 Washington St., Jamaica Plain, Boston, Mass.
 Pittsburgh - Des Moines Steel Co., Nevill Island Station, Pittsburgh.
 National Cast Iron Pipe Co., Birmingham, Ala.
 Westinghouse Elec. & Mfg. Co., Washington, D. C.
 Bethlehem Fabricators, Inc., Eighth and Lehigh Ave., Bethlehem, Pa.
 R. D. Wood, 400 Chestnut, Philadelphia, Pa.
 William MacDonald Const. Co., St. Louis, Mo.
 Honolulu Iron Works, 165 Broadway, New York City.

ALAMEDA, Alameda Co., Calif.—Robt. Garcia, 2045 University Avenue, Palo Alto, at \$1563.91 submitted low bid to the Alameda City Council for the construction of a pumping plant and the boring of a 10-inch well, approximately 300 ft. deep, at Franklin Park. J. W. Bankhead & Son, Oakland, submitted second low bid at \$1,795.50. J. M. Ough submitted unit bids, certified check highest.

32—SEWERS & SEWAGE DISPOSAL PLANTS

MODESTO, Stanislaus Co., Calif.—The Modesto City Council has authorized formal application for a loan under the NRA to make a \$7000 sewer improvement. Outright grant of 30% of the cost will be asked. Frank J. Rossi, City Engineer, and Harold Rogers, Public Works Commissioner.

PALO ALTO, Santa Clara Co., Cal.—Federal Public Works Administration has granted \$29,000 to City of Palo Alto toward cost of sewer system extensions and completion of a sewage disposal plant, for which a \$90,000 bond issue has been authorized. Bids probably will be taken within thirty days. J. F. Byxbee, city engineer.

SONOMA, Sonoma Co., Cal.—Sonoma city council has appointed Hayward McDonald, Sonoma, as engineer to make a survey and report on the proposed three-mile extension of the outfall sewer. Estimated cost of the project \$10,000.

SAN MATEO, Cal.—San Mateo City Council has authorized City Manager E. P. Wilsey, to apply to the Federal Public Works Administration for a loan of \$102,840 and a grant of \$37,410 to finance a sewage disposal plant to be constructed jointly with the City of Hillsborough. The site of the proposed plant is near Seal Creek.

CLOVERDALE, Sonoma Co., Cal.—Federal Public Works Administration

has granted \$1700 to the city of Cloverdale, representing 30% of the estimated cost of labor and materials necessary to construct Imhoff tank and 12-in. discharge pipe line for city's sewer system. Project probably will be advertised for bids shortly. Bids were received previously, Sept. 6, and were all rejected pending approval of Federal loan. W. J. Tobin, 3701 Balfour Ave., Oakland, at \$4,030.95 submitted previous low bid.

BURLINGAME, Cal.—Burlingame City Council has received preliminary plans for sewage disposal plant and intercepting lines, estimated to cost \$120,000. It is proposed to finance the project through application for a grant from the Public Works Administration. The disposal plant would be constructed jointly with the City of Hillsborough. C. M. Thomas, Burlingame City Engineer; Geo. A. Kneese, Hillsborough City Engineer.

SAN FRANCISCO, City Const. Co., 9236 Peach St., Oakland, at \$2210.50 awarded contract by Department of Public Works, W. H. Worden, Director, for the construction of the Merced Manor storm water relief sewer adjacent to 26th Ave. and Eucalyptus Drive.

33— WATERWORKS

FORT LEWIS, Wash.—West Coast Construction Co., Lloyd Bldg., Seattle, at \$5257.50 submitted low bid to Constructing Quartermaster, Fort Lewis, Washington, under Spec. No. 6105-1 for furnishing and laying cast iron water mains. Walsh Co., Seattle, second low bidder at \$5733.53; Queen City Construction Co., Inc., Seattle, third, at \$5773.

ROSEVILLE, Cal.—A \$250,000 bond issue for purchase of existing water system operated by Public Utilities California Corporation or for construction of a municipally owned system was approved at a special election by a vote of 397 to 329.

BEVERLY HILLS, Cal.—Contracts for furnishing and laying cast iron pipe were awarded by the Beverly Hills City Council, October 10, as follows:

Fred W. Weber, 8442 California St., South Gate, group A at \$5035.
 Franklin B. Gridley, 256 S. Lake St., Pasadena, group B at \$6200.

The bids were:

	Total	Total
	Group A	Group B
F. B. Gridley.....	\$5400	\$6200
Fred W. Weber.....	5035	6265
Geo. E. Miller.....	4633	6221
Martter & Bock, Ltd.....	5389	6830
J. C. Hickey.....	8688	9371
Marko Match.....	6324	6767

Salisbury, Brodshaw & Taylor, engineers, 714 W. 10th St., Los Angeles, consulting engineers.

SAN DIEGO, San Diego Co., Cal.—Chas. and F. W. Steffen, 201 Bay Front St., San Diego, submitted low bid to the Public Works Officer, 11th Naval District, San Diego, October 11, at \$10,100.25, complete with a deduction of \$2370.30 for the omission of box pump, electrical work and piping for same, for improvements to the water system at the Naval Operating Base (Air Station) San Diego; Spec. No. 7424. Complete bids follow:

- Chas. and F. S. Steffen, (1) \$10,100.25; (2) \$2370.30.
 M. H. Golden, (1) \$10,479; (2) \$1535.
 R. E. Hazard Contr. Co., (1) \$11,480; (2) \$900.
 Garrett Co., et al, (1) \$11,500; (2) \$423.
 Frank Doran, (1) \$12,289; (2)

Shannahan Bros., Inc., (1) \$12,672; (2) \$1100.

George Hess, (1) \$12,281; (2) \$1650.
 B. O. Larson, (1) \$12,759; (2) \$1863.

Walter Trepte, (1) \$13,579.25; (2) \$1731.

V. R. Dennis Contr. Co., (1) \$13,725; (2) \$1700.

Nelson C. Shedd, (1) \$13,863; (2) \$1700.

Miracle Co., (1) \$14,231; (2) \$160.

GALT, Cal.—A bond election for the creation of a district to provide its own water system was approved by Galt voters October 11 by a vote of 176 to 48.

34—PARKS AND PLAY-GROUNDS

SAN FRANCISCO—Louis C. Dunn, Monadnock Bldg., at \$2475 awarded contract by Treasury Department, to construct fence around the proposed Federal Office Building, San Francisco.

29—STREETS AND HIGHWAYS

SANTA BARBARA COUNTY, Calif.—Until November 8, 2 P. M., bids will be received by the State Highway Commission, Sacramento, to grade and pave 0.8 mile with asphalt concrete, between Olive Mill Road and Santa Barbara cu. in Santa Barbara Co., involving:

- (1) 8,000 cu. yds. rdwy. excav., unclassified;
- (2) 12,000 sta. yds. overhaul;
- (3) 375 cu. yds. structure excav.;
- (4) 7,500 sq. yds. subgrade for pave.;
- (5) 12,000 sq. yds. asph. paint binder;
- (6) 6,800 tons asphalt concrete;
- (7) 102 lin. ft. 12-in. CMP;
- (8) 220 lin. ft. 18-in. CMP;
- (9) 220 lin. ft. 24-in. CMP;
- (10) 38 lin. ft. 36-in. CMP;
- (11) 148 lin. ft. corrugated metal pipe, clean and relay;
- (12) 30 cu. yds. concrete, remove from existing structures;
- (13) 17 cu. yds. Class A Port. cement concrete structures;
- (14) 6 cu. yds. do. curbs;
- (15) 900 lbs. bar reinf. steel struc.;
- (16) 510 bbls. fuel oil;
- (17) 75 sta. mixing fuel oil and earth shoulders;
- (18) 300 M. gals. water;
- (19) 5 each cast steel frames and covers for drop inlets;
- (20) .25 mile new property fence;
- (21) .04 mile move and reset existing property fences;
- (22) 7 each move and reset culvert markers;
- (23) 38 each remove trees, size 1;
- (24) 42 each, remove trees, size 2;
- (25) 29 each, remove trees, size 3;
- (26) 40 stations finish roadway;
- (27) 53 each monuments complete in place.

Plans and specifications obtainable at above office, and are on file at the office of the District Engineers at Los Angeles and San Francisco, and at the office of the District Engineer of the district in which the work is situated.

SAN FRANCISCO—Until Nov. 1st, 2:30 P. M. (previously advertised for Oct. 18) bids will be received by the Public Works Board for the construction of Bernal Heights Blvd.

FORT WINFIELD SCOTT, Calif.—Ariss-Knapp Co., 961 41st St., Oakland, at \$6,540 submitted low bid to the Harbor Defense Quartermaster's Office, Fort Winfield Scott, for reconditioning roads and extending sidewalks at Fort Winfield Scott. Other bids received were: E. J. Treacy, Call Bldg., San Francisco, \$7,815; Theo. Cohn, Russ Bldg., San Francisco, \$7,983.

SAN BERNARDINO COUNTY, Cal.
—Until November 8, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for grading and surfacing about 0.8 mile with oil treated crushed gravel or stone plant mix between Arrowhead Springs and San Bernardino in San Bernardino County, involving:

- (1) 40,000 cu. yds. rdwy. excav., unclassified;
- (2) 358,000 sta. yds. overhaul;
- (3) 1,360 cu. yds. struc. excavation;
- (4) 3,860 tons crushed gravel or stone surfacing;
- (5) 963 bbls. fuel oil surfacing;
- (6) 13 tons asph. road oil seal coat;
- (7) 140 tons screenings seal coat;
- (8) 6 cu. yds. Class A Port. cement concrete structures;
- (9) 200 lbs. bar reinf. steel struc.;
- (10) 206 lin. ft. 24-in. CMP;
- (11) 368 lin. ft. 36-in. CMP;
- (12) 184 lin. ft. 48-in. CMP;
- (13) 80 each timber water posts;
- (14) 2,000 M. gals. water embankment;
- (15) 2,670 lin. ft. laminated timber guardrail;
- (16) 22 cu. yds. concrete removed from existing struc. and disposed of;
- (17) 45 sta. yds. finishing rdwy.;
- (18) 27 each monuments complete in place.

Plans and specifications obtainable at above office, and are on file at the office of the District Engineers at Los Angeles and San Francisco, and at the office of the District Engineer of the district in which the work is situated.

MODESTO, Stanislaus Co., Calif.—Until October 30, 1:30 P. M., bids will be received by the Modesto Board of Education, Capitol School Bldg., on 14th St. between I and H Sts., Modesto, for the construction of concrete sidewalks, curb and gutters on the grounds of the Modesto Jr. College and on College Ave., fronting said grounds:

- Sidewalks, 14,720 sq. ft.;
 - Curb and gutter, 1,650 lin. ft.
- Specifications obtainable from above office, E. D. Abbott, secretary.

VALLEJO, Solano Co., Cal.—J. E. Johnston, Weber Ave. and E Street, Stockton, at \$4,754.82 submitted only bid and was awarded contract by the Vallejo city council to grade, pave and curb Butte St. between Alabama and Tennessee. Unit prices follow:

- (1) 460 cu. yds. grading excav., \$1.65;
- (2) 15,850 sq. ft. 3-in. asph. conc. base, \$0.105;
- (3) 15,850 sq. ft. 2-in. do, \$0.09;
- (4) 372 lin. ft. curb and gutter, \$1.25;
- (5) 173 lin. ft. 3-ft. conc. gutter, \$0.65;
- (6) 105 lin. ft. 5-ft. do, \$1.20;
- (7) 94 lin. ft. armored curb, \$7.75;
- (8) 596 lin. ft. conc. wing gutter, \$2.22.

SACRAMENTO, Cal.—A. Teichert & Son, P. O. Box 1118, Sacramento, at \$2,483.80 awarded contract by U. S. Engineer's Office, Sacramento, for grading 642 lin. ft., subgrade and provide 1430 sq. yds. bituminous pavement to form a hard surfaced roadway over the hydraulic dredge fill near Capital Rice Mills, westerly bank of the Sacramento river, 0.5 mile below the M St. bridge.

SAN LUIS OBISPO COUNTY, Cal.
—B. G. Carroll, 4396 Maryland St., San Diego, at \$1495.76 awarded contract by Division of Highways, L. H. Gibson, District Engineer, San Luis Obispo, to apply traffic stripe on 276 mi. of existing pavement in Monterey, San Benito, San Luis Obispo and Santa Barbara Counties at various locations.

CLARK COUNTY, Nevada—Until October 25, 2:30 P. M., bids will be received by S. C. Durkee, State Highway Engineer, Carson City, Nevada, to construct 14.87 miles of the State

Highway System in Clark County, between Las Vegas and Charleston Rd. Route 5, Section D4 and E. The principal items of work are as follows:

- (1) 78,000 cu. yds. rdwy. excav.;
- (2) 156,821 yd. sta. overhaul;
- (3) 58,096 cu. yds. select borrow;
- (4) 2280 cu. yds. struc. excav.;
- (5) 1.01 ml. subgrade (40 ft. width);
- (6) 13.86 ml. subgrade (20 ft. width);
- (7) 52,800 cu. yds. cru. grav. or stone surface;
- (8) 61 cu. yds. class A concrete;
- (9) 230 cu. yds. class B concrete;
- (10) 6550 lbs. reinf. steel;
- (11) 314 lin. ft. 18-in. corr. MP;
- (12) 1494 lin. ft. 24-in. do;
- (13) 436 lin. ft. 30-in. do;
- (14) 3074 lin. ft. 36-in. do;
- (15) 447 lin. ft. 24-in. vitrified pipe;
- (16) 78 lin. ft. 36-in. do;
- (17) 420 lin. ft. 24-in. part circl. CMP;
- (18) 2 lin. ft. remove conc. culverts;
- (19) 6251 lin. ft. remove fence;
- (20) 6251 lin. ft. reconst. fence;
- (21) 64 monuments;
- (22) 1 remove concrete headwall;
- (23) 14.87 miles finish roadway.

Plans and specifications obtainable from above office upon a deposit of \$5.00; \$2.50 refunded.

HUMBOLDT COUNTY, Nevada—Until October 25, 2:00 P. M., bids will be received by S. C. Durkee, State Highway Engineer, Carson City, Nevada, to construct 15.04 miles of State Highway System in Humboldt County, between Orovala and 15 miles north Route 8, Section D1, involving:

- (1) 80,000 cu. yds. rdwy. excav.;
- (2) 126 acres clearing and grubbing;
- (3) 37,621 yd. sta. overhaul;
- (4) 42,684 cu. yds. select borrow;
- (5) 1200 cu. yds. struc. excav.;
- (6) 15.04 ml. subgrade;
- (7) 47,500 cu. yds. crushed gravel or stone surface;
- (8) 85 cu. yds. class A concrete;
- (9) 138 cu. yds. class B concrete;
- (10) 11,200 lbs. reinf. steel;
- (11) 2652 lin. ft. 18-in. CMP;
- (12) 734 lin. ft. 24-in. CMP;
- (13) 220 lin. ft. 30-in. CMP;
- (14) 182 lin. ft. 36-in. CMP;
- (15) 314 lin. ft. 18-in. CMP (asph. coated);
- (16) 322 lin. ft. 24-in. CMP do;
- (17) 48 lin. ft. 30-in. CMP do;
- (18) 58 lin. ft. 48-in. CMP do;
- (19) 1067 lin. ft. remove fence;
- (20) 660 lin. ft. reconst. fence;
- (21) 1618 lin. ft. construct fence;
- (22) 38 monuments;
- (23) 15.04 miles finish roadway.

Plans and specifications obtainable from above office upon deposit of \$5.00 \$2.50 returnable.

SAN RAFAEL, Cal.—As previously reported, bids will be received until October 23, 11:15 A. M., at the office of the constructing Quartermaster, Hamilton Field, San Rafael, for construction of sidewalks and driveways at Hamilton Field. The principal items of work are:

- (1) 620 sq. yds. 4-ft. walks;
- (2) 90 sq. yds. 2-ft. walks;
- (3) 665 sq. yds. Portland cem. conc. pavement;
- (4) 111 cu. yds. crusher run base;
- (5) 290 lin. ft. riser and tread (steps)
- (6) 350 cu. yds. common excav.

Specifications obtainable at above office on deposit of \$5 and on file at the office of the Construction Quartermaster, Fort Mason, the Builders' Exchange, and the office of the DAILY PACIFIC BUILDER in San Francisco.

ALTURAS, Modoc Co., Cal.—Geo. T. Cline, Modoc County Surveyor, has prepared an application to be submitted to the Federal Emergency Administration of Public Works asking for

\$200,000 to improve Surprise Valley Road, from the Oregon State line to the Nevada State line on the south of the valley. The improvement proposed will consist of widening the present road to 20-ft. between shoulders, straightening the line of travel on tangents, eliminating radical curves and sharp angles, excavating ditches through drainage of the roadbed and surfacing. This will require approximately 2500 yds. of earth per average mile, which will cost about 35c per yard, and 1000 yds. of surfacing at \$1.35 per yard spread on the road. There is an abundance of first class natural gravel for surfacing near at hand, which may be had free of cost.

OREGON STATE.—Until October 25, 9 A. M., bids will be received by the Oregon State Highway Commission, R. H. Baldock, State Highway Engineer, in the Multnomah Hotel, Portland, for the following work:

Clatsop County: West Lake Section of Oregon Coast Highway and Astoria Section of Columbia River Highway. Construction of approximately 13,200 sq. yds. of Portland cement concrete pavement and 7,400 sq. yds. rock shoulders. Seaside—Jack Horner Creek Section of Oregon Coast Highway; furnish approx. 6,000 cu. yds. crushed rock in stockpiles.

Douglas County: Scottsburg - Red Bridge Section of Umpqua Highway. Construct 23.2 miles bit. macadam wearing surface and 2.0 miles crushed gravel surface; also furnish approx. 1,000 cu. yds. crushed gravel stockpiled.

Harney County: Stinking Mt.-Drinkwater Pass Section of Central Oregon Highway, 10.47 miles grading, requiring approx. 383,000 cu. yds. excavation.

Jackson Co.: Green Springs Rock Prod. Proj. on Green Springs Highway, 6,000 cu. yds. crushed rock or gravel in stockpiles.

Jefferson County: Agency-Deschutes River Section of Warm Springs Highway, 2.41 miles grading requiring approximately 9,400 cu. yds. excav. and 20,100 cu. yds. pit-run gravel borrow and topping.

Jefferson and Wasco Counties: Boyd Madras Section of The Dalles-California Highway. Furnish approx. 11,000 cu. yds. crushed rock in stockpiles.

Klamath County: Midland - California Line Section of Klamath Falls-Weed Highway, 7.45 miles grading, requiring approx. 68,000 cu. yds. excav. and 74,000 cu. yds. pit-run talus borrow and topping.

Lincoln County: Siletz River-Newport Section of Oregon Coast Highway. Furnish approx. 6,000 cu. yds. crushed rock in stockpiles.

Marion County: North Salem Section of Pacific Highway. Pavement widening and resurfacing. Requires approximately 8,000 lin. ft. concrete curbs, 1,150 sq. yds. concrete sidewalks and driveways, 7,000 sq. yds. Portland cement concrete pavement, and 18,000 sq. yds. asphaltic concrete pavement.

Multnomah County: Multnomah Co. Line-Linnton Section of Columbia River highway, 2.65 miles Portland cement concrete pavement 20-ft. wide.

Plans and specifications may be obtained from the office of the State Highway Commission, Room 322, State Office Bldg., Salem, Ore., on deposit of \$5.00 for each set.

LANE COUNTY, Ore.—E. L. Gates, Oak Ridge, Ore., at \$141,927 submitted low bid to the U. S. Bureau of Public Roads, Portland, for grading 5.229 mi. Willamette Highway Grading Project, NR-21-G, National Forest Road Project, located in Willamette National Forest, Lane County, Oregon.

LOS ANGELES, Calif.—Griffith Co., 502 Los Angeles Railway Bldg., at \$20-366.36 submitted low bid to the Los Angeles board of public work for improving McKinley Ave. from 48th St. to 54th St.

LOS ANGELES, Calif.—Southern California Roads Co., 2145 E 25th St., at \$22,124.68 submitted low bid to the Los Angeles board of public works for improving Venice Blvd. from Rimpau Blvd. to La Brea Ave.

LINN COUNTY, Oregon.—Kern and Kibbe, Portland, at \$104,579 on metal pipe alternate submitted low bid to U. S. Bureau of Public Roads, Portland, for grading a 3.9 mile section of the North Santiam Highway in Linn County, near Lost Lake. Project No. NR-24-1, National Forest Road Project located in Willamette National Forest.

TRINITY COUNTY, Cal.—Until October 31, 2:00 P. M., bids will be received by C. H. Sweetser, District Engineer, Bureau of Public Roads, 807 Sheldon Bldg., 461 Market St., San Francisco, for grading a portion of Section D of Route 5, the Douglas City-Peanut National Forest Highway, Trinity National Forest, Trinity County, Calif., involving:

- (1) 11 acres clearing;
- (2) 48,300 cu. yds. unclass. excav.;
- (3) 600 cu. yds. do for struc.;
- (4) 43,000 sta. yds. overhaul;
- (5) 1,860 miles finish earth graded rd.
- (6) 182 cu. yds. concrete;
- (7) 862 lin. ft. corr. metal pipe;
- (8) 18,000 lbs. reinf. steel;
- (9) 60 right of way monuments;
- (10) 2 spillway inlets.

Plans and specifications obtainable from above office upon a deposit of \$10.00. Checks should be certified and made payable to the Regional Fiscal Agent, U. S. Forest Service.

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COCONINO COUNTY, Ariz.—New Mexico Constr. Co., Inc., Albuquerque, at \$124,118 awarded contract by U. S. Bureau of Public Roads, San Francisco, to place crushed gravel base course on Fredonia-Houserock Valley National Forest Highway, Kaibab National Forest.

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COCONINO COUNTY, Ariz.—Had-dock & Lindberg 357 N Chester Ave., Pasadena, Cal., at \$42,447.50 awarded contract by U. S. Bureau of Public Roads, 802 Title & Trust Bldg., Phoenix, Ariz., for grading 2,947 miles of Section H of Route 7, Oak Creek National Forest Highway, Coconino National Forest, Ariz.

SANTA CLARA COUNTY, Cal.—W. H. Dontanville, Box 544, Salinas, at \$7833 awarded contract by Santa Clara County Board of Supervisors, Henry A. Pfister, Clerk, County Court House, San Jose, for the improvement of Hill Road from Dunne Ave. to Tennant Ave. Complete bids follow: W. H. Dontanville, Salinas.....\$7833
A. J. Raisch, San Jose..... 8785
O. G. Ritchie, San Jose..... 9044
Earl Heple, San Jose..... 9448
Piazza & Greene, San Jose..... 9558
Tiffany Constr. Co., San Jose..... 9618
Granite Constr. Co., Watsonville 9947

SANTA CLARA COUNTY, Cal.—A. J. Raisch, Burrell Bldg., San Jose, at \$12,680 awarded contract by Santa Clara County Board of Supervisors, Henry A. Pfister, Clerk, County Court House, San Jose, for the improvement of Foothill Ave., from San Martin Ave. to Middle Ave. Complete bids follow:

A. J. Raisch, San Jose.....\$12 680
Tiffany Constr. Co., San Jose..... 13,254
Piazza & Greene, San Jose..... 13,595

Granite Constr. Co., Watsonville 13,657
Earl Heple, San Jose..... 12,947

SANTA CLARA COUNTY, Cal.—Union Paving Co., 624 Call Bldg., San Francisco, at \$11,650 awarded contract by Henry A. Pfister, Clerk, Santa Clara County Board of Supervisors, County Court House, San Jose, for the improvement of Taylor Street, from the westerly line of 19th St. to Mabury Road in the City of San Jose. Complete bids follow:
Union Paving Co., San Jose.....\$11,650
A. J. Raisch, San Jose..... 11,893
Pacific Pavements Co., S. F..... 14,100

SANTA CLARA COUNTY, Cal.—Union Paving Co., 624 Call Bldg., San Francisco, at \$28,649 awarded contract by Santa Clara County Board of Supervisors, Henry A. Pfister, Clerk, County Court House, San Jose, for the improvement of Berryessa Road from Coyote Creek Crossing to Capitol Ave. Complete bids follow:
Union Paving Co., S. F.....\$28,649
A. J. Raisch, San Jose..... 28,983
Pacific Pavements Co., S. F..... 30,516

SANTA CLARA COUNTY, Cal.—Nevis & Harp, 891 Harrison St., Santa Clara, at \$3360 awarded contract by Santa Clara County Board of Supervisors, Henry A. Pfister, Clerk, County Court House, San Jose, for the construction of two reinforced concrete culverts in Laguna Ave. Complete bids follow:
Nevis & Harp, Santa Clara.....\$3360
O. G. Ritchie, San Jose..... 3453
Collins & Martin, San Jose..... 3665
Carl M. Swenson, San Jose..... 3732
Sam Sciarrino, San Jose..... 3807
Earl Heple, San Jose..... 4132

ARIZONA STATE.—Until Oct. 31, 2 P. M., bids will be received by the Arizona State Highway Commission, Phoenix, for highway construction on the Ashfork-Kingman Highway, N. R. H. 80-E and D, which extends from a point about two miles northwest of the town of Hackberry to a point about 5½ miles east of Hackberry, and consists of placing aggregate base course and mineral aggregate, processing of the roadway by the road mix method and placing an emulsified asphalt seal coat. The work is to be completed by Feb. 15, 1934. The principal items are:

- (1) 5,700 cu. yds. agg. base course;
- (2) 10,900 cu. yds. mi. aggregate base course, haul;
- (3) 9,700 cu. yds. mineral aggregate;
- (4) 25,100 cu. yds. mi. mineral aggregate, haul;
- (5) 175,400 gals. road oil (CIP);
- (6) 183 tons emulsified asphalt (C11);
- (7) 7.5 miles processing road mix;
- (8) 640 cu. yds. screenings (CIP).

Plans and specifications obtainable at above office. T. S. O'Connell, state highway engineer.

FORT MASON, Cal.—Until Oct. 25, 10 A. M., bids will be received at the office of the Port Quartermaster, Fort Mason, for repairing Schofield Road at Fort Mason. Plans and specifications obtainable from above office upon deposit of \$5.00 (certified check).

SAN BERNARDINO COUNTY, Cal.—Geo. Herz & Co., 311 Platt Bldg., San Bernardino, at \$23,951.50 awarded contract by State Highway Commission, Sacramento, to treat with fuel oil approximately 25 mi. between a point about 5 mi. north of Adelanto and a point near Kramer.

SAN DIEGO COUNTY, Cal.—Daley Corp., 4430 Boundary St., San Diego, at \$11,375.10 awarded contract by Division of Highways, San Diego, for 7.3 mi. bituminous surface treatment between northerly city limits of San Diego and Poway Creek.

MONTEREY COUNTY, Cal.—Until November 8, 2 P. M., bids will be received by State Highway Commission, Sacramento, to grade and surface 8.9 mi. between King City and 2 miles south of Greenfield in Monterey County (bituminous surface treatments), involving:

- (1) 47,500 cu. yds. rdwy. excav. unclass.;
- (2) 566,000 sta. yds. overhaul;
- (3) 6350 tons crusher run base;
- (4) 590 cu. yds. struc. excav.;
- (5) 13,220 tons screenings;
- (6) 685 tons emulsified asph. road oil
- (7) 61 cu. yds. class A Port. cem. conc. structures;
- (8) 4800 lbs. bar reinf. steel struc.;
- (9) 210 lin. ft. 12-in. CMP.;
- (10) 54 lin. ft. 15-in. CMP.;
- (11) 82 lin. ft. 18-in. CMP.;
- (12) 108 lin. ft. 24-in. CMP.;
- (13) 110 lin. ft. CMP clean and relay;
- (14) 97 cu. yds. conc. removed from exist. pavement and struc.;
- (15) 750 M. gals. water;
- (16) 6210 bbls. fuel oil;
- (17) 8.9 mi. mix fuel oil and shoulder material;
- (18) 1320 lin. ft. laminated timber gd. rail;
- (19) 800 lin. ft. move and reset exist. gd. rail;
- (20) 80 each guide posts;
- (21) 37 each culvert markers;
- (22) 16 mi. new property fence;
- (23) 29 each fence gates;
- (24) 471 sta. finish roadway;
- (25) 99 each monuments complete in place.

Plans and specifications are obtainable at above office and are on file at the office of the District Engineers at Los Angeles and San Francisco, and at the office of the District Engineer of the district in which the work is situated.

CONTRA COSTA COUNTY, Cal.—Peninsula Paving Co., 715 Standard Oil Bldg., San Francisco, at \$37-923.50 awarded contract by State Highway Commission, Sacramento, to pave with asph. concrete 1.4 mi. in Contra Costa County, between San Pablo and Pinole.

SAN FRANCISCO—Fay Improvement Co., Phelan Bldg., San Francisco, at \$4577 awarded contract by the Board of Regents of the University of California, for grading and paving around the Medical Building, University of California, Second and Parnassus Aves., San Francisco.

SOUTH SAN FRANCISCO, San Mateo Co., Cal.—Following have received copies of Spec. No. 7339 from the Public Works Officer, Mare Island Navy Yard, for constructing approx. 1,405 lin. ft. of road at the U. S. Naval Radio Station, South San Francisco:
J. S. Baker, 730 Farrington Lane, Burlingame.

Chas. L. Harney, 443 Call Bldg., San Francisco.

Fay Imp. Co., 760 Market St., San Francisco.

A. J. Raisch, 251 Kearny Street, San Francisco.

Lee Immel, 1031 Evelyn Ave., Berkeley.

Kaiser Paving Co., Call Bldg., San Francisco.

Oilfields Trucking Co., Box 751 Bak-ersfield.

ARIZONA STATE—Phoenix-Tempe Stone Co., Box 1645, Phoenix, at \$102-908.21 awarded contract by State Highway Commission, Phoenix, for highway construction on the Benson-Vail Highway, NRH 18-B and C. The work begins at Clenega Creek and extends easterly to the Pima-Cochise County line, and consists of placing base course and cutback plant mix. To be completed on or before March 15, 1934.

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GILA COUNTY, Ariz.—George Row-SAN FRANCISCO—Dept. of Public Works, San Francisco, has approved plans and specifications for the improvement of Shipley St., between lines parallel with Fourth St. and respectively 412-ft. 6-in. and 550 ft. southwesterly therefrom, involving:

- (1) 275 lin. ft. armored concrete curb;
- (2) 1788 sq. ft. one course concrete sidewalk.

Estimated cost, \$488. All protests must be filed before November 10.

SAN FRANCISCO—Dept. of Public Works, S. J. Hester, Secretary, has approved the plans and specifications for the improvement of the crossing of Jarboe Ave. and Putnam St., involving:

- (1) 110 cu. yds. excav.;
- (2) 32 lin. ft. 8-in. V.C.P. sewer in place;
- (3) one brick manhole, complete;
- (4) two brick catchbasins, complete;
- (5) 35 lin. ft. 10-in. V.C.P. culvert in place;
- (6) 60 lin. ft. 10-in. armored concrete curb;
- (7) 240 sq. ft. one-course concrete sidewalk;
- (8) 1730 sq. ft. asph. conc. pave. consisting of 6-in. Class F conc. base and 2-in. asph. conc. wearing surface.

Estimated cost \$850. All protests must be filed before November 10.

SAN FRANCISCO—Public Works Dept., San Francisco, has approved plans and specifications for the improvement of Carolina St., between 22nd and 23rd Sts., involving:

- (1) 578 lin. ft. unarmored concrete curb;
- (2) 1650 sq. ft. one course concrete sidewalk;
- (3) 3000 sq. ft. 6-in. Class E concrete pavement;
- (4) 3462 sq. ft. asph. concrete pave. consisting of a 3/2-in. asph. conc. base and a 1 1/2-in. asph. conc. wearing surface.

Estimated cost, \$2440. All protests must be filed before November 10, 1933.

ELDORADO COUNTY, Calif.—Until October 31, 2 P. M., bids will be received by C. H. Sweetser, District Engineer, Bureau of Public Roads, 461 Market St., San Francisco, to grade 2.189 miles of Section G of Route 32, Placerville-Lake Tahoe National Forest Highway, El Dorado National Forest, El Dorado County, involving:

- (1) 21 acres clearing;
- (2) 149,000 cu. yds. unclass. excav.;
- (3) 1800 cu. yds. unclass. excav. struc.;
- (4) 239,000 sta. yds. overhaul;
- (5) 2.189 mi. finish earth graded road;
- (6) 80 cu. yds. cem. rubble masonry;
- (7) 290 lin. ft. 8-in. CGMP (perf.);
- (8) 2446 lin. ft. 18-in. CGMP in place;
- (9) 306 lin. ft. 24-in. CGMP in place;
- (10) 172 lin. ft. 30-in. CGMP in place;
- (11) 56 lin. ft. 18-in. relay salvaged pipe;
- (12) 62 lin. ft. remove and dispose of exist. CGMP;
- (13) 100 cu. yds. crush. rock or gravel backfill;
- (14) 20,000 gals. furnish and apply asph. mat.;
- (15) Lump sum extra work, move and reset milestones;
- (16) Lump sum maintenance of exist. road and detours;

Plans and specifications obtainable from above office.

Bids received October 13 were rejected as excessive. Low bidder, Hemstreet & Bell, 101 11th St., Marysville, at \$135,843.05; engineer's estimate, \$97,452.

SACRAMENTO, Calif. — Campbell Const. Co., 800 R St., Sacramento, at \$11,500 awarded contract by Sacramento Board of Education for yard work, grading etc., at the Junior High School on SW corner of Vallejo Way and Land Park Drive.

COMPLETE BID LISTING

COCOONINO & GILA COS., Ariz.—H. J. Hagen, Globe, Ariz., at \$110,079.50 (previously reported) submitted low bid to the Bureau of Public Roads, 802 Title & Trust Bldg., Phoenix, for grading 6.780 miles Section D of Route 10, the Pine-Winslow National Forest Highway, Coconino and Gila Counties, Ariz.

Complete bids follow:

- (A) H. J. Hagen, Globe, Ariz., \$110,079.50.
 - (B) Martin Wunderlich, Jefferson City, Mo., \$113,730.50.
 - (C) Skousen Eros., Albuquerque, N. M., \$116,746.00.
 - (D) Utah Construction Co., Ogden, Utah, \$117,949.00.
 - (E) Engineer's estimate, \$89,008.50.
- Unit bids follow:
- (1) 33 acres clearing;
 - (2) 93,600 cu. yds. unclass. excav.;
 - (3) 800 cu. yds. unclass. excav. struc.;
 - (4) 23,300 cu. yds. unclass. excav. for borrow;
 - (5) 103,000 sta. yds. overhaul;
 - (6) 6.870 mi. finish. earth graded rd.;
 - (7) 8 cu. yds. class A concrete;
 - (8) 560 lbs. reinf. steel;
 - (9) 400 cu. yds. cem. rubble masonry;
 - (10) 1656 lin. ft. 18-in. 16-ga. C.M.P. in place;
 - (11) 394 lin. ft. 24-in. 14-ga. do.;
 - (12) 86 lin. ft. 36-in. 12-ga. do.;
 - (13) 7660 lin. ft. type I protect. ditch;
 - (14) 11,425 lin. ft. fence in place;
 - (15) 4 ea. farm entrance gates;
 - (16) 16,300 cu. yds. mi. borrow haul;
 - (17) 10 each R/W monuments;
 - (18) 24 cu. yds. invert paving.

	(A)	(B)	(C)	(D)	(E)
(1)....	400.00	300.00	300.00	250.00	100.00
(2)....	.66	.72	.77	.80	.60
(3)....	2.00	2.00	2.50	2.00	2.00
(4)....	.50	.40	.30	.40	.30
(5)....	.03	.03	.03	.025	.03
(6)....	100.00	200.00	100.00	300.00	200.00
(7)....	40.00	40.00	40.00	40.00	35.00
(8)....	.10	.10	.10	.10	.10
(9)....	20.00	20.00	19.00	20.00	17.00
(10)....	2.00	2.50	2.50	2.00	1.75
(11)....	3.00	3.50	3.50	3.00	2.75
(12)....	5.50	6.00	6.00	6.00	4.00
(13)....	.10	.10	.20	.10	.10
(14)....	.10	.10	.08	.12	.12
(15)....	25.00	20.00	25.00	20.00	20.00
(16)....	.15	.25	.30	.20	.15
(17)....	4.00	10.00	8.00	4.00	3.50
(18)....	10.00	20.00	20.00	15.00	14.00

HAMILTON FIELD, Marin Co., Cal.—As previously reported, bids will be received until October 30, 11:00 A. M., by the Constructing Quartermaster, Capt. Leander Larson, Hamilton Field San Rafael, for the construction of a hangar apron at Hamilton Field, involving:

- (1) 9,950 cu. yds. excavation;
- (2) 720 cu. yds. fill;
- (3) 8,250 cu. yds. 6-in. concrete;
- (4) 8,250 cu. yds. 6-in. compact rock;
- (5) 100 cu. yds. graded rock (1 1/2 to 2 1/2 in.);
- (6) 80 lin. ft. curb;
- (7) 220 sq. yds. 3 1/2-in. by 4-ft. sidewalk;
- (8) 1,400 lin. ft. 6-in. vit. salt glazed terra cotta pipe;
- (9) 900 lin. ft. 8-in. do.;
- (10) 250 lin. ft. do.;
- (11) 200 lin. ft. 15-in. do.;
- (12) 440 lin. ft. 18-in. do.;
- (13) 240 lin. ft. 21-in. do.;
- (14) 460 lin. ft. 24-in. do.;
- (15) 1,300 lin. ft. 27-in. do.;
- (16) 16 lin. ft. 27-in. corru. G. I. culvert;
- (17) 5 manholes, complete;
- (18) 14 catchbasins, complete.

These quantities are approximate only and are to be used as a basis for lump sum bid. Plans and specifications on file at the office of DAILY PACIFIC BUILDER. They may be obtained from the office of the Constructing Quartermaster upon deposit of \$5.00.

COCOONINO COUNTY, Ariz.—Until November 7, 10 A. M., bids will be received by C. H. Sweetser, District Engineer, Bureau of Public Roads, 802 Title & Trust Bldg., Phoenix, Ariz., for placing subgrade reinforcement on Grand Canyon Route 10 and Sections A, B, & C of the Cameron-Desert View Approach to Grand Canyon National Park, Coconino County, Ariz., involving:

- (1) 46,000 cu. yds. subgrade reinforcement;
- (2) 100,000 cu. yd. miles hauling subgrade reinforcement.

Plans and specifications obtainable from above office upon a deposit of \$10. Checks should be certified and made payable to the Regional Fiscal Agent, U. S. Forest Service; also on file at 807 Sheldon Bldg., San Francisco.

OAKLAND, Cal.—Shepherd Canyon Tunnel Corp., E. J. Fitzpatrick, care of Breed, Burpee and Robinson, 814 Broadway Bldg., Oakland; George J. Calder, engineer, deYoung Bldg., San Francisco, has applied to the Federal Administration of Public Works for a loan of \$1,100,000 to finance the construction of a vehicle tunnel bet. Oakland and Berkeley. The tunnel will be 2410 ft. long with approaches having a combined length of 490 ft. and about one mile of highway to connect the east portal with a county road running from Redwood Canyon to Moraga. The west portal will be reached from the East Bay cities by Park Blvd., which will be improved by the City of Oakland. It will be of reinforced concrete arch construction, 25-ft. wide inside at roadway level and 19-ft. high from roadway to crown.

COCHISE COUNTY, Ariz.—W. A. Rawls, El Paso, at \$114,735 submitted low bid to the Bureau of Public Roads Phoenix, for grading 2.445 miles Sec. D of Rt. 32, Chiricahua Monument National Forest Highway, Chiricahua National Monument, Coronado National Forest, Cochise, Ariz. Skousen Bros. were second low at \$115,120. Phoenix-Tempe Stone Co., third low at \$129,632. Engineer's estimate, \$98,089. Eight bids were received in all. W. A. Rawls recommended for award. Complete bids will be published shortly.

32—SEWERS & SEWAGE DISPOSAL PLANTS

CLOVERDALE, Sonoma Co., Cal.—Until November 3, 8 P. M., bids will be received by the City Clerk, City Hall, Cloverdale, for the construction of an Imhoff tank and 12-in. discharge pipe line, involving:

- (1) 370 cu. yds. struc. excav.;
- (2) 230 cu. yds. excav. (pipe lines);
- (3) 102 cu. yds. concrete;
- (4) 24,000 lbs. reinf. steel;
- (5) 40 ft. 8-in. cast iron pipe;
- (6) 1650 ft. 12-in. clay or conc. pipe;
- (7) 56 ft. 18-in. clay or conc. pipe;
- (8) 1200 bd. ft. redwood lumber;
- (9) 17 cu. yds. sand (drying beds).

\$1700 has been granted to the city of Cloverdale by the Federal Public Works Administration for the work. Walter F. Adams, P. O. Box 331, Santa Rosa, engineer.

Specifications obtainable from A. Joseph Goivanetti, City Clerk, Cloverdale, upon deposit of \$5.

Bids were previously received on Sept. 6, and were all rejected pending approval of the Federal loan. W. J. Tobin, 3701 Balfour Ave., Oakland, at \$4030.85 submitted previous low bid.

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

CALAVERAS COUNTY — SURFACING — STATE

CALAVERAS COUNTY, Cal.—Fredrickson & Watson Const. Co., 873 81st Ave., Oakland, at \$62,634.95 submitted low bid to State Highway Commission, Sacramento, to grade and surface about 4.2 miles with crushed gravel and stone 3.4 miles north of Angels Camp, involving:

- (1) 13 acres clear, and grub. right of way;
- (2) 82,000 cu. yds. roadway excav., unclass.;
- (3) 159,000 sta. yds. overhaul;
- (4) 2330 cu. yds. struc. excav.;
- (5) 6570 cu. yds. untreat. crushed gravel or stone surface;
- (6) 514 hbbs. light fuel oil;
- (7) 150 hbbs. heavy fuel oil;
- (8) 1025 M gal. water;
- (9) 193 cu. yds. class A Portland cem. concrete struc.;

- (10) 14,000 lbs. bar reinf. steel struc.;
- (11) 1106 lin. ft. 18-in. C.M.P.;
- (12) 638 lin. ft. 24-in. cor. M.P.;
- (13) 216 lin. ft. 30-in. C.M.P.;
- (14) 194 lin. ft. 36-in. C.M.P.;
- (15) 72 lin. ft. 42-in. C.M.P.;
- (16) 26 lin. ft. salvage exist. culverts;
- (17) 14 cu. yds. conc. remov. from existing structures and disposed of;
- (18) 6.1 mi. hog tight prop. fence, type A;
- (19) 0.69 mi. hog tight prop. fence, type B;
- (20) 1.17 mi. move and reset property fences;
- (21) 34 each fence gates;
- (22) 222 stations finishing roadway;
- (23) 66 each monuments complete in place.

Complete bids follow:
 (A) Fredrickson & Watson, Oakland, \$62,634.95.

- (B) M. J. Bevanda, Stockton, \$65,708.25.
- (C) Geo. Pollock Co., Sacramento, \$68,797.70.
- (D) Young & Sons Co., Ltd., Berkeley \$69,902.99.
- (E) Hemstreet and Bell, Marysville, \$72,744.00.
- (F) Willard, Biasotti and Lovotti, Stockton, \$75,183.48.
- (G) Hanrahan Co., San Francisco, \$79,878.30.
- (H) Larsen Bros., Sacramento, \$80,275.50.
- (I) Heafey-Moore Co., Oakland, \$84,940.75.
- (J) Contoules Const. Co., San Francisco, \$88,032.00.
- (K) Force Const. Co., Piedmont, \$88,214.40.

Unit prices follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)
(1).....	\$150.00	\$65.00	\$100.00	\$100.00	\$125.00	\$250.00	\$200.00	\$300.00	\$200.00	\$200.00	\$200.00
(2).....	.30	.34	.40	.375	.39	.43	.53	.42	.53	.53	.57
(3).....	.015	.01	.01	.0075	.01	.01	.01	.02	.01	.01	.01
(4).....	.85	1.50	1.00	1.25	1.50	1.00	.90	1.00	1.00	1.00	1.25
(5).....	2.00	1.90	2.00	2.30	1.85	1.70	1.80	2.25	2.15	2.50	2.10
(6).....	2.80	2.50	2.90	2.76	2.75	2.10	2.25	2.00	2.75	2.75	2.85
(7).....	3.00	3.00	3.00	2.90	2.90	2.15	2.50	3.00	3.00	4.00	2.95
(8).....	2.00	1.25	1.00	1.50	1.50	2.00	1.00	2.00	2.50	1.50	1.20
(9).....	18.00	18.00	15.00	18.00	25.00	20.00	20.00	22.00	18.00	25.00	25.00
(10).....	.06	.055	.05	.06	.055	.06	.06	.06	.05	.07	.06
(11).....	1.50	2.00	1.65	1.55	1.75	1.84	1.40	2.00	1.60	2.00	1.90
(12).....	2.50	3.00	2.60	2.10	2.50	3.06	2.50	2.50	2.45	2.25	2.85
(13).....	3.00	3.50	3.20	3.10	3.50	4.15	3.00	3.25	3.20	2.75	3.40
(14).....	5.00	4.50	4.65	4.40	5.00	6.63	4.50	5.00	5.10	3.50	5.35
(15).....	6.00	6.00	7.40	6.55	6.75	9.02	6.50	6.50	7.10	8.50	7.50
(16).....	.75	1.50	.50	.50	1.00	.20	.40	.50	1.00	1.50	.50
(17).....	3.00	5.00	2.00	1.50	3.00	3.00	3.50	3.00	5.00	1.50	5.00
(18).....	400.00	500.00	500.00	495.00	700.00	500.00	550.00	600.00	600.00	600.00	500.00
(19).....	400.00	600.00	470.00	530.00	800.00	750.00	700.00	700.00	675.00	600.00	600.00
(20).....	175.00	200.00	200.00	275.00	400.00	250.00	200.00	300.00	400.00	300.00	150.00
(21).....	15.00	13.00	15.00	18.00	15.00	15.00	15.00	20.00	20.00	12.00	15.00
(22).....	6.00	7.00	5.00	6.00	5.00	9.00	5.00	7.50	5.00	8.00	5.00
(23).....	3.00	2.50	3.00	3.00	3.00	3.00	2.50	3.00	3.50	3.00	3.00

LYON & CHURCHILL COUNTIES—SURFACING—GOVT.

LYON AND CHURCHILL COUNTIES, Nevada—Union Paving Co., 624 Call Bldg., San Francisco, at \$68,286.16 awarded contract by Nevada State Dept. of Highways, S. C. Durkee, State Highway Engineer, Carson City, Nevada, for surfacing 12.10 miles with crushed gravel or stone in Lyon and Churchill Counties, Route 2, from 2 miles west of Lahontan to Leetsville. Pro. No. NRH 115-E, involving:

- (1) 38,300 cu. yds. rdwy. excav.;
- (2) 29,034 sta. yds. overhaul;
- (3) 24,050 cu. yds. select borrow;
- (4) 300 cu. yds. struc. excav.;
- (5) 12.10 mi. subgrade;
- (6) 34,700 cu. yds. crush. grav. or stone surf.;
- (7) 11 cu. yds. class A conc.;
- (8) 32 cu. yds. class B conc.;

- (9) 1,860 lbs. reinf. steel;
- (10) 160 lin. ft. 18-in. C.M.P.;
- (11) 136 lin. ft. 24-in. C.M.P.;
- (12) 150 lin. ft. 36-in. C.M.P.;
- (13) 5 remove culvert headwalls;
- (14) 11 move pipe culvert headwalls;
- (15) 74 lin. ft. remove culvert pipe;
- (16) 74 lin. ft. relay culvert pipe;
- (17) 3200 cu. yds. hand-laid riprap;
- (18) 12.10 mi. finish roadway.

Complete bids follow:
 (A) Union Paving Co., San Francisco, \$68,286.16.
 (B) Isbell Constr. Co., Carson City, \$68,537.28.
 (C) Dodge Constr. Co., Fallon, \$69,959.
 (D) N. M. Ball, Berkeley, \$73,838.
 (E) Engineer's Estimate, \$68,983.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)
(1).....	\$.35	\$.35	\$.30	\$.50	\$.35
(2).....	.04	.04	.04	.03	.03
(3).....	.48	.30	.43	.50	.45
(4).....	1.00	1.00	1.00	1.00	1.00
(5).....	100.00	100.00	100.00	100.00	100.00
(6).....	.74	1.00	.90	.85	.85
(7).....	30.00	28.00	30.00	30.00	30.00
(8).....	28.00	28.00	30.00	30.00	28.00
(9).....	.08	.06	.10	.07	.07
(10).....	2.00	2.00	2.50	2.10	2.00
(11).....	2.75	2.75	3.00	2.30	2.75
(12).....	4.60	4.50	5.50	5.00	5.00
(13).....	5.00	10.00	10.00	20.00	5.00
(14).....	10.00	6.00	10.00	10.00	10.00
(15).....	.50	1.00	1.00	1.00	.75
(16).....	.50	.50	1.00	1.00	1.00
(17).....	3.00	2.00	2.00	2.00	2.50
(18).....	200.00	150.00	100.00	100.00	150.00

BIDS OPENED

SAN FRANCISCO.—Eaton & Smith, 715 Ocean Drice, at \$5,967.06 submitted the low bid to the Department of Public Works, S. J. Hester, Deputy Director, Room 251, City Hall, to improve Quintara St. between 32nd and 33rd Avenues. Estimated cost, \$6,912. Complete bids follow:

- (A) Eaton & Smith \$5,967.06
- (B) Chas. L. Harney 6,195.87
- (C) Fay Improvement Co. 6,730.50

Quantities follow:

- (1) 4000 cu. yds. grading, excav.;
- (2) 40 lin. ft. 8-in. VCP sewer, in place
- (3) 310 lin. ft. 21-in. do;
- (4) 8 Y branches in place, 21x6;
- (5) 200 lin. ft. 6-in. VCP side sewer in place;
- (6) 1 brick manhole, complete;
- (7) 3 brick catchbasins, complete;
- (8) 105 lin. ft. 10-in. VCP culvert in place;
- (9) 574 lin. ft. unarmored conc. curb;
- (10) 660 sq. ft. 1-conc conc. sidewalk
- (11) 16,894 sq. ft. asph. conc. pave., consisting of 6-in. Class F conc. base and 2-in. asph. conc. wearing surface.

BAYSHORE, San Mateo Co., Cal.—Southern Pacific Co., 65 Market St., San Francisco, awarded a contract to J. B. Rogers, 110 Sutter St., at \$1,180 to drill well approximately 200 feet deep at the shop grounds at Bayshore.

HAMILTON FIELD — UTILITIES EXTENSION — GOVT.

SAN RAFAEL, Cal.—Oakland Sewer Construction Co., 9915 Walnut St., Oakland, at \$14,288 submitted low bid for constructing sanitary and storm sewers at Hamilton Field; P. L. Burr, 320 Market St., San Francisco, at \$10,838 submitted low bid for construct-

ing gas distribution system; George C. DeGolyer, 217 Federal Telegraph Bldg., Oakland, submitted low bid for constructing water distributing system. Bids opened by Constructing Quartermaster, Hamilton Field, and taken under advisement.

- (1) To extend sanitary sewer system and storm drainage system;
 - (2) To extend gas distribution system;
 - (3) To extend water distributing system;
 - (4) Total of items 1, 2 and 3.
- Complete bids follow:

	(1)	(2)	(3)	(4)
(A) Chas. M. Davis, Paradise, Cal.....	\$20,268			
(B) Scott Co., San Francisco.....	20,000	11,169	22,367	53,200
(C) Lindgren & Swinerton, S. F.....			11,800	
(D) Chas. L. Harney, S. F.....	23,956			
(E) Martin Murphy, Berkeley.....				26,289
(F) Alta Elec. & Mech. Co., S. F.....	25,000	16,700	27,500	59,295
(G) Fay Improvement Co., S. F.....	20,976	14,795	25,680	61,450
(H) Herman Lawson, S. F.....	18,500	13,065	22,555	53,600
(I) G. M. Gest, Oakland.....	22,400			
(J) W. J. Tobin, Oakland.....	17,102	20,634	24,327	
(K) Oakland Sewer Const., Oakland.....	14,288	14,388	21,988	50,500
(L) George C. DeGolyer, Oakland.....	15,000		21,000	
(M) James Currie, Burlingame.....			21,800	
(N) P. L. Burr, San Francisco.....		10,838	21,944	
(O) Frederick W. Snook, S. F.....	20,165	11,526	23,644	53,850

Unit items follow:

- (a) Excavation (per cu. yd.);
- (b) Excavation (rock) do;
- (c) Backfill (per cu. yd.);
- (d) 6-in. vitrified clay pipe 1. i.;
- (e) 8-in. vitrified clay pipe 1. f.;
- (f) 10-in. vitrified clay pipe 1. f.;
- (g) 12-in. vitrified clay pipe 1. f.;
- (h) 15-in. vitrified clay pipe 1. f.;
- (i) 18-in. vitrified clay pipe 1. f.;
- (j) 24-in. vitrified clay pipe 1. f.;
- (k) 27-in. vitrified clay pipe 1. f.;
- (l) 15-in. corru. galv. iron pipe 1. f.;
- (m) Brick manholes (each);
- (n) C.I.M.H. covers (per lm.);
- (o) Drop manholes (each);
- (p) Concrete (per cu. yd.);
- (q) Brick, common (per M);
- (r) 3-in. seamless steel pipe, wrapped 1. f.;

- (s) 2-in. seamless steel pipe do;
- (t) 1 1/4-in. seamless steel pipe do;
- (u) 3/4-in. seamless steel pipe do;
- (v) 3-in. gas valves (as per specs.), each;
- (w) 2-in. gas valves (as per specs.), each;
- (x) 1 1/4-in. gas valves (as per specs.), each;
- (y) 3/4-in. gas valves (as per specs.), each;
- (z) 2-in. blow-off valve (each);
- (aa) 5-b tinned steel L. P. meter (each);
- (ab) 29-b tinned steel L. P. meter (each);
- (ac) 30-b iron case L.P. Meter (each);
- (ad) 60-b iron case L.P. meter (each);
- (ae) 1-H Reliance regulator;

- (af) 1-in. Neilan regulator;
- (ag) Valve boxes (each);
- (ah) 8-in. C. I. pipe;
- (ai) 6-in. C. I. pipe;
- (aj) 4-in. C. I. pipe;
- (ak) 3-in. C. I. pipe;
- (al) 2-in. genuine galv. W. I. pipe (per lin. ft.);
- (am) 1 1/4-in. genuine galv. W. I. pipe (per lin. ft.);
- (an) Cast iron fittings, Class D, per lb.;
- (ao) 8-in. gate valves (each);
- (ap) 6-in. gate valves (each);
- (aq) 4-in. gate valves (each);
- (ar) 3-in. gate valves (each);
- (as) Fire hydrants (each);
- (at) Air relief valves (each);
- (au) 1 1/4-in. corporation cocks (each);
- (av) 1 1/4-in. shut-off valves (each).

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)
(a)...	.70	.75	.70	1.98	.50	.96	1.00	1.25	1.00	.50	.28	.30	.50	.50	1.25
(b)...	4.50	3.00	3.20	3.00	.00	3.50	3.50	5.00	7.50	1.50	5.00	3.30	4.50	4.50	4.00
(c)...	.25	.09	.26	.12	.20	.15	.15	.35	.45	.15	.15	.15	.25	.20	.75
(d)...	.57	.53		.315		.29	.65	.60	.47	.38	.40	.25			.27
(e)...	.77	.61		.43		.27	.75	.70	.63	.45	.55	.35			.41
(f)...	.96	.72		.60		.475	.85	.85	.85	.54	.68	.48			.53
(g)...	1.15	1.19		.78		.61	.95	1.00	.94	.65	.85	.60			.66
(h)...	1.62	1.60		1.16		.91	1.40	1.40	1.23	.87	1.10	.93			1.00
(i)...	1.98	2.00		1.62		1.20	1.75	1.80	1.75	1.32	1.30	1.26			1.45
(j)...	2.77	2.95		2.71		1.95	2.54	2.90	2.55	1.92	2.20	2.08			2.20
(k)...	3.73	4.28		4.00		2.88	3.59	4.05	4.05	2.89	3.10	3.22			3.30
(l)...	2.00	1.20		3.60		1.92	2.70	2.00	2.00	3.00	1.50	1.00			1.80
(m)...	50.00	75.00		81.00		38.00	65.00	65.00	80.00	50.00	50.00	50.00			55.00
(n)...	.06	.045		.06		.04	.046	.06	.04	.05	.04	.04			.04
(o)...	65.00	85.00		180.00		65.00	90.00	77.00	90.00	50.00	60.00	60.00			65.00
(p)...	28.00	9.00		12.00	10.00	7.25	18.00	15.00	10.00	10.00	18.00	15.00			20.00
(q)...	18.00	38.00		18.00		12.00	35.00	45.00	42.00	16.00	20.00	25.00			15.00
(r)...		.50	.35			.29	.62	.60		.98	.50				.52
(s)...		.42	29.29			.27	.54	.45		.90	.40				.46
(t)...		.35	.25			.28	.24	.40		.83	.33				.39
(u)...		.28	.19			.32	.29	.20		.67	.38				.28
(v)...		22.00	12.00			10.61	10.95	30.00		14.00	17.67				20.00
(w)...		10.50	8.50			6.65	6.20	24.00		8.00	12.00				15.00
(x)...		10.00	8.50			6.46	6.25	8.00		8.00	8.60				10.00
(y)...		1.25	1.50			1.57	.65	2.00		1.00	2.00				1.50
(z)...		7.00	5.00			7.25	34.50	24.00		6.00	100.00				18.00
(aa)...		13.60	8.89			8.89	9.70	11.50		14.00	10.30				9.00
(ab)...		24.88	25.00			24.75	25.30	28.00		30.00	26.00				23.00
(ac)...		52.20	75.00			76.52	53.00	57.00		90.00	50.00				48.00
(ad)...		95.00	135.00			135.78	97.00	103.00		150.00	90.00				86.00
(ae)...		3.95	3.50			3.50	3.45	5.55		6.00	4.00				4.00
(af)...		16.00	14.00			14.27	16.00	41.40		20.00	14.50				35.00
(ag)...		6.00	4.00		6.00	4.50	10.35	9.50		7.00	10.50	7.00	9.00	6.00	6.00
(ah)...		1.175			1.50	1.11	1.15	1.30		1.33	1.17	1.17	1.17	1.18	1.15
(ai)...		.85			1.00	.81	.80	.95		.96	.88	.80	.87	.79	.80
(aj)...		.63			.80	.62	.56	.70		.76	.68	.60	.67	.61	.55
(ak)...		.59			.70	.55	.50	.60		.70	.60	.57	.57	.58	.50
(al)...		.53			.60	.56	.47	.55		.69	.56	.52	.57	.57	.40
(am)...		.40			.40	.42	.33	.46		.40	.43	.47	.45	.42	.25
(an)...		.075	.05		.05	.05	.057	.07		.05	.05	.06	.05	.06	.05
(ao)...		37.25			54.00	29.90	45.00	50.00		50.00	34.00	46.00	38.31	35.00	37.00
(ap)...		26.00			34.00	18.40	29.00	35.00		34.00	22.00	32.00	24.41	23.00	24.00
(aq)...		12.50			23.00	11.17	17.00	20.00		22.00	15.00	22.00	14.00	15.00	13.00
(ar)...		9.75			21.00	9.49	14.50	17.00		22.00	12.00	20.00	12.00	12.00	11.00
(as)...		66.50			105.00	57.80	100.00	99.00		120.00	67.00	99.00	61.00	50.00	50.00
(at)...		14.00			30.00	17.50	15.00	15.00		40.00	15.00	14.00	33.00	10.00	11.00
(au)...		4.00	6.00		4.00	3.27	3.45	6.00		3.00	3.00	4.00	4.50	3.50	3.00
(av)...		2.40	6.00		10.00	3.40	2.45	3.20		7.00	2.00	4.00	4.50	4.00	2.00

BIDS OPENED

HAMILTON FIELD, San Rafael, Cal.—Pacific States Construction Co., Call Bldg., San Francisco, at \$89,546.90 submitted low bid to Constructing Quartermaster, Hamilton Field, San Rafael, for construction of post road system, including all grading, curbs, catchbasins, culverts, crusher run rock base, and paving, involving:

- (1) cu. yds. excav. (earth);
- (2) cu. yds. excav. (rock);
- (3) Borrow 2000 ft. haul unclass. per cu. yd.;
- (4) Overhaul beyond free haul per 100 ft. sq. yd.;
- (5) cu. yds. conc. (incl. forms);
- (6) sq. yds. Port. cem. conc. pave.;
- (7) cu. yds. crusher run base;
- (8) lbs reinforcing steel;
- (9) sq. yds. asph. conc. pave.;
- (10) lin. ft. conc. curb 6-in.x18-in.;
- (11) lin. ft. conc. curb 6-in.x12-in.;
- (12) lin. ft. conc. curb & gutter 24-in.;
- (13) per lb. catchbasins castings;
- (14) sq. yds oil treat. for gravel base
- (15) lin. ft. corru. culverts 8-in.;
- (16) lin. ft. corru. culverts 12-in.;
- (17) lin. ft. vit. clay pipe 8-in.;
- (18) lin. ft. vit clay pipe 12-in.

Complete bids follow:

- (A) Pacific States Constr. Co., San Francisco, \$89,546.90.
- (B) A. J. Raisch, San Francisco, \$92,700.
- (C) Heafey-Moore Co., Oakland, \$94,685.49.
- (D) Fay Improvement Co., San Francisco, \$96,588.
- (E) Vincent Maggiora, Sausalito, \$99,873.60.

(1) Constructing post road complete, (A) \$89,546.90; (B) \$92,700; (C) \$94,685.47; (D) \$96,588; (E) \$99,873.60.

(2) Deduction if asph. conc. paving is omitted, (A) \$27,799.20; (B) \$28,000; (C) \$29,062.80; (D) \$29,484; (E) \$31,590.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)
(1) ..	.30	.40	.42	.35	.45
(2) ..	.60	.60	.55	1.65	.68
(3) ..	.50	.45	.45	.55	.60
(4) ..	.01	.02	.02	.025	.02
(5) ..	20.00	20.00	18.50	23.00	20.00
(6) ..	2.30	2.20	2.25	2.20	2.10
(7) ..	2.80	2.75	2.85	4.08	2.87
(8) ..	.06	.06	.05	.065	.05
(9) ..	.66	.68	.59	.70	.75
(10) ..	.54	.57	.55	.60	.53
(11) ..	.36	.40	.33	.40	.34
(12) ..	.60	.60	.60	.65	.68
(13) ..	.05	.06	.05	.06	.05
(14) ..	.035	.04	.04	.045	.045
(15) ..	1.40	1.50	1.50	1.60	1.40
(16) ..	1.80	2.00	2.00	2.25	1.90
(17) ..	.60	.60	.70	.65	.76
(18) ..	1.00	1.00	1.10	.90	1.25

BIDS OPENED

SAN FRANCISCO.—Eaton & Smith, 715 Ocean Ave., at \$4,779.70 submitted low bid to the Department of Public Works, S. J. Hester, Deputy Director, for improvement of Parker Ave. between Turk and McAllister Sts. Estimated cost, \$5715. Complete bids follow:

- (A) Eaton & Smith.....\$4,779.70
- (B) Fay Improvement Co..... 4,806.11
- (C) C. L. Harney 5,233.00
- (D) E. J. Treacy 5,388.10

Quantities follow:

- (1) 1310 cu. yds. grade and excavate;
- (2) 1370 lin. ft. armored conc. curb;
- (3) 6190 sq. ft. 1-course conc. sidewalk
- (4) 13,610 sq. ft. asph. conc. pave.;
- (5) 1500 sq. ft. asph. conc. conform pavement.

Unit bids follow:

	(A)	(B)	(C)	(D)
(1) ..	\$.40	\$.46	\$.40	\$.69
(2) ..	.60	.59	.60	.60
(3) ..	.12	.125	.12	.11
(4) ..	.19	.186	.22	.22
(5) ..	.07	.06	.10	.07

LINCOLN COUNTY — SURFACING — GOVT.

LINCOLN COUNTY, Nev.—N. M. Ball, 1889 Yosemite Road, Berkeley, Calif., awarded contract at \$99,124.11 by the Nevada State Department of Highways, S. C. Durkee, State Highway Engineer, for surfacing with crushed gravel or stone 13.50 miles of state highway between Pioche and Stonehouse, Federal Aid Project No.

NRH 68, Lincoln 7-D1, Route 7. Complete bids follow:

- (A) N. M. Ball, Berkeley, \$99,124.11.
- (B) Geo. French, Jr., Stockton, \$107,642.61.
- (C) Utah Const. Co., Ogden, \$109,079.16.
- (D) Engineer's estimate, \$89,635.46.

Unit bids follow:

	(A)	(B)	(C)	(D)
(1) 90,400 cu. yds. rdwy. excav.....	\$.40	\$.48	\$.50	\$.35
(2) 7 acres clear and grub.....	200.00	25.00	30.00	20.00
(3) 58,922 sq. yds. overhaul.....	.03	.03	.03	.03
(4) 10,117 cu. yds. sel. borrow.....	.50	.40	.50	.40
(5) 2,100 cu. yds. struc. excavation.....	1.00	1.00	1.50	1.00
(6) 13.50 miles subgrade.....	100.00	100.00	100.00	100.00
(7) 43,300 cu. yds. crushed gravel and stone surfacing .....	.70	.80	.75	.70
(8) 69 cu. yds. Class A concrete.....	30.00	30.00	34.00	28.00
(9) 120 cu. yds. Class B concrete.....	30.00	30.00	30.00	26.00
(10) 9,700 lbs. reinf. steel.....	.07	.07	.08	.07
(11) 16 remove culvert headwalls	20.00	7.00	4.00	5.00
(12) 414 lin. ft. 15-in. CMP.....	2.00	1.60	1.80	1.50
(13) 1,988 lin. ft. 18-in. CMP.....	2.25	2.00	2.30	2.00
(14) 1,058 lin. ft. 24-in. CMP.....	2.90	3.00	2.80	2.50
(15) 72 lin. ft. 30-in. CMP.....	4.00	4.00	4.00	3.00
(16) 785 lin. ft. 6-in. cast iron pipe.....	1.75	1.75	1.30	1.50
(17) 60 lin. ft. 4-in. cast iron pipe.....	1.25	2.00	1.00	1.00
(18) 217 lin. ft. remove culvert pipe.....	1.00	1.00	.50	.50
(19) 64 lin. ft. relay culvert pipe.....	1.00	1.00	.75	1.00
(20) 120 move pipe culvt. headwalls.....	10.00	8.00	12.00	7.50
(21) 104 monuments	3.00	3.00	3.00	3.00
(22) 4 remove wooden culverts	10.00	7.00	8.00	5.00
(23) 5 cu. yds. remove concrete	5.00	6.00	3.00	5.00
(24) 1,600 lbs. castings .....	.20	.30	.08	.20
(25) 13.50 miles finish roadway	50.00	150.00	100.00	150.00

HAMILTON FIELD—BARRACKS & OFFICERS' QTRS.

SAN RAFAEL, Marin Co., Calif.—Following bids received by Constructing Quartermaster, Hamilton Field, to construct barracks and officers' buildings:

Item I—Three (3) 200-Man Barracks

- (A) K. E. Parker, 135 South Park, San Francisco, \$444,750.
- (B) Robert E. McKee, Los Angeles, \$458,900.
- (C) MacDonald & Kahn, San Francisco, \$453,954.
- (D) Clinton Const. Co., San Francisco, \$464,000.
- (E) Herbert M. Barnch, Los Angeles, \$465,000.
- (F) Leibert & Trobock, San Francisco \$511,000.

Alternate proposals follow:

- (1) 200-man barracks incl. utilities;
- (2) if third floors are omitted from buildings deduct;
- (3) if one barracks buildings is omitted, deduct;
- (4) ½ integral cement floor finish specified to receive linoleum in

barracks is omitted and in lieu thereof is installed the 1-1-1 ½ integral cement floor finish, add or deduct from the amount of items 1 and 6;

- (5) if architectural terra cotta specified for barracks is omitted and in lieu thereof there is installed cast stone, add or deduct;
- (6) If all Mission tile roofing specified for barracks is omitted and in lieu thereof there is installed prepared slate surfaced roll roofing, deduct from amt of Items 1 and 6;
- (7) If cement plaster specified for 1st, 2nd and 3rd floors of barracks is omitted and in lieu thereof there is installed colored Keenes cement plaster, add or deduct from amount of Items 1 and 6;
- (8) If exterior of barracks is stuccoed as specified;
- (9) If linoleum specified for barracks is omitted, deduct.

Complete bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)
(1).....	\$444,750	\$458,900	\$459,954	\$464,000	\$465,000	\$511,000
(2).....	49,500	57,000	45,180	52,600	45,000	42,000
(3).....	142,900	151,200	149,805	152,000	130,000	160,000
(4).....	150	400	100	150	.....	750
(5).....	3,200	450	288	800	1,000	2,800
(6).....	5,900	8,200	7,093	7,400	5,900	7,000
(7).....	2,700	1,700	1,725	500	500	1,500
(8).....	5,450	6,610	9,290	3,300	6,000	7,700
(9).....	10,000	10,400	9,940	10,000	9,600	9,500

Item II—Construct (6) double sets of N. C. O. quarters, type "C" and fourteen (14) double sets of N. C. O. quarters type "D", including all utilities.

Complete bids follow:

- (A) Frank J. Reilly, San Francisco, \$268,731.00.
- (B) Wm. Spivock, San Francisco, \$274,300.00.
- (C) Clinton Const. Co., San Francisco, \$299,000.00.
- (D) Robert E. McKee, Los Angeles, \$305,500.00.

Alternate proposals follow:

- (1) Construct six (6) double sets of N. C. O. quarters, type "C" and fourteen (14) double sets of N. C. O. quarters type "D" including all utilities;
- (2) Not to exceed two (2) double sets

of non-commissioned officers' quarters, type "C" are added, or omitted, add or deduct;

- (3) If one and not to exceed two (2) double sets of non-commissioned officers' quarters, type "D" are added or omitted, add or deduct;
- (4) If textured finish plaster in double quarters for N. C. O. is omitted and in lieu thereof there is installed Gypsum plaster, add or deduct;
- (5) If tile wainscot and accessories specified for baths in double quarters for N. C. O. are omitted and in lieu thereof there is installed tile base, Keene cement plaster wainscot and chromium plated accessories, add or deduct.

Complete bids follow:

	(1)	(2)	(2)	(4)	(5)
(A).....	\$268,731.00	\$13,456.00	\$13,087.00	\$40.00	150.00
(B).....	274,300.00	13,500.00	13,400.00	50.00	120.00
(C).....	299,000.00	14,700.00	14,500.00	.....	125.00
(D).....	305,500.00	15,690.00	15,270.00	.....	100.00

Item III: To construct ten (10) type "A" field officers' quarters, one (1) type "B" field officers' quarters, four (4) type "C" company officers' quarters, five (5) type "D" company officers' quarters, and five (5) type "E" company officers' quarters, including all utilities.

- Complete bids follow:
- (A) Meyer Const. Co., San Francisco, \$323,230.00.
 - (B) Clinton Const. Co., San Francisco, \$350,000.00.
 - (C) Robt. E. McKee, Los Angeles, \$360,000.00.
 - (D) Herbert M. Baruch Corp., L. A., \$379,700.00.

Alternate proposals follow:

(1) To construct ten (10) type "A" field officers' quarters, one (1) type "B" field officers' quarters, four (4) type "C" company officers' quarters, five (5) type "D" company officers' quarters, and five (5) type "E" company officers' quarters, including all utilities;

(2) If one or more type "C" company

	(A)	(B)	(C)	(D)
(1).....	\$323,230.00	\$350,000.00	\$360,000.00	\$379,700.00
(2).....	12,269.00	13,200.00	14,000.00	13,500.00
(3).....	11,046.00	11,700.00	12,400.00	12,500.00
(4).....	11,043.00	11,800.00	12,700.00	12,500.00
(5).....	10.00	.....	.....	.....
(6).....	35.00	50.00	27.00	30.00
(7).....	5,000.00	11,000.00	12,000.00	\$,000.00

Item IV: To construct and complete three (3) type "A", three (3) type "B1" and two (2) type "B2" company officers' quarters, Spec. No. 9142-D-A, including utilities.

- Complete bids follow:
- (A) San Francisco Const. Co., San Francisco, \$114,417.00.
 - (B) Leo Epp, San Francisco, \$114,797.00.
 - (C) Robert E. McKee, Los Angeles, \$116,000.00.
 - (D) Clinton Const. Co., San Francisco, \$121,300.00.
 - (E) Herbert M. Baruch Corp., L. A., \$137,900.00.
 - (F) Schuler & McDonald, Oakland, \$155,700.00.

Alternate proposals follow:

(1) To construct and complete three (3) type "A", three (3) type "B1" and two (2) type "B2" company officers' quarters, Spec. No. 9142-D-A, includ. utilities;

(2) If one or more type "A" company officers' quarters, not to exceed two (2) are added or

	(A)	(B)	(C)	(D)	(E)	(F)
(1).....	\$11,417	\$114,797	\$116,000	\$121,300	\$137,900	\$155,700
(2).....	13,927	14,200	14,400	14,400	15,000	18,500
(3).....	14,177	14,500	14,400	14,300	15,000	20,000
(4).....	14,177	14,100	14,500	14,200	15,000	20,200
(5).....	2,100	200	3,000	2,800	2,250	1,000
(6).....	63	400	80	50	100	60
(7).....	.....	.....	.....	.....	.....	6,000

Item V: If awarded contract for items 3 and 4 (all company and field officers' quarters), lump sum.

- (A) Clinton Const. Co., San Francisco, \$469,700.00.
- (B) Robert E. McKee, Los Angeles, \$476,000.00.

officers' quarters, not to exceed two (2) are added or omitted, add or deduct;

(3) If one or more type "D" company officers' quarters, not to exceed two (2) are added or omitted, add or deduct;

(4) If one or more type "E" company officers' quarters, not to exceed two (2) are added or omitted, add or deduct;

(5) If textured finish plaster as specified in each set of officers quarters is omitted and in lieu thereof there is installed Typsum plaster, add or deduct;

(6) If finishing of floors as called for under painting specification is omitted in kitchen and pantry and same are sanded and covered with linoleum as specified, add or deduct;

(7) If tile roofing for field and company officers' quarters is omitted and in lieu thereof is installed prepared slate surfaced roll roofing.

omitted, add or deduct from Items 4, 5 and 6;

(3) If one or more type "B1" company officers' quarters, not to exceed two (2) are added or omitted, add or deduct from Items 4, 5 and 6;

(4) If one or more type "B2" company officers' quarters, not to exceed two (2) are added or omitted, add or deduct from Items 4, 5 and 6;

(5) If tile roofing as specified for types "A" and "B" company officers' quarters is omitted, and in lieu thereof there is installed prepared slate surface roll roofing, deduct from 4, 5 and 6;

(6) If roof insulation for company officers' quarters is omitted, deduct from Items 4, 5 and 6;

(7) If textured finish plaster specified for officers' quarters is omitted and in lieu thereof there is installed gypsum plaster, add or deduct from Items 4, 5 and 6.

Complete bids follow:

- (C) Herbert M. Baruch Corp., Los Angeles, \$493,300.00.

Item VI: If awarded contract for items I, II, III and IV—lump sum.

- (A) Clinton Const. Co., San Francisco, \$1,195,000.00.
- (B) Robert E. McKee, Los Angeles, \$1,240,200.00.

BIDS OPENED

SAN LUIS OBISPO COUNTY, Cal. —M. J. Bevanda, Elks Bldg., Stockton, at \$72,591.25 submitted low bid to the State Highway Commission, Sacramento, to grade and pave 1.9 miles with portland cement concrete at various locations between Pismo and San Luis Obispo, involving:

- (1) 9600 cu. yds. roadway excav., unclass.;
- (2) 210,000 sta. yds. overhaul;
- (3) 45 cu. yds. struc. excav.;
- (4) 1600 cu. yds. remove existing macadam surface;
- (5) 1600 cu. yds. salvaged macadam base;
- (6) 14,400 sq. yds. reshaping existing surface;
- (7) 4740 cu. yds. class A Portland cem. conc. pave.;
- (8) 9 cu. yds. class A Portland cem. conc. struc.;
- (9) 112,000 lbs. bar reinf. steel pave. and struc.;
- (10) 4 lin. ft. 18-in. C.M.P.;
- (11) 6 lin. ft. 24-in. C.M.P.;
- (12) 1 only cast steel cover and frame for drop inlet;
- (13) 280 tons crusher run base;
- (14) 120 tons broken stone bituminous macadam;
- (15) 8 tons emuls. asphalt road oil, bituminous macadam;
- (16) 1500 bbls. heavy fuel oil;
- (17) 430 M gal. water;
- (18) 4 each embankment protector assemblies to be removed and replaced;
- (19) 60 ea. timber guide posts and culvert markers to be removed and reset;
- (20) 120 stations finishing roadway.

Complete bids follow:

- (A) M. J. Bevanda, Stockton, \$72,591.25.
- (B) T. C. Rogers, Inc., Los Angeles, \$78,065.00.
- (C) Tiffany Const. Co., San Jose, \$78,326.50.
- (D) United Concrete Pipe Corp., Los Angeles, \$87,291.00.

Unit prices follow:

	(A)	(B)	(C)	(D)
(1).....	\$.50	\$.50	\$.40	\$.65
(2).....	\$.008	.01	.006	.005
(3).....	1.25	1.00	1.00	1.00
(4).....	.75	.60	.35	.55
(5).....	.50	1.00	.75	.55
(6).....	.30	.05	.10	.10
(7).....	9.90	10.60	11.90	13.40
(8).....	25.00	30.00	22.00	30.00
(9).....	.05	.06	.06	.05
(10).....	2.75	3.00	2.00	5.00
(11).....	4.00	4.00	2.25	5.00
(12).....	30.00	25.00	20.00	50.00
(13).....	3.00	4.00	3.35	3.00
(14).....	3.50	4.00	4.25	3.00
(15).....	25.00	50.00	28.00	30.00
(16).....	2.00	4.00	2.00	2.50
(17).....	1.50	1.50	2.30	2.00
(18).....	3.50	150.00	5.00	20.00
(19).....	1.00	1.00	2.00	2.00
(20).....	12.00	7.00	4.00	6.00

BIDS OPENED

SAN FRANCISCO.—Eaton & Smith, 715 Ocean Ave., at \$1,130.72 submitted low bid to the Department of Public Works, S. J. Hester, Deputy Director, to improve Gaven St. between Barneveld Ave. and Merrill St. Estimated cost, \$1150. Complete bids follow:

- Eaton & Smith\$1,130.72
- Fay Improvement Co.1,279.53
- E. J. Treacy1,621.84

FRESNO, Cal. — Residents of the present Bullard Mutual Water Dist. will vote November 6 on the formation of Fresno County Water Works District No. 2. The election will form the basis for an authorization to apply for Federal aid under the PWA construction program. Preliminary estimates of work to be done, which includes installation of new mains and repairs to the pumping system, fix the cost at approximately \$34,500.

SAN LUIS OBISPO, Cal.—The City of San Luis Obispo has applied to the Federal Administration of Public Works for a grant of \$10,372 towards the cost of constructing extensions to sewage treatment plant. The work will include removal of sections of the

present outfall screen and grit chamber and install clarifiers, chlorine contact chamber, sludge and water piping, new creek crossing, roadway, walks and outside lighting. Charles Gilman Hyde, care of University of California, Berkeley, is the consulting engineer.

EL DORADO COUNTY — GRADING — GOVT.

EL DORADO COUNTY, Cal.—Hemstreet & Bell, 501 11th St., Marysville, Calif., at \$135,843.05 submitted low bid to the Bureau of Public Roads, C. H. Sweetser, District Engineer, 461 Market St., San Francisco, to grade 2.189 mi. Section G Route 32, Placerville-Lake Tahoe National Forest Highway, El Dorado National Forest, El Dorado County, involving:

- (1) 21 acres clearing;
- (2) 149,000 cu. yds. unclass. excav.;
- (3) 1800 cu. yds. unclass. excavation struc.;
- (4) 239,000 sta. yds. overhaul;
- (5) 2.189 mi. finish earth graded rd.;
- (6) 80 cu. yds. cem. rubble masonry;
- (7) 290 lin. ft. 8-in. C.G.M.P. (pref.);
- (8) 2446 lin. ft. 18-in. C.G.M.P. in place;
- (9) 306 lin. ft. 24-in. C. G. M. P. in place;
- (10) 172 lin. ft. 30-in. C.G.M.P. in place;
- (11) 56 lin. ft. 18-in. relay salvage pipe;

- (12) 62 lin. ft. remove and dispose of exist. C.G.M.P.;
 - (13) 100 cu. yds. cru. rock or gravel backfill;
 - (14) 20,000 gals. furnish and apply asph. material;
 - (15) lump sum extra work, move and reset milestones;
 - (16) lump sum maintenance of exist. road and detours.
- Complete bids follow:
 (A) Hemstreet & Bell, Marysville, \$135,843.05.
 (B) Hanrahan Co., San Francisco, \$145,237.20.
 (C) Fredrickson & Watson, Oakland, \$146,989.25.
 (D) Bodenhamer Constr. Co., Oakland, \$152,165.76.
 (E) MacDonald & Kahn, San Francisco, \$162,439.
 (F) Geo. Pollock Co., Sacramento, \$164,969.
 (G) Young & Son, Berkeley, \$189,821.
 (H) Engineer's Estimate, \$97,452.

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
(1).....	\$ 250.00	\$ 400.00	\$ 250.00	\$ 350.00	\$ 300.00	\$ 500.00	\$ 300.00	\$ 250.00
(2).....	.75	.79	.82	.87	.92	.90	1.10	.52
(3).....	1.50	2.00	1.50	1.25	1.75	1.50	1.75	1.50
(4).....	.01	.042	.02	.0075	.015	.07	.01	.01
(5).....	250.00	300.00	250.00	300.00	500.00	500.00	500.00	250.00
(6).....	15.00	15.00	12.00	15.00	20.00	15.00	18.00	15.00
(7).....	1.25	.90	1.00	.82	1.00	1.25	.85	1.00
(8).....	1.80	1.75	2.00	1.56	1.60	2.00	1.75	1.55
(9).....	2.75	2.50	2.50	2.31	2.50	2.50	2.70	2.25
(10).....	3.75	3.00	3.00	2.92	3.50	3.00	3.40	2.90
(11).....	.75	1.00	.50	.60	.50	2.00	.50	1.00
(12).....	1.00	1.00	.50	.65	.50	1.50	.50	.50
(13).....	4.00	2.00	5.00	6.00	4.50	3.00	10.00	3.60
(14).....	.08	.06	.10	.09	.10	.10	.15	.085
(15).....	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
(16).....	1500.00	1500.00	1500.00	1500.00	1500.00	1500.00	1500.00	1500.00

Recommended that all bids be rejected and that project for re-advertised.

SAN BERNARDINO COUNTY—GRADE & PAVE—STATE

SAN BERNARDINO COUNTY, Cal.—C. O. Sparks, 2309 E Ninth St., Los Angeles, at \$91,716.40 submitted low bid to State Highway Commission, Sacramento, to grade and pave 3.5 mi. between Sierra Avenue and Riverside Avenue, San Bernardino, with portland cement concrete, involving:

- (1) 182 sta. clear and grub right of way;
- (2) 18,600 cu. yds. ordaway excav., unclass.;
- (3) 38,000 sta. yds. overhaul;
- (4) 16,000 cu. yds. selected material;
- (5) 1450 cu. yds. struc. excav.;
- (6) 39,500 sq. yds. subgrade for pave.;
- (7) 8,500 cu. yds. class A Portland cem. conc. pave.;
- (8) 381 cu. yds. class A Portland cem. conc. struc.;
- (9) 244,000 lbs. bar reinf. steel pave. and struc.;
- (10) 304 lin. ft. 18-in. C.M.P.;
- (11) 112 lin. ft. 24-in. C.M.P.;
- (12) 70 lin. ft. 36-in. C.M.P.;
- (13) 1900 M gal. water;
- (14) 1800 bbls. heavy fuel oil;
- (15) 3.4 mi. mixing fuel oil and shoulder material;

- (16) 80 cu. yds. conc. remov. from existing pave. and struc. and disposed of;
- (17) 0.2 mile existing fence, remove and reset;
- (18) 182 sta. finishing roadway;
- (19) 60 each monuments complete in place.

- Complete bids follow:
 (A) C. O. Sparks, Los Angeles, \$91,716.40.
 (B) E. L. Yeager, San Bernardino, \$94,367.40.
 (C) Basich Bros., Torrance, \$95,846.
 (D) Match Bros. & Geo. Gardner & Sons, Elsinore, \$99,292.94.
 (E) Griffith Co., Los Angeles, \$101,024.00.
 (F) David H. Ryan, San Diego, \$105,017.00.
 (G) P. J. Akmadzich, Los Angeles, \$105,673.80.
 (H) Weymouth-Crowell Co., Los Angeles, \$109,983.20.
 (I) Jahn & Bressi, Los Angeles, \$110,452.20.

Unit prices follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
(1).....	\$ 1.00	\$ 10.00	\$ 1.00	\$ 4.00	\$ 3.00	\$ 1.00	\$ 3.45	\$ 3.50	\$ 10.00
(2).....	.80	.22	.18	.21	.25	.20	.40	.14	.25
(3).....	.005	.01	.01	.005	.005	.01	.009	.01	.005
(4).....	.52	.43	.48	.45	.60	.60	.63	.78	.60
(5).....	.50	1.00	.75	.50	.60	.60	.70	.60	.60
(6).....	.07	.09	.06	.08	.08	.08	.08	.09	.07
(7).....	6.15	5.79	6.84	7.10	7.05	7.18	7.10	7.42	7.65
(8).....	14.00	15.00	13.00	16.40	15.00	18.00	15.50	16.40	18.00
(9).....	.05	.06	.0475	.04	.04	.05	.045	.051	.045
(10).....	1.60	1.60	1.50	1.81	2.00	1.75	1.80	1.60	2.00
(11).....	2.00	2.50	2.25	2.70	2.50	2.50	2.65	2.20	2.10
(12).....	4.50	6.00	4.25	4.87	5.00	4.50	5.06	4.50	4.50
(13).....	.60	1.00	.30	.50	.60	1.00	.60	1.00	.60
(14).....	1.65	1.60	1.65	1.25	1.60	1.50	1.30	1.75	1.70
(15).....	200.000	220.00	400.00	350.00	400.00	300.00	460.00	240.00	500.00
(16).....	1.50	3.00	1.00	3.00	1.50	2.00	2.00	1.00	2.50
(17).....	200.00	200.00	150.00	300.00	300.00	400.00	345.00	345.00	400.00
(18).....	5.00	3.00	5.00	2.00	5.00	5.00	4.60	6.00	8.00
(19).....	2.00	3.00	1.50	2.00	2.50	2.00	3.00	4.00	2.50

BIDS OPENED

SAN FRANCISCO.—Eaton & Smith, 715 Ocean Ave., at \$3,396 submitted low bid to the Department of Public Works, S. J. Hester, Deputy Director, for improving Ortega St. between 20th and 21st Avenues. Estimated cost \$3,800. Complete bids follow:
 (A) Eaton & Smith.....\$3,396.00
 (B) Union Paving Co.....4,054.60

Unit bids follow:
 200 cu. yds. grading, (A) \$.43; (B) \$.52
 220 lin. ft. 8-in. VCP sewer, in place, (A) \$1.25; (B) \$1.50;
 10 8x6 "Y" branches in place, (A) \$1; (B) \$1.75;
 1 brick manhole complete, (A) \$90.00; (B) \$87.50;
 250 lin. ft. 6-in. VCP side sewer in place, (A) \$.90; (B) \$1.00;
 480 lin. ft. armored conc. curb, (A) \$.65; (B) \$.80;
 9,840 sq. ft. asph. conc. pave. consisting of a 6-in. Class F conc. base and a 2-in. asph. conc. wearing surface, (A) \$.20; (B) \$.24.

BIDS OPENED

HUMBOLDT COUNTY, Calif.—Mercer-Fraser Co., Second and Commercial Sts., Eureka, at \$101,939 submitted low bid to State Highway Commission, Sacramento, to grade and surface with screened gravel 1.9 miles between Jordan Creek and South Scotia Bridge, involving:

- (1) 7 acres clear and grub right of way, loc. A;
 - (2) 4.5 acres clear and grub right of way, loc. B;
 - (3) 11.5 acres clear and grub right of way, loc. C;
 - (4) 10 each remove and grub redwood trees, size 1;
 - (5) 20 each remove and grub redwood trees, size 2;
 - (6) 20 each remove and grub redwood trees, size 3;
 - (7) 17 each remove and grub redwood trees, size 4;
 - (8) 6 each remove and grub redwood trees, size 5;
 - (9) 5 each remove redwood trees, size 1;
 - (10) 8 each remove redwood trees, size 2;
 - (11) 3 each remove redwood trees, size 3;
 - (12) 3 each remove redwood trees, size 4;
 - (13) 4 each remove redwood trees, size 5;
 - (14) 2 each remove redwood trees, size 6;
 - (15) 118,000 cu. yds. roadway excav., unclass.;
 - (16) 643,500 sta. yds. overhaul;
 - (17) 1250 cu. yds. struc. excav.;
 - (18) 70 cu. yds. class A Portland cem. conc. struc.;
 - (19) 5300 lbs. bar reinf. steel struc.;
 - (20) 15,350 cu. yds. gravel base;
 - (21) 5400 cu. yds. screen. grav. surf.;
 - (22) 2050 M gal. water;
 - (23) 120 lin. ft. 8-in. cor. met. pipe;
 - (24) 370 lin. ft. 18-in. cor. met. pipe;
 - (25) 210 lin. ft. 24-in. cor. met. pipe;
 - (26) 180 lin. ft. 30-in. cor. met. pipe;
 - (27) 76 lin. ft. 48-in. cor. met. pipe;
 - (28) 110 lin. ft. cor. met. pipe clean and relay;
 - (29) 500 lin. ft. 8-in. perf. met. pipe;
 - (30) 1600 each horiz. redwood timber crib mom.;
 - (31) 150 each timber guide posts and culvert mark. complete in place;
 - (32) 1000 lin. ft. lam. timber guard rail;
 - (33) 330 bbls. heavy fuel oil;
 - (34) 120 sta. finishing roadway;
 - (35) 50 each monuments complete in place.
- Complete bids follow:
 (A) Mercer-Fraser Co., Eureka, \$101,939.00.

COCONINO COUNTY, ARIZ. — GRADING — STATE

COCONINO CO., Ariz.—Morrison-Knudsen, 1121 Title Guarantee Bldg., Los Angeles, at \$263,994.99 (as previously reported) submitted low bid to

the Bureau of Public Roads, 802 Title & Trust Bldg., Phoenix, Ariz., for grading Sections D and E of the Cameron-Desert View Approach to Grand

Canyon National Park, Coconino Co., Ariz.

Complete bids follow:

	Sec. D	Deduct	Net bid on "D"	Sec. E	Total comb. bid
(A) Morrison-Knudsen Co., Los Angeles	\$216,866.80	\$ 6,506.01	\$210,360.90	\$59,634.10	\$269,994.99
(B) Martin Wunderlich, Jefferson City, Mo.	223,352.60	8,709.58	216,652.02	56,696.60	273,348.62
(C) G. C. Daley & Vinson & Pringle, Phoenix	247,180.42	12,339.02	234,821.40	64,284.10	299,105.50
(D) Gist & Bell, Arcadia, Cal.	247,576.90	19,806.15	227,770.75	67,276.20	295,046.95
(E) Hearsey-Moore & J. A. Casson, Oakland	254,888.25	2,548.88	252,339.37	54,473.00	306,812.37
(F) O. F. Fisher, Phoenix	263,292.43	7,898.77	255,393.66	59,355.85	314,749.51
(G) Skousen Bros. & Haynes & Burn, Albuquerque, N. M.	265,998.30		265,998.30		
(H) J. E. Haddock, Pasadena, Cal.	266,780.00	5,335.60	261,444.40	69,275.40	330,719.80
(I) Engineer's Estimate	233,103.75			53,849.25	286,952.00

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
100,000 cu. yds. unclass. excav.	\$.65	\$.75	\$ 1.16	\$.82	\$.90	\$.89	\$ 1.08	\$ 1.05	\$.80
3000 cu. yds. do for struc.	1.50	2.00	2.00	2.00	3.00	3.00	2.50	2.50	2.00
81,000 cu. yds. do borrow	.55	.38	.23	.42	.35	.52	.35	.45	.60
56,000 sta. yds. overhaul	.02	.03	.025	.04	.03	.05	.04	.04	.03
10,938-mi. finish earth gr. rd.	300.00	200.00	190.00	300.00	500.00	750.00	100.00	550.00	250.00
1722 cu. yds. Class A concrete	25.00	28.00	26.00	35.00	35.00	31.00	34.00	29.00	25.50
465 cu. yds. Class B concrete	25.00	28.00	36.00	33.00	35.00	28.00	30.00	30.00	23.00
48 cu. yds. Class D conc.	40.00	60.00	30.00	40.00	35.00	32.00	37.00	35.00	27.00
186,000 lbs. rein. steel	.06	.08	.058	.07	.06	.07	.06	.065	.055
375 lbs. bronze bear. plates	.50	.60	.50	.50	.75	.45	1.00	.50	.25
2048 lin. ft. 24-in. CMP	3.00	3.50	3.15	3.00	3.60	3.25	3.00	3.00	3.50
468 lin. ft. 30-in. CMP	4.00	4.00	4.00	3.50	4.50	3.83	1.75	4.35	4.50
862 lin. ft. 36-in. CMP	6.00	6.00	5.90	5.00	6.10	5.65	6.25	6.00	5.75
398 lin. ft. 48-in. CMP	8.50	8.00	8.15	7.00	8.60	7.79	8.25	8.45	8.00
39,000 cu. yds. mi. borrow haul	.30	.25	.24	.30	.25	.30	.32	.30	.20
69 lin. ft. steel hand rail	4.00	8.00	4.00	4.00	5.00	4.00	4.00	4.00	4.00

SECTION E

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
20,300 cu. yds. unclass. excav.	\$.95	\$.85	\$ 1.50	\$ 1.35	\$.90	\$.94		\$ 1.50	\$.80
609 cu. yds. do for struc.	2.50	2.00	2.00	3.00	3.00	3.00		2.50	2.00
21,290 cu. yds. do borrow	.55	.50	.412	.45	.35	.52		.48	.60
1000 sta. yds. overhaul	.03	.05	.045	.05	.03	.05		.08	.03
3,623-mi. finish earth grade road	300.00	200.00	500.00	400.00	500.00	750.00		500.00	250.00
51 cu. yds. Class A conc.	32.00	30.00	26.00	37.00	35.00	30.00		29.00	25.50
195 cu. yds. Class B conc.	27.00	30.00	26.00	35.00	35.00	27.00		30.00	23.00
99 cu. yds. Class D conc.	50.00	30.00	30.00	40.00	35.00	31.00		35.00	27.00
255 500 lbs. rein. steel	.07	.10	.058	.08	.06	.07		.075	.05
390 lbs. bronze bear. plates	.50	.60	.50	.50	.75	.45		.50	.25
84 lin. ft. 18-in. CMP 16-ga.	2.30	3.00	2.00	2.25	3.00	2.35		2.00	2.50
610 lin. ft. 24-in. CMP 14-ga.	3.00	3.50	3.00	3.00	3.50	3.25		3.00	3.50
116 lin. ft. 36-in. CMP 12-ga.	6.00	6.00	5.70	5.00	6.50	5.65		5.90	5.75
120 lin. ft. 36-in. CMP 10-ga.	7.50	7.00	7.00	6.00	7.80	6.80		7.25	6.50
40 lin. ft. 42-in. CMP 12-ga.	7.50	7.50	6.80	6.00	7.60	6.24		7.05	7.00
80 lin. ft. 48-in. CMP 12-ga.	8.50	9.50	8.00	7.00	9.85	7.79		8.45	8.00
11,400 cu. yds. mi. borrow haul	.25	.30	.24	.35	.25	.30		.30	.20
99 lin. ft. steel hand rail	4.00	10.00	4.00	4.00	5.00	4.00		4.00	4.00

*No bid on Section E.

(B) Hemstreet and Bell, Marysville, \$125,270.50.

Unit prices follow:

	(A)	(B)
(1).....	\$ 415.00	\$ 400.00
(2).....	175.00	200.00
(3).....	1000.00	1500.00
(4).....	58.00	50.00
(5).....	85.00	110.00
(6).....	200.00	220.00
(7).....	320.00	375.00
(8).....	575.00	560.00
(9).....	42.00	30.00
(10).....	60.00	70.00
(11).....	160.00	140.00
(12).....	300.00	245.00
(13).....	475.00	390.00
(14).....	750.00	750.00
(15).....	.285	.40
(16).....	.005	.005
(17).....	.65	1.50
(18).....	28.00	25.00
(19).....	.06	.055
(20).....	.90	.90
(21).....	1.00	1.25
(22).....	1.00	1.50
(23).....	.45	.30
(24).....	.50	.40
(25).....	.60	.50
(26).....	.65	.60
(27).....	.75	.75
(28).....	.65	1.00
(29).....	.75	.75
(30).....	.35	.70
(31).....	1.60	1.25
(32).....	1.00	.10
(33).....	3.60	3.00
(34).....	6.50	5.00
(35).....	3.00	3.00

VENTURA COUNTY — CONCRETE BRIDGE — STATE

VENTURA COUNTY, Cal. — Carlo Bongiovanni, 2561 Canyon Drive, Hollywood, at \$26,591.11 submitted low bid to State Highway Commission, Sacramento, to construct a reinforced concrete girder bridge across Coyote Creek about 9 miles north of Ventura, consisting of one 85-foot span; two 42-foot spans; and two 25-foot 3/4-in. spans on concrete piers with steel pile foundations and concrete abutments with concrete pile foundations, involving:

	(A)	(B)	(C)
(1).....	\$.98	\$ 2.00	\$ 2.00
(2).....	.36	.40	.30
(3).....	1.59	1.50	2.30
(4).....	38.85	55.00	40.00
(5).....	1.55	1.50	1.70
(6).....	17.78	35.00	7.00
(7).....	17.00	10.00	19.00
(8).....	17.25	16.00	20.00
(9).....	1.50	1.00	1.25
(10).....	.045	.04	.046
(11).....	12.50	20.00	15.00
(12).....	.85	1.50	1.50
(13).....	1011.00	3161.00	605.00

- (8) 545 cu. yds. Class A Port. cem. conc. struc.;
- (9) 505 lin. ft. solid timber railing;
- (10) 111,500 lbs. bar reinf. steel;
- (11) 3 each spillway assemblies;
- (12) 54 lin. ft. 8-in. C. M. P.;
- (13) 1 lot misc. items of work.

Complete bids follow:

- (A) Carlo Bongiovanni Constr. Co., Hollywood, \$26,591.11.
- (B) Byerts & Dunn, Los Angeles, \$28,562.
- (C) Sharp & Fellows, Los Angeles, \$28,974.25.
- (D) R. H. Travers, Los Angeles, \$29,420.
- (E) J. J. Munnemann Co., Santa Barbara, \$29,513.60.
- (F) Bodenhamer Constr. Co., Oakland, \$29,601.
- (G) Sander, Pearson & Dimmitt & Taylor, Los Angeles, \$29,675.
- (H) Contracting Engineers, Los Angeles, \$26,635.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
(1).....	\$ 2.00	\$ 3.00	\$ 1.50	\$ 2.20	\$ 1.50	\$ 2.20	\$ 1.50	\$ 1.50
(2).....	.36	.40	.30	.40	.75	.25	.30	.70
(3).....	1.59	1.50	2.30	2.20	1.75	2.00	2.00	1.50
(4).....	38.85	55.00	40.00	50.00	40.00	35.00	50.00	35.00
(5).....	1.55	1.50	1.70	1.75	2.25	2.00	1.70	1.60
(6).....	17.78	35.00	7.00	16.00	35.00	20.00	30.00	30.00
(7).....	17.00	10.00	19.00	10.00	15.00	16.00	11.00	13.65
(8).....	17.25	16.00	20.00	20.00	17.00	20.00	20.00	16.65
(9).....	1.50	1.00	1.25	1.00	1.25	1.00	1.20	1.50
(10).....	.045	.04	.046	.046	.0425	.045	.05	.04
(11).....	12.50	20.00	15.00	15.00	30.00	30.00	16.00	25.00
(12).....	.85	1.50	1.50	1.00	.90	1.00	1.00	1.50
(13).....	1011.00	3161.00	605.00	1400.00	550.00	1500.00	400.00	1000.00

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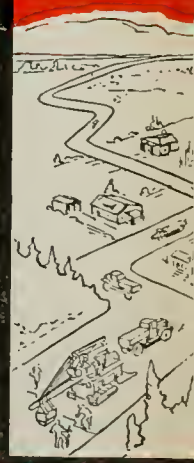
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On All NIRA Jobs**

**Contractors to Campaign for Public
Works During Winter**

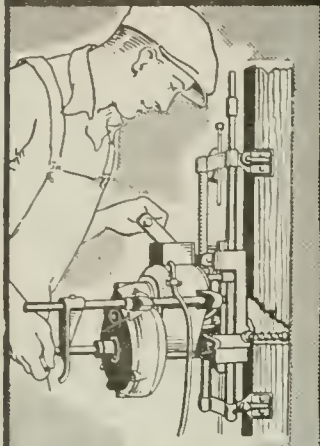
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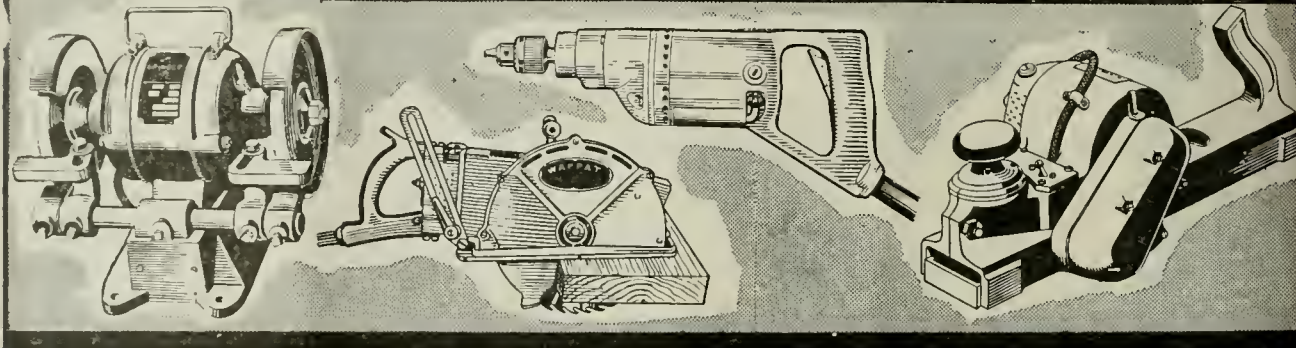
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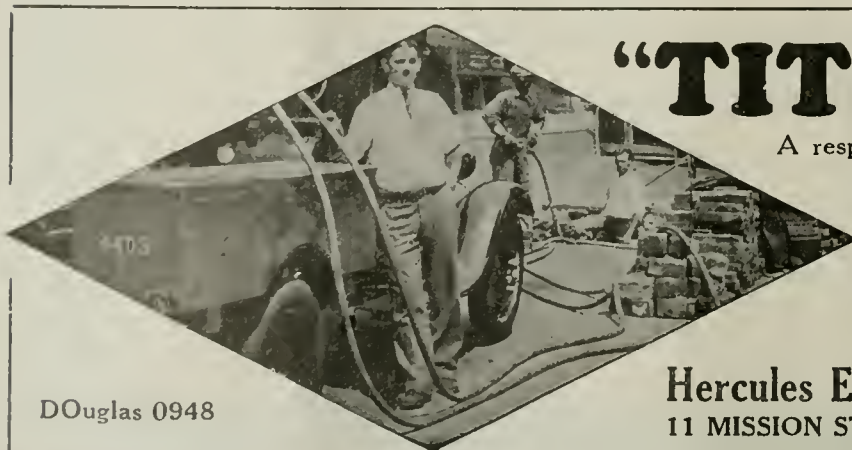
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No. 41

PWA To Require Contract Bids On All Federally Financed Projects

Local agencies receiving Federal Public Works funds will be required to call competitive bids and do all work by contract except in unusual instances, the PWA has ruled. Confirmation of the administration's attitude toward the contract method of public works is contained in the letter from E. W. Clark, executive assistant to Administrator Harold L. Ickes, written to Floyd O. Booe, secretary-manager of the Associated General Contractors, Northern California Chapter. The letter follows:

"I wish to thank you for the commendatory remarks contained in your letter of October 7 with reference to the letting of contracts to the lowest responsible bidder.

"Although in certain instances municipalities may be permitted to carry out their own construction work without the letting of contracts, it is not encouraged by this Administration. The adoption of the force account system complicates exceedingly our procedure, and we will consider such applications only on very special cases.

"In any event, it would be necessary to use labor supplied by the office of the National Reemployment Service set up especially for this purpose in order that the various preferences for veterans with dependents, etc., may be checked. Minimum wage rates set by the Public Works Administration would of course, have to be paid.

"I would be glad to receive your further comments at any time, and hope that you continue to give us your moral support and actual cooperation in this tremendous task."

Mr. Booe's letter to the administrator follows:

"May we commend your administration for the very definite requirement contained in Bulletin No. 2 for the guidance of State Advisory Boards and State Engineers (PWA) to this effect:

"The National Industrial Recovery Act and the rules and regulations approved by the Special Board for Public Works contem-

plate that bids will be received and contracts will be let to the lowest responsible bidder in carrying out improvements under the Act. Any deviation from this practice must have the prior approval of the Administrator."

"This we believe is one requirement which will tend to secure efficient expenditure of public works funds under your Administration.

"Experience has invariably shown that the expenditure of public funds through what is known as the "day labor" or "force account" system is very inefficient and wasteful as compared with that of guaranteed performance on receipt of competitive bids and carried out under strict contract and specifications and proper inspection. We, therefore, feel that in issuing definite orders along this line you are carrying out a program that will more fully safeguard the public interest and the investment of public funds that are made in every project."

BRIDGE PAYROLLS SUPPORTING 4000

Nearly 4,000 men, women and children are now deriving support from the direct labor in the construction of the San Francisco-Oakland Bay Bridge, according to Harrison S. Robinson, Chairman of the Financial Advisory Committee on

the transbay bridge project.

Inquiry into the employment on the bridge was made by Chief Engineer C. H. Purcell at the request of Robinson.

This inquiry revealed that 1331 men were employed on the bridge during the month of September.

Of this number 490 are war veterans.

These 1331 men have a total of 2303 dependents.

All but a negligible number of bridge specialists with experience on other large bridges are registered voters of the San Francisco Bay Region.

ASK BIDS ON CONSTRUCTION OF CAUSEWAY

Proposals To Be Opened December 12 For \$980,000 Structure at Mare Island

A call for bids on construction of the new causeway to connect Mare Island and Vallejo was issued yesterday by Capt. Ralph Whitman, Public Works Officer at Mare Island. The Public Works Administration recently approved an appropriation of \$980,000 for the construction for which plans have been ready for some time.

The contract will include the causeway of steel and reinforced concrete construction, a bascule bridge and appurtenances, track and electrification for street railway, signal equipment, Mare Island gate house and approaches.

Bids are to be received at Mare Island at 11 A. M., December 12. The work will be under a PWA contract with minimum wages set at \$1.10 an hour for skilled labor and 45 cents an hour for unskilled.

Specifications No. 7448 are obtainable at the office of Commandant, Mare Island, on deposit of \$25.

ALLEN IN CHARGE OF NEVADA PWA

Separation of the Federal Public Works Administration into two units for the states of Nevada and Utah has been approved, according to dispatches from Washington. The work to date has been supervised by R. A. Hart, Salt Lake City, assisted by R. A. Allen in Reno. In the future, according to advices to Allen, he will be in full charge of the state of Nevada administration and Hart will remain as supervising engineer in Utah only.

\$3,000,000 WORK UNDERWAY IN IDAHO

Fifty-two highway projects of various descriptions are now in progress in Idaho, all but three having been started since July 1, according to J. H. Stemmer, director of highways. The contracts involve about \$3,000,000.

GATE BRIDGE WORK ENTERS HAZARDOUS PART

Elaborate Precautions For Safety of Caisson Workers Completed

With work commencing this week on the actual erection of the south pier of the Golden Gate Bridge, officials of the Golden Gate Bridge and Highway District are giving first consideration to the safety of underwater workers, a large number of whom will be employed until completion of the pier.

The following description of the work is provided by the district news bureau:

"This part of the construction program is regarded by engineers as one of the most difficult in the entire project. It involves the use of both divers and caisson workers, who will be required to work under air pressure.

"The south pier, located 1100 feet off shore opposite Fort Winfield Scott, is being built in approximately 65 feet of water with its base set in a rock excavation which has been carried to a point 95 feet below mean high water level.

"Construction of the pier involves the completion first of the fender wall, which will facilitate operations on the caisson and ultimately will serve as a permanent fender to guard the finished pier against possible impacts from passing vessels.

"The work starting now involves the placing at the end of the temporary trestle, now extending to the edge of the pier excavation of a steel guide tower from which the first of 22 structural steel sections, that will constitute the fender, is to be lowered.

"From the first the building of the fender will necessitate the use of divers and later when this is completed and the caisson floated into place, crews of caisson workers, known among construction men as "sand hogs," will be required.

"In the employment of men of both these classes the first thing that must be considered is their physical condition and the Pacific Bridge Company, pier contractors, has employed a physician under whose direction every underwater worker must be subjected to a rigid examination.

"Hospital locks have been provided and in those men who never before have worked under air pressure will be subjected to the high-

MOTT APPOINTED VALUATION EXPERT

A. G. Mott, chief engineer for the California Railroad Commission, has been appointed by the state board of equalization to supervise the valuation of public utility property which, in 1935 will be restored to local assessment rolls for city and county taxation.

The appointment becomes effective November 1 and Mott will head a new valuation unit in the office. Commenting on the appointment, R. E. Collins, chairman of the board, states:

Mott has shown an unusual grasp of tax problems as they relate to valuation procedure. He has made studies in other states. The board of equalization availed itself of his services in 1932 in utility valuation work of the tax research bureau. We feel the state is fortunate in having his full-time service now on this work.

est pressure under which they will be called upon to work and kept under observation to ascertain their suitability for such work.

"The Pacific Bridge Company has provided a complete, modern plant for the use of underwater workers. This plant is provided with showers and change rooms and the men will be furnished with hot coffee, a liberal use of which is one of the requirements for men working under high air pressure.

"Another safety provision is a hospital lock of the latest design, in which men stricken with the "bends," or caisson disease, will be given expert medical attention.

"It is pointed out by Chief Engineer Joseph B. Strauss that with proper care there is slight danger of a fatality when an underwater worker is attacked with the "bends."

"At the earliest possible moment after the sufferer has been brought to the surface he is placed in the hospital lock and put under air pressure equivalent to that under which he has been working, the doctor in charge observing him carefully throughout the procedure and gradually lowering the air pressure as the attack subsides.

"In severe cases a pressure considerably higher than the working pressure is applied, and if the attack persists after decompression the patient is again subjected to pressure.

"With every modern safeguard provided it is anticipated that construction of the pier and fender, which will be pushed to completion with all possible speed, may be accomplished with no fatalities and a new record in bridge construction established."

PUSH CAMPAIGN FOR CONSTRUCTION DURING WINTER

General Contractors Will Urge Public Works in Off Season

Elimination of the traditional winter lag in both private and public construction, so that employment upon the \$3,300,000,000 national construction program will not be interrupted but steadily gain impetus, will constitute one of the major objectives of the Fall meeting of the governing and advisory boards of the Associated General Contractors of America, to be held November 13 and 14, at the Willard Hotel, Washington, D. C.

Urgent representations are expected to be made to the Public Works Administration advocating the launching of construction projects at an accelerated speed regardless of the seasonal tradition and pointing out the tragic and unnecessary waste of man power and wage earning resulting from seasonal operations, Edward J. Harding, managing director of the association, states.

"Investigations by the industry and by the Government itself, have shown that the winter lag in construction is almost wholly a matter of tradition," Harding said. "With the national unemployment situation still unrelieved to any appreciable extent and with the certainty of more acute suffering as winter approaches, there can be no justification for holding back until Spring the great majority of the projects contemplated."

Leaders in the industry believe, he said, that the Government can perform a valuable service by demonstrating upon a large scale that most types of construction can be economically launched at any season of the year, thereby eliminating the drastic seasonal fluctuations in employment that are typical of the industry even in normal times.

Harding pointed out that although approximately 50 percent of the \$3,300,000,000 public works fund has been specifically allotted to date, less than \$100,000,000 actually has been withdrawn from the Treasury and put into circulation. Unless an intensive effort is made to encourage construction throughout the winter, he said, the greater portion of the allotted funds for employment will remain in the Treasury until Spring.

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NEW FEDERAL PURCHASING BUREAU OPENS

**L. W. Robert, Jr., Expected to
Head Central Procurement
Division**

The new procurement division of The Treasury, which, under the President's reorganization order of June 10, is intended to eventually centralize all of the purchasing, warehousing, and distributing functions of the entire Federal Government, came into being on October 16, says an article in the "Government Advertiser." The article continues:

"While no official announcement is yet forthcoming as to who will be appointed director of procurement, it appears to be an open secret that Mr. L. W. Robert, Jr., assistant secretary of the treasury in charge of the Public Health Service, supervising architect's office, division of supply, and the general supply committee, will be designated for this important position. It is expected that Mr. Robert will have an assistant for public works and one for supply. It is not the intention of the procurement division at this time to take over from any of the various departments actual purchasing functions, with the exception of the general supply committee and the supervising architect's office.

"The general supply committee has been abolished and its duties transferred to the new procurement division. The supervising architect's office, which has charge of the federal public building program, also has been absorbed, as have the activities specifically mentioned in the President's reorganization order. This embraces the fuel yards of the bureau of mines and the functions of the federal coordinating service, including the area coordinators, federal real estate board, federal specifications board, federal standard stock catalogue board, federal traffic board, and inter-departmental board of contracts and adjustments.

S. F. Adopts NRA Wage Scales For Municipal Public Works

"The President's order gives the director of procurement unlimited authority to determine the policy and methods of procurement, warehousing, and distribution of property, facilities, structures, improvements, stores, and supplies exercised by any Government agency and may undertake the performance of all of these duties or intrust them in whole or part to any other agency as he may deem desirable in the interest of economy and efficiency. It is authoritatively stated that it is not the intention of the procurement division to arbitrarily assume the purchasing activities now so ably performed by the purchasing officials of the other departments, but to make a thorough and scientific study of all of the complicated intricacies and ramifications of federal purchasing and when this knowledge is acquired to use it in the interest of efficiency and economy with the least possible disruption to the Government's present gigantic procurement set-up.

"It is noted that the Treasury's own purchasing office, the division of supply, is placed in the same category as those of the other departments and independent establishments and will not be disturbed pending the study above referred to. Consolidation of purchases where feasible is to be brought about gradually, and, while it is realized that the procurement division will eventually make purchases of considerable magnitude, especially for the federal departments in Washington, and will exercise control of Government purchasing policy, standardization, specifications, and forms, it is assumed that articles and supplies of a technical nature will continue to be bought as at present.

"It is sincerely to be hoped that whenever and however the 'new deal' in procurement begins another time will be permitted between the date of issuance of proposals and the time for opening of bids to permit the widest competition from all sections of the country."

San Francisco city and county public work will be done under wage scales complying with the provisions of the National Industrial Recovery Act and the California State Recovery Act, according to the terms of an ordinance adopted Monday by the board of supervisors.

Following is the text of the new regulation which is an amendment to the prevailing wage ordinance:

Section 15. (a) That notwithstanding hereafter any condition or provision contained in this ordinance, or in any other ordinance of the City and County of San Francisco, all contracts entered into by the City and County of San Francisco, or by any department, officer, board or commission, for and on behalf of said City and County, for the construction of any public improvement, or for the performance of any public work, shall contain a provision to the effect that all work to be performed under said contract and the compensation to be paid to persons employed in the performance of labor under said contract, and the hours during each day during which said labor shall be performed or services shall be rendered, shall be subject to the provisions of any code adopted or enacted under the authority of the National Industrial Recovery Act or the California Industrial Recovery Act, or any act supplemental thereto, or whichever of said acts shall prevail one over the other. Provided, however, that in all cases where the maximum prevailing rate of wage or hours of labor for persons performing labor or rendering services on said contract as heretofore or hereafter fixed by ordinance or resolution of the Board of Supervisors shall be higher than the rate of wages fixed or provided by any code adopted under authority of the National Industrial Recovery Act or the California Industrial Recovery Act, or any act supplemental thereto, then in that event, the said general prevailing rate of wage as fixed by said Board of Supervisors shall prevail over any rate of wage fixed by any code so adopted.

(b) That any and all penalties heretofore fixed by ordinance or resolution of the Board of Supervisors for the violation of resolution providing for the payment of the highest general prevailing rate of wage for persons performing labor or rendering service under any contract hereafter entered into shall apply to the violation of any provisions of this ordinance.

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771	Webster	Tassi	2000
772	Meyer	Pegel	3000
773	Steele	Owner	2250
774	Associated	Owner	1200
775	Fridstrom	Owner	3000
776	Cassetana	Michel	1836
777	Rossi	Salomon	1490
778	Bruiss	Cappellith	1500
779	Pirates	Jones	1000
780	S. P. Co.	Owner	10000
781	Fiebiuare	Owner	35000
782	Mitchell	Owner	7000
783	Bauer	California	2500
784	Masonic	Coburn	2000
785	Petri	Rasori	4100
786	King	Power	8700
787	Ricci	Michel	2500
788	Ferrua	Damico	3000
789	Goodyear	Owner	1600
790	Silverstein	Salomon	1950
791	Barber	Owner	3500
792	Rainier	Lindgren	4000

ALTERATIONS

(770) NO. 37 DRUMM ST. Alter Warehouse.
Owner—Lawrence Warehouse Co., 37 Drumm St., San Francisco.
Architect—Not Given.
Contractor—O. Presco & Sons, 55 Sterling St., S. F. \$1000

ALTERATIONS

(771) NO. 118-132 SACRAMENTO ST. and 123 Commercial. Alter warehouse, lofts and office.
Owner—G. A. Webster, % Architect.
Architect—H. A. Minton, Underwood Bldg., San Francisco.
Contractor—J. A. Tassi, 268 Market St., San Francisco. \$2000

ALTERATIONS

(772) NO. 2155 BUCHANAN ST. Alter apartments.
Owner—Meyer, % Contractor.
Architect—Not Given.
Contractor—B. Pegel, 760 36th Ave., San Francisco. \$3000

ALTERATIONS

(773) SW FILLMORE AND JACKSON STS. Alter flats to stores.
Owner—F. Steele, 130 St. Elmo Way, San Francisco.
Architect—G. De Colmesnil, 111 Sutter St., San Francisco.
Engineer—A. P. Fisher, 111 Sutter St., San Francisco. \$2250

GREASING STATION

(774) SW EIGHTEENTH AND VALCENCIA STS. One-story Class B greasing station.
Owner—Associated Oil Co., 79 New Montgomery St., San Francisco.
Architect—Not Given. \$1200

DWELLING

(775) NW CAYUGA AND LYELL. One-story and basement frame dwelling.
Owner—W. Fridstrom, 3547 Mission St., San Francisco.
Architect—Not Given. \$3000

ALTERATIONS

(776) SW OCEAN AVE. and Miramar; alter service station.
Owner—F. P. Cassetana, Ocean Ave. Garage.
Architect—Not Given.
Contractor—Michel & Pfeffer, Harrison and 10th Sts. \$1836

REPAIRS

(777) 674 GEARY Street; repair fire damage to apartments.

Owner—G. Rossi & Bros., 1734 Broderick Street.
Architect—Not Given.
Contractor—L. Salomon, 1734 Broderick Street. \$1490

ALTERATIONS

(778) NO. 1926 PALOU ST. Alterations to dwelling.
Owner—J. Bruiss, 2016 Quesada St., San Francisco.
Architect—Not Given.
Contractor—G. Cappellith, 1028 Florida St., San Francisco. \$1500

ALTERATIONS

(779) NO. 972 MARKET ST. Alter restaurant.
Owner—Pirates Cave, 972 Market St., San Francisco.
Architect—Not Given.
Contractor—W. C. Jones, 1132 Guerrero St.

ALTERATIONS

(780) FOURTH AND CHANNEL STS. Alter warehouse.
Owner—Southern Pacific Co., 65 Market St., San Francisco.
Plans by J. H. Christie, Room 1059, 65 Market St., San Francisco. \$10,000

APARTMENTS

(781) SE FILLMORE & JEFERSON STS. Three-story and basement frame apartments (tenement).
Owner—E. Fiebiuare, 1555 Francisco St., San Francisco.
Architect—Not Given. \$35,000

DWELLING

(782) W POTRERO AVE. 50 S 22nd St. Two-story and basement frame dwelling.
Owner—M. F. Mitchell, 1370 Utah St., San Francisco.
Architect—Not Given. \$7000

STORAGE BIN

(783) NO. 530 CHESTNUT ST. Malt storage bin.
Owner—Bauer & Schweitzer Co., 530 Chestnut St., San Francisco.
Architect—Not Given.
Contractor—California Steel Products Co., 490 Bayshore. \$2500

ALTERATIONS

(784) NW VAN NESS AVE. AND Oak St. Alter stores.
Owner—Masonic Temple Association, Premises.
Architect—Not Given.
Contractor—Ira W. Coburn, 2048 Market St., San Francisco. \$2000

ALTERATIONS

(785) NW VALLEJO & Battery STS.; alter factory.
Owner—Petri Cigar Co., premises.
Engineer—W. Adrian, 417 Market St.
Contractor—S. Rasori, 614 Call Bldg. \$4100

ALTERATIONS

(786) LOEW-WARFIELD Bldg., alter basement.
Owner—Will King, Ltd., 35 Taylor St.
Architect—A. A. Cantin, 557 Market Street.
Engineer—F. W. Kellberg, 320 Market Street.
Contractor—R. E. Power Studios, 34 Golden Gate Ave. \$8700

STATION

(787) SE LAGUNA AND FULTON STS. One-story steel service station.
Owner—G. Ricci, 3950 Geary St., San Francisco.

Contractor—Michel & Pfeffer Iron Works, Inc., 1415 Harrison St., San Francisco.

ALTERATIONS

(788) NO. 2814 BAKER ST. Alter dwelling.
Owner—Mr. and Mrs. J. Ferrua, 2814 Baker St., San Francisco.
Architect—Not Given.
Contractor—T. Damico, 2345 Polk St., San Francisco. \$3000

ALAMEDA COUNTY

457	Turner	Henderson	1545
468	Ward	Owner	1000
469	Halladay	Dawe	1261
470	McCoy	Crocker	4200
471	Scolari	Lyon	3000
472	Harins	Swanstrom	4000
473	Modern	Owner	7000
474	Johnson	Owner	1100
475	Modern	Owner	4000
476	Smith	De Velbiss	1000
477	Kaye	Owner	1000
478	Safeway	Marker	35000

DWELLING

(468) NO. 2747 MOUNTAIN BLVD., OAKLAND. One-story 3-room dwelling.
Owner—Rolland A. Ward, 107 Santa Clara Ave., Oakland.
Architect—Not Given. \$1000

ALTERATIONS

(469) NO. 1755 BROADWAY, OAKLAND. Alterations and repairs.
Owner—C. H. Halladay, San Marino, Calif.
Architect—Not Given.
Contractor—Leslie C. Dawe, 1629 Telegraph Ave., Oakland. \$1261

DWELLING

(470) NO. 1434 FERNWOOD DRIVE, OAKLAND. One and one-half-story 6-room dwelling.
Owner—C. A. McCoy, 1010 Fresno St., Berkeley.
Architect—Not Given.
Contractor—H. L. Crocker, 30 Wilding Lane, Oakland. \$4200

DWELLING

(471) 18 VETERAN WAY, OAKLAND one-story five-room dwelling.
Owner—A. G. Scolari, 515 5th Ave., Oakland.
Architect—Not Given.
Contractor—C. D. Lyon, 6501 Buena Ventura Ave., Oakland. \$3000

ALTERATIONS

(472) NO. 2614 SHATTUCK AVE., BERKELEY. Alterations.
Owner—Weston Harins.
Architect—Not Given.
Contractor—Geo. Swanstrom, 1615 78th Ave., Oakland. \$4000

SHED

(473) NO. 5725 E-FOURTEENTH ST. OAKLAND. One-story brick storage shed.
Owner—Modern Food Co., Premises.
Architect—Not Given. \$7000

ADDITION

(474) NO. 833 WALKER AVENUE, OAKLAND. Addition.
Owner—C. P. Johnson, 712 Longridge Road, Oakland.
Architect—Not Given. \$1100

SHED

(475) NO. 5725 E-FOURTEENTH ST. OAKLAND. One-story brick storage shed.
Owner—Modern Food Co., Premises.
Architect—Not Given. \$4000

REPAIRS
 (476) 2631 SCHOOL ST., OAKLAND;
 fire repairs.
 Owner—Frank W. Smith, premises.
 Architect—Not Given.
 Contractor—C. D. De Velbiss, 354 Hobart St., Oakland. \$1000

DWELLING
 (477) N PASO ROBLE DRIVE, Lot 1438, Forestland Extension, OAKLAND. One-story 5-room dwlg.
 Owner—V. Lewis Kaye, Central Bank Bldg., Oakland.
 Architect—Not Given. \$1000

WAREHOUSE
 (478) NO. 5725 E-FOURTEENTH ST. OAKLAND. One-story brick warehouse.
 Owner—Safeway Stores, Inc., 4th and Jackson Sts., Oakland.
 Engineer—Jesse Rosenwald, 525 Market St., San Francisco.
 Contractor—K. E. Parker Co., 135 South Park, San Francisco. \$35,000

BUILDING CONTRACTS

SAN FRANCISCO UNDER \$1000

158 Seiple Knight 500
 159 King Power 33000

DWELLING
 (158) LOT 7 BLK 12, Oakmore Highlands, Oakland; all work on six-room dwelling.
 Owner—Marguerite W. and Robt. H. Seiple.
 Architect—F. H. Slocombe, 131 Monte Cresta, Oakland.
 Contractor—Harry C. Knight (contracts to supervise), 315 15th St., Oakland.
 Filed Oct. 29, '33. Dated 17, '33.
 First floor laid\$125.00
 Roof on 125.00
 Plastered 125.00
 Completion 125.00
TOTAL COST, \$500.00
 Limit, 75 days. Plans and Specifications filed.

CAFE
 (159) NO. 986 MARKET ST. All work for cafe and restaurant.
 Owner—Will King, Ltd., Premises.
 Architect—Not Given.
 Contractor—Robert E. Power (as Robert E. Power Studios), 140 New Montgomery St., San Francisco.
 Upon execution of these presents\$5000.00
 Before Nov. 24, 1933..... 4300.00
 Completion of work..... 1700.00
 January 24, 1934..... 1222.22
 Each month after until June, 1935 1222.22
TOTAL COST, \$33,000.00
 Bond, \$——. Limit, none. Plans and specifications filed.

ALAMEDA COUNTY

63 Safeway Parker 36916

WAREHOUSE
 (63) E-FOURTEENTH ST. & 57TH Ave., Oakland. All work for addition to one-story warehouse.
 Owner—Safeway Stores, Inc., Fourth and Jackson Sts., Oakland.
 Engineer—Jesse Rosenwald, 525 Market St., San Francisco.
 Contractor—K. E. Parker Co., 135 South Park, San Francisco.
 Filed Oct. 25, '33. Dated Oct. 24, '33.
 On completion
TOTAL COST, \$36,916
 Bond, \$18 458. Surety, Fidelity & Deposit Co. of Maryland. Limit, 60 days Forfeit, none. Plans and specifications filed.

SAN FRANCISCO UNDER \$1000

SIGN, electric, \$215; 1525 Ocean Ave. owner, Blue and Gold Market. Premises; contractor, American Electric Sign Co., 1740 Eddy St.
 FLUES, four, \$110; 15 San Leandro; owner, L. W. Stocker, 425 Mason St.; contractor, Paulson & Co.
 SIGN, electric, \$50; 1108 Market St.; owner, L. Harris, 1108-A Market; contractor, Pioneer Elec. Co., 2125 Market St.
 FLUES, three, \$50; 200 S Ocean Ave.; owner, P. Lindsay, 183 Oxford St.; contractor, Frank Murphy, 3119 Harrison St.
 ALTER flats, \$150; 11-9 Sonoma; owner, Jose Serrano, 11-9 Sonoma.
 SIGN, electric, \$200; 301 Valencia St.; owner, A. Clayton, 301 Valencia; contractor, Brumfield, 965 Folsom.
 SIGN, electric, \$300; 700 14th; owner, Acme Grill, 700 Market St.; contractor, Pioneer Elec. Co., 2125 Market St.
 FLUES, two, \$40; 543 Divisadero St.; owner, B. Lazzareschi, 543 Divisadero; contractor Merritt Chimney 712 Polk St.
 ALTER hotel, \$150; Whitcomb Hotel; owner, Jas. Otis, trustee Whitcomb Est.; architect, Geo. Rushforth; contractor, J. J. Irwin, 1040 Oak St.
 FLUES, three, \$50; 200 E Oxford St.; owner, C. Lindsay, 100 Duboce; contractor, Frank Murphy, 3119 Harrison St.
 REPAIR fire damage to flats, \$900; 63-65 Belcher St.; owner, Mrs. Mueller, 63 Belcher St.; contractor, W. J. Mooney, 68 Belcher.
 ALTER rest room, \$400; 664 Jackson St.; owner, Lok Chuen, 664 Jackson; contractor, Shang Git Co., 145 Waverly Place.
 SIGN, electric, \$50; 207 Powell Street; owner, National Co., 207 Powell; contractor, Brumfield, 965 Folsom.
 BILLBOARD, \$6.25; E Stanyan St. 70 N Haight St.; owner, Foster & Kleiser, 1675 Eddy St.
 BILLBOARD, \$18.75; NW Haight and Baker Sts.; owner, Foster & Kleiser, 1675 Eddy St.
 BILLBOARD, \$6.25; W Columbus Ave. 41 N Mason St.; owner, Foster & Kleiser Co., 1675 Eddy St.
 ALTER apartments, \$800; 608 Anza St.; owner, Mrs. M. Mikkelsen, 608 Anza St.; contractor, P. E. Bilderback, 532 Anza St.
 STUCCO store and dwelling, \$389; NW 21st and Bryant; owner, L. Delfino.
 REPAIR fire damage to dwelling, \$300 1012-1014 Capp St.; owner, Mrs. Alice Knarston, 1032 Capp St.; contractor, J. B. McSheehy, 137 Clifford Terrace.
 ADDITION to dwelling, \$690; 1241 31st Ave.; owner, J. Dolan, 1241 31st Ave.; contractor, E. Lisota and G. Murray, 1129A Gurerer St.
 BILLBOARD, \$6.25; SE Bayshore and Augusta; owner, Foster & Kleiser 1675 Eddy St.
 SIGN, electric, \$450; 405 Taylor St.; owner, California Hotel, 405 Taylor St.; contractor, Wonderlite Neon Prod. Co., 170 Otis St.
 STUCCO parments, \$375; 104 Hugo St.; owner, M. L. Mardorf, 127 2nd Avenue.
 ADD to dwelling, \$500; 190 Forest Side owner, S. Wilson, Premises; contractor, F. A. Soracco, 127 30th Ave.
 ALTER dwelling, \$140; 728 Wisconsin St.; owner, J. Agapoff, 815 Carolina St.
 ALTER flats; \$750; 321-323 Mississippi St.; owner, Mrs. A. Vizzani, 1708 19th St.
 ALTER dwelling, \$250; 182 Lee St.; owner, Mrs. Kirby, 182 Lee St.

ALAMEDA COUNTY UNDER \$1000

GARAGE, one-story, \$200; 2515 Market St., Oakland; owner, Miss L. Taylor, 2523 Market St.
 ADD to garage, \$80; 1367 54th Ave., Oakland; owner, Mrs. Anna Tricomo, 1367 54th Ave.
 ALTERATIONS, \$105; 3040 Fulton St., Berkeley; owner; ———; contractor, Crown Roof Co., 2609 E-16th St., Oakland.
 ALTERATIONS, \$75; 1130 Blake St., Berkeley; owner, U. S. Cortese, 1116 Chaucer St.
 ALTERATIONS, \$250; 734 31st St., Oakland; owner, Manuel Serpa, 734 31st St.
 ALTERATIONS, \$300; 488 13th Street, Oakland; owner, Mrs. Blanche Porter, 236 Hillside Ave., Piedmont
 ADDITION, \$485; 421 Haddon Road, Oakland; owner, F. H. Nelson, Premises; contractor, K. F. Westcrholm, 1069 Della Vista Ave.
 BILLBOARD, \$51; NW 14th and Willow Sts., Oakland; owner, Foster & Kleiser, 22nd and Market Sts.
 ALTERATIONS, \$250; 1304 Washington St., Oakland; owner, Mrs. B. Porter, 236 Hillside Ave., Piedmont.
 ALTERATIONS, \$350; 1546 Dwight Way, Berkeley; owner, Mrs. G. Ryan, Premises.
 ALTERATIONS, \$100; 2517 Durant St., Berkeley; owner, Mrs. Ponsy, Premises; contractor, T. D. Courtwright, 349 51st St., Oakland.
 GARAGE, one-story, \$58; 1814 109th Ave., Oakland; owner, Jas. B. Grubb, 1801 109th Ave.
 FIRE repairs, \$650; 3425 39th Ave., Oakland; owner, J. E. Stewart, 3425 39th Ave.; contractor, Willis F. Lynn, 1037 Ashmount Ave.
 SHED, one-story, \$75; 7562 Circle Hill Drive, Oakland; owner, Geo. Messenger, 7562 Circle Hill Drive.
 ADDITION, \$650; 2856 Georgia St., Oakland; owner, C. E. Whitmore, 2856 Georgia St.
 ADDITION, \$60; 5839 Ross St., Oakland; owner, J. Valpreda; contractor, M. E. Valente, 5118 Clarke
 ALTERATIONS, \$50; 4009 Piedmont Ave., Oakland; owner, Foster's Lunch, 980 Mission St., San Francisco; contractor, Austin B. Murray, 1055 Mission St., S. F.
 ADDITION, \$185; 5401 Holland St., Oakland; owner, J. C. Gonsalves, 5401 Holland St.; contractor, T. M. Silva, 1034 8th Ave.
 ALTERATIONS, \$400; 2539 Hillegass, Berkeley; owner, Emily Ambrose, Premises; contractor, T. D. Courtwright, 349 51st St., Oakland.
 ADDITION, \$250; 5318 Walnut Ave., Oakland; owner, Veterans' Welfare Board, State Bldg., S. F.
 FIRE repairs, \$425; 2635 School St., Oakland; owner, J. A. Perry, 2635 School St.; contractor, C. D. De Velbiss, 354 Hobart St.
 GARAGE, one-story, \$100; 4032 Laurel Ave., Oakland; owner, H. M. Blackford, 4032 Laurel Ave.
 ALTERATIONS, \$650; SE 17th St. and Telegraph Ave., Oakland; owner, B. & H. Bercovich, Central Bank Bldg.; contractor, Alex C. Wicben 870 Longridge Road.
 FIRE repairs, \$975; 2631 School St., Oakland; owner, Frank W. Smith; contractor, C. D. DeVelbiss, 354 Hobart St.
 ALTERATIONS and addition, \$250; 805 Portal Ave., Oakland; owner, Dr. C. J. Brauer.
 BILLBOARD, \$25; S Hopkins St. 529 E High St., Oakland; owner, Foster & Kleiser, 22nd and Market.
 TANK frame, \$300; 958 28th St., Oakland; owner, Oakland-California Towel Co., 958 28th St.; contractor, J. B. Petersen & Son, 4021 Agua Vista Ave.

BUILDING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

1.—Apartments	Offices
2.—Bonds	11.—Ice and Cold Storage Plants
3.—Churches	12.—Power Plants
4.—Factories and Warehouses	13.—Public Buildings, Fire Houses and Jails
5.—Flats	14.—Residences
6.—Garages and Service Stations	15.—Schools
7.—Federal Buildings	16.—Canks, Stores and
8.—Club Buildings	17.—Theatres
9.—Hospitals	18.—Wharves & Docks
10.—Hotels	19.—Misc. Const. Materials
	20.—Misc. Supplies & Materials

1—APARTMENTS

Contract Awarded.
ALTERATIONS Cost, \$4000
SAN FRANCISCO. No. 2155 Buchanan Street.
Alterations to apartments.
Owner—Mr. Meyer.
Architect—Not Given.
Contractor—B. Pegel, 760 36th Ave., San Francisco.

2—BONDS

MODESTO, Stanislaus Co., Cal.—Bond election will be held in Stanislaus County, December 19, to vote bonds in the sum of \$495,000 to finance construction of a new courthouse and administration building at the county hospital.

ARCADIA, Los Angeles Co., Calif.—Arcadia school board will call a special election, the date to be set later, for the purpose of submitting to the electorate a proposal to raze the First Avenue grammar school and replace it with a new structure to cost approximately \$150,000. Board members favor procuring the money as a loan from the government rather than by a bond issue. Although the building has been declared by the state architect to be unsafe in case of a major earthquake, it has not been condemned.

LOS ANGELES, Cal.—Until 2 P. M., Nov. 13, bids will be received by the Los Angeles county supervisors for the sale of Long Beach school bonds as follows: Junior College, \$100,000; high school district, \$1,500,000; city school district, \$2,500,000.

3—CHURCHES

LONG BEACH, Los Angeles Co., Cal.—Architect W. Horace Austin, 532 Chestnut Ave., Long Beach, and Vern D. Hedden, engineer, 420 Security Bldg., Long Beach, have completed plans and applied for permit to rebuild church building at Fifth and Locust Ave., Long Beach, for the First Christian Church. Exterior walls will be rebuilt of reinforced concrete, steel trusses, new partitions, art glass, repairs to hardwood floors, plastering, painting, etc. Estimated cost, \$100,000. Whether owners will build by day work or let a general contract is not determined.

Planned.
CHURCH Cost, \$—
YUBA CITY, Sutter Co., Cal. Forbes Avenue and Walnut Street.
New church building.

Owner—First Baptist Church (Rev. Edward L. Allen, Pastor).
Architect—Not Given.

Plans Being Revised.
CHURCH Cost, \$—
CRESCENT CITY, Del Norte Co., Cal. One-story reinforced concrete church (to seat 275).

Owner—Roman Catholic Archbishop (Father Nolan, Pastor), Crescent City.

Architect—Harry Devine, California State Life Bldg., Sacramento.
Plans are being revised and new bids will be asked shortly. On previous opening lowest bid was submitted by J. P. Brennan, Redding, at \$15-396.

4—FACTORIES & WAREHOUSES

Contract Awarded.
ALTERATIONS Cost, \$1500
SAN FRANCISCO, No. 37 Drumm St. Alterations to warehouse.
Owner—Lawrence Warehouse Co., 37 Drumm St., San Francisco.
Architect—Not Given.
Contractor—O. Presco & Sons, 55 Sterling St., San Francisco.

HAMILTON FIELD, Marin Co., Cal.—Until Nov. 2, 11 A. M., bids will be received by Constructing Quartermaster, Hamilton Field, San Rafael, to construct operations hangar and double hangars at Hamilton Field. Plans and specifications available from the above office upon deposit of \$10.00, and may be seen at the Builders' Exchange 666 Mission St., San Francisco, and at the office of the Constructing Quartermaster, Fort Mason.

COCO SOLO, Canal Zone—As previously reported, bids will be received until November 22, 11 A. M., by the Bureau of Yards and Docks, Navy Department, Washington, D. C., for the construction of a hangar of structural steel framing supported by concrete footings on wood piles and having steel windows and doors, insulated steel roof deck with built-up roofing, corrugated asbestos siding, and electrical work; and pavement and storm drains, all at the Naval Fleet Air Base, Coco Solo, C. Z. Spec. No. 7351 and accompanying drawings may be obtained upon deposit of \$10 from the Commandant, 12th Naval District, 100 Harrison St., San Francisco.

Contract Awarded.
ALTERATIONS Cost, \$2500
SAN FRANCISCO. No. 118-134 Sacramento St. and 123 Commercial St. Alterations to warehouse, lofts and offices.
Owner—G. A. Webster, % Architect.
Architect—H. A. Minton, 525 Market St., San Francisco.
Contractor—J. A. Tassi, 268 Market St., San Francisco.

SAN FRANCISCO—Fire partially destroyed the W. P. Fuller Company plant at South San Francisco October 19. Damage estimated at \$60,000.

CALIFORNIA CITY, Marin Co., Cal.—John Roebing Sons Co., 646 Folsom St., San Francisco, have purchased a site in California City near Tiburon formerly owned by the Kinkbine Lumber Company. A plant for re-winding wire to be used for cables for the Golden Gate Bridge will be constructed shortly. Further details will be announced at a later date.

Plane Being Prepared.
SILOS Cost, \$—
STOCKTON, San Joaquin Co., Calif. Four-acre tract.

Construction of four reinforced concrete silos for cement distributing plant (100-ft. in height) pumping machinery, etc.

Owner—Santa Cruz Portland Cement Co., (George T. Cameron, Pres.) Crocker Bldg., San Francisco.

Plans by Engineering Dept. of Owner. Plans will be completed in about 4 or 5 months. Similar work will be undertaken in San Francisco and Oakland in the near future.

Sub-Contracts Awarded.
HQTRS BLDG. Cost, \$16,770
SACRAMENTO, Sacramento Co., Cal. Addition to headquarters bldg. (work involves excavation, concrete, masonry, carpentry, millwork, structural steel, sheet metal, steel sash, roofing, painting, glazing, plumbing and electrical installations).

Owner—State of California.
Architect—Geo. B. McDougall, State Architect, Public Works Building, Sacramento.

Contractor—Leo Epp, 4745 Geary St., San Francisco.

Grading and Excavation—J. J. Renatti & Sons, Sacramento.

Steel Doors—D. A. Pancoast, San Francisco.

Steel Sash—Soule Steel Co., 1750 Army St., San Francisco.

Reinforcing Steel—W. C. Hauck, San Francisco.

Structural Iron—Alling Iron Works, Sacramento.

Brick—C. H. Wainscot.

Plumbing—Scott Co., 243 Minna St., San Francisco.

Planned.
REMODEL BREWERY Cost, \$60,000
SEATTLE, Wash. 2501 Elliott Ave. Remodel building for brewery (capacity of 300 barrels daily).

Owner—Gilmake Brewing & Distilling Corp., Liggitt Bldg., Seattle.

Architect—Not Selected.
Agent—Vincent D. Miller, Inc., Joshua Green Bldg., Seattle.

A stock issue is to be made to finance the project.

Wrecking Under Way.
BREWERY Cost, \$250,000
SAN FRANCISCO. Tenth and Bryant Streets.

Stock house, bottling house and enlarging of present brewery (Class A steel, concrete and brick construction).

Owner—Milwaukee Brewing Co., 490 Tenth Street.

Engineer—Warren E. Murray, 908 Hayes Street.

Wrecking—Symon Bros. Wrecking Co. 1435 Market Street.

Bids will be asked in three or four weeks.

Construction To Start Shortly.
BAKERY Cost, \$50,000
FRESNO, Fresno Co., Calif. Merced and F Streets.

One-story brick bakery (50x150).
Owner—Golden State - Athens Baking Company.

Architect—Not Given.
As previously reported, the San Francisco Oven Co., 1652 21st Ave., San Francisco, awarded contract to furnish and install three continuous ovens.

Plans Being Figured.
MFG. PLANT Cost, \$500,000
ELMHURST, Alameda Co., Cal. Jones Avenue.
 Group of 1-2- and 3-story steel frame and brick buildings for manufacturing plant (tile roof, steel sash).
 Owner—Standard Brands, Inc., 595 Madison Ave., New York City.
 Architect—Bliss & Fairweather, Balboa Bldg., San Francisco.
 Local Engineer—L. H. Nishkian, 252 Market St., San Francisco.
 Engineer—G. J. Patitz, 535 Madison Ave., New York City.
 Following will probably submit bids:
 George Wagner, 181 South Park St., San Francisco.
 MacDonald & Kahn, Financial Center Bldg., San Francisco.
 Dinwiddie Const. Co., Crocker Bldg., San Francisco.
 Lindgren and Swinerton, Inc., 225 Bush St., San Francisco.
 Arrett & Hulp, 918 Harrison Street, San Francisco.
 Clinton Const. Co., 923 Folsom St., San Francisco.
 Larsen & Larsen, 629 Bryant St., San Francisco.
 MacDonald Engr. Co., Chicago.
 Schuler & McDonald, 1723 Webster St., Oakland.
 Date of opening bids not yet set.

To Be Done By Day's Work.
SHEDS Cost, \$11,000
OAKLAND, Alameda Co., Cal. No. 5725 E-Fourteenth St.
 Two one-story brick storage sheds.
 Owner—Modern Food Co., 5725 E-14th St., Oakland.
 Architect—Not Given.

Contract Awarded.
BREWERY Cost, \$20,495
FRESNO, Fresno Co., Cal. NE Hedges and Blackstone Avenue.
 One two-and three-story steel and reinforced concrete brewery (80x140 feet), malt cooling apparatus, capacity of 100 barrels of beer daily, bottling plant, etc.
 Owner—Emilio Giometti, 1480 Blackstone Ave., Fresno.
 Architect—W. D. Coates, Rowell Bldg., Fresno.
 Contractor—Joe La Forti and E. J. Heffner, 252 N-Broadway, Fresno.
 Following bids received:

La Forti & E. J. Hener, Fresno.....	\$20,495
D. A. Shorb, Fresno.....	21,368
W. T. Harris, Fresno.....	23,565
Fisher & McNulty, Fresno.....	24,135
G. C. Walker, Fresno.....	26,703

Owner will furnish all cement and aggregate. Cork insulation, street sewer outfalls and machinery under separate contract.

Contract Awarded.
ADDITION Cost, \$37,000
OAKLAND, Alameda Co., Cal. East 14th St. and 57th Ave.
 One-story addition to factory on fill (concrete floors, Kalman floor finish, steel frame, concrete foundations, wood roof, continuous steel sash, etc.)
 Owner—Safeway Stores, 4th and Jackson Sts., Oakland.
 Engineer—Jesse Rosenwald, 525 Market St., San Francisco, consulting structural engineer.
 Contractor—K. E. Parker, 135 South Park, San Francisco.

HAMILTON FIELD, Marin Co., Cal.—Following have procured plans for the purpose of submitting bids to the Constructing Quartermaster, Hamilton Field, on Nov. 2, 11 A. M., in connection with the construction of operations' hangar and double hangars at Hamilton Field:
 Robert E. McKee, 108 W 6th St., Los Angeles.
 Detroit Steel Product Co., Detroit.

Leibert & Trobeck, Rialto Bldg., San Francisco.
 MacDonald & Kahn, Financial Center Bldg., San Francisco.
 Globe Electric Works, 1899 Mission St., San Francisco.
 W. Jennings, San Rafael.
 Judson-Pacific Co., 609 Mission St., San Francisco.
 Carl N. Swensen, 355 Stockton Ave., San Jose.
 U. S. Gypsum Co., 2501 Harrison St., San Francisco.
 Moore Dry Dock Co., Balfour Bldg., San Francisco.
 Duncanson-Harrelson Co., deYoung Bldg., San Francisco.
 Herrick Iron Works, 18th and Campbell Sts., San Francisco.
 Eddy Electric Co., 309 E Weber St., Stockton.
 MacGruer & Co., 266 Tehama St., San Francisco.
 Pacific Coast Steel Co., 20th and Illinois Sts., San Francisco.
 A. W. Kitchen, 110 Market St., San Francisco.
 McClintic-Marshall Co., 2050 Bryant St., San Francisco.
 Minneapolis Steel & Machinery Co., Chapman Bldg., Los Angeles.
 Truscon Steel Co., Call Bldg., San Francisco.
 R. P. Paoli, 3159 Fillmore St., San Francisco.
 Clinton Const. Co., 923 Folsom St., San Francisco.
 K. E. Parker, 135 South Park St., San Francisco.
 F. W. Snook, 596 Clay Street, San Francisco.
 Soule Steel Co., 1750 Army St., San Francisco.
 Concrete Engr. Co., 1280 Indiana St., San Francisco.

5— FLATS

To Be Done By Day's Work.
ALTERATIONS Cost, \$3000
SAN FRANCISCO, SW Fillmore and Jackson Streets.
 Alterations to frame flats and stores.
 Owner—F. Steele, 130 St. Elmo Way, San Francisco.
 Architect—George deColmesnil, 111 Sutter St., San Francisco.
 Engineer—A. P. Fisher, 111 Sutter St., San Francisco.

6— GARAGES & SERVICE STATIONS

Contract Awarded.
ALTERATIONS Cost, \$2000
SAN FRANCISCO, SW Ocean Ave. and Miramar St.
 Alterations to service station.
 Owner—F. P. Cassetana.
 Architect—Not Given.
 Contractor—Michel & Pfeffer Iron Works, Harrison and Tenth Sts., San Francisco.

To Be Done By Day's Work.
SERVICE STATION Cost, \$5000
EUREKA, Humboldt Co., Calif. Sixth and E Streets.
 Super service station (frame construction).
 Owner—Verne Johnson, Eureka.
 Architect—Newton Ackerman, Eureka
 Work will be done under the owner's supervision.

October 25, 1933
 Construction Postponed Temporarily.
GARAGE Cost, \$25,000
BAKERSFIELD, Kern Co., Cal. 22nd and I Streets.
 On-story concrete auto sales building.
 Owner—Elfer Houchlin (Buick and Pontiac Agency), 1412 17th St., Bakersfield.
 Architect—Edwin J. Symmes, Haberfelde Bldg., Bakersfield.

Contract Awarded.
SERVICE STATION Cost, \$3000
SAN FRANCISCO, SW Fulton and Laguna Streets.
 Steel and concrete super-service station.
 Owner—G. Ricci, 3950 Geary St., San Francisco.
 Engineer & Supt. of Const.—E. H. Oxendine, 1707 23rd Ave., S. F.
 Contractor—Michel & Pfeffer Iron Works, Harrison and Tenth Sts.
 As previously reported, wrecking awarded to Banks Wrecking Co., 1230 Howard St.

To Be Done By Day's Work.
ALTERATIONS Cost, \$2000
SAN FRANCISCO, No. 1417 Mission Street.
 Alterations to service station.
 Owner—Goodyear Tire & Rubber Co.
 Engineer—E. A. Whitcomb, Los Angeles.

7—FEDERAL BUILDINGS

HAMILTON FIELD, Marin Co., Cal.—Complete list of bids received by the Constructing Quartermaster, Hamilton Field, for the construction of a fire station and guard house at Hamilton Field will be found in the unit bid summary of this issue.

DENVER, Colorado—Following have procured plans for the purpose of submitting bids to the Treasury Department on November 7 in connection with the painting of plaster, etc., in the U. S. Custom House, Denver, Colo.:

Therault Contracting Co., 534 E. Johnson St., Philadelphia.....	\$3100
Wm. Wilson & Sons, Inc., Bons Allen Bldg., Atlanta, Ga.....	3307
Adams Painting Co., 1653 N. Austin Blvd., Chicago.....	4200

Bids held under advisement.

OGDEN, Utah—Adams Painting Co., Chicago, Ill., at \$3100 submitted low bid to Treasury Department for painting plaster in U. S. Post Office and Courthouse at Ogden, Utah. Following bids received:
 Adams Painting Co., Chicago.....\$3100
 D. J. Inman, Danville, Ill.....3307
 Bruce Charlesworth, Ogden, Utah 4200
 Bids held under advisement.

SAN FRANCISCO—George Rehn, 1919 Mission St., at \$9289 awarded contract by Constructing Quartermaster, Fort Mason, for changing present hot water heating system in the Ninth Corps Area headquarters building, at the Presidio, San Francisco, to a vacuum steam heating system. Complete bids published Oct. 17.

VANCOUVER, Wash.—Until Oct. 30, bids will be received by Constructing Quartermaster, Vancouver Barracks, Washington, for a hot water heating plant with automatic stokers for six officers' quarters at Vancouver Barracks, Washington. Information available from the Constructing Quartermaster, 9th Corps Area, Presidio, San Francisco.

LAS VEGAS, Nev.—Yardley Screen & Weatherstrip Co. awarded contract by Treasury Department at \$1468.79 for furnishing and installing Venetian blinds in the Las Vegas post office.

EL CENTRO, IMPERIAL COUNTY, Cal.—Supervising Architect's Office approved the glassware award to Gilinder Bros. in connection with the U. S. post office at El Centro. Union Engineering Co., Huntington Park, general contractor.

ANGEL ISLAND, Cal.—Public Works Administration is expected to allot the sum of \$39,000 to Public

Health Service to finance construction of a two-story building to house the working men on Angel Island. A dining room will be on the first floor with sleeping accommodations on second.

**Additional Prospective Bidders.
FEDERAL BUILDING**

Total Cost, \$2,689,000
SAN FRANCISCO. Civic Center.
Six-story and basement reinforced concrete Federal office building, granite exterior, terra cotta court lining, promenade, terrazzo and tile flooring, mastic tile floors in offices, steam heating, seven elevators, etc.

Owner—United States Government.
Architect — Arthur Brown Jr., 251 Kearny St., San Francisco.

Mechanical Engineer — Leland & Haley, 53 Sutter St., San Francisco
Structural Engineer — C. H. Snyder, 251 Kearny St., San Francisco.

Following are additional contractors who have procured plans. Bids open November 7.

Dinwiddie Constr. Co., Crocker Bldg. San Francisco.

Kreimberg & Son, 304 Montclair Ave., Ludlow, Ky.

Anderson & Ringrose, 320 Market St., San Francisco.

Jacobsen Bros. Co., 19 S. La Salle St., Chicago.

Herbert M. Baruch Corp., 625 South Olive St., Los Angeles.

Lindgren and Swinerton, Inc., San Francisco.

MacDonald & Kahn Co., Ltd., San Francisco.

Great Lakes Const. Co., 333 North Michigan Ave., Chicago.

Coath & Goss, Inc., 1109 S State St., Chicago.

Clinton Const. Co. of California, 323 Folsom St., San Francisco.

The W. F. Jackson Co., Inc., Denrike Bldg., Washington, D. C.

Libbey & Libbey, 244 2nd Ave., S. Minneapolis, Minn.; Schuler & McDonald, Inc., 1723 Webster St., Oakland; Ring Constr. Co., Wesley Temple Bldg., Minneapolis; Jasper-Stacy Co., 216 Pine St., S. F.; J. A. Holpuch Co., 4010 W. Madison St., Chicago; D. M. W. Contracting Co., Inc., 2058 Fulton St., Brooklyn, N. Y.; Barrett & Hilp, 918 Harrison St., San Francisco.

Other bidders reported Oct. 20.

Architectural plans may be inspected in the office of the architect and mechanical plans in the office of Leland and Haley, mechanical engineers.

ELKO, NEVADA—J. G. Wilson Company, at \$629.10, submitted low bid to Treasury Department, to furnish Venetian blinds for the Elko Post Office. Proposal No. 1543. Following bids received:

J. G. Wilson Co., \$629.10.

Yardley Screen & Weatherstrip Co., \$696.11.

Burlington Venetian Blind Co., \$701.59.

McRee-Green Mfg. Corp., \$766.45

F. P. May Hardware Co., \$771.99.

PEARL HARBOR, T. H.—Following have procured plans for the purpose of submitting bids to the Bureau of Yards and Docks, Navy Dept., Washington, D. C., to construct extension to foundry buildings at Pearl Harbor. Estimated cost, \$107,500; Spec. No. 7-094:

Allis-Chalmers Mfg. Co., Milwaukee, Wis.

Truscon Steel Co., Washington.

Shepard-Niles Crane & Holst Corp., Mifflin St. east of Front, Philadelphia.

Egerer Engr. Co., Seattle, Wash.

McClintic-Marshall Co., Bethlehem, Pennsylvania.

KEYPORT, Wash.—Until Nov. 21st, bids will be received by Bureau of Yards & Docks, Navy Dept., Wash-

ington, D. C., to construct quarters at Puget Sound; Spec. No. 7552. Estimated cost, \$24,000.

Preliminary Working Drawings Awaiting Approval.

POST OFFICE Cost, \$90,000
MADERA, Madera Co., Cal. SE Yosemite Ave. and D Street.

One-story and basement steel, brick and concrete Post Office.

Owner—United States Government.
Architect—Ernest J. Kump, Rowell Bldg., Fresno.

Engineer—F. W. Kellberg, 320 Market St., San Francisco.

Preliminary working drawings have been forwarded to Washington for approval.

MARE ISLAND, Cal.—San Francisco Const. Co., 3159 Fillmore St., San Francisco, at \$11,096 awarded contract by Bureau of Yards & Docks to construct new tin roof and gutters, wood cornice, wood framing, plaster ceiling and other work for Marine Barracks Bldg. No. M-53 at Mare Island. Spec. No. 7382.

SUNNYVALE, Santa Clara Co., Cal.—H. C. Miller & Son, Santa Clara, at \$700.80 awarded contract by the 12th Naval Dist. for partitions and equipment for post office at the Naval Air Station, Sunnyvale. Spec. No. 7493.

The work includes wood partitions, grille work, tables, racks, bins, cabinets, hardware and finishing.

FORT LEWIS, Wash.—Until Oct. 31 11 A. M., bids will be received by Constructing Quartermaster, Fort Lewis, to construct one field officers' quarters, type "D"; four field officers' quarters; 16 company officers' quarters; two company officers' quarters; two 4-four family company officers' apartment houses and twenty non-commissioned officers' quarters, ten type "A" and ten type "B" at Fort Lewis. Plans and specifications available from above office upon deposit of \$25.00.

PEARL HARBOR, T. H.—Until 11 A. M., Nov. 29, bids will be received by the Bureau of Yards and Docks, Washington, D. C., for electric freight elevator and metal-covered hoistway doors at the Naval Submarine Base, Pearl Harbor; Spec. 7260. Deposit of \$10 required for plans, checks to be certified.

SAN PEDRO, Los Angeles Co., Cal.—Charles Montague, 1144 S. Grand Ave., Los Angeles, at \$65,500 submitted low bid to Treasury Department for the construction of the U. S. quarantine and detention on Reservation Point, San Pedro. Will be a two-story office and store building, 41 x32 feet in area; two-story quarters for medical officers, 64x35 feet; two-story quarters for junior medical officers, 50x43 feet; and a wharf. The buildings will have concrete walls, tile and composition roofing, steel sash, waterproofing materials, architectural terra cotta, ornamental metal, steel medicine cabinets, interior, tile work, composition floor tile, linoleum, dumbwaiter, and two-pipe hot-water heating system. The wharf, containing six 10-ft. bays and a 30-ft. approach span, will be constructed of creosoted timber piles, framing timber and decking.

Second low bid was submitted by Robert McKee, Los Angeles, at \$67,750 and H. Mayson, Los Angeles, at \$67,900 was third low. Complete bids will be published shortly.

SAN DIEGO, Cal.—San Diego Tile & Woodstone Co., 753 Front St., San Diego, submitted low bid to Eleventh Naval District at \$980, for weatherproofing doors and windows and the

installation of interior tile work at Naval Operating Base (Chollas Heights and Point Loma Radio Stations), San Diego; Specification 7462.

BREMERTON, Wash.—K. E. Parker, 135 South Park, San Francisco, awarded the following sub-contracts in connection with the construction of the machine and electric shop building under Specification No. 7338. Structure will be 805 feet long, 251 feet wide and 95 feet high:

Structural Steel—McClintic-Marshall Co., 2050 Bryant St., San Francisco.

Steel Sash — Detroit Steel Products Co., 111 Sutter St., San Francisco.

Glass—Habernicht & Howlett Co., 529 Clay St., San Francisco.

Plumbing—Scott Co., 243 Minna St., San Francisco.

TECATE, San Diego Co., Cal.—As previously reported, Associated Constructors, 1226 S. La Brea St., Los Angeles, at \$48,728 submitted low bid to Treasury Department to construct inspection station at Tecate.

Will be a two-story, L-shaped structure, extreme dimensions, 133x65 feet; concrete foundations, brick walls, tile and composition roof, stucco exterior, interior tile work, one-pipe steam heating system, etc. The garage will be a brick structure and the dwellings will be wood frame and stucco with tile roofs.

Following bids received:

Associated Constructors, L. A., \$48,728

John Stona, Pomona, 52,567

J. A. Hunt, San Diego, 53,276

W. E. Keir Constr. Co., San Diego, 53,970

Bids held under advisement.

PEARL HARBOR, T. H.—As previously reported, until Nov. 29, 11 A. M., bids will be received by Bureau of Yards & Docks, Navy Department, Washington, D. C., to construct two-story building at the Navy Yard, Pearl Harbor. Work includes concrete construction, hollow tile work, steel and iron work, built-up roofing and sheet metal work, steel windows, pressed steel, steel rolling, and metal covered doors, plastering, slate and tile work, 2-ton crane, freight elevator, wet pipe sprinkler system, and plumbing and electrical systems. Spec. No. 7074.

Plans and specifications available from above office, from Commandant, 14th Naval District, Navy Yard, Pearl Harbor, and from 12th Naval District, 100 Harrison St., San Francisco, upon deposit of \$25.00.

PEARL HARBOR, T. H.—As previously reported, until Nov. 29, 11 A. M., bids will be received by Bureau of Yards & Docks, Navy Department, Washington, D. C., to construct extension of storehouse at the Naval Fleet Air Base, Pearl Harbor. The work includes concrete, tile, steel and iron, and roofing sheet metal work, steel windows, steel rolling doors, stucco, plastering, carpentry, plumbing, sprinkler and electrical systems. Spec. No. 7085.

Plans and specifications available from above office, from Commandant, 14th Naval District, Navy Yard, Pearl Harbor, and from 12th Naval District, 100 Harrison St., San Francisco, upon deposit of \$10.00.

EDIZ HOOK, Wash.—U. S. Coast Guard, Treasury Dept., Washington, D. C., is preparing plans and will advertise for general contract bids in about two weeks for a one-story, steel and concrete hangar and a two-story, brick or frame and stucco barracks building to be erected at Ediz Hook, Wash. The work will involve excavation, concrete, reinforcing steel, brick, waterproofering, carpentry, millwork, weatherstrip, finish hardware, struc-

tural steel, rolling steel doors, steel stairs, steel sash, caulking, sheet metal, metal roofing, shingle roofing, wood floors, cement floors, linoleum, plastering, stucco, insulation, kitchen equipment, painting, glazing, plate glass, hot water heat, electric work, plumbing, etc.

SAN PEDRO, Los Angeles Co., Cal.—Following have procured plans for the purpose of submitting bids to the Superintendent of Lighthouses, Customhouse, San Francisco, in connection with the construction of a one-story combination warehouse and shop building, 62x102 feet with reinforced concrete exterior walls, hollow tile partitions, structural steel roof trusses. It is to be erected on the west or channel side of the U. S. Lighthouse Reservation, Los Angeles Harbor, San Pedro.

Johnson & Hansen, Locust Ave., Long Beach.

M. H. Hanauer, 933 Chapman Bldg., Los Angeles.

George Mittry, 134 North Ave. 20, Los Angeles.

W. E. Allen, 752 West Anaheim St., Long Beach.

J. E. Burrell, 346 Euclid Ave., Long Beach.

W. H. McAllister, 1167 18th St., San Pedro.

Stanton-Reed Co., 816 West 5th St., Los Angeles.

Shannah Bros., Inc., 6118 Easten Ave., Los Angeles.

Theodore A. Beyer Corp., 438 Chamber of Commerce Bldg., Los Angeles.

Kyle Steel Constr. Co., 5555 Magnolia St., Los Angeles.

John & Wade, Inc., Anaheim and Obispo Sts., Long Beach.

H. Mayson, 9315 S-Hopper Ave., Los Angeles.

Kristenson, Johnson & Dahlquist, 606 West 80th St., Los Angeles.

W. J. Esser, 3711 Cerritos Ave., Long Beach.

Contracting Engineers, Inc., 2310 W. Vernon Ave., Los Angeles.

C. Haverlandt, 1625 E. 5th St., Long Beach.

Herbert M. Baruch Corp., 625 So. Olive St., Los Angeles.

Consolidated Steel Corp., Ltd., P. O. Box 1348, Los Angeles.

C. S. Van Brundt Co., 801 S-Grand View Ave., Los Angeles, (For J. F. Kohler and Fred F. Greenfield Co.), General Contractors of Los Angeles.

Rowsey & Boyd, Surety Bonds and General Insurance, 458 So. Spring St., Los Angeles, (For John T. Bibb, 1326 Opecha Way, Glendale; Willard Lutz, 1630 Lyman Place, Los Angeles; Gene B. Foster, 1772 No. Sycamore St., Los Angeles; C. Bongiovanni, 2561 Canyon Drive, Hollywood; Harry F. Miller, 1908 West 75th St., Los Angeles; Masler & Reed, 6348 Colgate Ave., Los Angeles; Schuck Constr. Co., 1937 West 62nd St., Los Angeles; John Strona, Philadelphia and East Ave., Pomona.

Bannister-Field Co., Ltd., 4101 Goodwin Ave., Los Angeles.

Harvey A. Nichols, 936 E. Slauson Ave., Los Angeles.

SAN DIEGO, Cal.—Until November 7, 11 A. M., bids will be received by Public Works Officer, 11th Naval District, San Diego, for repairs to shower enclosure at the 11th Naval District, San Diego. Specifications No. 7510.

Work includes (a) removal of existing marble slabs, floor covers, treads risers, curbs, drain, etc., present tile floors and cement bed of the present shower and dressing room enclosures as required for replacement of lead pan waterproofing; (b) provision and installation of new six-pound lead waterproofing to replace old removed lead pan; (c) provision and installation of two new floor drains; (d) reinstallation of marble work and tile

floors in shower and dressing room enclosures, including such modifications to marble work, etc., as may be necessary to suit new installation; and (e) repainting plaster above newly installed marble slab.

Plans and specifications available from above office upon deposit of \$10.

MARE ISLAND, Cal.—Until Nov. 23 11 A. M., bids will be received by the Public Works Officer, U. S. Navy Yard, Mare Island, for the erection of eight smokeless powder magazines, 2-case ammunition magazines and the relocation of quarters A-51 at the Ammunition Depot, Navy Yard, Mare Island, Spec. No. 7343. Plans and specifications available from Commandant, Navy Yard, Mare Island, upon deposit of \$20.00.

CRESCENT CITY, Del Norte Co., Cal.—R. M. Thompson, Crescent City at \$996.35 submitted low bid to Public Works Officer, U. S. Navy Yard, Mare Island, for painting and repairs to buildings at the U. S. Naval Radio Direction Finder Station, Point Saint George, Crescent City. Spec. No. 7-388. Following bids received:

R. M. Thompson, Crescent City	\$ 996.35
Theo. Johanns, San Francisco	1,028.00
Raphael Co., San Francisco	1,185.00
San Francisco Const. Co.	1,280.00
Floyd Burne, Crescent City	1,300.21
Newman Bros., Oregon	1,384.00

Bids held under advisement.

MARCH FIELD, Riverside Calif.—Cresmer Mfg. Co., 2601 Third Street, Riverside, submitted the low bid to the Constructing Quartermaster at March Field on Oct. 20, at \$19,480 for the construction of three sets of non-commissioned officers' quarters at March Field. Recommendation was made that the contract be awarded to the low bidder. The buildings will be one-story structures with hollow concrete walls and tile roofing. Other bids were: John Strona, \$19,997; Jones Bros., \$20,700; H. G. Klusman, \$20,787; Willard Lutz, \$21,500; Eric Lange Construction Co., \$21,890.

VANCOUVER, Wash.—Bids are being received by Constructing Quartermaster, Vancouver, for the installation of new heating plants in 17 officers' quarters. Work involves automatic coal stokers, new piping, etc. Specifications prepared by Jay Keller, engineer, 611 Worcester Bldg., Vancouver. Estimated cost, \$18,000.

FORT LEWIS, Wash.—Plans are being prepared by War Department, Washington, D. C., in connection with the following proposed projects at Fort Lewis, Washington:

- Non-commissioned officers' quarters, \$154,325;
- Officers' quarters, \$532,732;
- Telephone installation, \$15,000;
- Barracks, medical detachment, \$75,000;
- Barracks, special troops, \$444,570;
- Stables and picket lines, \$350,000;
- Gun shed, \$178,000;
- Headquarters and administration building, \$85,000;
- Fire and guard houses, \$50,000;
- Quartermaster warehouse, \$60,000;
- Ordnance repair building, \$30,000;
- Drill hall, \$150,000;
- Bakery, \$25,000;
- Hay shed and grain warehouse, \$60,000;
- Magazine sheds, \$12,000.

Additional funds allotted. The projects listed above, together with \$75,000 additional provided for miscellaneous work in connection with carrying out the program, make a total of \$2,331,627, which has been appropriated for new construction.

In addition, the sum of \$69,726 has

been appropriated for maintenance. This is listed as follows:

- Repair of roads, \$17,725;
- Maintenance and repair of railroad lines, \$20,000;
- Completion of general maintenance work throughout the post begun during the past summer, \$32,037.

The type of construction in the barracks buildings and certain other structures will likely be reinforced concrete beam and column construction with concrete slab floors, tile roof, etc.

LAS VEGAS, Nevada—Purchasing Department, Washington, D. C., awarded a contract to the Yardley Screen and Weatherstrip co., at \$1468.79 to furnish Venetian blinds for the Las Vegas Post Office. 7

BENICIA, Solano Co., Cal.—Benicia Arsenal has approved projects for the Arsenal as follows:

- Replacement of old quarters of warrant and non-commissioned officers, \$60,000;
 - Road work, \$10,700;
 - Improve grounds, \$12,000;
 - Fire alarm system, \$3900.
- If appropriations are secured, work could be started immediately.

DENVER, Colo.—Until November 7, 2 P. M., bids will be received by Treasury Department, Washington, D. C., for painting plaster, etc., in the U. S. Custom House, Denver, Colo. Specifications may be obtained from the custodian of the building or at above office. Additional Prospective Bidders.

NAVY DEPARTMENT—The Public Works Administration has announced that \$8,961,952 has been allotted to the Bureau of Yards & Docks for construction at naval stations. Expenditures under this fund will include officers' quarters, barracks, hangars, ammunition storage facilities, building and other improvements at the stations. The distribution of the fund will include Mare Island, Calif., \$2,005,700; San Diego, Calif., \$145,000; Pearl Harbor, Hawaii, \$1,155,352; Kualalei, Hawaii, \$350,000; Navy Yard, Puget Sound, Wash., \$200,000.

SAN RAFAEL, Marin Co., Cal.—F. J. Reilly, 6350 Fulton St., San Francisco, at \$16,341 submitted low bid to Constructing Quartermaster, Hamilton Field, to construct one-story concrete garage at Hamilton Field. Following bids received:

- (1) Work complete.
- (2) Excavation, per cu. yd.
- (3) Concrete (type "A" in place, including forms), per cu. yd.;
- (4) Concrete (type "B" in place, including forms), per cu. yd.;
- (5) Reinforcing steel, per ton;
- (6) Lumber (1-in x 12-in. S 4 S) per M bd. ft.;
- (7) Lumber (2-in. x 4-in. S 4 S) per M bd. f.

- Frank J. Reilly, San Francisco (1) \$16,341, (2) \$1,50, (3) \$14.00, (4) \$16.00, (5) \$80.00, (6) \$100, (7) \$100
 - William Spivock, San Francisco, (1) \$16,890, (2) \$3.00, (3) \$16.00, (4) \$16.50, (5) \$110, (6) \$100, (7) \$90.
 - Carl N. Swenson, San Jose, (1) \$18,982 (2) \$1.00, (3) \$16.50, (4) \$17.50, (5) \$85, (6) \$52, (7) \$52.
 - Robert E. McKee, Los Angeles, (1) \$19,200, (2) \$.45, (3) 12.50, (4) \$13, (5) \$86, (6) \$45, (7) \$45.
 - Leo Epp, San Francisco, (1) \$19,647, (2) \$1.00, (3) \$19.00, (4) \$20.00, (5) \$80.00, (6) \$65.00, (7) \$60.00.
 - Wm. Pearce, New York, (1) \$24,844, (2) \$4.00, (3) \$18.00, (4) \$17.00, (5) \$120, (6) and (7) no bid.
- Bids held under advisement.

MARCH FIELD, Riverside Co., Cal.—H. G. Klusman, 154 N. Archibald

Ave., Cucamonga, at \$41,500 awarded contract by Quartermaster General, to construct officers' mess building at March Field. Will be a one-story structure with hollow concrete walls and tile roof.

SUNNYVALE, Santa Clara Co., Cal.—Theo. Johanns, 2020 15th St., San Francisco, at \$16,265 submitted low bid to 12th Naval District, San Francisco, for the construction of office, shop and quarters for the S.S.S. Macon, in the airship hangar at Sunnyvale. Spec. No. 7466. Work includes concrete curbing, steel and iron work, metal and glass partitions, wire mesh partitions, steel doors, steam heating, electrical work and painting. Following bids received:
Theo. Johanns, San Francisco..\$16,265
Munthe Equip. Co., S. F..... 16,740
Forderer Cornice Works, S. F. 17,777
Bids held under advisement.

8— CLUB BUILDINGS

SAN LUIS OBISPO, Cal.—Monday Club, 1052 Islary St., San Luis Obispo, has authorized its building committee to proceed with plans for the construction of a new clubhouse in San Luis Obispo. The building will be a one-story wood frame structure, costing about \$10,000. Julia Morgan, Merchants' Exchange Building, San Francisco, architect.

Commissioned To Prepare Plans.
CLUB Cost, \$75,000
SAN FRANCISCO. Foot of Van Ness Avenue.
Boat Club.
Owner—Native Sons Yacht Club.
Architect—Dodge Riedy, 821 Market Street.

Commissioned To Prepare Plans.
CLUB Cost, \$75,000
SAN FRANCISCO. Foot of Van Ness Avenue.
Boat Club.
Owner—South End Rowing Club, foot of Larkin Street.
Architect—Dodge Riedy, 821 Market Street.

Commissioned To Prepare Plans.
CLUB Cost, \$40,000
SAN FRANCISCO. Foot of Van Ness Avenue.
Boat Club.
Owner—Ariel Rowing Club, ft. of Polk Street.
Architect—F. R. Collins, 1028 Hyde St.

Commissioned To Prepare Plans.
CLUB Cost, \$75,000
SAN FRANCISCO. Yacht Harbor.
Boat Club.
Owner—Dolphin Yacht Club, Foot of Polk St., San Francisco.
Architect—George Kelham, 315 Montgomery St., San Francisco.

9— HOSPITALS

MARCH FIELD, Riverside Co., Cal.—Constructing Quartermaster, March Field, rejected all bids for construction of medical detachment barracks and hospital contagious ward at March Field. Low bid exceeded appropriation by \$7000. Bids were: George Mittry, \$39,301; John Strona, \$39,612; Cresmer Mfg. Co., \$39,856; H. G. Klusman, \$40,000; Wm. J. Shirley, \$41,410; Herbert M. Baruch Corp., \$42,188; Willard Lutz, \$43,700; Gene B. Foster, \$44,163; L. A. Contracting Co., \$45,900; L. A. Geisler, \$55,954.

OLIVE VIEW, Los Angeles Co., Cal.—Los Angeles county supervisors have applied to the Public Works Administration for a loan of \$367,150 and a grant of \$141,600 with which to finance construction of four ward buildings, four employees' buildings and a kitchen

and dining room unit at Olive View sanitarium.

Preparing Working Drawings.
HOSPITAL Cost, \$90,000
REDDING, Shasta Co., Calif.
Two-story reinforced concrete hospital (24x36; 50 beds, 3 operating rooms) tile and composition roof, tile floors, Enoleum, steam heating system, cooling system, etc.
Owner—County of Shasta.
Architect—Otto Deichmann, 110 Sutter St., San Francisco.
Formal application for \$30,000 of Federal aid has been made.

Planned.
HOSPITAL Cost, \$200,000
STELLACOM, Washington.
Receiving hospital, wards, etc.
Owner—Western Washington Hospital (Dr. Wm. H. Keller, Supt.)
Architect—Not Given.

FORT STANTON, New Mexico—Until November 20, 3 P. M., bids will be received by Treasury Department, Washington, D. C., to construct hospital buildings, nurses' quarters, double houses for medical officers, power plant and laundry at the U. S. Marine Hospital, Fort Stanton, New Mexico. Plans and specifications available from above office upon deposit of \$25.

LONG BEACH, Los Angeles Co., Cal.—Sisters of Charity of the Incarnate Word, Long Beach, have applied to the Public Works Administration for a loan of \$400,000 to finance construction of a fireproof hospital bldg. at 10th St. and Linden Avenue, Long Beach. Architect I. E. Loveless, 102 S Robertson Blvd., Beverly Hills, prepared preliminary plans for the structure several years ago.

10— HOTELS

Contracts Awarded.
HOTEL Cost, \$20,000
MARYSVILLE, Yuba Co., Calif. 424 Fifth Street.
Rebuild fifth floor (32 rooms) of five-story reinforced concrete and brick hotel which was recently destroyed by fire.
Owner—Marysville Hotel.
Architect—Charles Dean, California State Life Bldg., Sacramento.
Engineer—C. A. Worden, Marysville Hotel, Marysville.

As previously reported, mill work awarded to Davis Hardwood Co., Bay and Mason Sts., San Francisco, at \$1-485; cabinet work to Diamond Match Co., Chico, \$790; painting to Zuanck's Paint Shop, Yuba City, \$1122; plumbing, heating and sheet metal to Frank Booth, Marysville, at \$7395; electric work to Con Franke, 748 E Weber St. Stockton, at \$3977; carpentry to Chell & Triplett, Marysville, at \$3200; plastering to H. Brooks, Chico, at \$3350; tile to H. P. Fischer Tile & Marble Co., 1219 Jay St., Sacramento, at \$607.
Bids of Francis Hall and Leo J. Smith on electric refrigeration are under advisement.

OAKLAND, Cal.—The Venon Hotel, 392 11th St., was partially destroyed by fire. Damage estimated at \$15,000.

11—ICE AND COLD STORAGE PLANTS

LOS ANGELES, Cal.—Until 11 A. M., Nov. 13, bids will be received by the Metropolitan Water District of Southern California, 306 W 3rd St., Los Angeles, for the construction of an air-cooling plant for Division I Headquarters, Colorado River aqueduct, about 15 mi. northeast of Earp. Each proposal must be accompanied

by a certified or cashier's check in the amount of \$500, payable to the Metropolitan Water District of Southern California. Bidding data may be obtained from the District in Los Angeles or Banning upon payment of \$2 per set, which sum will not be refunded. F. E. Weymouth, general manager.

12— POWER PLANTS

Bids Opened.
FEEDER SYSTEM Cost, \$—
SAN FRANCISCO. No. 870 Market Street.
Remodel electric feeder system in Flood Building.
Owner—Flood Realty Company.
Mechanical Engineer—Hunter & Hudson, 41 Sutter St., San Francisco.
Low Bidder—Ne Page McKenny Co., 7 Front St., San Francisco.
Following bids received:
NePage McKenny Co.....\$40,918
Central Electric Co..... 42,545
Kutche & Sievers..... 43,000
Alta Elec. & Mechanical Co..... 43,290
Chas. Langlais Co..... 44,249
Bids held under advisement.

SAN FRANCISCO.—San Francisco Board of Supervisors has set Nov. 7 as the date for the special election on a bond issue of \$6,308,000 to finance the improvements at the Red Mountain Bar. The work to be done includes:

- (1) Power house at Red Mountain Bar where the Hetch Hetchy aqueduct crosses under the Don Pedro reservoir, for the purpose of developing power.
- (2) Construction of a transmission line from Newark to San Francisco.
- (3) Substations and stepdown stations at Palo Alto, Crystal Springs, and San Francisco.
- (4) Stand-by plants.
- (5) Distribution system, for the service of power for municipal purposes and service to domestic and commercial consumers within the triangular district bounded by the County line, Alemany Blvd., and Bayshore Blvd.

The Federal Public Works Administration has approved a grant to the city of San Francisco for financing the above work contingent upon approval of the bonds.

LOS ANGELES, Cal.—Wm. Davidson, Los Angeles county mechanical engineer, Hall of Records, has completed working drawings and Spec. No. 292 for an addition to power house at General Hospital, 1100 Mission Rd. Plans submitted to county supervisors and a call for bids will be issued shortly. Will be a Cass A structure, 41x79; steel frame and reinforced concrete construction, red brick exterior, steel rolling doors, metal skylights concrete foundations and ramp, cement floors, galvanized iron louvers, etc. Cost, \$20,000.

CONCORD, Contra Costa Co., Cal.—City trustees will ask federal aid to help finance construction of the proposed fire house and city hall in Concord, estimated to cost \$25,000.

13— PUBLIC BUILDINGS FIRE HOUSES & JAILS

PORTLAND, Oregon—Multnomah County Commissioners have made formal application for an allocation from the Federal Public Works Administration of \$1,450,000 to finance construction of an armory in Portland. Of the sum sought, \$1,015,000 would be a loan and \$435,000 a grant from the Government.

MT. DIABLO, Contra Costa Co., Cal.—Mt. Diablo County Supervisors have made application to Public

Works Administration for a loan of \$30,000 to finance construction of a fire house for the Mt. Diablo County Fire Protection District.

To Ask Bids.
LIBRARY Cost, \$75,000
EVERETT, Washington. SW Hoyt and Everett Avenues.

Two-story library (concrete or mill faced with brick).

Owner—City of Everett (Mrs. D. B. McIlhenny, President of Library Trustees).

Architect—Bebb & Gould, Hoge Bldg., Seattle.

Bids will be asked within a few days. A grant of \$23,600 was obtained from the Public Works Administration.

To Be Done by Day's Work.
REMODELING Cost, \$—
SACRAMENTO, Sacramento Co., Cal.
19th Street bet. L and M Sts.
Remodel fire house.

Owner—City of Sacramento.

Architect—Not Given.

Work will be done by day's labor by city employees.

Commissioned To Prepare Plans.

JAIL Cost, \$1500
LOS GATOS, Santa Clara Co., Cal.
One-story steel and concrete jail (2 cells) Spanish style.

Owner—City of Los Gatos (Henry C. Noble, Chief of Police), Los Gatos.

Architect—E. P. Whitman, Los Gatos.

Contract Awarded.

MEMORIAL BUILDING
Contract Price, \$66,940
SAN LEANDRO, Alameda Co., Calif.
Bancroft Ave. near Estudillo.

Two-story reinforced concrete Veterans' memorial building (100x125 ft.) tile roof, steam heating system.

Owner—County of Alameda.

Architect—Henry H. Meyers, Kohl Bldg., San Francisco.

Contractor—Geo. Petersen, 1841 Bancroft Ave., San Leandro.

Contract awarded on Alternates 2, 3 and 7.

Following bids received:

Geo. Petersen, San Leandro.....\$64,900
E. T. Leiter & Son, Oakland..... 65,637
J. E. Parker, San Francisco..... 66,900
A. Cederborg, Oakland..... 67,650
N. H. Sjoberg & Sons, S. F..... 68,486
Carl N. Swensen, San Jose..... 69,412
Geo. Swinson, Oakland..... 69,926
Val Franz, San Francisco..... 70,440
Schuler & McDonald, Oakland..... 72,773
Lindgren & Swinerton, S. F..... 88,888

(1) general work;
(2) concrete, unit price;
(3) chicken wire in lodge ceiling;
(4) change wainscoting to travertine, add;
(5) finish second floor over lobby, add;
(6) finish basement, add;
(7) ventilating for auditorium, add;
(8) ventilating for lodge room, add;
(9) omit basement finish from main bld. duct.

Complete bids follow:

George Petersen, (1) \$64,900; (2) \$1,000; (3) \$150; (4) \$900; (5) \$1200; (6) \$1700; (7) \$1150; (8) \$900; (9) \$3,000.

E. T. Leiter & Son, (1) \$65,637; (2) \$75; (3) \$150; (4) \$850; (5) \$900; (6) \$900; (7) \$750; (8) \$500; (9) \$2700.

K. E. Parker (1) \$66,900 (2) \$55 (3) \$125 (4) \$870 (5) \$870 (6) \$740 (7) \$1105 (8) \$555 (9) \$2724.

A. Cederborg, (1) \$67,650 (2) \$70 (3) \$125 (4) \$32 (5) \$824 (6) \$950 (7) \$985 (8) \$492 (9) \$2552.

N. H. Sjoberg, (1) \$68,486 (2) \$1.00 (3) \$127 (4) \$934 (5) \$856 (6) \$694 (7) \$1055 (8) \$455 (9) \$3165.

Carl N. Swensen (1) \$69,412 (2) \$60 (3) \$120 (4) \$842 (5) \$697 (6) \$1039 (7) \$925 (8) \$560 (9) \$1318.

George Swanson (1) \$69,926 (2) \$75 (3) \$130 (4) \$1029 (5) \$990 (6) \$940 (7) \$1184 (8) \$510 (9) \$2388.
Val Franz, (1) \$70,440 (2) \$.90 (3) \$150 (4) \$1000 (5) \$900 (6) \$800 (7) \$750 (8) \$500 (9) \$2700.

Schuler & McDonald, (1) \$72,773 (2) \$.50 (3) \$135 (4) \$1100 (5) \$475 (6) \$965 (7) \$875 (8) \$620 (9) \$1590.

E. T. Lesure, (1) \$74,361 (2) \$.90 (3) \$120 (4) \$950 (5) \$932 (6) \$1000 (7) \$1100 (8) \$450 (9) \$2600.

Lindgren & Swinerton, (1) \$88,888 (2) \$1.00 (3) \$130 (4) \$950 (5) \$840 (6) \$960 (7) \$1250 (8) \$700 (9) \$2000.

SAN FRANCISCO.—Mullen Mfg. Co. 64 Rausch St., at \$344 submitted low bid to Board of Public Works for shelving in Room 457, City Hall (law library). Following bids received:

Mullen Mfg. Co.....\$344
Schafer's Planing Mill..... 376
J. deCristina 395
C. L. Wood Co..... 520
" pine 470

Bids held under advisement.

14— RESIDENCES

Construction To Start Shortly.

RESIDENCE Cost, \$—
NORTH BERKELEY, Alameda Co.

Two-story and basement frame and stucco residence.

Owner—Mr. Melanthy.

Architect—F. H. Slocombe, 131 Monte Cresta Ave., Oakland.

Mgr. of Construction — C. G. Garcia, 1656 Ocean View Ave., Berkeley.

Contract Awarded.

RESIDENCE Cost, \$4000
PALO ALTO, Santa Clara Co., Calif.
936 Middlefield Road.

One-story and basement frame and stucco residence.

Owner—Mrs. M. M. Thomas.

Architect—Not Given.

Contractor—M. Klay, Alameda de Las Pulgas, Menlo Park.

Preparing Preliminary Working Drawings.

RESIDENCE Cost, \$10,000
BERKELEY, Alameda County, Calif.
Stonewall Road.

Two-story and basement frame and stucco residence (9 rooms and 3 baths) shake roof, oil heating system, hardwood floors and trim, electric refrigeration.

Owner—Withheld.

Architect—E. L. Snyder, 2101 Addison St., Berkeley.

Bids will be asked in about 10 days.

Contract Awarded.

RESIDENCE Cost, \$20,000
PALO ALTO, Santa Clara Co., Cal.
No. 2101 Waverly Street.

Two-story brick residence.

Owner—H. E. Jones.

Architect—Not Given.

Contractor—Carr C. Jones, 1211 Bonita Ave., Berkeley.

Contract Awarded.

RESIDENCE Cost, \$9000
SACRAMENTO, Sacramento Co., Cal.
Five and one-half miles north.

One-story frame residence (8 rooms and 3 baths) board and batten shake roof, oil burning heating system, hardwood floors, etc.

Owner—Mr. Winners.

Architect—Williams & Wastell, 374 17th St., Oakland.

Contractor—H. K. Henderson, 20 Avis Road, Berkeley.

Bids Rejected.

RESIDENCE Cost, \$6000
PIEDMONT, Alameda Co., Cal. Piedmont Pines.

One and one-half-story frame and stucco residence (6 rooms); English style.

Owner—Alfred Kennedy.

Architect—Miller & Warnecke, Financial Center Bldg., Oakland.
Shake roof, oil burning hot air heating, etc.

Sub-Contracts Awarded.

RESIDENCE Cost, \$4000
BERKELEY, Alameda Co., Cal. Grizzly Peak Blvd.

Two-story frame and stucco residence (shingle roof).

Owner—Franklin Murray, 407 Vernon St., Oakland.

Architect—Not Given.

Mgr. of Constr.—Mark Bristol, 1038 McKinley Ave., Oakland.

Lumber—Smith Lumber Co., Foot of 19th Ave., Oakland.

Concrete—Albany Concrete Co., Albany.

Contract Awarded.

ADDITION Cost, \$3192
MONTEREY, Monterey Co., Calif.
Two-story frame addition to residence

Owner—Margaret E. Doud, Monterey.

Architect—Not Given.

Contractor—Harold C. Geyer, 946 Hellam St., Monterey.

Plans Being Revised.

ALTERATIONS Cost, \$—
HILLSBOROUGH, San Mateo County, Cal. Easton Drive.

Alterations and additions to two-story and basement frame residence (add rooms, new plumbing, heating, wiring, mill work, etc.)

Owner—Paul I. Fagan, Hillsborough.

Architect—Arthur Brown Jr., 251 Kearny St., San Francisco.

Plans are being revised to bring the cost to approximately \$50,000. New bids will be asked shortly.

Contract Awarded.

RESIDENCE Cont. Price, \$7863
SAUSALITO, Marin Co., Calif.
Two-story frame Colonial type residence (6 rooms and 3 baths).

Owner—Dr. Russell Ryan, 909 Hyde St., San Francisco.

Architect—R. H. Bickel, Crocker Bldg. San Francisco.

Contractor—William Spivock, Hobart Bldg., San Francisco.

Following bids received:

Wm. Spivock, S. F..... \$ 7,863
Hannah & Wooldridge 7,900
DeLuca & Son, S. F..... 8,253
John Pittendrigh, San Anselmo.. 8,272
Fred. DuPuy, S. F..... 8,497
Moore & Madsen, S. F..... 9,027
Jacks & Irvine, S. F..... 9,267
Solheim-Smith, S. F..... 9,490
N. F. Nielsen, S. F..... 9,900
A. W. Teather, Sausalito..... 10,224
D. Bienfield, S. F..... 10,287

To Ask Bids In About One Week.

RESIDENCE Cost, \$8500
BAYWOOD, San Mateo Co., Cal.

Two-story frame and stucco Spanish style (8 rooms) tile roof, steel sash brick chimney, gas hot air heat.

Owner—Withheld.

Architect—C. H. Treichel, 679 Had-den Road, Oakland.

Sub-Contracts Awarded.

RESIDENCE Cost, \$25,000
PIEDMONT, Alameda Co., Cal. On Sandringham Road.

Two-story frame and stucco residence English style with slate roof (12 rooms, 4 baths and 3-car garage).

Owner—F. W. Gibson.

Architect—Williams & Wastell, 374 17th St., Oakland.

Contractor—W. E. Lyons, 354 Hobart St., Oakland.

Excavation—Ariss Knapp Co., 961 41st St., Oakland.

Sheet Metal—Airport Sheet Metal Works, 4339 E-14th St., Oakland.

Brick Work—C. M. Goodell, 2836 Minna St., Oakland.

Electric—Fred Schmitts, 428 Moss Ave., Oakland.

Hardwood Floors—Fred C. Thrall, 3006 Santa Clara Ave., Alameda.
Plastering—Frank Clausen, 819 Santa Ray St., Oakland.
Mill Work—Oakland Planing Mill, 2nd and Washington Sts., Oakland.
Painting—W. H. Ullard Jr., 522 Grand Ave., Oakland.
Plumbing—J. A. Fazio, 402 Castro St., Oakland.
Reinforcing Steel—McGrath Steel Co., 2459 Webster St., Oakland.
Steel Sash—Michel & Pfeffer Iron Works, Harrison and Tenth Sts., San Francisco.
Tile—Rigney Tile Co., 3012 Harrison St., Oakland.

Plans Being Figured—Bids Close Oct. 30, 12 Noon.

RESIDENCE Cost, \$—
SAN FRANCISCO. Mallorca Way, bet. Capra Way and Beach St.
 Two-story and basement frame and stucco residence (8 rooms and 2 baths) composition roof, gas heating system, hardwood floors, etc.
 Owner—Ben Sellinger.
 Architect—George Ralph, 110 Sutter St., San Francisco.
 Fred Du Puy, 110 Sutter St., is figuring the plans and desires sub-bids on all portions of the work.

Sub-Contracts Awarded.
RESIDENCE Cost, \$7139
BAYWOOD, San Mateo Co., Cal. Lot 12 Blk 9.

Two-story frame and stucco residence and garage.
 Owner—Samuel S. Jacobs, 805 Winchester Drive, Burlingame.
 Architect—Not Given.
 Contractor—Henry Voelker, 805 Winchester Drive, Burlingame.

Rough Lumber—Loop Lumber Co., Central Basin, San Francisco.
Mill Work—Minton Lumber Co., Mt. View.

Plumbing—E. C. Cottier, San Mateo.
Concrete—G. Bragato, San Mateo.
Tile—Benetti Tile Co., San Mateo.
Sheet Metal—E. Sterger, San Mateo.
Electric—San Mateo Electric Co., San Mateo.

Fireplace—M. Gackstetter, Burlingame.
Hardwood Floors—H. Larson, San Mateo.

Wrought Iron—San Mateo Forge Co., San Mateo.

Contract Awarded.
RESIDENCE Cost, \$—
BURLINGAME, San Mateo Co., Cal. One-story and basement frame and stucco residence.
 Owner—R. Vickey.
 Architect—Not Given.
 Contractor—Otto J. Ohlson, 1626 24th Ave., San Francisco.

Contract Awarded.
RESIDENCE Cost, \$8000
SAN MATEO, San Mateo Co., Cal. 322 Franklin Street.

Two-story frame and stucco residence.
 Owner—S. S. Jacobs, 721 Bayswater St., San Mateo.
 Architect—Not Given.
 Contractor—Henry Voelker, 804 Winchester Ave., San Mateo.

Contract Awarded.
RESIDENCE Cost, \$5000
OAKLAND, Alameda Co., Calif. 1434 Fernwood Drive.

1½-story frame and stucco residence (6 rooms).
 Owner—C. A. McCoy, 1010 Fresno St., Berkeley.
 Architect—Not Given.
 Contractor—H. L. Crocker, 30 Wilding Lane, Oakland.

Contract Awarded.
RESIDENCE Cost, \$2500
SAN PABLO, Contra Costa Co., Cal. San Pablo Park.

One-story frame and stucco residence (4 rooms) tile roof, etc.
 Owner—Withheld.
 Architect—Guy L. Brown, American Bldg., Oakland.
 Contractor—Heibitt Guy, San Pablo Park, San Pablo.

Owner Taking Bids.
RESIDENCE Cost, \$4500
OAKLAND, Alameda Co., Cal. Idora Park Tract.

One-story frame and stucco residence (5 rooms and sleeping porch) tile roof, gas heating system, hardwood floors, etc.
 Owner—Harry Stone, 1072 61st St., Oakland.
 Plans by W. W. Dixon, 1844 5th Ave., Oakland.

Sub-Contracts Awarded.
RESIDENCE Cost, \$8500
PIEDMONT, Alameda Co., Cal. Piedmont Plnes.

Two-story and basement frame and stucco residence.
 Owner—Wm. H. Green, 1242 Trestle Glen Road, Oakland.

Designer—F. L. Confer, 2812 Russell St., Berkeley.
 Contractor—F. W. Confer, 2800 Shasta Road, Berkeley.

Brick Work—Earle Morgan, 1712 79th Ave., Oakland.
Tile—Rigney Tile Co., 3012 Harrison St., Oakland.

Steel Sash—Michel and Pfeffer Iron Works, Harrison and 10th Streets, San Francisco.
 Other awards reported Oct. 16, 1933.

Preparing Working Drawings.
RESIDENCE Cost, \$7000
SACRAMENTO, Sacramento Co., Cal. Five and one-half miles north.

One-story frame residence (8 rooms, 3 baths) 2-car garage.
 Owner—Withheld.
 Architect—Williams and Wastell, 374 17th St., Oakland.

Sub-Contracts Awarded.
RESIDENCE Cont. Price, \$13,490
LOS GATOS, Santa Clara Co., Cal. Two-story frame and stucco residence

Owner—Gordon Ainsley.
 Architect—Ralph Wyckoff, First National Bank Bldg., San Jose.
 Contractor—N. J. Nielsen, 1270 Iris Court, San Jose.

Excavation—Lance and Kooser, San Jose.
Lumber—Chase Lumber Co., San Jose.
Mill Work—Pacific Mfg. Co., Santa Clara.

Brick Work—H. F. Ridiker, San Jose.
Plastering—Farnham and Sanders, Campbell.

Painting—Mortenson Bros., San Jose.
Sheet Metal—W. F. Serpa, San Jose.

Glass and Glazing—Sylvain Le Deld.
Steel Windows—Michel & Pfeffer Iron Works, Harrison and 10th Streets, San Francisco.

Screens—Michel & Pfeffer Iron Works, Harrison and 10th Sts., San Francisco.

Iron Work—H. Hellwig, San Jose.
 Contracts not awarded on plumbing, heating, tile, roofing and wiring.

Contract Awarded.
RESIDENCE Cost, \$20,000
ATHERTON, San Mateo Co., Cal. McCormick Lane.

Two-story frame and stucco residence
 Owner—Edward McNear, Russ Bldg., San Francisco.
 Architect—Not Given.

Contractor—W. H. Voorhies, Inc., 369 Pine St., San Francisco.

Sub-Bids Being Taken.
RESIDENCE Cost, \$5500
OAKLAND, Alameda Co., Cal. Oakmore Highlands.

Two-story frame and stucco residence (6 rooms) shingle roof, gas heating system, hardwood floors, English type.
 Owner and Builder—A. H. Monez, 4350 Bridgeview Ave., Oakland.
 Plans by W. W. Dixon, 1844 5th Ave., Oakland.

To Be Done By Day's Work.
RESIDENCE Cost, \$7000
SAN FRANCISCO. W Potrero Ave. 50 S Twenty-second St.

Two-story and basement frame and stucco residence.
 Owner—M. F. Mitchell, 1370 Utah St., San Francisco.
 Architect—Not Given.

Plans Being Figured.
RESIDENCE Cost, \$—
SAN FRANCISCO. Forty-eighth Ave. near Anza Street.

Two-story frame and stucco residence (7 rooms and 2 baths) part tile and gravel roof, gas heating system, hardwood floor, Oregon pine or mahogany trim, etc.

Owner—George Satchell.
 Architect—A. A. Cantin, 557 Market St., San Francisco.

Following will submit bids:
 J. W. Cobby & Son, 260 Tehama St.
 Moore & Madsen, 557 Market St.
 G. P. W. Jensen, 320 Market St.
 J. D. Hannah, 251 Kearny St.
 D. L. Benfield, 666 Mission St.

Sub-Contracts Awarded.
RESIDENCE Cost, \$8000
OAKLAND, Alameda Co., Cal. No. 878 Longridge Road.

Two-story and basement frame and stucco residence (8 rooms).
 Owner—C. E. Bardwell Jr., 4217 Balfour Ave., Oakland.
 Architect—Not Given.

Tile Roofing—Mastercraft Tile & Roofing Co., Richmond.
Brick—Chas. Hummer, 2221 34th Ave., Oakland.

Painting—Fred Burnsen, 9515 Burr Ave., Oakland.

Heating—California Furnace Co., 2801 E-14th St., Oakland.

Plastering—S. V. Meksa, 3818 Quigley St., Oakland.

15—SCHOOLS

RIVERSIDE, Riverside Co., Cal.—T. C. Prichard, 5260 Magnolia Ave., Riverside, awarded contract by Riverside board of education at \$21,003, for construction of a steel frame and masonry shop building at Polytechnic high school in Riverside. Plans and specifications will be forwarded to state department of architecture for approval before work can start. Architect G. S. Wilson, 3616 Main St., Riverside, prepared plans for the structure.

SAN FRANCISCO.—The following school projects are listed to be constructed under the proposed \$3,000,000 bond issue:

New Projects	
George Washington High School	\$1,200,000
Marina Junior High School	385,000
Laton Elementary School	100,000
Replacements	
Glen Park School	\$ 300,000
Agassiz School	175,000
Sunshine School	115,000
Buena Vista School	200,000
Visitacion School	250,000
Additions, Etc.	
Starr King School	\$ 95,000
Irving M. Scott School	75,000
Patrick Henry School	85,000

SAN FRANCISCO—Until Nov. 8, 2:30 P. M. (date postponed from Oct. 25) bids will be received by S. J. Hester, Chief Deputy Director, Board of Public Works, City Hall, to lay Pabco industrial black mastipave on

roof of Jean Parker School on Broadway, between Powell and Mason Sts. Estimated cost \$1000.

LONG BEACH, Los Angeles Co., Cal.—Architect E. L. Mayberry, 3900 E 3rd St., Long Beach, is preparing preliminary plans for reconditioning the James R. Lowell elementary school, located at the corner of Nieto Ave. and Broadway, Long Beach, for the Long Beach board of education. Cost, \$99,000.

Sub-Contracts Awarded.
SCHOOL Cost, \$14,737
COALINGA, Fresno Co., Cal. Present High School Site.
 One-story reinforced concrete Junior High School.
 Owner—Board of Trustees of Coalinga Union High School District.
 Architect—W. D. Coates Jr., 626 Rowell Bldg., Fresno.
 Contractor—R. P. Moore, 3662 Verrue Ave., Fresno.
Concrete Work—M. Madsen, Fresno.
Plastering—Wm. Smart, Fresno.
Electric—Tyler Electric Co., Coalinga
Roofing—Valley Lumber Co., Fresno.
Sheet Metal—Hansen's, Modesto.
Painting—Joe Stretter, Fresno.
Floor Sanding—Wm. Riggs, Fresno.
Mill Work—Hollenbeck Bush Co., Fresno.
Steel Work—Kyle Co., Fresno.

Contract Awarded.
ADDITIONS Cont. Price, \$6649
SHAFTER, Kern Co., Calif.
 Alterations and additions to branch high school.
 Owner—Kern County Un. High School District.
 Architect—Edwin J. Symmes, 215 Haberfelde Bldg., Bakersfield.
 Contractor—Williams and Greenough, Bakersfield.

Work To Start Today.
RESTAURANT
 Including Equip., \$100,000
SAN FRANCISCO, 968 Market Street.
 New restaurant (new entrance from Market Street to basement) work involves cabinet work, plumbing, fixtures, lighting effects, carpets, draperies, upholstery, etc.
 Owner—Will King, 35 Taylor Street.
 Architect—A. A. Cantin, 557 Market Street.
 Contractor—Robert E. Powers Studio, 34 Golden Gate Ave.

Sub-Contracts Awarded.
STORE Cost, Approx., \$30,000
SAN MATEO, San Mateo Co., Calif.
 Three-story reinforced concrete store building (50x100 feet) slate and composition roof, warm air heating system, oak floors, plate glass.
 Owner—Gladys D. Layton.
 Architect—Gardner Dailey, 210 Post St., San Francisco.
 Contractor—H. H. Larsen Co., 64 So. Park, San Francisco.
Excavation, Rock, Sand & Cement—Cahalan Co., Bayswater and Railroad, Burlingame.
Lumber—Roth - Maier Lbr. Co., 2800 3rd St., San Francisco.
Reinforcing Steel—W. S. Wotenhall, 17th and Wisconsin Streets, San Francisco.
Stairs—E. D. Philhrick Co., 41 Sheridan St., San Francisco.
Cast Stone—O. F. Larsen, 480 Potrero Ave., San Francisco.
Steel Sash and Screens—Soule Steel Co., 1750 Army St., San Francisco
Tile—Art Tile & Mantel Co., 221 Oak St., San Francisco.
Granite—California Cut Stone Co., So. San Francisco.

Sub-Bids Being Taken.
RESTAURANT Cost, \$5000
SAN FRANCISCO, NW Fifteenth St. and Potrero Ave.

Two-story and basement frame restaurant.
 Owner—A. Vetter Sons, 198 Potrero Avenue.
 Engineer—H. Helbing, 1310 Lombard Street.
 Sub-bids are being received on the site.

Bids Wanted—To Close Oct. 28.
SCHOOL UNIT Cost, \$40,000
PULLMAN, Washington.
 Three-story school unit (128x40).
 Owner—Lincoln School District.
 Architect—Fred. Rounds, Tacoma.
 Bids are being taken on a general contract, heating and ventilating system, plumbing and electric wiring.

BERKELEY, Alameda Co., Calif.—State Division of Architecture refused to approve plans for improvements to be made to the Jefferson School on Rose and Sacramento Streets, stating that the condition of the building did not meet the earthquake requirements. Dr. Lewis B. Smith, Supt. of the Board of Education, suggested that four bungalows be erected to take care of pupils until a permanent solution is reached.

SAN FRANCISCO — Empire Roofing Co., 261 Silver Ave., at \$598.31 (Excelsior School) and Alta Roofing Co., 976 Indiana St., at \$586 (Franklin School) and \$567 (Hillcrest School) awarded contracts by Department of Public Works for roofing as follows:

Remove present roofing and lay a new 5-ply tar and gravel roof at the Excelsior School, Excelsior Ave. and Linden Street.

Remove present roofing and lay a new 5-ply tar and gravel roof at the Franklin School, Eighth St., between Harrison and Bryant Sts.

For laying new roof of felt shingles over present shingle roof of main building at Hillcrest School, Silliman and Cambridge Sts.

ARIZONA—An allotment has been made to the Bureau of Indian Affairs, Interior Department, by the Public Works Administration for the construction of Indian Day schools in Arizona, as follows:

Completion of day school as Phoenix, \$102,000;

Community High School, Fort Apache, \$80,000;

Rock Point, Aneth and The Cove: Northern Navajo Community day schools.

Rough Rock, Frasers, Greasewood, Wide Ruins, Steamboat Canyon, Pine Spring, Oak Spring, Crystal, Tselina, Nazlina, Ganado, Cornfields, Fort Defiance and Coyote Canyon, Southern Navajo Community, day schools, \$330,000.

Completing Plans.
SCHOOL ADDN. Cost, \$28,000
BATTLE GROUND, Washington.

One-story brick addition to junior high school (art. stone trim, acoustics in auditorium, remodeling heating system, ventilating system, etc.)
 Owner—Battle Ground Jr. High School District.

Architect—C. N. Freeman & Dey Hillborn, Vancouver, Wash.

Plans will be submitted to the state public works engineer on October 27.

Contract Awarded.
COTTAGE Cost, \$3091
MENLO PARK, San Mateo Co., Calif.
 Fairwinds Arbor Lane.

One-story frame children's cottage (clap board finish).
 Owner—Felix A. McGinnis, 2209 Laguna St., San Francisco.

Plans by Lee Peyser, 2425 Funston Ave., San Francisco.

Contractor—W. L. Terry, 90 Alston St. San Francisco.

Bids Opened.
ADDITIONS Cost, \$—
SHAFTER, Kern Co., Calif.
 Alterations and additions to branch high school.
 Owner—Kern County Un. High School District.
 Architect—Edwin J. Symmes, 215 Haberfelde Bldg., Bakersfield.
 Low Bidder—Williams & Greenough, Bakersfield.
 Following bids received:
 Williams & Greenough, Bakersfield\$6,649
 W. A. Croft, Bakersfield..... 6,800
 Paul Opperman, Bakersfield..... 6,860
 Virgil Young, Bakersfield..... 7,500
 Bids held under advisement.

Preparing Plans.
SCHOOL REPAIRS Cost, \$98,000
LONG BEACH, Los Angeles Co., Cal.
 Temple Avenue and Sixteenth St. Repairs to elementary school.
 Owner—Long Beach Board of Education.
 Architect—George W. Kahrs, 1224 Linden Ave., Long Beach.

SALT LAKE CITY, UTAH—Public Works Administration has approved building program for the Salt Lake City Board of Education in the sum of \$300,000 for the construction of a \$150,000 addition to the West Junior High School and \$75,000 for additions to the Garfield-McKinley elementary schools. Grand County School District loan has also been approved covering school buildings to be erected in Grand County. Bids for the construction will be asked in the near future.

LOS ANGELES, Cal.—Los Angeles School District has been granted a loan of \$1,000,000 by the Reconstruction Finance Corp. for repairing and rebuilding school buildings damaged by the earthquake of March 10. Un-sold school bonds will be taken by the government as security for the loan. Plans for the work are under way. Application was made to the corporation for a total loan of \$4,313,000 to be used for earthquake repairs.

Plans Being Prepared.
SCHOOL IMPROVEMENT \$10,000
HAYWARD, Alameda Co., Cal.

Revamp girls' dressing rooms, etc., in Hayward High School; work involves adding 50 shower rooms, 90 dressing rooms, 600 metal lockers, plumbing, metal partitions, etc.

Owner—Hayward Union High School District.

Architect — Henry Smith, Humboldt Bank Bldg., San Francisco.

Plumbing and locker bids will be taken in about one week or ten days. Other work will be done by day's labor.

PULLMAN, Wash. — Public Works Administration has allotted \$198,000 to the State College of Washington, Pullman, to aid in construction of a power and heating plant, science bldg. chemistry bldg. and miscellaneous concrete paving. Allotment represents 30% of the costs on the project, which is \$816,682.

UTAH STATE.—Public Works Administration has granted a loan for the sum of \$1,515,000 to the State of Utah for use in constructing buildings, including alterations and additions to existing facilities for state institutions.

16—BANKS, STORES AND OFFICES

Contract Awarded.
HEATING UNIT Cost, \$—
SAN FRANCISCO, 620 Market St.
Construct new heating unit for first floor of building.
Owner—Creeker Estate.
Mechanical Engineer—Hunter & Hudson, 41 Sutter Street.
Contractor—Frank J. Klimm, 456 Ellis Street.

October 23, 1933

Bid Opening Postponed.
STORES & OFFICES Cost, \$—
SAN FRANCISCO, Stockton St. and Card Alley.

One-story reinforced concrete office and store building.
Owner—S. Giannone, % A. Cavali, 255 Columbus Avenue.

Architect—Wm. Mooser, Monadnock Building.

Supt. of Const.—Louie Spargo.
Bids were scheduled to be opened Oct. 21. Date has been extended and a new date will be set shortly.

Contract Awarded.
REMODELING Cost, \$—
SAN FRANCISCO, 988 Market Street.
Remodel portion of building for restaurant.

Owner—Will King, 35 Taylor Street.
Plans by Mr. Powers.
Contractor—Robt. Powers, 34 Golden Gate Avenue.

COLFAX, Placer Co., Cal.—Fire destroyed the Lohner Block building in Colfax October 22. Damage estimated at \$50,000.

Firms burned out and their losses: Corner Drug store, \$17,500; Grenier's Jewelry store, \$500; Ross Grocery, \$500; Colfax Telephone exchange, \$3500; Colfax Meat market, \$3000; Baxter's Barber shop, \$500; Edith Wolfson Beauty parlor, \$750; Baroli Pool hall, \$1500.

Contract Awarded.
ALTERATIONS Cost, \$2000
SAN FRANCISCO, NW Van Ness Ave. and Oak St.
Alterations to stores.
Owner—Masonic Temple Association, Van Ness Ave. and Oak St.
Architect—Not Given.
Contractor—Ira W. Coburn, 2048 Market St., San Francisco.

Revised Plans Being Figured.
STORE Cost, \$50,000
EUREKA, Humboldt Co., Cal. Fourth and F Streets.

One-story, mezzanine floor and basement reinforced concrete store building (24,500 square feet of floor space).

Owner—Domingo A. Zanone.
Plans by Engineering Dept. of Montgomery Ward & Co., Chicago.
Lessee—Montgomery Ward & Co., Chicago.

Bids are being taken for a general contract with separate bids for plumbing, heating, ventilating and electrical work. Selected list of general contractors follow:

Cahill Bros., 206 Sansome St., San Francisco.

H. H. Larsen Co., 64 South Park, San Francisco.

Lindgren & Swinerton, Inc., 225 Bush St., San Francisco

K. E. Parker Co., 135 South Park, San Francisco.

Mercer-Fraser Co., Second and Commercial Sts., Eureka.

Contract Awarded.
STORE Cost, \$4000
FRESNO, Fresno Co., Cal. 1320 Fresno Street.

One-story reinforced concrete store (30x52 ft.) stucco exterior, cigar stand, soft drink fountain, bar, lunch counter, card room, etc.

Owner—Vito Brugetti and Leon Williams.

Architect—W. D. Coates, Jr., Rowell Bldg., Fresno.

Contractor—P. Curatola, Fresno.

Plans Being Revised.
STORE Cost, \$12,000
VALLEJO, Solano Co., Cal. Sonoma Street near Georgia Street.

One-story brick, terra cotta and cement store with steel columns and beams (five stores) tar and gravel and part hand-made tile roof.

Owner—E. D. Jones, Vallejo.

Architect—F. H. Slocombe, 3830 Harrison St., Berkeley.

New bids will be asked within a few days.

Plans Being Figured—Bids Close Nov. 6, 3 P. M.

STORE Cost, \$14,000
SAN JOSE, Santa Clara Co., Cal. Santa Clara St., bet. 12th and 13th Sts.

One-story reinforced concrete store building (50x100 feet), concrete floors, 10-year guaranteed built-up roof, etc.

Owner—Safeway Stores.

Architect—Chas. McKenzie, Twohy Bldg., San Jose.

17— THEATRES

SANTA MONICA, Los Angeles Co., Cal.—Architect Norman Alpaugh, 4222 Halldale Ave., Los Angeles, completing working drawings for a one-story Cass B concrete theater building to be built on Third Street between Wilshire Blvd. and Santa Monica Blvd., Santa Monica, for Fred A. Miller, lessee. Will be 50x150, concrete columns and beams, brick filler walls, steel sash, skylights, heating & ventilating system, tile restrooms, smoking rooms projection room, two stores, Neon interior lighting system, Neon signs, etc.

Contract Awarded.
THEATRE ADDITION Cost, \$7000
PALO ALTO, Santa Clara Co., Cal. No. 1305 Middlefield Road.

Frame and stucco wing addition to Theatre (tile roof.)

Owner—Palo Alto Community Theatre
Architect—Birge M. Clark, 310 University Ave., Palo.

Contractor—Wells P. Goodenough, 310 University Ave., Palo Alto.

18— WHARVES & DOCKS

PEARL HARBOR, T. H.—Until Dec. 13, 11 A. M. (as previously reported) bids will be received by the Bureau of Yards & Docks, Navy Dept., Washington, D. C., for constructing 24 sand-filled reinforced concrete platforms supported on piles and with spring buffer fender system at the 14th Naval District, Pearl Harbor. Spec. No. 7-093 and accompanying drawings obtainable on deposit of \$25, from the Commandant, 12th Naval District, 100 Harrison St., San Francisco.

LOS ANGELES, Cal.—Ben. C. Gerwick, Inc., 112 Market St., San Francisco, at \$22,721 awarded contract by Superintendent of Lighthouses, San Francisco, to construct lighthouse depot wharf at the U. S. Lighthouse Reservation, Los Angeles. Proposal No. 690.

OAKLAND, Alameda Co., Cal.—City of Oakland Port Commission will ask informal bids in one week for sprinkler system for the 329 ft. ex-

tension at Outer Harbor Terminal. Estimated cost \$800.

RICHMOND, Contra Costa Co., Cal.—Until Nov. 6, 8 P. M., bids will be received by Richmond City Council for repairs to sub-structure wharf No. 1 at Outer Harbor, Richmond, involving:

(1) removal of old and cracked concrete, cleaning steel and replacing the same with cement gunite.

(2) removal of old reinforcing steel and replacing with new reinforcing steel and black and annealed wire.

(3) galvanized welded wire fabric so placed.

Specifications available from E. A. Hoffman, city engineer, Richmond City hall, upon deposit of \$5.00.

The City of Richmond has \$10,000 available for this work.

OAKLAND, Alameda Co., Cal.—J. E. Higgins Lumber Co., 423 6th St., San Francisco, awarded contract for 525 Market St., San Francisco, in connection with the new Key Route Pier, flooring by Architects Kent & Hass, (C. R.)

19—MISC. CONSTRUCTION

AMERICAN LAKE, Wash.—National Blower Pipe Co., Tacoma, Wash., at \$3,390 submitted low bid to Veterans Administration, Fort Miley, San Francisco, for installing a pneumatic suction type, steam jet ash conveyor system at Veterans' Administration Facility, American Lake.

Only other bid that of United Conveyor Corp., Chicago, at \$3,960.

NEVADA STATE — Following Nevada Public Works Projects, involving requests for loans and grants from the Federal Public Works Fund have been submitted to Washington by R. A. Allen, State Public Works Engineer:

PERSHING COUNTY — Humboldt River storage, \$1,600,000.

LOVELOCK, water system, \$100,000.

FALON water system, \$100,000.

LAS VEGAS sewer extension, \$110,000.

CARLIN water and sewer system, \$100,000.

Following projects are now before the State Public Works Engineer and Advisory Board, and probably will be submitted to Washington in the near future:

WINNEMUCCA water system, \$175,000

ELY general improvements, \$45,000.

LYON COUNTY, court house repairs, \$45,000.

CALIENTE, sewer and water system \$52,000.

HUMBOLDT COUNTY, road construction for feeder roads, \$122,000.

MINA, water system, \$50,000.

WADSWORTH, school repairs, \$22,000

ELKO, water system, \$50,000.

YERINGTON, high school repairs, \$40,000.

ALAMO, Lincoln County, school repairs, \$20,000.

FRESNO, Fresno Co., Cal.—Preliminary plans for the beautification of the east side of Broadway north of Tulare Street, in connection with the widening of Broadway were discussed by Mayor Z. S. Laymel, Raymond L. Quigley, Playground Superintendent, and several architects, including W. D. Coates, Chas. H. Franklin, Ernest J. Kump, H. Rafael Lake and Fred Swartz. Under the plan, Spanish architecture would predominate all new fronts which will be made necessary by the widening of the street. It is proposed to appoint architects as a group to work with the city planning commission and property holders must abide by decision of this commission.

Electroliers of Spanish design are also contemplated.

SAN FRANCISCO—Edwin Anderson, 542 Natoma St., at \$715 submitted low bid to Veterans' Administration, San Francisco, for sand blasting and repainting 50,000 gallon tank at Fort Miley. Following bids received: Edwin Anderson, S. F. \$ 715
D. E. Burgess, S. F. 866
Gilman Co. (by Horn Products Co.), San Francisco 874
Wm. R. Morgan Co., Los Angeles 875
J. A. Mohr, San Francisco 886
Patterson Bros., Berkeley 1175
Bids referred to Washington for award.

SAN RAFAEL, Marin Co., Calif.—Chas. M. Davis, Foster Road, Paradise, Cal., at \$8,900 awarded contract by Constructing Quartermaster, Hamilton Field, to salvage buildings at Mather Field, Sacramento (material to be cleaned and painted and delivered to Hamilton Field.) Complete bids published Oct. 18.

Contract Awarded.
BIN Cost, \$2500
SAN FRANCISCO. No. 430 Chestnut Street.
Construct malt storage bin.
Owner — Bauer & Schweitzer, 530 Chestnut St., San Francisco.
Architect—Not Given.
Contractor—California Steel Products Co., 490 Bayshore Blvd.

HAMILTON FIELD, CAL.—Trask & Squier Co., 39 Natoma St., San Francisco, at \$16,219 (Line Posts) and at \$17,824 ("H" Posts) submitted low bid for the Constructing Quartermaster, Hamilton Field, San Rafael, Cal., for the construction of a Boundary Fence at Hamilton Field. All other bidders submitted identical bids at \$16,959 (Line Posts) and \$18,564 ("H" Posts). The bidders were:
(A) Trask & Squier Co., 39 Natoma St., S. F.
(B) C. J. Waterhouse Co., 55 New Montgomery St., S. F.
(C) Pittsburg Steel Co., 351 Bryant St., S. F.
(D) Western Steel & Wire Co., 439 Bryant St., S. F.
(E) Calif. Wire Cloth Co., 1001 22nd Ave., Oakland.
(F) Michel & Pfeffer Iron Works, Inc., Harrison and 10th Sts., S. F.
(G) Standard Fence Co., 1940 San Bruno, S. F.
(H) Crown Fence Co., 144 Townsend, S. F.
(I) Anchor Post Fence Co. of Cal., 400 5th St., S. F.

Trask & Squier's bid follows:
(2) 4-ft. high No. 9 wire copper bearing galvanized wire, 2 mesh per 1 f. (no bid).
(3) Line Posts.
(3a) "H" Posts.
(4) End and Angle Posts (each)
(5) 12 swing gate posts (each)
(6) Braces per 1 f.
(7) Top rail per 1 f.
(8) Concrete per c. y.
(9) Gate padlocks (each)
(1) \$.35
(3) 3.00
(3a) 3.00
(4) 4.00
(5) 4.80
(6) 5.55
(7)20
(8)14
(9) 18.00
(10) 2.25

The identical bids of the other bidders follow:
(1) \$ 40; (2) No bid; (3) \$3.00; (3a) \$4.00; (4) \$4.80; (5) \$5.55; (6) \$.20; (7) \$.14; (8) \$18.00; (9) \$2.25.

TUCSON, Ariz.—Proposal to build a high transmission line from Tucson to Eloy to connect with the Salt River Valley Water Users' Assn. system, has been placed before the Tucson

city council by Dr. G. E. P. Smith, head of the University of Arizona Agricultural Engineering Dept. Dr. Smith estimated the project would cost not more than \$500,000—\$200,000 for construction of the line and the remainder for repairs and improvements on the present trunk line from Phoenix to Eloy. He proposed that the money be borrowed from the public works administration. Under Dr. Smith's plan Tucson would pay the cost of transmission between Eloy and Tucson and the water users would pay transmission costs the remainder of the way.

SANTA CRUZ, Cal.—John Swanson, Santa Cruz, will pay \$250 to the City to clear right-of-way for new state highway known as IV-SCR-5-A. Work involves moving buildings, foundations, etc., on Van Wagner Property on Ocean street.

NAVY YARDS.—Navy Department has been allotted funds for improvements at the following radio stations: Summit, C. Z., \$191,000; Pearl Harbor, T. H., \$153,000; San Diego, \$15,000. A large part of the money will be expended for new equipment. An allotment of \$858,500 has been made for relocation of the Naval Radio Station at Pearl Harbor; and an allotment of \$619,500 made for relocation of the Naval Radio Station at Summit, C. Z.

Contract To Be Awarded.
CROSS Cont. Price, \$11,850
SAN FRANCISCO. Mt. Davidson.
Reinforced concrete cross, 100 feet high (500 cu. yds. concrete).
Owner—Golden Gate Park Commission (For Sunrise Easter Service Committee).
Architect — George W. Kelham, 315 Montgomery St., San Francisco.
Engineer — H. J. Brunnier, Sharon Bldg., San Francisco.
Contractor—Monson Bros., 475 Sixth St., San Francisco.
Webster Jeffers, low bidder, withdrew his bid.

OAHU, T. H.—Until November 29, 11 A. M., (as previously reported), bids will be received by the Bureau of Yards and Docks, Navy Department, Washington, D. C., for reinforced concrete magazine and barricade wall, asphalt surfaced road, boiler house equipment, and alterations to an existing building at the Naval Ammunition Depot, Oahu, T. H. Specifications No. 7257 and accompanying drawings obtainable upon deposit of \$10 from the Commandant, 12th Naval District, San Francisco.

MARE ISLAND, Cal.—Public Works Administration Funds in the extent of \$2,005,700 have been allotted to Mare Island, for improvements at the Navy Yard as follows:
Ammunition depot magazine, \$325,000; black powder filling house, \$5000; improvement of buildings, \$50,000; extension of dike No. 12, \$250,000; distributing and service lines, \$180,700; dredging and filling for quay wall, \$125,000; weight handling appliance for new quay wall, \$90,000; replacement of causeway connecting Vallejo and Mare Island, \$980,000.

OAHU, T. H.—Until November 29, 11 A. M., bids will be received by the Bureau of Yards and Docks, Navy Department, Washington, D. C., for gate houses, two vegetable lockers, two garbage houses, seven hose reel houses, twenty-two hose shelters, eighteen clothes yard inclosures, three tennis courts, two flag poles, one beacon tower, two beacon fixtures installations, sidewalks, road, one cess-pool and one dry well at the Naval

Ammunition Depot, Oahu (West Loch) and Lualualei, T. H. Specifications No. 7055 and accompanying drawings obtainable on deposit of \$15 from the Commandant, 12th Naval Dist., 100 Harrison St., San Francisco.

POINT ARGUELLO, Los Angeles Co., Cal.—U. S. Coast Guard, Washington, D. C., is preparing plans for a life saving station to be erected on Point Arguello at a cost of \$80,000. According to Capt. M. S. Hay, commander of the Coast Guard base at San Pedro, bids for the construction of the building will be advertised shortly.

CORONADO, Cal.—Miracle Co., 4751 Monroe Ave., San Diego, at \$16,350 awarded contract by the Bureau of Yards and Docks, Rockwell Field, for constructing an electrical distribution system at Rockwell Field.

YERBA BUENA ISLAND, Cal.—T. L. Rosenberg Co., 411 Webster St., Oakland, at \$966 awarded contract by Supt. of Lighthouses, San Francisco, to construct power line and other electrical work at the Yerba Buena Light Station, Yerba Buena Island.

SACRAMENTO, CAL.—The American River Flood Control District, 410 State Capital Extension building, Sacramento, was allotted October 20, a loan and grant of \$194,824 by the Federal Administration of Public Works to finance the construction of the following projects:

South levee embankment.
Arcade creek levees.
East levee Meister district embankment.
Drainage work.
Pumping plants.
Chicken ranch slough diversions.
Revision of railroad at levee crossings.
A. M. Barton, 410 State Capital Extension building, Sacramento, is the engineer. B. A. Etcheverry, University of California, Berkeley, and F. C. Herrmann, Merchants Exchange building, San Francisco, are the consulting engineers.

HAYWARD, Alameda Co., Cal.—City of Hayward will call a bond election in the near future to vote bonds to finance construction of a municipal swimming pool, estimated to cost \$75,000. Bond election will be held for \$52,000. Federal aid will be asked to finance portion of work.

Plans Completed.
TERMINAL Cost, \$30,000
BERKELEY, Alameda Co., Cal. San Pablo Ave., bet. Carrison and Ashby Avenue.
Bus and street car terminal (open shed, terminal facilities, comfort stations, rest rooms, telephones, landing platform) some steel and concrete.
Owner—Key System, Ltd., 2129 Grove St., Oakland.
Architect—Kent & Hass, 525 Market St., San Francisco.
Structural steel bids will be taken

Planned.
SWIMMING POOL Cost, \$6500
LIVERMORE, Alameda Co., Cal.
Outdoor swimming pool (30x90 ft.) filter plant, pumps, etc.
Owner—City of Livermore.
Engineer—Not Selected.

CHOLLAS HEIGHTS, Cal.—Following are additional contractors who have procured plans for the purpose of submitting bids on November 1 for painting radio towers at the Naval Radio Station, Chollas Heights, under Specification No. 7391:
Carlson Painting Co., 50 Church St., New York City.

Ralph C. Day, 3510 N. E. Schuyler St., Portland, Oregon.
 National Decorating Service, 4035 S. Michigan Ave., Chicago.
 Newman Bros., McMinnsville, Ore.
 R. M. Hilderbrandt, Lancaster, Pa.
 Arthur M. Geldon Co., 1240 N. Wells St., Chicago.

20—MISC. SUPPLIES AND MATERIALS

BIDS WANTED—All bid calls formerly published under this heading now appear under the special heading "Machinery and Materials."

LOS ANGELES, Cal.—Pacific Coast Steel Co., 621 S Hope St., Los Angeles, at \$12,057 awarded contract by the Los Angeles county supervisors for furnishing 89,200 lbs. of reinforcing steel for construction of a reinforced concrete conduit in Verdugo Wash between Canada Boulevard and Glorietta Wash. The bids were opened October 9.

ANAL ZONE.—Santa Cruz Portland Cement Co., at \$358,400 submitted low bid to General Purchasing Officer, the Panama Canal, Washington, D. C., for furnishing 160,000 barrels of portland cement under Schedule No. 2908.

SAN FRANCISCO—Maurice Knowles, 337 S. 13th St., San Jose, at \$4.95 each submitted low bid to U. S. Forest Service, San Francisco, to furnish 60 one-quart size fire extinguishers, carbon tetrachloride type for use on tractors. Following bids received:

	Each
Maurice Knowles, San Jose.....	\$4.95
Pac. Fire Extinguisher Co., S. F. 5.52	
Calif. Fire Extinguisher Co., S. F. 5.99	
Pyrene Mfg. Co., S. F.....	6.00
Brockman Co., San Jose.....	5.25

SAN FRANCISCO, Cal.—Following bids received by U. S. Forest Service, Ferry Bldg., for furnishing 10,000 lin. ft. pneumatic air hose, 3/4 inch in 50-ft. lengths without couplings:

	Per Lin. Ft.
Sullivan Machinery Co., S. F.....	\$.1159
Gardner Denver Co., S. F.....	.159
U. S. Rub. Products Co., S. F....	.178
Ingersoll-Rand Co., S. F.....	.18
Baker, Hamilton & Pac., S. F....	.209
Western Machinery Co., S. F.....	.2106
Pioneer Rubber Mills, S. F.....	.22
American Rubber Co., Oakland....	.22
Quaker City Rubber Co., S. F....	.2212
Hercules Equipment & Rubber Co., S. F.....	.24

Bids held under advisement.

SAN FRANCISCO — Until October 30, 3 P. M., bids will be received by T. A. Brooks, Purchaser of Supplies, Room 270, City Hall, for furnishing frogs and crossings for the Municipal Railway, under Invitation Bid No. 1095.

SAN FRANCISCO. — Following bids received by U. S. Forest Service to furnish lumber for warehouse f.o.b. Santa Ynez Ranger Station, 23 miles from Santa Barbara:

Hammond Lumber Co., 310 Sansome St., San Francisco, \$522.15 (net).
E. K. Wood Lumber Co., Los Angeles, \$539.20 (5%, 30 days).
Sunset Lbr. Co., Oakland, \$637.37.
Boyd Lumber & Mill Co., \$795.00.
Union Mill & Lumber Co., Santa Barbara, \$799.00.
Ambrose Lumber Co., Santa Barbara, \$800.00.
Wagner Lumber & Mill Co., \$804.00.
Santa Barbara Lumber Co., Santa Barbara, \$804.90 (net).

Bids held under advisement.

SAN FRANCISCO.—Following bids received by U. S. Forest Service, Ferry Bldg., for furnishing 10,000 lin. ft. of pneumatic air hose, 3/4-in. in 50-ft. lengths, without couplings:

	Per lin. ft.
Sullivan Machinery Co., S. F.....	\$.159
Gardner-Denver Co., S. F.....	.159
U. S. Rubber Prod. Co., S. F.....	.178
Ingersoll-Rand Co., S. F.....	.18
Baker, Hamilton, Pacific, S. F.....	.209
Western Machinery Co., S. F.....	.2106
Pioneer Rubber Mills, S. F.....	.22
American Rubber Co., Oakland....	.22
Quaker City Rubber Co., S. F....	.2212
Hercules Equip. & Rubber Co.....	.24

Bids held under advisement.

SAN FRANCISCO—W. R. Ames Co., 150 Hooper St., San Francisco, at \$7.45 and \$5.20 each, submitted low bid to U. S. Forest Service, Ferry Bldg., for furnishing (A) 20 roof plate assemblies for 8-in. pipe and (B) 20 roof plate assemblies for 5-in. pipe. Complete bids follow:

	(A)	(B)
W. R. Ames Co., S. F.....	\$7.45	\$5.20
Merrill Harper, Inc., S. F....	9.50	7.30
John Delucchi, S. F.....	9.75	5.75

All bids under advisement.

SAN FRANCISCO—Bergstrom Steel Co., Ltd., 816 Harrison St., at \$2,130 submitted low bid to the U. S. Forest Service, Ferry Bldg., for furnishing 1300 drill steel holders for detachable drill bits. Complete bids follow:

Bergstrom Steel Co., Ltd., 816 Harrison St., \$2,130.
Pacific H. B. A. Steel Co., 540 Bran-
nan St., San Francisco, \$2,351.53.
Carle M. Jorgensen Co., 534 2nd St.,
Oakland, \$2,785.

All bids under advisement.

PANAMA CANAL ZONE — Until November 3, 10:30 A. M., bids will be received by the General Purchaser's Office, the Panama Canal, Washington, D. C., for trailers, steel, wrought-iron or steel pipe, insulated cable, heater cord, insulated wire, magnet wire, high-tension insulators with hooks, links and tongues, storage batteries, flashlight batteries, electric-light fixtures, glass, deck lights, (lenses); coil chain, brass screws, pneumatic tires, inner tubes, linoleum, leather belting, cane webbing, rubber matting, and International code signal flags, under Schedule No. 2913.

SAN FRANCISCO.—California Corrugated Culvert Co., 5th and Parker, Berkeley, at \$16,284 submitted low bid to the U. S. Forest Service, for furnishing corrugated metal pipe culverts and band couplers. Complete bids follow:

(A) California Corrugated Culvert Co., \$16,284.
(B) Western Pipe & Steel Co. of California, San Francisco, \$16,684.

Unit bids follow:

	(A)	(B)
7906 lin. ft. 12-in. CMP.....	\$.63	\$.65
800 lin. ft. 15-in. CMP.....	.77	.79
2638 lin. ft. 18-in. CMP.....	.91	.93
2454 lin. ft. 24-in. CMP.....	1.45	1.49
1110 lin. ft. 30-in. CMP.....	1.82	1.84
652 lin. ft. 36-in. CMP.....	2.90	2.96
756 12-in. band couplers.....	.72	.72
40 15-in. band couplers.....	.80	.84
144 18-in. band couplers.....	.92	.94
149 24-in. band couplers.....	1.30	1.34
67 30-in. band couplers.....	1.60	1.63
40 36-in. band couplers.....	2.40	2.43

SAN FRANCISCO. — San Francisco Board of Supervisors has set Nov. 7 as the date for the special election on a bond issue of \$3,500,000 for increasing the height of O'Shaughnessy Dam by 85.5 feet, to increase the storage capacity in the Hetch Hetchy Reservoir to insure the ultimate transmission to San Francisco and adjacent

territory of 400,000,000 gallons of water daily.

The Federal Public Works Administration has approved a grant to the city of San Francisco of \$798,000 for financing the above work contingent upon approval of the bonds.

SAN FRANCISCO—The following bids were received by T. A. Brooks, purchaser of supplies, room 270, City Hall, for furnishing automobile truck transportation of wood and kindling for the Citizens' Emergency Relief Committee:

D & C Transfer Company, San Francisco, \$0.115, per stop or delivery.
Cole Transfer Company, San Francisco, \$0.12 per stop or delivery.
Hyman Rosenberg Transfer Company, San Francisco, \$0.185 per stop or delivery.
L. Weleski, San Francisco, \$0.19 per stop or delivery.
Mogan & Co., San Francisco, \$0.29/2 per stop or delivery.
A. B. C. Transfer & Storage Company, San Francisco, \$0.32 per stop or delivery.
J. McCarthy & Sons, San Francisco, \$0.34 per stop or delivery.
S. Brizzelara Draying Company, San Francisco, 0.34 per stop or delivery.
Carley & Hamilton, Inc., San Francisco, \$0.345 per stop or delivery.
Overland Freight and Transfer Company, San Francisco, \$0.35 per stop or delivery.
D. Gallagher & Co., San Francisco, \$0.40 per stop or delivery.

SAN FRANCISCO—Until Nov. 2, 11 A. M., bids will be received by R. C. Kidd, Chief of Procurement Division, Veterans' Administration, Washington, D. C., to furnish 24 gas ranges for installation at Fort Miley, including:

- (1) 6 type "C" closed tops;
- (2) 1 type "A" right hand oven;
- (3) 16 type "B" 9 right hand and 7 left hand ovens;
- (4) 1 portable gas bake oven, second size;
- (5) 1 type "C" for Tuscaloosa, Alabama.

Specifications available from Veterans' Administration, Fort Miley, San Francisco.



In San Francisco

A welcoming room...an enterprising chef...a Union Square location (and that says volumes if you know your San Francisco) ...These are among the Plaza features that will brighten the days of your visit here † †

RATES: \$2 to \$4
 RAY MAXWELL, Manager

HOTEL PLAZA
 POST STREET AT STOCKTON
 SAN FRANCISCO

MACHINERY & MATERIAL

Bid calls for construction machinery and materials and miscellaneous equipment and supplies purchased by Federal, State, Municipal and other Public agencies.

NAVY DEPARTMENT

WASHINGTON, D. C.—Bids will be received by the Bureau of Supplies and Accounts, Navy Dept., Washington, D. C., for the following:

SPARS, hollow, wood, for Puget Sound, Sch. 782; Oct. 31.

HACKSAW BLADES, for Mare Island, 4000 doz. Sch. 917; Nov. 7.

STEEL, flat sheet, black, 25,585 lbs. for Puget Sound, Sch. 929; Nov. 7.

STEEL, galvanized, 12,000 lbs., for Puget Sound, Sch. 929; Nov. 7.

STEEL, plates, black, 125,565 lbs. for Puget Sound, Sch. 928; Nov. 7.

STEEL, plates, black, 20,000 lbs. for Puget Sound, Sch. 928; Nov. 7.

ZINC, rolled, 10,950 lbs. for Puget Sound, Sch. 930; Nov. 7.

LATHE, turret, motor-driven, and equipment, for Mare Island, Sch. 891; Oct. 31.

LATHES, motor-driven engine, 2, for Puget Sound, and spares, Sch. 893; Oct. 31.

SHAPER, motor-driven, double spindle, for Puget Sound, Sch. 898; Oct. 31.

RESAW, motor-driven, band, for Puget Sound, Sch. 900; Oct. 31.

MACHINE, band saw, motor-driven, for Mare Island, Sch. 901; Oct. 31.

MOULDER, 4-sided, complete with motor-drive and equipment, for Puget Sound, Sch. 902; Oct. 31.

SAWS, motor-driven metal cutting band, 7, for Mare Island and Puget Sound, Sch. 905; Oct. 31.

MACHINE, milling, horizontal, motor-driven, and spares, for Mare Island, Sch. 907; Oct. 31.

SHAPER, table, motor-driven universal, and spares, for San Pedro, Sch. 926; Oct. 31.

MACHINE, milling, motor-driven, and spares, for Mare Island, Sch. 931; Oct. 31.

LATHE, turret, motor-driven universal, for San Diego, Sch. 916; Oct. 31.

PRESS, brake, for Puget Sound, Sch. 923; Oct. 31.

PRESS, brake, for Puget Sound, Sch. 924; Oct. 31.

MACHINES, drilling and tapping, motor-driven, 2, for San Diego, Sch. 914; Oct. 31.

MACHINE, hydraulic testing, for Mare Island, Sch. 909; Oct. 31.

TRACTOR, for San Diego, Sch. 933; Nov. 3.

HAMMER, single frame forging steam, for Mare Island, Sch. 938; Nov. 3.

SAWS, bench, motor-driven, universal, 2, for San Diego and San Pedro, Sch. 942; Nov. 3.

LATHE, head, turret geared, motor-driven, and spares, for Mare Island, Sch. 936; Nov. 3.

GRINDER, motor-driven, and buffer, for East or West Yards, Sch. 948; Nov. 3.

MACHINE, radial drilling, motor-driven, for Mare Island, Sch. 935; Nov. 3.

MACHINES, radial drilling, motor-driven, 3, for Puget Sound, Sch. 935; Nov. 3.

CLEANING OUTFITS, boiler tube, air-driven, and spares, for East & West Yards, Sch. 912; Nov. 7.

TESTING OUTFITS, water, boiler, and stock solutions, for East and West Yards, Sch. 913; Nov. 7.

BREMERTON, WASH.—Bids will be received by the Supply Officer, Puget Sound Navy Yard, for the following:

SHEATHING PAPER, rosin slized, 27 rolls. Req. NIRA 31; Oct. 26.

CLIPS, wire-rope, 250. Req. NSA-8/4328; Oct. 30.

THREAD, 6-ply, Irish flax, 100 lbs. Req. NSA-8/4351; Oct. 31.

NAILS, 800 lbs. Req. NSA-8/4367; Nov. 13.

TACKS, upholsters', 200 lbs. Req. NSA-8/4368; Nov. 13.

EYES, SCREW, brass, commercial No. 1001, 864. Req. NSA-8/4321; Nov. 14.

EYES, SCREW, brass, commercial No. 1212, 1728. Req. NSA-8/4322; Nov. 14.

HOOKS, SCREW, cup, brass, 4464. Req. NSA-8/4323; Nov. 14.

CATCHES, French - window - or - cupboard, bronze, 264. Req. NSA-8/4372; Nov. 14.

HANDLES, chest, bronze, type A, 108 pair. Req. NSA-8/4373; Nov. 14.

LINKS, drop-leaf, secretary-bureau, 18. Req. NSA-8/4374; Nov. 14.

LUMBER, 75,000 ft. B. M. Req. 153 NSA; Oct. 31.

FITTINGS, pipe, miscellaneous, brass or bronze, valves, "Y" branches, tees. Req. NSA-8/4203.

BOLTS, machine, brass and steel, 2100. Req. 190 NSA; Nov. 8.

NUTS, machine - screw, brass and steel, 1100, Req. 190 NSA; Nov. 8.

NUTS, steel, regular, 2500 lbs. Req. 190 NSA; Nov. 8.

CANAL ZONE

PANAMA CANAL ZONE.—Bids will be received by the Office of the General Purchasing Officer, Panama Canal, Washington, D. C., for the following:

PIPE, welded - steel, double extra strong, black; 14 pieces. Sch. 2915; Nov. 6, 10:30 A. M.

COPPER, sheet, \$5,000 lbs. Sch. 2915; Nov. 6, 10:30 A. M.

BRASS, sheet, half hard; 2,000 lbs. Sch. 2915; Nov. 6, 10:30 A. M.

RODS, rolled naval brass, round; 1,500 lbs. Sch. 2915; Nov. 6, 10:30 A. M.

RODS, soft brass, round; 1,000 lbs. Sch. 2915; Nov. 6, 10:30 A. M.

ZINC, rolled plate; 3,000 lbs. Sch. 2915; Nov. 6, 10:30 A. M.

LEAD, sheet; 5,000 lbs. Sch. 2915; Nov. 6, 10:30 A. M.

ROPE, wire, high-grade plow steel; 5,000 ft. Sch. 2915, Nov. 6, 10:30 A. M.

ROPE, wire, towing, high-grade plow steel; 1,000 ft. Sch. 2915; Nov. 6, 10:30 A. M.

STRAND, seizing, steel, galvanized; 3,000 lbs. Sch. 2915, Nov. 6, 10:30 A. M.

WIRE, soft steel, galvanized; 5,000 lbs. Sch. 2915; Nov. 6, 10:30 A. M.

NAILS, roofing, steel wire, galvanized, large flat head, barbed; 3,000 lbs. Sch. 2915; Nov. 6, 10:30 A. M.

CHIMNEYS, lamp, center coach; 288. Sch. 2915; Nov. 6, 10:30 A. M.

HOSE, oil-suction and discharge, 4-in.; 200 ft. Sch. 2915; Nov. 6, 10:30 A. M.

CARBON BISULPHIDE, technical, high-grade quality, in 1 gal. cans; 500 gals. Sch. 2915; Nov. 6, 10:30 A. M.

LARD OIL, 500 gals. Sch. 2915; Nov. 6, 10:30 A. M.

CHAIN, coil, close link wrought iron, black; 315 ft. Sch. 2915; Nov. 6, 10:30 A. M.

Specifications obtainable at above office, and at the office of the Assistant Purchasing Agent, The Panama Canal, Fort Mason, San Francisco, Cal., and are on file at the office of the DAILY PACIFIC BUILDER.

WASHINGTON, D. C.—Bids will be received by General Purchasing Officer, Panama Canal, Washington, under Sch. 2914, until October 30, for the following:

STEEL, rein. bars, 15,000 pcs.

STEEL, rein. bars, 4000 pcs.

STEEL, struc. beams, 8 pcs.

STEEL, cold-rolled, 1250 lbs.

ALLOY, copper-nickel, 200 lbs.

SOLDER, wiping, 500 lbs.

NAILS, wire, 3000 lbs.

NAILS, wire, 2000 lbs.

HOISTS, chain, 6½-ton.

SWITCHES and receptacles, 100.

BUZZERS, 6.

FIBER, insulating, 20 sheets.

CELLULOID, 100 sheets.

TIRES, pneumatic, 6.

PAINT, red, 500 lbs.

GREASE, cup, rod, 975 lbs.

WAR DEPARTMENT

FORT MASON, Calif.—Bids will be received by the Quartermaster Supply Officer, San Francisco General Depot, Fort Mason, San Francisco, for the following:

LUMBER, Douglas Fir, selected, common, to conform to Federal Spec. MM-L-751, 130,000 ft. b.m., Req. Q. M. 388-47-34, Memo. 2746; Nov. 2nd.

FORT MASON, Cal.—Bids will be received by the Quartermaster Supply Officer, San Francisco General Depot, Fort Mason, for the following:

NAILS, heavy gauge, cement coated, flat, head, diamond point, smooth, 3500 lbs. Circular 928-34-89; Nov. 8, 10 A. M.

SCREWS, lag, steel, square head, gimlet point, galvanized ½-in. dia. nominal 4-in. long, 1000; Circular 928-34-89; Nov. 8, 10 A. M.

WASTE, cotton, white, 100 lbs. bales, 7500 lbs. Circular 928-34-90; Nov. 3, 10 A. M. Req. 928-4507-34 Memo. 2736.

MIXER, 20-quart, motor driven, 110-volt, 60-cycle, single phase, alternating current motor, complete with attachments. Circular 928-34-90; Nov. 3, 10 A. M.

TABLES, cafeteria, 2. Circular 928-34-90; Nov. 3, 10 A. M.

FRAMES, 2 section, 2. Circular 928-34-90; Nov. 3, 10 A. M.

TOPS, 9-ft. 6-in. x 2-ft. 6-in., 2. Circular 928-34-90; Nov. 3, 10 A. M.

Specifications obtainable at above office without charge and on file at the office of the DAILY PACIFIC BUILDER.

ENGINEERING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

21.—Bridges	30.—Reservoirs and Dams
22.—Dredging, Harbor Works, Excava.	31.—Pipe Lines and Wells
23.—Irrigation Proj.	32.—Sewers & Sewage Disposal Plants
24.—St. Light. Systems	33.—Water Works
25.—Machinery and Equipment	34.—Parks & Playgrounds
26.—Railroads	35.—Tunnels
27.—Fire Alarm Sys.	
28.—Fire Equipment	
29.—Streets & Highways	

21— BRIDGES

ADAMS COUNTY, Wash.—Until November 7, 10 A. M., bids will be received by L. V. Murrow, Director of Highways, Olympia, Wash., to construct a treated timber trestle 112 ft. long, with concrete deck, grading approaches and channel change, State Road No. 11, Lind Bridge and approaches in the city of Lind, National Recovery Municipal Highway Project No. NRM 180-A in Adams Co., involving:

- (1) 8,020 cu. yds. excav. and gravel, borrow;
- (2) 126 cu. yds. of concrete;
- (3) 16,500 lbs. steel reinf. bars;
- (4) 24 MBM treated timber and plank;
- (5) miscellaneous items.

Plans and specifications obtainable from above office upon a deposit of \$2.

SAN JOAQUIN COUNTY, Cal.—San Joaquin Board of Supervisors will ask bids shortly for removing 15 old timber bridges and replacing them with concrete slab bridges. The structures are all located on Mariposa Road over a 10-mile section, starting about 2 mi. east of Stockton. The bridges to be constructed will be 20 ft. in width and varying length from single spans of 8 ft. to multiple spans of 120 ft. The contract will involve approximately 1300 cubic yards of concrete. Bids probably will be received November 13, (tentative date). Estimated cost \$30,000.

Plans and specifications prepared by County Surveyor, Julius Manthey.

VENTURA COUNTY, Cal.—Carlo Bongiovanni, 2561 Canyon Drive, Hollywood, at \$26,591, awarded contract by State Highway Commission, Sacramento, to construct a reinforced concrete girder bridge across Coyote creek about 9 mi. north of Ventura.

SANTA CLARA COUNTY, Cal.—Earl Heple, 494 Delmas Avenue, San Jose, at \$2748 awarded contract by Santa Clara County Board of Supervisors, Henry E. Pfister, Clerk, for constructing a reinforced concrete culvert on San Tomas Aquine Road near Hazel Ave., and the widening of Virginia Ave. culvert over San Tomas Aquine Creek, near Budd Ave. Complete bids follow:

Earl Heple, San Jose.....	\$2748
O. G. Ritchie, San Jose.....	2884
Sam Sciarino, San Jose.....	3160
Collins & Martin.....	3195
Nevis & Harp, Santa Clara.....	3600
Engineer's Estimate.....	3120

GRANT COUNTY, Wash.—Until November 14, 1:30 P. M., bids will be received by the Board of Grant County Commissioners for the construction of two timber bridges to be

awarded in one contract: Drumheller bridge across Crab Creek, 9 mi. south of Neppel, and Corfu-Warden bridge 11-mi. south of Neppel. Plans and specifications obtainable at the office of the Board of County Commissioners, Ephrata, Wash., upon deposit of \$5.

MARE ISLAND, Vallejo, Cal.—Bids will be received until-Dec. 12, 11 A. M., for constructing a new causeway between Mare Island and Vallejo. This causeway will be approximately 4500 ft. long. It will consist mainly of fixed spans and a draw span. The fixed span will be of reinforced concrete pile caps which in turn will carry longitudinal beams of rolled steel shapes upon which are placed a road slab of reinforced concrete and a railroad track. Piles, 18 to 22 inches square, with maximum length of 105 ft. will call for heavy construction equipment. Roadway will be 30 ft. wide including railroad track. The design calls for earth fill construction on the mud flats at the Vallejo end. An alternate design calls for pile bent construction in lieu of this earth fill.

The draw span will be a single-leaf bascule of 75 ft. clear opening full width of roadway, to be of rolling lift or trunion type, all complete in this contract including operating machinery with the operators' house and house for electrical equipment, also main draw pier and rest pier as required by the particular type of draw furnished. The contract will also include fender system for draw and its approaches.

Included in the plans and specifications is a guard house at the Mare Island end of the causeway. A bidding item will provide for the omission of this at the Government's option.

There will be accessories such as safety gates for the draw, conduit system under the sidewalk of the causeway, trolley wire for electric locomotives, street lighting, standards, bridge railing, etc. Spec. No. 7448. Specifications obtainable from the office of the Public Works Officer, Navy Yard, Mare Island, on deposit of \$25. Ralph Whitman, Capt. U. S. N., Public Works Officer.

BUTTE COUNTY, Cal.—Until November 15, 2 P. M., bids will be received by the State Highway Commission, Sacramento, to construct a reinforced concrete bridge across Pine Creek, about 13 mi. north of Chico, consisting of six 31-ft. spans on concrete piers with steel pile foundations and concrete abutments with wing walls, involving:

- (1) 400 cu. yds. struc. excav.;

- (2) 620 lin. ft. furnish steel piles including test piles;
- (3) 25 each driving steel piles, do;
- (4) 526 cu. yds. Class A Port. cement concrete;
- (5) 75,000 lbs. bar reinf. steel;
- (6) 324 lbs. bronze expansion plates;
- (7) 412 lin. ft. solid timber railing;
- (8) 1 lot misc. items of work.

Plans and specifications obtainable from above office, and on file at the office of the District Engineer in Los Angeles and in San Francisco, and in the district in which the work is situated.

SACRAMENTO, Calif.—Representatives of the district office will accompany prospective bidders over the proposed State Highway project in Monterey County, bet. Kings City and Greenfield, Road V-Mon-2-F.E., for which bids are to be received November 8.

Said representative will meet prospective bidders at northerly end of the King City bridge on Thursday, Nov. 2, at 10 A. M.

Representative of the district office will accompany prospective bidders over the proposed project in Santa Barbara county, between Olive Mill Road and Santa Barbara, Road V-S. B-2-J, for which bids are to be received Nov. 8.

Said representative will meet prospective bidders at easterly city limits of Santa Barbara on Thursday, Nov. 2 at 10 A. M.

Prospective bidders are urged to cooperate with the District Office and arrange to make their field inspection on the above dates.

CAPITOLA, Santa Cruz Co., Cal.—Until November 7, 2:30 P. M., bids will be received by the Santa Cruz County Board of Supervisors for the construction of a reinforced concrete girder bridge over Soquel Creek at Capitola. The bridge will be 135-ft. in length, with a 30-foot road bed and a 6-foot sidewalk on each side, involving:

- (1) 272 cu. yds. dry excav., unclass.;
- (2) 354 cu. yds. wet excav., unclass.;
- (3) 373 cu. yds. Class A conc. (abutments and pier);
- (4) 447 cu. yds. Class A (superstruc.)
- (5) 22 cu. yds. Class S concrete (railing);
- (6) 94,000 lbs. reinforcing steel;
- (7) 2,825 lin. ft. redwood timber piles delivered;
- (8) 113 pile driven.
- (9) lump sum, electric lighting system complete.

Lloyd Bowman, County Engineer. Specifications obtainable from above office at a charge of \$2.00.

SACRAMENTO COUNTY, Cal.—A. F. Anderson, 5322 J St., Sacramento, at \$3505.77 awarded contract by the County Board of Supervisors, Sacramento, to construct a 78-ft. timber bridge and two concrete abutments at Walsh Station.

Complete bids follow:

A. F. Anderson, Sacramento.....	\$3505.77
M. A. Jenkins, Sacramento.....	3764.61
C. R. Fiedler, Sacramento.....	3786.99
J. W. Hoopes, Sacramento.....	3890.48
P. F. Bender, No. Sacramento 3919.71	
Heldener Constr. Co., Sacto.....	3954.80
Reeves, Lord & Bishop, Sacto. 3988.63	

22—DREDGING, HARBOR WAYS

MARYSVILLE, Cal.—Until November 1, 3 P. M., bids will be received by the U. S. Engineer's Office, 208

CAPITAL CITY TITLE COMPANY

J. C. PALEN,
Manager

914 Seventh Street
Sacramento :: California

Post Office Bldg., Sacramento, under Spec. No. 5533 for placing a slab levee on the westerly side of, and against the railway embankment of the Western Pacific Railway on the easterly side of the Feather River for a distance of approximately 900 feet from 9th to 11th Sts. at the City of Marysville, Calif.; including clearing of the right-of-way, removing and replacing obstructing telephone poles and wire, guy wires and such other obstructions as may be necessary in constructing the embankment, and building up street crossings as required. Approximately 15,500 cu. yds. of earth is to be moved. Specifications obtainable from above office.

COLUSA COUNTY, Cal.—Until Oct. 30, 3 P. M., bids will be received by U. S. Engineer's Office, Room 208, Post Office Bldg., Sacramento, under Spec. No. 5548, for placing approximately 12,600 tons of rip-rap stone along five sections of the banks of the Sacramento river between mile 150 and mile 166, approximately opposite the town of Princeton, to be placed as follows:

2,600 tons at Sailor Bend;
2,000 tons at Hankin's Place;
2,500 tons at Hamilton Bend;
3,500 tons at Wohlfrom's Bend;
2,000 tons at Hart-Steele Place.

Bids will be received under Grade A for rip-rap stone (cobble) and under Grade B for rip-rap quarry stone, in 20 to 300 lb. size. The drawings may be obtained upon request at the above office, Capt. J. G. Drinkwater, District Engineer, or at the office of the Division Engineer, Pacific Division, 414 Custom House, San Francisco.

PEARL HARBOR, T. H.—Until Dec. 13, 11 A. M. (as previously reported) bids will be received by the Bureau of Yards & Docks, Navy Dept., Washington, D. C., for dredging and disposition of approximately 5,500,000 cubic yards of material to widen and straighten channel at the 14th Naval District, Pearl Harbor. Spec. No. 7-337, and accompanying drawings obtainable on deposit of \$25, from the Commandant, 12th Naval District, 100 Harrison St., San Francisco.

SAN FRANCISCO—San Francisco Board of Supervisors have set November 7 as the date for the special election on a bond issue of \$815,000 for extension and construction of the existing yacht harbor in the San Francisco Bay, fronting on the Marina, by extending the same easterly from Scott St. toward Laguna St., which is the proposed easterly boundary of said yacht harbor. The work to be done involves:

- (1) Erection of a breakwater;
- (2) Concrete pier approach from the concrete seawall to the breakwater, consisting of reinforced concrete jackets, service and landing wharves;
- (3) Providing lighting and water facilities;
- (4) Service building;
- (5) Public convenience stations;
- (6) Two lighthouses, all designed for the use of a Yacht Harbor.

The Federal Public Works Administration has approved a grant to the city of San Francisco of \$203,000 for financing the above work contingent upon approval of the bonds.

HONOLULU, T. H.—Until Nov. 2, bids will be received at the office of the District Engineer, U. S. Engineer's Office, Federal Bldg., Honolulu, for constructing a breakwater at Port Allen, T. H., requiring 199,600 tons stone. Specifications obtainable from above office.

HONOLULU, T. H.—Hawaiian Dredging Co., Honolulu, at \$98,740 awarded contract by the District Engineer, U. S. Engineer's Office, Federal Bldg., Honolulu, for dredging 318,950 cubic yards from Kuanakakia Harbor, T. H.

HONOLULU, T. H.—Until Nov. 2, bids will be received at the office of the District Engineer, U. S. Engineer's Office, Federal Bldg., Honolulu, for dredging 777,500 cu. yds. from Port Allen, T. H. Specifications obtainable from above office.

PEARL HARBOR, T. H.—Until October 31, under Spec. 7437, bids will be received by the Public Works Officer, Naval Station, Pearl Harbor, T. H., for an extension to the seaplane beach.

SAN RAFAEL, Cal.—Frank's Contracting Co., 260 California St., San Francisco, at \$54,600, submitted low bid for the Constructing Quartermaster, Hamilton Field, San Rafael, for construction of a channel from the bay to the boathouse site. The channel is to be 100 ft. wide, dredged to a depth of 7 feet. Complete bids follow:

(A) Frank's Contracting Co., S. F., \$54,600.

(B) S. F. Bridge Co., S. F., \$97,500.

Unit bids follow:

(1) 390,000 c. y. dredging: (A) \$54,600; (B) \$97,500.

(2) Dredging, 5-ft. depth, no bid.

(3) Dredging, price per c. y., \$.10; (B) \$.25.

MARE ISLAND, CAL.—As previously reported, bids will be received by the Public Works Officer, Ralph Whitman, Navy Yard, Mare Island, until Nov. 9, 11 a. m., under Specification No. 7102, for extension of Dike No. 12. The contract includes extension from the end of the present dike for a distance of approximately 1800 ft. The new construction will be in two sections as follows:

(A) Section I. A creosoted timber bulkhead of a single line of sheet-piling with standard piles, wales and brace piles filled on one side with core rock placed on a cushion of sand fill deposited in a wide trench dredged in existing mud bottom. Core rock to be covered with a facing layer of hard rock. All material, including sand to be provided by contractor. This section is about 335 ft. long with present maximum depth of water about 45 ft. below M. L. W. This section adjoins the end of existing dike.

(B) Section II. A trapezoidal dike of core rock deposited on a cushion of sand placed in a wide trench dredged in existing mud bottom. Core rock to be covered with a facing layer of hard rock. No timber construction in this section. All material, including sand, to be provided by contractor. An alternate design of this section provides for deposit of low grade quarry rock directly on existing bottom without dredging of sand cushion core, rick and facing rock to be placed on quarry run rock. Length of this section about 1465 ft. to be increased or diminished at Government's option under separate bidding items. Present depth on this section runs about 10 to 20 ft. M. L. W. Specifications obtainable from above.

23—IRRIGATION PROJ.

DUNAWAY, Ore.—Quinn-Robbins Co., Inc., Boise, Idaho, at \$32,220 submitted low bid to R. J. Newell, Construction Engineer, Bureau of Reclamation, Ontario, Oregon, for prepara-

tion of concrete aggregates at Dunaway gravel pit, Owyhee project, Oregon-Idaho. Spec. No. 661-D. Complete bids follow:

Quinn-Robbins Co., Inc., Boise, Idaho, \$32,220.

Hart Constr. Co., La Grande, Oregon, \$44,150.

Triangle Constr. Co., Boise, Idaho, \$44,350.

Saxton & Looney, Corvallis, Ore., \$45,020.

Ralph Davis, St. John, Wash., \$46,930. Birkenmeier & Saremal, Portland, Ore., \$48,400.

General Constr. Co., Seattle, Wash., \$48,580.

Albertson & Cornell Bros., Tacoma, Wash., \$50,200.

Interstate Constr. Co., Portland, Ore., \$50,910.

Jeslin & McAllister, Spokane, Wash., \$52,210.

Hermer G. Johnson, Portland, Ore., \$56,600.

J. A. Terteling & Sons, Boise, Idaho, \$59,390.

WESTERN STATES—Allotments of public works funds for reclamation and irrigation projects for western states include the following:

Drainage work near Yuma, Arizona, \$120,000.

Drainage work on Rio Grande Project, New Mexico, \$500,000.

24—STREET LIGHTING SYSTEMS

SANTA CRUZ COUNTY—See item under "21—Bridges."

MARE ISLAND—See item under "21—BRIDGES."

25—MACHINERY AND EQUIPMENT

BIDS WANTED—All bid calls formerly published under this heading now appear under the special heading "Machinery and Materials."

SAN DIEGO, Calif.—Following contracts awarded by the State Purchasing Agent, Sacramento, for furnishing equipment for Division of Highways, Shop 11, San Diego, under Quotation No. 8242, Requisition No. 10. Bids open October 2:

Chanslor & Lyon Stores, 1423 South Grand Ave., Los Angeles, one Essen valve spring tester, \$21; one Champion spark plug tester, \$3.50.

Auto Gear & Supply Co., 1369 State, San Diego, one sensitive bench drill, \$37.00.

Motor Parts Co., 239 W 15th, Los Angeles, one Van Norman valve refacer and cabinet, \$83.30.

Geo. A. Kreplin Co., 3060 Broadway, Oakland, 2 No. 270 Walker mechanic jacks, 2½ ton, \$32.50; 1 Weaver Model "E" tire changer, \$40.25.

Featherstone's, Inc., 1805 S Hill St., Los Angeles, one O. G. Rush Jr. brake lining and riveting machine, \$79.50; one No. 126 Lyon tire rack, \$8.85; one No. 127 Lyon unit for above, \$6.75; three No. 626 Lyon tool units, \$105.60.

P. W. Gavin Co., 1165 Front St., San Diego, one Van Norman Perfect-o-boring har, \$261.75; four machinists' bench vises, \$38.24.

Hazard Gould & Co., 302 5th Ave., San Diego, one 21-in. Canedy Otto power drill, \$291; one 8x6 Gardner compressor, \$791; extra for unloading valve and pilot, \$30; one Verticle air receiver, \$61.00.

Motor Hardware & Equip. Co., 1133 Columbia, San Diego, one Storm No. 950 connecting rod truing device, \$36.97; one Manley 40-ton press, \$125.80; one Weaver floor crane, \$132.00.

Union Hardware & Metal Co., 411 E 1st, Los Angeles, two No. 125 Walker

jacks and handles, \$14.20; one No. 700 Reid pipe vise, \$2.40; 18 high speed steel cutters, \$1.77; one piece cutting off steel, \$.40.

Automotive Sales, Inc., 1337 South Flower St., Los Angeles, one Van Dorn 12-in. floor grinder, \$175.00.

Henes-Morgan Machinery Co., Ltd., 1506 Santa Fe Ave., Los Angeles, one Cushman drill chuck, \$10.15.

Victor Welding Equip. Co., 344 Folsom St., San Francisco, one Victor 310 torch butt with nozzles; one Victor oxygen regulator; 1 Victor acetylene regulator; 12½-ft. oxygen hose; 12½-ft. acetylene hose; one pair goggles; one spark lighter; one 4-way wrench, all for \$43.95; one Victor No. 400 cutting torch, \$21.00.

Eccles & Davis Machinery Co., Inc., 320 S San Pedro, Los Angeles, one 16x 10-in. Carroll-Jamieson gear head lathe and accessories, \$1,240.00.

Herberts Machinery Co., Ltd., 2929 Santa Fe Ave., Vernon, Los Angeles, one Williams A-28 tool holder, \$3.00; one Williams 22-R straight cutting off tool, \$3.35; one Williams 32-R right do, \$3.35; one Williams 32-L left do, \$3.35.

Union Hardware & Metal Co., 411 E 1st St., Los Angeles, four Little Giant dies, \$12.83.

Machinist Tool Supply Co., 3690 Santa Fe Ave., Los Angeles, one Black & Decker portable grinder, \$51.00.

Ingersoll-Rand Co., 350 Brannan St. San Francisco, one 1-R 8-A pneumatic riveting hammer, \$89.90 one 1-R CSB non reversible taper drill shank taper \$160.00.

Motor Parts Co., 239 W 15th St., Los Angeles, one high speed taper shank drills, assorted sizes, \$54.08.

Ducommun Corp., 219 S Central, Los Angeles, one vacuum gauge, \$1.60; one 1146 tap wrench, \$4; one rubber mallet, \$.75; one wooden mallet, \$.25; one 1-B Barnes pipe cutter, \$2.50; one 2-B Barnes pipe cutter, \$3.30; one Atkins keyhole saw, \$.27; one 24-inch Stanley square, \$1.00; one o. 7 Wiss tinner's snips, \$2.16; one No. 11 Wiss do, \$.99.

Ducommun Corp., 219 S Central, Los Angeles one, No. 32 blow torch, \$6.55; one radiator filling can, \$1.00; one radiator filling can, \$1.50; one swing-spout oil measure, \$2.00; one do, \$2.25; two do \$3. each, \$6.00.

Geo. A. Kreplin Co., 3060 Broadway, Oakland, 13 sets of taper, plug and bottoming U. S. S. taps, \$60.40; one ratchet tap wrench (338), \$.85; one do (39), \$1.30; one do (336), \$1.01.

Motor Hardware & Equipment Co., 1133 Columbia, San Diego, one Allen ignition synchronizer, \$6.16; 11 Little Giant SAE dies, \$19.80; do do, \$15.13; 11 sets taper, plug and bottoming taps, \$38.32; one tap wrench, \$4.90; one Sioux valve seat reamer set, \$22.50; six each, sets twist drills, \$27.20.

P. W. Gavin Co., 1165 Front St., San Diego, one 337 tap wrench, \$1.23; one set pipe dies ½-in. 1-in., \$8.25; one set auger bits, \$2.66; 12 six-blade exp. reamer, \$34.35; 2 exp. rights & guards and 25-ft. cord, \$3.00.

Hazard Gould & Co., 302 5th Ave., San Diego, six pipe taps, \$4.75; five stillson wrenches, \$12; three Porter's bolt cutters, \$11.50.

Western Metal Supply Co., 215 7th, San Diego, \$.85; one No. 100 Clark Exp. Bit, \$.43; one No. 10¼-in. With-erby socket chisels, \$.43; one No. 10% do, \$.43; one No. 10½ do, \$.43; one No. 10% 1-in. do, \$.48; one No. 10% 1-in. do, \$.50; one 10% 1-in. do, \$.56; one No. 10½-in. do, \$.71; one No. 10 1-in. do, \$.58.

Automotive Sales Co., 6501 Sunset, Los Angeles, one Van Norman electric drill, heavy duty, \$32.30.

Lambert Co., Ltd., 1202 E 9th St., Los Angeles, one No. 210 Van Norman electric drill, \$35.70; one No. 116 do, \$51.00; one No. 220 do, \$57.20.

California Hardware Co., 500 East

1st St., Los Angeles, 7 taper pin reamers, \$5.50.

SAN FRANCISCO—Identical bids asked \$190 each for furnishing 10 rock drills, air, 50 50 59 lb. weight and were submitted to the U. S. Forest Service, Ferry Bldg., San Francisco. The following firms bid:

Schram Co., 75 Fremont St.
Rix Co., Inc., 400 Fourth St.
Chicago Pneumatic Tool Co., 175 First St.
E. R. Bacon Co., 17th & Folsom Sts.
Ingersoll Rand of Calif., 350 Brannan St.
Gardner Denver Co., 250 7th St.
Sullivan Machinery Co., Hobart Bldg.

SAN RAFAEL, Cal.—Construction Quartermaster Hamilton Field, San Rafael, is now designing gasoline distribution and oil storage system for the post. Manufacturers and distributors of pumps and equipment for hauling gasoline and oil are invited to send catalogues and descriptive matter to the office of the Quartermaster, attention of Chief Engineer. Captain Leander Larson, Constructing Quartermaster.

SAN FRANCISCO, Cal.—Following bids received by U. S. Forest Service, Ferry Bldg., for furnishing one drill sharpener for ¾-in. steel rock drills:

Ingersoll-Rand Co., S. F.	\$ 716.00
Gardner-Denver Co., S. F.	1,115.00
(Class E)	716.00
(Class C)	1,115.00

Bids held under advisement.

NORTH HOLLYWOOD, Los Angeles Co., Cal.—Crock Co., 2900 Santa Fe Ave., Los Angeles at \$1425 (net) awarded contract by State Purchasing Agent, Sacramento, for furnishing an Allis-Chalmers Model U tractor, Reg. No. 6297, Quotation No. 9628, f.o.b. North Hollywood. The bids were Crock Co., A-C Model U, \$1500 gross; \$75 trade-in allowance, net \$1425; Brown-Bevis Co., Case Model C. 1, \$1500; allowance, \$75; net \$1425.
J. D. Adams Co., McCormick-Deering Model 20, \$1500; allowance \$75; net, 1425.

SACRAMENTO, Cal.—The Bureau of Purchases, Sacramento, J. F. Misphey, State Purchasing Agent, has rejected all bids received on a road roller under Quotation 10040, Shop 11, delivery at San Diego, Reg. 12½, for the reason that the prices quoted were unreasonably high.

SANTA BARBARA, Cal.—Luke and Livingston Tractor & Equipment Co., Santa Barbara at \$1700 (net) were awarded contract by the State Purchasing Agent, Sacramento, for furnishing one Caterpillar "35" tractor under Reg. No. 8140, Quotation No. 9629, f.o.b. Santa Barbara.

The bids were:
Luke & Livingston, Caterpillar "35" \$2625 gross; trade-in allowance, \$525; net, \$2090.

Farmers Hardware and Implement Co., Allis-Chalmers, \$2773.65; allowance, \$750; net, \$2023.65.
J. D. Adams Co., T-40 McCormick-Deering, \$2810; allowance, \$525; net, \$2285.

Smith, Booth, Usher Co., Cletrac 35, \$2725; allowance, \$635; net, \$2090.

SAN FRANCISCO—Following bids received by U. S. Forest Service, Ferry Bldg., for furnishing one drill sharpener for ¾-in. steel rock drills:

Ingersoll-Rand Co.	\$ 716
Gardner-Denver Co.	1,115
Sullivan Machinery Co., Class E	716
" Class C	1,115

Bids held under advisement.

MARE ISLAND—See item under "21—BRIDGES."

PASADENA, Los Angeles Co., Cal.—Bids for furnishing valves, wyes, manifolds, fittings and bolts for use on the Pine Canyon Dam, were opened by the Pasadena City Board of Directors October 24, under the following schedules:

(1) steel plate manifold and wye;
(2) two 30-in. extra heavy gate valves
(3) two 30x24-in. needle valves;
(4) two 24-in. heavy gate valves with ring followers;
(5) cast steel fittings and bolts.

Bids which were taken under advisement, are as follows:

Pelton Water Wheel Co., (3) \$6,454; (4) \$5960.

Lake Erie Engr. Co., (3) \$7025.00.
Rensselaer Valve Co., (2) \$2909.00.

Ludlow Valve Mfg. Co., (2) \$3990.00.
Southwest Welding & Mfg. Co., (1) \$1184.36.

Western Pipe & Steel Co., (1) \$1,420.00.

Consolidated Steel Corp., Ltd., (1) \$1235.00.

Vernon Tool Co., Ltd., (5) \$1335.00.
Chapman Valve Mfg. Co., (2) \$2424;
(4) \$3244.00.

SANTA CRUZ—City Engineer Roy Fowler, Santa Cruz, has been authorized by the City Council to advertise for bids on the re boring of the Diesel engines at the Crossing Street water pumping plant.

WHITTIER, Cal.—Wood Hydraulic Hoist & Body Co., 1210 Mateo St., Los Angeles, at \$1620 awarded contract by the Whittier City Council for furnishing one 3-section hydraulic hoist and repair tower, with a maximum height of approximately 18 ft., and a maximum lowered height of 8½-ft. from ground level, installed on Dodge 1½-ton truck chassis furnished by the City of Whittier. M. R. Bowen, Water Superintendent. No other bids received.

LOS ANGELES, Cal.—Pelton Water Wheel Co., 2929 19th St., San Francisco, submitted the only bid to A. J. Holm, City Purchasing Agent, at prices shown below, for furnishing and delivering to Water & Power Dept., f.o.b. the department's warehouse, 1630 N. Main St., one only Universal hydraulic testing machine, complete with accessories, under Spec. No. 3237. The bids were taken as follows:

(1) One Universal hydraulic testing machine having 200,000 lbs. compression capacity and 200,000 lbs. tension capacity, capable of accommodating specimen 11 ft. in length and having a power stroke of not less than 18-in.

(1 Alt. a) Same as (1) except for compression capacity which shall be 300,000 lbs.

(1 Alt. b) One Universal hydraulic testing machine in accordance with bidder's specifications.

The bid was as follows: (1) \$6306, (1 Alt. a) \$7272, (1 Alt. b) no bid. Terms net. Delivery, 78 days. Alternate (all rail): (1) \$6752, 1 Alt. a) \$7583, (1 Alt. b) no bid. Terms net. Delivery, 66 days.

PASADENA, Cal.—Allis-Chalmers Mfg. Co., 458 S. Spring St., Los Angeles, at \$58,080 awarded contract by Pasadena Board of Directors for furnishing switch gear for Lamanda Park Substation.

26—RAILROADS

SAN FRANCISCO—San Francisco Board of Supervisors has set Nov. 7 as the date for the special election on a bond issue of \$63,000 for financing the extension to the municipal railway from Taraval Street and 46th

Avc. The work to be done involves:
 (1) Extension to the Municipal Railway Car Line from Taraval Street and 46th Avenue southerly on 46th Ave. to Vicente St. with a single track loop around the block bounded by 46th Ave., Wawona St., 47th Ave. and Vicente Street.

The Federal Public Works Administration has approved a grant to the city of San Francisco of \$14,700 for financing the above work contingent upon the approval of the bonds.

FORT MASON, San Francisco.—Until November 2, 10 A. M., bids will be received at the Office of the Constructing Quartermaster, Fort Mason, for relaying and reconditioning railroad tracks in transport dock area at Fort Mason. Plans and specifications obtainable from above office upon deposit of \$5. Further information obtainable from above office.

MARE ISLAND—See item under "21—BRIDGES."

28—FIRE EQUIPMENT

PHOENIX, Ariz.—Bids for furnishing two pieces of fire equipment of the pump and hose cart type were opened by the Phoenix City Commission October 20. The bids, which were taken under advisement until Oct. 25, were:

- Ahrens-Fox Fire Engine Co., \$25,460 alternate, \$24,500.
- American-La France Corp., \$27,000; alternate, \$24,000.
- Seagrave Corp., \$27,000; alternate, \$25,000.

30—RESERVOIRS & DAMS

FUNDS ASKED

LOVELOCK, Nev.—The application of the Pershing County Water Conservation District, Lovelock, asking for a Federal Public Works loan of \$1,600,000 to finance the acquisition of water rights and building a reservoir on the Humboldt river in Pershing county, has been filed with R. A. Hart, P.W.A. engineer at Salt Lake City. The application was approved by him and forwarded to Washington for final action. 30

SAN DIEGO, Cal.—The San Diego City Council has authorized the application to the Federal Public Works Administration for \$160,000 to finance repair of Lake Hodges Dam. City will ask 30% as a grant and provide security for a loan of the balance.

PRESCOTT, Ariz.—City Engineer Arthur J. Kline is completing surveys four miles west of the city in the Prescott National Forest in connection with the proposed rock-filled dam which would serve as a fishing lake. The lake would cover about 15 acres of ground and the Yavapai County Chamber of Commerce and County Welfare Board hope to secure public works funds for the project. Other surveys are being made at the fair grounds with a view of converting the grounds into public park with a stadium, swimming pool, race track, baseball diamond, picnic grounds and other facilities.

CASPER, Wyoming—Lawlor & Woodward Co., Seattle, Wash., at \$269,905 submitted low bid to the Bureau of Reclamation, R. F. Walter, Chief Engineer, Casper, Wyoming, for the construction of a diversion tunnel approximately 1350 ft. long with a diameter of 20 ft., together with concrete lining and concrete inlet and outlet structures and the partial construction of the gate tower, for the

Alcova Dam, Alcova-Casper Project. Complete bids follow:
 Lawlor & Woodward Co., Seattle, Wash., \$269,905.
 S. J. Grooves & Son, Minneapolis, \$322,872.50.
 Morrison-Knudsen Co., Boise, \$374,150.
 Edward Peterson Co. and R. S. Morrow & Son, Omaha, \$278,759.95.
 Seerie Bros, Denver, \$398,074.
 Broderick & Gordon, Denver, \$417,745
 Utah Constr. Co., Ogden, \$423,655.
 Hamilton Gleason Co., Denver, \$428,940.

The contract involves the following items:

- (1) diversion and care of river and unwatering excav. (lump sum);
- (2) 1,600 cu. yds. excav. all classes, stripping gravel deposits;
- (3) 100 cu. yds. excav., common, open cut, for tunnel inlet;
- (4) 2,800 cu. yds. excav. solid rock, open cut, for tunnel inlet;
- (5) 4,300 cu. yds. excav. common, open cut, for tunnel outlet;
- (6) 35,000 cu. yds. excav., solid rock, open cut, for tunnel outlet;
- (7) 500 cu. yds. excav., common, for outlet tower above elev. 5508;
- (8) 2,000 cu. yds. excav., solid rock, for outlet tower above elev. 5508;
- (9) 21,000 cu. yds. excav., all classes, for tunnel;
- (10) 4,300 cu. yds. excav., all classes, for outlet tower shaft;
- (11) 60,000 lbs. installing steel liner plates;
- (12) 4,400 cu. yds. conc. in tunnel lining;
- (13) 1,200 cu. yds. conc. in outlet tower, elev. 5347.5 to elev. 5508;
- (14) 860 cu. yds. conc. in portal headwalls, tunnel and outlet tower transitions and foundation for trash-rack;
- (15) 425 cu. yds. conc. in outlet channel transition;
- (16) 100,000 lbs. placing reinf. bars;
- (17) 400 lbs. placing 2-in. drain pipe for weep holes;
- (18) 200 lin. ft. placing copper grout steps;
- (19) 3,000 lbs. placing grout pipe and connections;
- (20) 9,000 lin. ft. drilling grout holes not more than 20 ft. deep;
- (21) 1,800 lin. ft. drilling holes for anchor bars and grouting bars in place;
- (22) 10,000 cu. ft. pressure grouting.

30—RESERVOIRS & DAMS

BIDS WANTED

BONNEVILLE, Ore.—Until Oct. 31, 3 P. M., bids will be received at the U. S. Engineer's office, 306 Customhouse, Portland, Ore., for the following work:

- Excavation Within Cofferdam**
- (1) 180,000 cu. yds. Class 1 (common) from areas B, C, D and above plus from areas A and P;
- (2) 60,000 cu. yds. Class 2 (rock) from do;
- (3) 30,000 cu. yds. Class 1 (common) from areas above plus 10;
- (4) 20,000 cu. yds. Class 2 (rock) from do;
- (5) 40,000 cu. yds. Class I (common) from areas S, P and A, below plus 10;
- (6) 40,000 cu. yds. Class 2 (rock) from do;
- (7) 20,000 cu. yds. Class I (common) from area Y, below plus 10 and above 0.
- (8) 10,000 cu. yds. Class 2 (rock) from do;
- Excavation Outside Cofferdam**
- (9) 40,000 cu. yds. Class I (common) from areas E and F, above plus 18;
- (10) 30,000 cu. yds. Class 2 (rock) from do;
- (11) 10,000 cu. yds. Class I (common)

- from areas E and F, below plus 18;
 - (12) 25,000 cu. yds. Class 2 (rock) from do;
 - Other Work**
 - (13) 20,000 cu. yds. borrow for cofferdams;
 - (14) 130,000 cu. yds. fill for cofferdams;
 - (15) 100,000 cu. yds. fill in levee;
 - (16) 10 acres, clear and grub;
 - (17) 2,000 ac. ft. pumping from foundation excavation;
 - (18) 10,000 ac. ft. pumping from cofferdam pool;
 - (19) 2,000,000 sta. yds. overhaul.
- Specifications are obtainable at the above office and on file at the office of the PACIFIC CONSTRUCTOR, C. F. Williams, District Engineer.

31—PIPE LINES & WELLS

PEARL HARBOR, T. H.—Until November 22 (date postponed from Nov. 8) bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., for improvement of fuel oil system at Pearl Harbor, T. H. Estimated cost \$112,000. Spec. No. 7136. Following have procured plans:
 Kinney Mfg. Co., 3529 Washington St., Boston.
 American Cast Iron Pipe Co., Birmingham, Ala.
 U. S. Pipe & Foundry Co., Philadelphia.
 Ross Heater & Mfg. Co., Buffalo, New York.

32—SEWERS & SEWAGE DISPOSAL PLANTS

SAN FRANCISCO.—San Francisco Board of Supervisors has set Nov. 7 as the date for the special election on a bond issue of \$2,625,000 to finance the improvements consisting of reconditioning and rebuilding existing sewers, the construction of structures at the ends of existing sewers, sewerage disposal plants and new sewers throughout the city. The work to be done includes:

- (1) Reconditioning and rebuilding existing sewers on 15th, Brannan, 6th, 16th, and 18th Streets, the Merced Land Sewer, and the Lake St. Outfall Sewer.
 - (2) Construction of sewage treating plants at Baker's Beach, and the Marina District.
 - (3) Extension of the North Point main sewer at the foot of Sansome St.
 - (4) New pumping equipment at the Commercial St. pumping station.
 - (5) Additional sewerage disposal plants and pumping equipment where necessary.
 - (6) Construction of new adequate sewers on Third St., Yosemite Ave., Visitation Valley, Golden Gate Hgts.
 - (7) Sanitary relief sewer in the Lake Merced District.
 - (8) Sanitary sewer at 44th Avenue and Sloat Blvd.
 - (9) Extension of the Laguna Street storm sewer to Lewis St.
 - (10) New sewer on Hyde and Jefferson Streets or other and adjacent streets.
- The Federal Public Works Administration has approved a grant to the city of San Francisco of \$545,000 to finance the above work contingent upon approval of the bonds.

SAN FRANCISCO—Until November 1, bids will be received by the Department of Public Works, for the reconstruction of the sewer on Evans Ave., between Newhall and Third Sts. Estimated cost, \$1450. Work involves:
 (1) 460 lin. ft. 12-in. V.C.P. sewer to be constructed;
 (2) 10 12-inx6-in. "Y" branches on 12-in. V.C.P. sewer;

- (3) 5 brick manholes to be reconstructed;
 (4) 80 lin. ft. 6-in. side sewer (V.C.P.) to be constructed.

Specifications obtainable from above

office.

LAN RAFAEL, Marin Co., Calif.—Oakland Sewer Const. Co., 9915 Walnut St., Oakland, at \$14,288 awarded contract by Constructing Quartermaster, Hamilton Field, for constructing sanitary and storm sewer extensions at Hamilton Field.

33— WATERWORKS

FONTANA, San Bernardino Co., Cal.—The Fontana Domestic Water Co., by Philip H. Hasbruck, engineer, Fontana, has applied to the Federal Administration of Public Works for a loan of \$425,000 to finance the purchase of land and construction of a domestic water supply in Fontana. The work will involve:

Reservoir No. 1, 28,800 cubic feet capacity, inside diameter 60 feet, height of wall 13 feet, thickness 12 inches, 4½-in. concrete floor, 5-inch concrete slab roof carried on 12x24-inch concrete girders spaced on 18 foot centers, girders carried on 16x16-inch concrete columns. The materials required are:

- (1) 350 cu. yds. concrete;
- (2) 250 yds. aggregate;
- (3) 27,000 bd. ft. lumber;
- (4) 27,650 lbs. steel bars;
- (5) 3108 sq. ft. steel mesh;
- (6) 1500 cu. yds. excavation.

Reservoirs Nos. 1A and 2, will have an inside diameter of 165 feet with a wall height of 13 feet 12 inches thick and a 4½-in. concrete floor also a 5-in. concrete slab roof. The materials required are:

- (1) 87,500 cu. yds. concrete;
- (2) 604 cu. yds. aggregate;
- (3) 65,000 lbs. steel bars;
- (4) 4400 sq. ft. wire mesh;
- (5) 3000 cu. yds. excavating.

Three wells, 600 and 800 feet deep lined with No. 8 casing.

Three pump houses complete, equipped with booster pumps, etc.

Steel pipe, involving:

- (1) 189,870 ft. 2-in.;
- (2) 33,690 ft. 3-in.;
- (3) 85,420 ft. 4-in.;
- (4) 11,220 ft. 6-in.;
- (5) 28,720 ft. 8-in.;
- (6) 1,300 ft. 10-in.;
- (7) 5,280 ft. 12-in.;

Steel pipe relaid:

- (8) 2,640 ft. 8-in.;
- (9) 4,000 ft. 10-in.;

Concrete pipe:

- (10) 2,000 ft. 14-in.;

The total estimated cost of construction, only is \$205,692.

SAN FRANCISCO.—San Francisco Board of Supervisors has set Nov. 7 as the date for the special election on a bond issue of \$2,000,000 to finance extensions to the existing high-pressure system throughout the city, and the construction of underground fire cisterns. The work to be done includes:

(1) Extensions to the existing high-pressure system throughout the Potrero, Mission, South of Market, Clay Street Hill, North Beach, Marina, Golden Gate Valley, Hayes Valley, Park-Presidio, Sunset, and other districts.

(2) Construction of twenty interconnecting underground fire cisterns along Van Ness Ave., Market, Dolores or other streets.

The Federal Public Works Administration has approved a grant to the city of San Francisco of \$460,000 for financing the above work contingent upon the approval of the bonds.

SAN FRANCISCO.—San Francisco Board of Supervisors has set Nov. 7

as the date for the special election on a bond issue of \$12,095,000 to finance additions to the municipal water supply and distribution system. The work to be done includes:

(1) An additional pipe line crossing San Francisco Bay from the Irvington Portal of the Hetch Hetchy aqueduct to the easterly portal of the Puglas tunnel and thence discharging into the Crystal Springs reservoir, including the necessary valves, auxiliary fittings, pipe lines and appurtenances.

(2) A new pipe line and necessary appurtenances connecting the Crystal Springs reservoir with the University Mound reservoir for the purpose of adding to the storage facilities of the University Mound reservoir.

(3) The construction of a new reservoir basin adjacent to the present University Mound reservoir providing an additional storage capacity of approximately 100,000,000 gallons of water, the said basin to be roofed, and for all necessary valves, appurtenances and pipes pertinent thereto.

(4) The construction of a new reservoir in the Sunset Heights District located between Twenty-second and Twenty-eighth Avenues and Ortega and Rivera Sts., with the necessary appurtenances, pipe lines to connect the same with the San Andres pipe line and with the distributing main from the Lake Honda reservoir, the said reservoir to be of similar construction to that of the University Mound reservoir above described.

(5) The construction of a pipe line and appurtenances connecting the San Andres pipe line and the University Mound reservoir providing the means of supplying water in an emergency to the University Mound District in the event of breakage of the Crystal Springs Line.

(6) The extension of a pipe line, and appurtenances, from 25th and Potrero Avenue through the South of Market Industrial Area and the Down Town Business District to Battery and Broadway necessary to meet the growing demands.

(7) The construction of a new main extending from College Hill reservoir along Guerrero or adjoining streets to Market St. and thence to the vicinity of Buchanan and O'Farrell Sts. to augment the capacity of the present main.

(8) The construction of a small reservoir adjacent to the central pump station which would serve the district between 40th Avenue and the Great Highway and extending from Balboa St. to Sloat Blvd., which reservoir would also regulate the capacity for the supply of water used at the central pumps.

(9) The replacing of 6- and 8-inch mains located throughout the city which are sufficient for domestic demands but insufficient for fire protection, and the installation of 12- and 16-inch mains with secondary feeder pipes connecting with the primary supply of water from the distributing reservoirs.

(10) The replacing of 2-inch wrought iron steel pipes with 6- and 8-inch cast iron pipe throughout the city where the present pipe is deemed insufficient for fire protection purposes, and the installation of gate valves throughout the distributing system, and appurtenances, to permit shutting down of the water supply at one point without interfering with the service in adjacent blocks.

The Federal Public Works Administration has approved a grant to the city of San Francisco of \$2,695,000 for financing the above work contingent upon approval of the bonds.

PITTSBURG, Contra Costa Co., Cal.—Pittsburgh City Council has set December 21 as date of a special elec-

tion at which voters will pass on alternate proposals for improvement of the municipal water system. The alternate proposals are:

(1) Contract with California Water Service Corp. for supply.

(2) Construct municipal reservoir to be filled by pumping from San Joaquin river.

Geo. T. Oliver, city manager; C. C. Kennedy, San Francisco, consulting engineer.

HONOLULU, T. H.—Federal Public Works Administration has allotted a grant of \$160,000 to the Board of Water Supply, Honolulu, to aid in the construction of reservoirs and pipe lines to extend the present water system. No loan was requested. The allotment represents 30% of the cost of labor and material on a project which will cost \$650,000.

FORT LEWIS, Wash.—West Coast Construction Co., Lloyd Building, Seattle, at \$5,257.00, awarded contract by Constructing Quartermaster, Fort Lewis, Wash., under Spec. No. 6105-1 for furnishing iron water mains.

FRESNO, Fresno Co., Cal.—The city of Fresno has applied to the Federal Administration of Public Works for a grant of \$26,000 for the improvement of the water system, including the laying of new mains and the replacing of old ones. Estimated cost, \$98,000.

WHITTIER, Cal.—The City of Whittier has applied to the Federal Administration of Public Works for a loan to finance water projects as follows:

Reservoir, 150,000 gal. capacity, reinforced concrete construction; also pump house and all pumps and motors and 1600 feet of cast iron booster pump line—loan \$15,379; grant, \$4,328.70, to be built at Rideout Heights.

Reservoir, 150,000 gal. capacity, pump house, pumps and motors also booster pipe line and a feed line, involving 2150 ft. 10-in. cast iron pipe and 1800 ft. 6-in. cast iron pipe—loan \$20,050; to be built at northeast Whittier.

Sink well No. 10 and equip well No. 9 and 10 with steel derricks, pump house, 80 hp. gas engine pump and other appurtenances; also install 30-in. concrete and steel water line to pumping plant—loan, \$65,850; to be built at Woodland Park.

Construct new gas driven pumping plant and pumping basin on Whittier Blvd. containing three, 300 hp. engines each connected to 2200-volt hp. electric generator, transmission lines for city street lights, 18,000 ft. of 27-in. steel and concrete pumping main, 150 ft. 30-in. concrete suction line, 26 transformers—loan \$96,100.

M. R. Bowen, Water Superintendent and City Engineer.

NEWARK, Alameda Co., Cal.—Harvey E. Conner, 1222 Whipple Avenue, Redwood City, at \$171 submitted low bid to Alameda County Water District Directors, Centerville, for laying about 5000 ft. new main pipe line (pipe to be furnished by district) from Thornton Ave. in Newark; (fittings to be furnished by contractor).

Complete bids follow:

- | | |
|-------------------------------------|--------|
| (A) H. E. Conner, Redwood City..... | \$1171 |
| (B) Martin Murphy, Berkeley..... | 1805 |
| (C) E. H. Frick, Newark..... | 1830 |
| (D) P. L. Burr, San Francisco..... | 1845 |
| (E) Oakland Sewer Const. Co..... | 1848 |
| (F) P. Tierney..... | 1875 |
| (G) Pacific Pipe Co., S. F..... | 1913 |
| (H) W. J. Tobin, Oakland..... | 2000 |

Bids held under advisement until next meeting of the Board of Directors, November 4. E. A. Richmond, Alvarado, general manager.

SAN RAFAEL, Marin Co., Calif.—George C. DeGolyer, 217 Federal Telegraph Building, Oakland, at \$21,000 awarded contract by Constructing Quartermaster, Hamilton Field, for constructing extensions to water distributing system at Hamilton Field.

SEATTLE, Wash.—Puget Sound Machinery Depot, 322 First St., Seattle, at \$22,538 (asphalt), \$25,291 (mortar), and \$23,613 (coal tar) submitted low bid to the Board of Public Works for the contract to install what is officially known as the Fifth Avenue southwest watermain. The bids were taken as follows:

- COATINGS**
(A) Asphalt.
(B) Mortar.
(C) Coal Tar.

Complete bids follow:

- (1) Puget Sound Machinery Depot.
- (2) Queen City Construction Co.
- (3) Thos. Scalzo.
- (4) Ivar Reese.
- (5) L. Coluccio.
- (6) Macri & Steffenson.

	(A)	(B)	(C)
(1).....	\$23,538	\$25,291	\$23,613
(2).....	27,767	.....	29,219
(3).....	28,237	32,727	30,990
(4).....	30,759	35,848	32,212
(5).....	20,795	35,452	32,235
(6).....	31,504	.....	32,493

34—PARKS AND PLAY-GROUNDS

OAHU, T. H.—As previously reported, until December 6, 11 A. M., bids will be received by Bureau of Yards & Docks, Navy Dept., Washington, D. C., for landscaping and irrigation system at the Naval Ammunition Depot, Oahu (Tuahuaiei and West Loch). Spec. No. 7334. Plans and specifications available from above office, from Commandant, 14th Naval District, Navy Yard, Pearl Harbor and from 12th Naval District, 100 Harrison St., San Francisco, upon deposit of \$10.00.

FORT MASON, Cal.—Seven identical bids were received by the office of the Port Quartermaster, Fort Mason, for erecting 800-ft. of wire fencing, including two gates on the west side of McDowell Ave., Fort Mason. The bids were: C. I. \$2.0225 per sq. ft. The bidders were:

Stewart Iron & Chain Co. (water and link fences) 55 New Montgomery St., San Francisco.

Crown Fence & Supply Co., Ltd., 144 Townsend St., San Francisco.

Kamlan Fence Co., 351 Bryant St., San Francisco.

Anchor Post Fence Co. of California 460 5th St., San Francisco.

Michel & Pfeffer Iron Works, Inc., Harrison and 10th Sts., San Francisco.

Standard Fence Co., 1940 San Bruno Ave., San Francisco.

Western Wire & Steel Co., S. F.
Bids held under advisement.

29—STREETS AND HIGHWAYS

WHITE PINE & ELKO COS., Nev.—Utah Const. Co., Ogden, Utah, at \$138,084.90 submitted low bid and was awarded contract by Nevada State Highway Directors, Carson City, to surface 21.69 miles in White Pine and Elko counties between 28.5 miles north of Magnusson's and 5 miles north of Currie, Route 13, Sections A and A1. George French, Jr., Stockton, Calif., submitted second low bid at \$148,358.-

SACRAMENTO COUNTY, Cal.—Bids will be received at the office of the District Engineer, Dept. of Public Works, Division of Highways, C. H. Whitmore, District Engineer, District III, Marysville Hotel, Marysville, for 0.7 mile of irrigation ditch to be excavated and lined with gunite, involving:

- (1) 6,600 cu. yds. ditch excav.
- (2) 18,500 sta. yds. overhaul;
- (3) 56,000 sq. ft. gunite lining in place
- (4) 60 M. gals. water in place;
- (5) 1,000 sq. ft. existing ditch lining removed and disposed of.

Specifications obtainable from above office and on file at the office of the PACIFIC CONTRACTOR.

CLARK COUNTY, Nev.—Gibbons & Reed Co., Salt Lake City, at \$130,086.22 submitted low bid and awarded contract by Nevada State Highway Directors, Carson City, to construct 14.87 miles of highway in Clark county between Las Vegas and Charleston Road, Route 5, Sections D4 and E. Second low bid submitted by Isbell Const. Co., Carson City, at \$137,786.-71.

WASHINGTON STATE.—The following work in Mt. Rainier National Park, State of Washington, will be advertised for bids to be received as soon as plans and specifications can be prepared. Weather conditions at that time may preclude the contractors interested in viewing the work. It is therefore recommended that interested contractors go over the project immediately to insure they will be informed and in a position to submit a bid.

White River Road, NR-3A, B1, B2, B3, Bituminous Surfacing:

The improvement located between the National Park Highway and Yakima Park contemplates a 2½-in. compacted penetration bituminous macadam, 15.515 miles in length including parking areas.

The contract for the resurfacing and stockpiling of oil rock is being let under separate head and requires that stockpiles to be placed near Station 46 plus 00, Station 275 plus 00 and Station 454 plus 00.

Contractors should contact Mr. C. G. Polk, now stationed on the project. W. H. Lynch, District Engineer, U. S. Bureau of Public Roads.

FORT MASON, Cal.—Pacific Pavement Co., 35 Barstow St., San Francisco, at \$360 submitted low bid to the office of the Port Quartermaster, Fort Mason, for repairing Schofield Road at Fort Mason. Other bids were: Theo. Cohn, Russ Bldg., S. F.....\$754
E. J. Treacy, Call Bldg., S. F..... 991

SAN RAFAEL, Marin Co., Calif.—Pacific States Const. Co., Call Bldg., San Francisco, at \$89,540 awarded contract by Constructing Quartermaster, Hamilton Field, for construction of post road system, including all grading, curbs, catchbasins, culverts, crusher run rock base and paving. Complete bids published October 17.

HUMBOLDT COUNTY, Nev.—Geo. French, Jr., P. O. Box 107, Stockton, Cal., at \$94,574.72 submitted low bid and awarded contract by the Nevada State Highway Directors, Carson City, to construct 15.04 miles of highway in Humboldt County between Crovada and 15 miles north, on Route 8, Section D1. Utah Const. Co., Ogden, Utah submitted second low bid at \$99,321.97.

SAN RAFAEL, Marin Co., Calif.—P. L. Burr, 320 Market St., San Francisco, at \$10,838 awarded contract by Constructing Quartermaster, Hamilton Field, for constructing extensions to gas distribution system at Hamilton Field. Complete bids published Oct. 17.

MINERAL & ESMERALDA COS., Nev.—George Pollock Co., P. O. Box 903, Sacramento, at \$193,792.12 submitted low bid and awarded contract by Nevada State Highway Directors, Carson City, to surface 22.28 miles in Mineral and Esmeralda counties, between Basalt and Coaldale, Route 15, Section A. Isbell Const. Co., Carson City, submitted second low bid at \$200,152.62.

SAN FRANCISCO—Department of Public Works, S. J. Hester, Chief Deputy Director, plans to improve Rivera Street, between 34th and 35th Aves. Estimated cost, \$5265. (expediency). The principal items of work are:

- (1) 5000 cu. yds. excavation;
- (2) 220 lin. ft. 8-in. V.C.P. sewer in place;
- (3) 14 8x6-in. "Y" branches in place;
- (4) 1 brick manhole complete;
- (5) 480 lin. ft. unarmored concrete curb in place;
- (6) 14 ¾-in. galv. wrought iron pipe with services;
- (7) 12,000 sq. ft. asph. conc. pave. consisting of 6-in. C- "F" conc. base and 2-in. asphaltic concrete wearing surface.

Specifications obtainable from above office upon a deposit of \$10.

SAN FRANCISCO—Until November 8, 2:30 P. M., bids will be received by the Department of Public Works, S. J. Hester, Deputy Director, to resurf. Third Street, between Mariposa and Alameda streets, involving:

- (1) 571 lin. ft. unarmored concrete curb;
- (2) 900 lin. ft. granite curb redressed and reset;
- (3) 4000 sq. ft. basalt blocks reset;
- (4) 400 tons asph. conc. wearing surface 1½-in. thick in place;
- (5) 3600 sq. ft. asph. conc. pavement
- (6) 1725 sq. ft. asph. conc. pavement consisting of a 3½-in. asph. conc. surface base and 1½-in. asph. wearing surf.;
- (7) 600 sq. ft. 4-in. macadam sidewalk with 1-in. asphaltic conc. wearing surface;
- (8) 1 9-unit reflector sign with two ¼x1½-in. straps as attached to trolley pole;
- (9) 1 9-unit reflector on a standard 2-in. pipe post complete;
- (10) 110 lin. ft. 2x12-in. redwood curb in place.

Estimated cost \$5540. Specifications obtainable from above office upon deposit of \$10.

BUTTE COUNTY, Cal.—Albert W. Simmonds, 3427 J St., Sacramento, at \$2412.96 submitted low bid to State Division of Highways, District III, Marysville, District Engineer C. H. Whitmore, for applying 352 miles of traffic stripe to existing pavement at various points in Butte, Colusa, El Dorado, Glenn, Nevada, Placer, Sacramento, Sutter, Yolo and Yuba counties. Complete bids follow:
Albert W. Simmonds, Sacto.....\$2412.96
R. P. Paoli, San Francisco..... 2774.20
Edwin Anderson, S. F..... 2849.00
B. G. Carroll, San Diego..... 3004.10
Frank Donnelly, Honcut..... 3186.70
Stresser Bros., Honcut..... 3906.98

SAN FRANCISCO—Eaton & Smith, 715 Ocean Ave., San Francisco, at \$4779.70 awarded contract by the Department of Public Works, S. J. Hester, Deputy Director, for improvement of Parker Ave., between Turk and McAllister Streets.

HAMILTON FIELD, Cal.—Louis Lambretti, 257 E. Blithedale Ave., Mill Valley, at \$2863.50 submitted low bid to the Constructing Quartermaster, Hamilton Field, San Rafael, for construction of sidewalks and driveways at Hamilton Field, involving:

- (1) Sidewalk 4 ft. wide, sq. yd.;
- (2) Service walk 2 ft. wide, sq. yd.;
- (3) Port. cem. conc. paving, sq. yd.;
- (4) Crusher run base, cu. yd.;
- (5) Riser and tread (stops) lin. ft.;
- (6) Common excav., cu. yd.

Complete bids follow:

- (A) Louis Lambretti, Mill Valley, \$2863.50.
 (B) F. J. Main, Fairfax, \$2960.50.
 (C) de Luca & Son, San Francisco, \$2993.
 (D) Albany Cement Contractors, Inc., Albany, \$3061.10.
 (E) Pacific States Constr. Co., San Francisco, \$3096.
 (F) Y. C. Soda & Son, Oakland, \$3,444.10.

Unit bids follow:

	(A)	B	(C)	(D)	(E)	(F)
(1)...	\$1.17	\$1.26	\$1.43	\$1.26	\$1.26	\$1.50
(2)....	1.26	1.26	1.43	1.26	1.26	1.50
(3)....	1.71	1.93	1.49	1.90	2.25	2.16
(4)....	2.25	2.65	2.38	3.00	2.50	3.25
(5)....	1.40	.90	.65	1.00	1.00	.80
(6)....	.65	.65	1.06	.80	.30	1.00

snags;
 (7) 20 acres roadside cleanup;
 (8) 14,000 lin. ft. flat and round cut slopes;
 (9) 140 cu. yds. Class A concrete;
 (10) 10,000 cu. yd. mi. cushion haul;
 (11) 14,000 lbs., reinf. steel;
 (12) 370 lin. ft. culverts (Alt.);
 (13) 190 lin. ft. 30-in. reinf. concrete pipe;
 (14) 12,000 cu. yds. subgrade reinf.

Plans and specifications obtainable from above office upon a deposit of \$10.00.

SAN FRANCISCO—Fay Improvement Co., Phelan Bldg., San Francisco, at \$948.74 (\$.089 per sq. ft.) submitted only bid to Department of Public Works, S. J. Hester, Deputy Director, San Francisco, for surfacing brick pavement on Webster St., between Broadway and Vallejo, with asphalt wearing surface (10,663 sq. ft.)

LINN COUNTY, Oregon—Until November 2, 10 A. M., bids will be received by W. H. Lynch, District Engineer, U. S. Bureau of Public Works, 316 New Post Office Bldg., Portland, Oregon, for constructing or improving the Santiam Highway (5.308 mi. grading and 2.519 mi. clearing) Project NR-23-H National Forest Road Project, located within the Willamette National Forest, County of Linn, Ore. The total length of the project 7.827 mi., and the principal items of work are as follows:

- (1) 53 acres clearing;
- (2) 29 acres grubbing;
- (3) 216,220 cu. yds. unclass. excav.;
- (4) 400,000 sta. yds. overhaul;
- (5) 5.308 mi. finish earth gr. rd.;
- (6) 125 each dangerous trees and

SAN FRANCISCO—Until November 1, 1:45 P. M., bids will be received by the Department of Public Works, S. J. Hester, Deputy Director, San Francisco, for the construction of approximately 1780 sq. ft. of one course concrete sidewalk on Elk Street, Bosworth and Chenery Streets. Estimate cost \$250.

Specifications obtainable from above office.

CALAVERAS COUNTY, Cal.—Fredrickson & Watson Construction Co., 873 Eighty-first ave., Oakland, at \$62,634, awarded contract by State Highway Commission, Sacramento, to grade and surface about 4.2 mi. with crushed gravel and stone, 3.4 mi. north of Angus Camp.

JEFFERSON COUNTY, Wash.—Until Nov. 7, 10 A. M., bids will be received by L. V. Murrow, Director of Highways, Olympia, Wash., for constructing about 0.4 mile of bituminous macadam on Water and Taylor Streets, State Road No. 9, in the city of Port Townsend, National Recovery Municipal Highway Proj. No. 146-C in Jefferson County. Plans and specifications obtainable from above office on a deposit of \$2.00.

SPOKANE and Stevens Cos., Wash.—Joslin & McAllister, Spokane, Wash. at \$69,677 awarded contract by L. V. Murrow, State Director of Highways, Olympia, for grading and surfacing about 4.7 miles of State Road No. 3, Deer Park to Clayton, National Recovery Highway Proj. No. NRH 94-D and RH 16 in Spokane and Stevens Counties.

WESTERN STATES—Allotments of public works funds for reclamation and irrigation work include ten dams as follows:

Basin Project, Wash.....	\$63,000,000
Casper-Alcova Dam, Wyo.....	22,700,000
Bonneville Dam nr. Portland	20,000,000
Owyhee Dam, Oregon.....	5,000,000
Snake River Dams, Idaho.....	4,000,000
Cogden River Dam, Utah.....	3,000,000
Chain Lakes Dam, Mont.....	2,000,000
Humboldt Proj. Dam, Nev.....	2,000,000
Newlands Dam, Nev.....	1,500,000

FRESNO, CAL.—The City of Fresno has been granted \$13,500 by the Federal Administration of Public Works toward the cost of improving streets in the city which connect with state highway route 99. The city asked for \$15,840. The work involves:

Widening of Divisadero street from "H" street to Broadway from 60 to 90 feet.

Widening of Broadway from Divisadero street to Tulare street from 80 to 90 feet.

Opening of Cherry avenue northerly into Van Ness avenue, 80 feet wide.

Opening of Hazel avenue northerly from Cherry avenue to California avenue to width of 80 feet.

Widening of Divisadero street from Broadway to Van Ness avenue from 60 feet to 80 feet.

The funds granted are a portion of the \$400,000 estimated cost of the Broadway widening project. The balance of the cost is to be met by State Highway appropriation of \$250,000, appropriation of \$72,000 from the city's gas tax refund, and \$56,000 advanced by the city itself. Jean L. Vincenz, Commissioner of Public Works.

ALASKA—Until November 16, 9 A. M., bids will be received by the Bureau of Public Roads, 419 Federal and Territorial Bldg., Juneau, Alaska, for 5,606 miles of clearing and grubbing on the Mitkof Highway, Mountain Point-Falls Creek Section, in the Tongass National Forest, First Judicial Division, Territory of Alaska, involving:

- (1) 37.5 acres clearing;
- (2) 24.0 acres grubbing.

Plans and specifications obtainable from above office upon a deposit of \$10. M. D. Williams, District Engineer.

COWLITZ & SKAMANIA COUNTIES, Wash.—La Dee Logging Co., Alsky Bldg., Portland, Ore., at \$72,430 awarded contract by U. S. Bureau of Public Roads, W. H. Lynch, District Engineer, Portland, for highway construction of 4.294 miles of

St. Helens Highway grading project, NR-15-A2, in Columbia National Forest, Cowlitz and Skamania counties.

The award was made on basis of metal pipe alternate.

HUMBOLDT COUNTY, Cal.—Mercer-Fraser Co., 2nd and Commercial Sts., Eureka, at \$101,939 awarded contract by State Highway Commission, Sacramento, to grade and surface with screened gravel 1.9 mi. between Jordan Creek and South Scotia Bridge.

SAN BERNARDINO COUNTY, Cal.—Until November 15, 2 P. M., bids will be received by the State Highway Commission, Sacramento, to grade and surface with oil treated crushed gravel or stone plant mix about 0.8 mi. bet. Arrowhead Springs and San Bernardino, in San Bernardino County, involving the following:

- (1) 40,000 cu. yds. excav. unclass.;
- (2) 358,000 sta. yds. overhaul;
- (3) 1360 cu. yds. struc. excav.;
- (4) 3860 tons cru. grav. or stone surf.
- (5) 963 bbls. fuel oil surfacing;
- (6) 13 tons asph. rd. oil seal coat;
- (7) 140 tons screenings seal coat;
- (8) 6 cu. yds. Class A Port. cement conc. struc.;
- (9) 200 lbs. bar rein. steel struc.;
- (10) 206 lin. ft. 24-in. C.M.P.;
- (11) 368 lin. ft. 36-in. C.M.P.;
- (12) 184 lin. ft. 48-in. C.M.P.;
- (13) 80 each timber guide posts;
- (14) 2000 M gals water embankment;
- (15) 2670 lin. ft. laminated timber guardrail;
- (16) 22 cu. yds. conc. removed from exist. struc. and disposed of;
- (17) 45 sta. yds. finishing rdwy.;
- (18) 27 each monuments complete in place.

Plans and specifications obtainable from above office, and on file at the office of the District Engineer in Los Angeles, and in San Francisco, and on file in the district in which the work is situated.

TRINITY COUNTY, Cal.—Until November 15, 2 P. M., bids will be received by the State Highway Commission, Sacramento, to grade and treat with fuel oil 2.3 miles in length, between 1.8 miles west of Burnt Ranch and McDonald Creek, in Trinity County, involving:

- (1) 18 acres clear and grub right of way;
- (2) 174,100 cu. yds. rdwy. excav. unclassified;
- (3) 580,000 sta. yds. overhaul;
- (4) 4,345 cu. yds. struc. excav.;
- (5) 1,730 cu. yds. backfill;
- (6) 6,900 cu. yds. selected material;
- (7) 27 cu. yds. Class A Port. cement concrete struc.;
- (8) 1,970 lbs. bar reinf. steel struc.;
- (9) 1,150 lin. ft. 18-in. CMP;
- (10) 270 lin. ft. 24-in. CMP;
- (11) 80 lin. ft. 30-in. CMP;
- (12) 220 lin. ft. 72-in. CMP;
- (13) 40 lin. ft. CMP clean and relay;
- (14) 310 lin. ft. 8-in. perf. metal pipe;
- (15) 68 M. ft. bm. sel. all-heart struc. redwood timber cribs;
- (16) 50 each timber guide posts and culvert markers, comp. in place;
- (17) 140 each timber guide posts, move and reset;
- (18) 730 lin. ft. lam. timber guard rail, move and reset;
- (19) 220 M. gals. water;
- (20) 310 bbls. heavy fuel oil;
- (21) 940 cu. yds. rubble masonry walls;
- (22) 124 sta. finishing rdwy.;
- (23) 120 each monuments complete in place.

Plans and specifications are obtainable at above office, and are on file at the offices of the district engineers at Los Angeles and San Francisco, and at the office of the district engineer of the district in which the work is situated.

SAN LUIS OBISPO COUNTY, Cal.—M. J. Bevanda, Plks Bldg., Stockton, at \$72,591 awarded contract by State Highway Commission, Sacramento, to grade and pave 1.9 mi. with Portland cement concrete at various locations between Pismo and San Luis Obispo.

SAN BERNARDINO COUNTY, Cal.—C. O. Sparks, 2309 E-Ninth St., Los Angeles, at \$91,716 awarded contract by State Highway Commission, Sacramento, to grade and pave 3.5 mi. bet. Sierra Ave. and Riverside Ave., San Bernardino, with Portland cement concrete.

SAN BERNARDINO COUNTY, Cal.—State Department of Public Works, Divisions of Highways, has cancelled the advertisement for bids to grade and surface with oil treated crushed gravel and stone (plant mix) between Arrowhead Springs and San Bernardino (VIII-SB-43-A) about 0.8 mi. in length. Bids were to have been opened November 8.

CORONADO, Cal.—E. G. Carroll, 4396 Maryland Ave., San Diego, at \$39,690 awarded contract by the Bureau of Yards and Docks, Rockwell Field, for constructing roads and walks at Rockwell Field.

SAN DIEGO, Cal.—Miracle Co., 4751 Monroe Ave., San Diego, at \$31,192 awarded contract by the Bureau of Yards and Docks, Washington, D. C., for improvement of the landing field at the Naval Operating Base (Air Station), San Diego. Bids were opened October 4.

KLICKITAT COUNTY, Wash.—Until November 7, 10 A. M., bids will be received by L. V. Murrow, Director of Highways, Olympia, Wash., for grading about 1.6 miles of State Road No. 8, Maryhill to Stonehenge, National Recovery Secondary Highway Project No. NRS-203-A in Klickitat County, involving:

- (1) 131,060 cu. yds. excavation;
- (2) 128 cu. yds. concrete;
- (3) 20,500 lbs. of steel reinf. bars;
- (4) 679 lin. ft. pipe culverts;
- (5) miscellaneous items.

Plans and specifications obtainable from above office upon a deposit of \$2.

LOS ANGELES, Cal.—The City of Los Angeles has applied to the Federal Administration of Public Works for a loan of \$15,850,759.10 and a grant of \$3,082,413.90 to improve California secondary state highways within the city.

MONTEREY COUNTY, Cal.—Until November 15, 2 P. M., bids will be received by the State Highway Commission, Sacramento, to grade and surface, oil treatment, by the road mix method, about 1.9 miles between Carmel river and Carmel, in Monterey county, involving:

- (1) 9 sta. yds. clear and grub right of way;
- (2) 84,300 cu. yds. rdwy. excav., unclassified;
- (3) 696,000 sta. yds. overhaul;
- (4) 1,400 cu. yds. struc. excav.;
- (5) 2,075 bbls. reavy fuel oil;
- (6) 34 tons asph. road oil;
- (7) 437 tons screenings;
- (8) 110 sta. yds. mixing bituminous treated surfacing;
- (9) 35 cu. yds. Class A Port. cement concrete struc.;
- (10) 1,800 lbs. bar reinf. steel struc.;
- (11) 244 lin. ft. 8-in. CMP;
- (12) 32 lin. ft. 12-in. CMP;
- (13) 858 lin. ft. 18-in. CMP;
- (14) 554 lin. ft. 24-in. CMP;
- (15) 72 lin. ft. 36-in. CMP;
- (16) 19 each spillway assemblies;
- (17) 2 each drop inlet frames and covers;
- (18) 1 each 24-in. flood gates;

- (19) 2 each 36-in. do;
- (20) 1,860 sq. yds. paved gutters and spillway inlet aprons;
- (21) 1,360 M. gals water;
- (22) removing existing timber bridge;
- (23) 1,480 lin. ft. lam. timber guard rail;
- (24) 110 each timber guide posts;
- (25) 32 each timber culvert markers;
- (26) 2.1 miles new property fence;
- (27) 10 each fence gates;
- (28) 110 sta. yds. finishing rdwy.;
- (29) 29 monuments complete in place.

Plans and specifications are obtainable at above office, and are on file at the offices of the district engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

LOS ANGELES, Cal.—Griffith Co., 502 Los Angeles Railway Bldg., at \$48,609.04 submitted low bid to the Los Angeles County Supervisors Oct. 23 for the improvement of Washington Blvd. from Atlantic Blvd. to Anaheim-Telegraph Road, about 1.47 mile.

SACRAMENTO, Calif.—A blue line print of the title sheet of the plans showing the general location of work will be furnished free with the special provisions. Blue line prints of the layout and bridge detail sheets will be furnished at cost and become the property of the purchaser.

The following table shows the cost of such blue line prints for the work new advertised, bids to be opened November 8, 1933:

V-Mon-2-F-E, between King City and two miles south of Greenfield:

Plans		Cross-Sections		
No. Sheets	Cost	No. Sheets	Cost	Total
25	\$2.50	141	\$14.10	\$16.60

V-S. B-2-J, between Olive Mill Road and Santa Barbara:

Plans		Cross-Sections		
No. Sheets	Cost	No. Sheets	Cost	Total
6	0.60	15	1.50	2.10

X1-S-D-2-B, 2 bridges between Ocean-side and Carlsbad:

Plans		Cross-Sections		
No. Sheets	Cost	No. Sheets	Cost	Total
6	0.60	none		0.60

Checks for the above should be made payable to the Department of Public Works, Division of Highways, and should accompany the order to this office.

YAKIMA CO., Wash.—L. Romano Engr. Corp., 1300 Dearborn St., Seattle, at \$61,268 awarded contract by U. S. Bureau of Public Roads, W. H. Lynch, District Engineer, Portland, Ore., for constructing 4.734 miles of the Randle-Yakima Highway (east side) grading, Proj. No. NR-13-N, in Columbia National Forest, Yakima Co. Washington.

The award was made on basis of metal pipe alternate.

PIERCE CO., Wash.—Elich and Co., Seattle, at \$39,303 submitted low bid to U. S. Bureau of Public Roads, W. H. Lynch, District Engineer, 316 New P. O. Bldg., Portland, Ore., for 1,740 miles of Mt. Rainier National Park, National Park Highway Project NR-9-A. County of Pierce, Wash.

- (A) Elich & Co., Seattle, \$39,303.
- (B) J. D. Harms, Inc., Seattle, \$44,103.00.
- (C) Elliott & Co, Seattle, \$47,503.

KERN COUNTY, Calif.—Until Nov. 15, 2 P. M., bids will be received by the State Highway Commission, Sacramento, to grade 8.7 miles between westerly boundary and 2.4 miles south of Maricopa and Kern county, involving:

- (1) 449,000 cu. yds. rdwy. excav., unclassified;

- (2) 2,525,000 sta. yds. overhaul;
- (3) 5,900 cu. yds. struc. excav.;
- (4) 230 cu. yds. Class A Port. cem. conc. struc.;
- (5) 18,400 lbs. bar reinf. steel struc.;
- (6) 122 lin. ft. 8-in. CMP;
- (7) 139 lin. ft. 12-in. CMP;
- (8) 1,250 lin. ft. 18-in. CMP;
- (9) 1,800 lin. ft. 24-in. CMP;
- (10) 198 lin. ft. 30-in. CMP;
- (11) 238 lin. ft. 36-in. CMP;
- (12) 134 lin. ft. 48-in., 8 gauge CMP;
- (13) 128 lin. ft. 54-in. CMP;
- (14) 52 lin. ft. 72-in., 8-gauge CMP;
- (15) 102 lin. ft. 84-in., 8 gauge CMP;
- (16) 236 lin. ft. 105-in. multi-plate MP;
- (17) 6 each spillway assemblies;
- (18) 2,100 M. gals water;
- (19) 2,300 bbls. fuel oil;
- (20) 0.64 mile existing property fence to be moved and disposed of;
- (21) 4.08 miles existing property fence to be removed and reset;
- (22) 12.73 miles new property fence;
- (23) 10 each fence gates;
- (24) 530 each timber guide posts;
- (25) 120 each timber culvert markers;
- (26) 460 sta. finish rdwy.;
- (27) 198 each monuments complete in place.

Plans and specifications are obtainable at above office, and are on file at the office of the district engineers at Los Angeles and San Francisco, and at the office of the district engineer of the district in which the work is situated.

SOUTH SAN FRANCISCO, Cal.—Fay Improvement Co., Phelan Bldg., San Francisco, at \$2883 awarded contract by the Public Works Officer, Mare Island Navy Yard, to construct approximately 1405 lin. ft. of road, together with approximately 2650 lin. ft. of barbed wire fence along the right-of-way.

FRESNO COUNTY, ETC., Cal.—Earl Bowen, Strathmore, at \$1344.50 submitted low bid to the District Engineer, Fresno, for traffic stripping to existing pavement in Fresno, Kern, Kings, Madera and Tulare Counties at various locations. Complete bids follow:

Earl Bowen, Strathmore.....	\$1344.50
Edwin Anderson, S. F.....	1467.00
E. G. Carroll, San Diego.....	1475.00
Frank Donnelly, Honcut.....	1709.00

ALAMEDA AND CONTRA COSTA COUNTIES, Cal.—Until November 15, 2 P. M., bids will be received by the State Highway Commission, Sacramento, to pave 5.0 miles with asphalt concrete, between Ashby Avenue and Potrero Ave., in Berkeley, Albany and El Cerrito, in Alameda and Contra Costa Counties, involving:

- (1) 9000 cu. yds. rdwy. excav. unclass.
 - (2) 20,200 tons asph. conc. base and type A surface;
 - (3) 1200 tons asph. conc. type B surf.;
 - (4) 12,100 tons crusher run base;
 - (5) 20,000 cu. yds. heating asph. surf.;
 - (6) 4100 sq. yds. asphaltic paint binder
- Plans and specifications are obtainable at above office, and are on file at the offices of the District Engineers at Los Angeles and San Francisco, and at the office of the District Engineer of the district in which the work is situated.

SAN FRANCISCO—Until November 9, 2 P. M., bids will be received by State Board of Harbor Commissioners, Ferry Bldg., for paving roadway at Islais Creek, involving:

- (1) 280 tons Topeka wearing surface, furnished and laid;
- (2) 800 tons bituminous base, furnished and laid;
- (3) 800 tons macadam base shoulders, furnished and laid;
- (4) 2800 lin. ft. header.

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

SAN RAFAEL — GUARD HOUSE & FIRE STN. — GOVT

SAN RAFAEL, Marin Co., Cal.—Frank J. Reilly, 6350 Fulton St., San Francisco, at \$38,231 submitted low bid to Constructing Quartermaster, Hamilton Field, to construct one and two-story concrete and tile guard house and fire station, including firemen's dormitory, guards' dormitory, fire truck room, ambulance room and cell room. Following bids received: (A) Frank J. Reilly, San Francisco, \$38,231. (B) William Spivock, San Francisco, \$39,700. (C) Carl N. Swenson, San Jose, \$39,982. (D) Robert E. McKee, Los Angeles, \$45,200.

Alternate proposals follow:
(1) Work complete;
(2) Composite piles (wood and concrete) per lin. ft.;

- (3) Composite piles (wood and concrete) per lin. ft.;
- (4) Wood test piles (60 ft. long), each
- (5) Excavation, per cu. yd.;
- (6) Crusher run base, per cu yd.;
- (7) Concrete (type "A", including forms) per cu. yd.;
- (8) Concrete (type "B", incld. forms) per cu. yds.;
- (9) Reinforcing steel, per ton;
- (10) Brick in walls, 4-in. thick, per sq. ft.;
- (11) Brick in walls, 8-in. thick, per sq. ft.;
- (12) 4-in. partition tile, in place, per sq. ft.;
- (13) 8-in. partition tile, in place, per sq. ft.;
- (14) Linoleum floors (installed) per sq. yd.;
- (15) Roofing tile (in place) per 100 sq. ft.

	(A)	(B)	(C)	(D)
(1).....	\$38,231.00	\$39,700.00	\$39,982.00	\$45,200.00
(2).....	.14	.15	.90	.50
(3).....	1.10	1.60	2.25	1.00
(4).....	75.00	80.00	71.00	50.00
(5).....	.35	1.00	1.00	.45
(6).....	2.90	3.00	3.00	2.00
(7).....	14.00	16.00	16.50	12.50
(8).....	16.00	16.50	17.50	13.00
(9).....	80.00	80.00	85.00	86.00
(10).....	.22	.24	.24	.21
(11).....	.40	.45	.48	.42
(12).....	.20	.20	.20	.16
(13).....	.40	.32	.40	.32
(14).....	1.50	2.00	1.50	1.35
(15).....	22.00	22.00	23.00	23.30

IMPERIAL COUNTY — TIMBER BRIDGES — STATE

IMPERIAL COUNTY, Cal.—Lynch-Cannon Engineering Co., 5658 Wilshire Blvd., Los Angeles, at \$76,367, submitte low bid to State Highway Commission, Sacramento, to construct timber bridge and to grade and pave approaches with asphalt concrete in Imperial County, between Kane Spring and Gravel Wash, involving:

- (1) 6500 cu. yds. rdwy. excav. pnclass;
- (2) 9300 cu. yds. ditch and channel excav.;
- (3) 4400 cu. yds. struc. excav.;
- (4) 50 M. gals. water;
- (5) 2300 sq. yds. subgrade for pavement;
- (6) 4000 sq. yds. asph. paint binder;
- (7) 2030 tons asph. concrete;
- (8) 2200 tons cru. gravel-stone surf. detours;
- (9) 650 bbls. fuel oil detours;
- (10) 210 cu. yds. remove and dispose of concrete from exist. pave and structures;
- (11) 80 lin. ft. 24-in. C.M.P.;

- (12) 60 lin. ft. 36-in. C.M.P.;
- (13) 16,220 lin. ft. furnish treated piles
- (14) 368 each drlving piles;
- (15) 272 MFPM redwood timber dense select all-heart struc. grade;
- (16) 149 MFPM redwood timber dense do;
- (17) 27,700 lbs. struc. metal;
- (18) 2 each move and reset exist. bridges;
- (19) 1 only remove and dispose of exist. bridge;
- (20) 34 sta. yds. finishing rdwy.;
- (21) 20 each monuments complete in place.

Complete bids follow:
(A) Lynch-Cannon Eng. Co., Los Angeles, \$76,367.
(B) Walter Trepte, San Diego, \$76,709.
(C) Dimmitt & Taylor, Los Angeles, \$79,984.50.
(D) Oswald Bros., Los Angeles, \$86,914.
(E) R. R. Bishop, Long Beach, \$92,289.80.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)
(1).....	\$.35	\$.33	\$.30	\$.40	\$.30
(2).....	.35	.20	.15	.175	.30
(3).....	.85	.48	.70	.60	1.00
(4).....	3.00	7.00	7.00	5.40	8.00
(5).....	.10	.10	.10	.14	.12
(6).....	.05	.02	.05	.03	.20
(7).....	4.00	4.00	4.50	5.10	6.00
(8).....	3.00	2.10	2.50	2.45	3.00
(9).....	2.00	2.00	2.75	2.00	1.20
(10).....	2.50	3.00	3.00	5.00	3.00
(11).....	1.00	.45	.50	.85	1.00
(12).....	1.50	.65	.70	1.15	1.50
(13).....	.55	.60	.65	.65	.59
(14).....	15.00	10.00	13.00	19.00	25.00
(15).....	75.00	88.00	83.50	90.00	77.00
(16).....	70.00	84.00	76.00	85.00	70.00
(17).....	.05	.08	.06	.065	.14
(18).....	1225.00	1300.00	1700.00	2000.00	2760.00
(19).....	500.00	765.00	1000.00	450.00	2500.00
(20).....	4.00	3.00	5.00	3.50	10.00
(21).....	3.00	2.00	2.50	2.75	2.00

LOS ANGELES COUNTY, Cal.—Oswald Bros., 366 E 58th St., Los Angeles, at \$47,658 submitted low bid to State Highway Commission, Sacramento, to pave with asphalt concrete about 1.4 miles in Montebello, Los Angeles county, between Garfield Blvd. and First St., involving:

- (1) 1150 cu. yds. remove and dispose of concrete and macadam from existing pavement, curbs, gutters and sidewalks;
- (2) 25,500 sq. yds. subgrade for pave.;
- (3) 1400 tons selected material;
- (4) 14,000 sq. yds. asph. paint binder;
- (5) 12,300 tons asph. concrete;
- (6) 1100 cu. yds. Class A Port. cem. conc. curbs and gutters;
- (7) 2 cu. yds. Class A Port. cem. conc. sidewalks;
- (8) 10 each manholes raised to grade.

Complete bids follow:
(A) Oswald Bros., Los Angeles, \$47,658.00.

(B) Griffith Co., Los Angeles, \$49,639.
(C) Los Angeles Paving Co., Inc., Los Angeles, \$50,414.00.

(D) P. J. Akmadzich, Los Angeles, \$54,007.50.

(E) C. O. Sparks, Los Angeles, \$54,422.00.

Unit prices follow:

	(A)	(B)	(C)	(D)	(E)
(1).....	\$ 1.45	\$ 1.00	\$ 1.50	\$ 1.80	\$ 1.50
(2).....	.175	.13	.07	.184	.30
(3).....	.85	1.00	1.00	.80	.90
(4).....	.02	.02	.035	.03	.02
(5).....	2.40	2.68	2.80	2.86	2.74
(6).....	9.50	9.50	9.50	9.50	8.80
(7).....	14.00	15.00	12.00	10.00	15.00
(8).....	6.00	5.00	10.00	5.75	10.00

LOS ANGELES, Calif.—Associated Constructors, Inc., 1226 E La Brea Ave., Los Angeles, at \$77,521.95 (for unit No. 1), and McClintic-Marshall Co., 11,000 S Central Ave., Los Angeles, at \$33,718 (unit Nno. 2—steel) submitted low bids to the Los Angeles Board of Public Works for constructing the Soto Street bridge across the Pacific Electric Railway and Ramona Blvd., improving the intersections of Soto Street and Marengo St. and Soto Street and Charlotte Street, including approaches to the bridge; also the relocation of a sewer across the Los Angeles river between Soto St. and Vernon - Downey road. The proposed bridge will have a steel superstructure with concrete deck slab and concrete piers, 430 ft. in length, 44 ft. wide. R. W. Stewart, chief engineer of bridge and viaducts.

Complete bids follow:
(A) Associated Constructors, Inc., Los Angeles, \$77,521.95.

(B) David Reed & Joseph Maiser, Los Angeles, \$80,845.36.

(C) R. E. Campbell, Los Angeles, \$84,855.75.

(D) Engstrum Const. Co., Los Angeles, \$87,368.53.

(E) Creighton, Inc., Los Angeles, \$87,916.86.

(F) Dimmitt & Taylor, Los Angeles, \$88,485.86.

(G) P. J. Akmadzich, Los Angeles, \$88,889.79.

(H) Lynch-Cannon Engr. Co., Los Angeles, \$92,559.35; (steel at \$41,000).

(I) Byerts & Dunn, Los Angeles, \$94,526.85.

(J) Case Const. Co., Los Angeles, \$97,637.28.

(K) Weymouth-Crowell Co., (bid irregular).

(L) McClintic - Marshall Corp., steel only, \$33,718.

(M) Consolidated Steel Corp., steel only, \$39,500.

(N) Minneapolis - Moline Power Imp. Co., steel only, \$42,740.

(O) Engineer's estimate, \$82,280.86.

ARIZONA STATE.—Phoenix-Tempe Stone Co., Box 1645, Phoenix, at \$41,668.65 awarded contract (as previously reported) by Arizona State Highway Commission, Phoenix, for highway construction on the Benson-Vail Highway, N.R.H. 18-G. The work is located 12½ miles west of Benson and consists of a railroad over-pass and to be completed Feb. 28, 1934.

- Complete bids follow:
- (A) Phoenix-Tempe Stone Co., Phoenix, Cable Road Guard, \$41,668.65; Steel Plate, Alternate, \$41,817.65.
 - (B) Heafey-Moore Co., Phoenix, \$42,569.24; \$42,569.00.
 - (C) Skonsen Bros. & Haynes & Burns, Albuquerque N. M., \$43,308.72; \$43,904.00.
 - (D) Heuser & Garnett, Glendale, Cal., \$46,537.96; \$47,431.50.
 - (E) Orr & Rawls, El Paso and L. C. Lashmet, Phoenix, \$48,257.30; \$49,151.30.

- Quantities follow:
- (1) 4,860 cu. yds. rdwy. excav. (unclass., CIP in fill);
 - (2) 108 cu. yds. borrow excav. do;
 - (3) 400 lin. ft. "V" ditches;
 - (4) 8 each right-of-way markers;
- Structures Over 20-foot Clear Span**
- (5) 17 cu. yds. rdwy. excav., unclass. CIP;
 - (6) 100 cu. yds. drainage excav., do;
 - (7) 190 cu. yds. struc. excav., unclass.
 - (8) 50,639 cu. yds. borrow excav. do, CIP in fill;
 - (9) 8 cu. yds. Class AA concrete, including cement;
 - (10) 501 cu. yds. Class A do;
 - (11) 67,710 lbs. reinf. steel (bars) CIP;
 - (12) 84,515 lbs. struc. steel (CIP);
 - (13) 4 each blast plates (CIP);
 - (14) 120 lin. ft. 8-in. CMP bridge drains (CIP inc. bands);
 - (15) 2,980 lin. ft. cable road guard, type A (CIP);
 - (16) 950 lin. ft. reconstruct fence CIP;
 - (17) 4 each right of way markers CIP;
 - (18) 18 each corr. metal catchbasins (CIP);

Total bid (using type A rd. guard) ALT.: (Type C road guard) in lieu of Item 15)

- (15-A) 2,980 lin. ft. steel plate road guard (type C) CIP.

Unit prices follow:

	(A)	(B)	(C)	(D)	(E)
(1)	\$.30	\$.35	\$.35	\$.33	\$.40
(2)	.30	.30	.35	.33	.35
(3)	.10	.06	.10	.27	.03
(4)	3.00	3.00	5.00	2.70	3.00
(5)	.30	.35	.35	.50	.35
(6)	.30	.35	.50	.50	.35
(7)	1.00	1.00	1.00	1.50	1.10
(8)	.30	.30	.35	.33	.40
(9)	80.00	80.00	70.00	70.00	90.00
(10)	23.50	24.50	24.00	26.00	26.00
(11)	.055	.05	.05	.055	.0525
(12)	.06	.0625	.055	.08	.0625
(13)	20.00	25.00	25.00	20.00	25.00
(14)	1.50	1.60	1.25	1.50	1.25
(15)	.80	.90	.80	1.00	.80
(16)	.10	.10	.05	.07	.08
(17)	3.00	3.00	5.00	2.75	3.00
(18)	40.00	38.00	10.00	17.00	22.50
(15-A)	.85	.90	1.00	1.30	1.10

SHASTA COUNTY, Cal.—J. W. Bertram, Montgomery Creek, Cal., at \$11,702.50 submitted low bid to the District Engineer, Redding, for grading and surfacing with crusher run base about 1.3 mi. between Haynes Ranch and Canyon Creek in Shasta County. Complete bids follow:

- (A) J. W. Bertram, Montgomery Ck., \$11,702.50.
- (B) Hein Bros. Basalt Rock Co., Petaluma, \$12,447.50.
- (C) E. B. Bishop, Sacramento, \$12,818.75.

Quantities and unit prices follow:

- 3,000 cu. yds. rdwy. excav., unclass., (A) \$.40; (B) \$.50; (C) \$.45.
- 3,325 cu. yds. crusher run base placed, (A) \$1.90; (B) \$2.00; (C) \$2.15.
- 1,800 cu. yds. untreated crushed gravel or stone, in stockpiles, (A) \$1; (B) \$1.50; (C) \$2.00.

PIMA-COCHISE COS.—HIGHWAY CONST.—STATE

ARIZONA STATE.—Phoenix-Tempe Stone Co., Box 1645, Phoenix, at \$102,908.21 awarded contract (as previously reported) by T. S. O'Connell, State Highway Engineer, Phoenix, for highway construction on the Benson-Vail Highway, N.R.H. 18-B&C. The work begins at Clenega Creek and extends easterly to the Pima-Cochise County line and is to be completed on or before March 15, 1934.

- Complete bids follow:
- (A) Phoenix-Tempe Stone Co., Phoenix, \$102,908.21.
 - (B) Heafey-Moore Co., Phoenix, \$105,701.80.
 - (C) Arizona Sand & Rock Co., Phoenix, \$106,602.84.
 - (D) Southern Calif. Roads Co., Los Angeles, \$107,639.99.
 - (E) Houser & Garnett, Glendale, Cal., \$109,179.91.
 - (F) Pleasant-Hasler Const. Co., Phoenix, \$109,574.73.

- Quantities follow:
- (1) 103,566 sq. yds. reshape rd. surf.;
 - (2) 148 M. gals. sprinkling CIP;
 - (3) 11,302 cu. yds. agg. base course;
 - (4) 27,730 cu. yd. mi. do haul;
 - (5) 2,671 cu. yds. shoulder material;
 - (6) 6,554 cu. yd. mi. do haul;
 - (7) 11,349 tons plant mix;
 - (8) 38,149 ton mi. plant mix, haul;
 - (9) 545 tons cutback asphalt for plant mix and seal coat CIP;
 - (10) 6,204 miles place plant mix;
 - (11) 533 cu. yds. screenings CIP;
 - (12) 500 sq. yds. place intersections;

- Structures Over 20-ft. Clear Span**
- (13) 417 sq. yds. reshape road surf.;
 - (14) 1 M. gals. sprinkling CIP;
 - (15) 46 cu. yds. agg. base course;
 - (16) 78 cu. yd. mi. agg. do haul;
 - (17) 4 cu. yds. shoulder material;

- (18) 3 cu. yd. ml. do haul;
 - (19) 98 tons plant mix;
 - (20) 270 tons ml. plant mix, haul;
 - (21) 5 tons cutback asphalt for plant mix and seal coat CIP;
 - (22) 0.045 mile place plant mix;
 - (23) 5 cu. yds. screenings CIP;
- NON FEDERAL AID
- (24) 125 cu. yds. stockpiled agg., CIP; N.R.H. PROJECT NO. 18-C—RDWY.
 - (25) 93,715 sq. yds. reshape rd. surf.;
 - (26) 134 M. gals. sprinkling CIP;
 - (27) 10,227 cu. yds. agg. base course;
 - (28) 43,701 cu. yd. mi. agg. do haul;
 - (29) 2,417 cu. yds. shoulder material;
 - (30) 10,329 cu. yd. mi. do haul;
 - (31) 10,245 tons plant mix;
 - (32) 41,354 tons mi. plant mix, haul;
 - (33) 492 tons cutback asphalt for plant mix and seal coat;
 - (34) 5,705 ml. place plant mix;
 - (35) 487 cu. yds. screenings CIP;

- Structures Over 20-ft. Clear Span**
- (36) 201 sq. yds. reshape rd. surf.;
 - (37) 1 M. gal. sprinkling CIP;
 - (38) 22 cu. yds. agg. base course;
 - (39) 145 cu. yd. mi. do haul;
 - (40) 5 cu. yds. shoulder material;
 - (41) 34 cu. yd. mi. do haul;
 - (42) 51 tons plant mix;
 - (43) 289 tons mi. plant mix, haul;
 - (44) 2 tons cutback asphalt for plant mix and seal coat;
 - (45) 0.024 ml. place plant mix;
 - (46) 2 cu. yds. screenings CIP;
- NON FEDERAL AID
- (47) 120 cu. yds. stockpiled agg. CIP
 - (48) 1,562 tons plant mix stockpile CIP
 - (49) 63 tons cutback asphalt do mix do;
 - (50) 63 cu. yds. stockpiled screenings;
 - (51) 1,157 cu. yds. stockpiled aggregate base course.

Unit prices follow:

	(A)	(B)	(C)	(D)	(E)	(F)
(1)	\$.002	\$.01	\$.005	\$.01	\$.02	\$.005
(2)	2.50	2.50	3.18	2.50	2.50	3.50
(3)	.84	.60	.59	.60	.60	.55
(4)	.10	.10	.10	.09	.12	.11
(5)	.84	.60	.65	.60	.60	.55
(6)	.10	.10	.10	.09	.12	.11
(7)	1.00	1.35	1.45	1.46	1.55	1.45
(8)	.08	.07	.08	.08	.10	.085
(9)	27.50	27.30	26.00	27.00	24.00	28.00
(10)	300.00	300.00	330.00	300.00	250.00	350.00
(11)	4.00	4.50	3.48	4.00	3.00	5.00
(12)	.25	.35	.65	.20	.12	.12
(13)	.002	.01	.005	.01	.02	.005
(14)	2.50	2.50	3.18	2.50	2.50	3.50
(15)	.84	.60	.59	.60	.60	.55
(16)	.10	.10	.10	.09	.12	.11
(17)	.84	.60	.65	.60	.60	.55
(18)	.10	.10	.10	.09	.12	.11
(19)	1.00	1.35	1.45	1.46	1.55	1.45
(20)	.08	.07	.08	.08	.10	.085
(21)	27.50	27.30	26.00	27.00	24.00	28.00
(22)	300.00	300.00	330.00	300.00	250.00	350.00
(23)	4.00	4.50	3.48	4.00	3.00	5.00
(24)	2.50	2.50	3.18	2.50	2.50	3.50
(25)	.002	.01	.005	.01	.02	.005
(26)	2.50	2.50	3.18	2.50	2.50	3.50
(27)	.84	.60	.59	.60	.60	.55
(28)	.10	.10	.10	.09	.12	.11
(29)	.84	.60	.65	.60	.60	.55
(30)	.10	.10	.10	.09	.12	.11
(31)	1.00	1.35	1.45	1.46	1.55	1.45
(32)	.08	.07	.08	.08	.10	.085
(33)	27.50	27.30	26.00	27.00	24.00	28.00
(34)	300.00	300.00	330.00	300.00	250.00	350.00
(35)	4.00	4.50	3.48	4.00	3.00	5.00
(36)	.002	.01	.005	.01	.02	.005
(37)	2.50	2.50	3.18	2.50	2.50	3.50
(38)	.84	.60	.59	.60	.60	.55
(39)	.10	.10	.10	.09	.12	.11
(40)	.84	.60	.65	.60	.60	.55
(41)	.10	.10	.10	.09	.12	.11
(42)	1.00	1.35	1.45	1.46	1.55	1.45
(43)	.08	.07	.08	.08	.10	.085
(44)	27.50	27.30	26.00	27.00	24.00	28.00
(45)	300.00	300.00	330.00	300.00	250.00	350.00
(46)	4.00	4.50	3.48	4.00	3.00	5.00
(47)	2.50	2.50	3.00	1.50	.60	2.00
(48)	1.35	1.60	2.15	2.00	1.55	1.80
(49)	27.50	27.30	26.00	27.00	24.00	28.00
(50)	4.00	4.00	2.94	4.00	3.00	5.00
(51)	1.00	1.00	1.09	1.20	.60	.70

MOHAVE COUNTY, ARIZ. — GRADING 2.9 MI. — GOVT.

MOHAVE COUNTY, Arizona—Weymouth Crowell Co., 2104 E. 15th St., Los Angeles, at \$176,399 (cable guard rail) and at \$178,095 (steel guard rail) submitted low bid to the Bureau of Public Roads, San Francisco, for grading Section A of Federal Lands Highway Project No. 2, Kingman-Boulder Dam Highway, Mohave County, Arizona, involving:

- (1) 249,000 cu. yds. unclass. excav.;
- (2) 1594 cu. yds. unclass. excav., struc.;
- (3) 7000 cu. yds. unclass. excavation borrow;
- (4) 316,700 sta. yds. overhaul;
- (5) 2.964 mi. finishing earth graded roads;
- (6) 1122 cu. yds. Class A concrete;
- (7) 84 cu. yds. Class B concrete;
- (8) 79 cu. yds. Class D concrete;

- (9) 126,840 lbs. reinf. steel;
- (10) 554 lin. ft. 24-in. C.G.M.P. 14-ga.
- (11) 114 lin. ft. 24-in. C.G.M.P. 12-ga.
- (12) 638 lin. ft. 36-in. C.G.M.P. 10-ga.
- (13) 68,968 lbs. structural steel;
- (14) 11,310 lin. ft. wire cable guard-rail, placed;
- (15) 11,310 lin. ft. flexible steel plate do.

Complete bids follow:

- (A) Weymouth Crowell Co., Los Angeles (1) Cable Guard Rail, \$176,399, (2) Steel Guard Rail, \$178,095.
- (B) C. G. Willis & Sons, Inc., Los Angeles (1) \$177,668; (2) \$181,061.
- (C) Heafey-Moore Co. and Jack Casson, Oakland, (1) \$183,476; (2) \$185,738.
- (D) MacDonald & Kahn Co., Ltd., San Francisco, (1) \$197,186; (2) \$197,751.

- (E) Bechtel-Kaiser Rock Co., Oakland, (1) \$199,228; (2) \$201,490.
- (F) Bodenhamer Constr. Co., Oakland (1) \$208,004; (2) \$212,528.
- (G) Morrison-Knudsen, San Francisco, (1) \$217,722; (2) \$219,984.
- (H) Elliott & Co., Inc., Seattle, Wash. (1) \$222,674; (2) \$225,502.
- (I) New Mexico Constr. Co., Albuquerque, N. M., (1) \$233,098; (2) no bid.
- (J) Isbell Constr. Co., Carson City, Nevada, (1) no bid; (2) \$245,816.
- (K) Martin Wunderlich, Jefferson City Missouri, (1) \$255,371; (2) \$255,937.
- (L) Utah Constr. Co., San Francisco, (1) \$275,362; (2) \$278,755.
- (M) Engineer's Estimate, (1) \$198,180 (2) \$198,745.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)
(1).....	.38	.435	.46	.48	.525	.55	.57	.60	.67	.66	.72	.80	.50
(2).....	1.05	2.00	1.50	1.50	1.50	1.00	2.00	2.00	.80	1.25	2.00	1.00	1.25
(3).....	.38	.435	.35	.50	.50	.60	.40	.60	.60	.50	.40	.50	.40
(4).....	.013	.01	.01	.03	.02	.01	.02	.02	.02	.02	.03	.025	.02
(5).....	680.00	350.00	200.00	300.00	300.00	400.00	500.00	500.00	300.00	100.00	200.00	300.00	250.00
(6).....	28.40	23.50	25.00	25.00	22.50	25.00	27.50	24.00	22.30	29.00	25.00	26.00	24.00
(7).....	26.00	23.50	22.00	25.00	20.00	20.00	28.00	24.00	22.30	29.00	25.00	26.00	23.00
(8).....	42.00	32.00	35.00	35.00	30.00	25.00	28.00	30.00	29.60	25.00	25.00	45.00	24.00
(9).....	.056	.07	.06	.06	.05	.05	.06	.055	.053	.06	.06	.06	.065
(10).....	3.20	3.00	3.00	2.75	3.00	2.80	3.00	3.50	2.45	3.00	2.50	3.00	3.00
(11).....	4.20	3.65	3.50	3.50	4.00	3.60	4.20	4.00	3.70	3.75	3.00	3.70	3.65
(12).....	7.75	6.85	6.50	6.00	2.00	6.80	7.50	7.50	7.00	7.00	5.00	6.50	6.70
(13).....	.063	.07	.07	.08	.06	.06	.06	.06	.063	.065	.10	.065	.075
(14).....	1.35	.70	.80	.85	.80	1.10	.70	.75	.82	.....	.75	.80	1.00
(15).....	1.50	1.00	1.00	.90	1.00	1.50	.90	1.00	.....	1.00	.80	1.10	1.05

BIDS OPENED

SAN FRANCISCO—Arnold Lubricator Co., 1215 Grant St., Berkeley, at \$9.00 each, submitted low bid to the U. S. Forest Service, Ferry Bldg., for furnishing 72 air line lubricators complete for servicing Jack Hammers. Following is a complete list of bids:

Arnold Lubricator, Berkeley.....\$. 9.00

Air & Water Conditioning Co., San Francisco 10.00

Ingersoll-Rand Co., S. F..... 11.00

Gardner-Denver Co., S. F..... 11.00

Schramm, Inc., S. F..... 11.00

All bids held under advisement.

AWARDS

BOULDER CANYON, Nevada—Contracts for furnishing tubing for Boulder City, Bid No. A-3272-A have been awarded by the U. S. Bureau of Reclamation as follows:

Schedule No. 1: Grayhar Elec. Co. Inc., Denver, Colo., at \$22,824, f.o.b. Brooklyn, N. Y., involving: 72,000 ft. ½-in., 100,000 ft. 1-in., 200,000 ft. 1½-in., and 28,000 ft. 2-in.

Schedule No. 2: Grimes Pipe & Supply Co., Denver, Colo., at \$777.22 f.o.b. Youngstown, Ohio, involving miscellaneous black steel tubing.

Schedule No. 3: Crane O'Fallon Co. Denver, Colo., at \$162.72, f.o.b. Boulder City, Nevada, involving: 24 pcs. 6-in. cast iron flanged socket, length 6-1/2 to blange 30-in. faced and drilled, 125-lb. American standard.

BIDS OPENED

ARIZONA STATE—Southern California Roads Co., 2145 E. 25th St., Los Angeles, at \$118,958.70 submitted low bid to the Arizona Highway Commission, for highway construction on the Holbrook - Lupton Highway, N. R. H. 83-F. The work begins at the north city limits of Holbrook on Porter St. and extends northeast approximately 14.25 miles and consists of placing a base course and plant mix using cut-back asphalt and is to be completed on or before March 31, 1934. C. Y. Hollenbeck, Denver, Colo., submitted the second low bid at \$134,873.07.

BIDS OPENED

ARIZONA STATE—Phoenix-Tempe Stone Co., Phoenix, Ariz., at \$218,169.42 submitted low bid to the Arizona State Highway Commission for highway construction on the prescott-Phoenix Highway, N.R.H. 72-A. The bid on the alternate was \$220,567.62. The work, which is to begin at a point about 23¼ miles southwest of Prescott and is to extend southwesterly about 10½ miles consists of grading and draining the roadway and placing a base course and plant mix using cutback asphalt, and is to be completed on or before June 15, 1934.

Pearson & Dickerson, Riverside, submitted the second low bid at \$247,075.93; alternate, same.

AWARD

SAN FRANCISCO—Eaton & Smith, 715 Ocean Ave., at \$5957.06 awarded contract by the Department of Public Works, S. J. Hester, Deputy Director, to improve Quintara St., between 32nd and 33rd Aves.

AWARD

SAN FRANCISCO—Eaton & Smith, 715 Ocean Ave., at \$1130.72 awarded contract by the Department of Public Works, S. J. Hester, Deputy Director, to improve Gaven Street, between Barneveld Ave. and Merrill St.

NOTICE TO CONTRACTORS

WASHINGTON STATE.—The following work in Mt. Rainier National Park, State of Washington, will be advertised for bids to be received as soon as plans and specifications can be prepared. Weather conditions at that time may preclude the contractors interested in viewing the work. It is therefore recommended that interested contractors go over the project immediately to insure they will be informed and in a position to submit a bid:

East Side Highway—NR-5A Bridge

The improvement contemplates construction of reinforced concrete arch bridge on a curve with spandrel walls and concrete floor system. The bridge is approximately 280 ft. overall. It is to be constructed on the East Side Highway in Mt. Rainier National Park over Laughing Water Creek at approximately Sta. 133, which location is a short distance above Ohanape-cosh Hot Springs.

Contractors should contact Mr. C. G. Polk, now stationed on the project. W. H. Lynch, District Engineer, U. S. Bureau of Public Roads.

SANTA BARBARA COUNTY — GRADE AND PAVE — STATE

SANTA BARBARA COUNTY, Cal.—Weymouth-Crowell Co., 2104 E 15th St., Los Angeles, at \$290,887.39 submitted low bid to State Highway Commission Sacramento, to grade and pave 4.9 miles with portland cement concrete in Santa Barbara county, between Aroyo Hondo and Gaviota Creek, involving:

- (1) 27 sta. yds. clear and grub right-of-way;
- (2) 431,600 cu. yds. rdwy. excav. unclass;
- (3) 1,512,000 sta. yds. overhaul;
- (4) 290 tons asph. road oil seal coat;
- (5) 31,800 cu. yds. imported borrow;
- (6) 5300 cu. yds. struc. excav.;
- (7) 4960 cu. yds. remove and dispose of exist. conc. pave and struc.;
- (8) 55,750 cu. yds. subgrade for pave
- (9) 11,850 cu. yds. Class A Port. cem. conc. pave;
- (10) 8 tons asph. rd. oil bit. macadam;
- (11) 145 tons broken stone bit. macadam;
- (12) 1210 cu. yds. Class A Port. cem. conc. struc.;
- (13) 142,000 lbs. bar reinf. steel struc.
- (14) 224,000 lbs. wire mesh reinf. pave

- (15) 938 lin. ft. 8-in. C.M.P.;
- (16) 1282 lin. ft. 18-in. do.;
- (17) 862 lin. ft. 24-in. do.;
- (18) 476 lin. ft. 30-in. do.;
- (19) 76 lin. ft. 36-in. CMP.;
- (20) 140 lin. ft. C.M.P. clean and relay;
- (21) 98 lin. ft. half circle 24-in. C.M.P.
- (22) 5 each drop inlet frames and covers complete in place;
- (23) 5525 sq. yds. paved gutters and aprons;
- (24) 33 each spillway assemblies comp. in place;
- (25) 2700 lin. ft. move and reset exist. guard rail;
- (26) 5910 lin. ft. lam. timber guard rail
- (27) 91 each timber gulde posts;
- (28) 57 each timber culvert markers;
- (29) 2.7 mi. st. property fence;
- (30) 6.9 mi. type A prop. fence;
- (31) 14 each fence gates comp. in place
- (32) 7450 cu. yds. intercepting ditch and dike excav.;
- (33) 8600 M. gals. water;
- (34) 4400 bbls. heavy fuel oil;
- (35) 257 sta. yds. finishing rdwy;
- (36) 87 monuments complete in place.

- (A) Weymouth-Crowell Co., Los Angeles, \$290,887.39.
- (B) Kaisch Bros., Torrance, \$306,494.80.
- (C) Jahn & Bressl, Los Angeles, \$325,805.90.
- (D) M. J. Bevanda, Stockton, \$328,369.29.
- (E) Sharp & Fellows, Los Angeles, \$330,884.90.
- (F) Fredrickson & Watson Const. Co., Oakland, \$339,046.01.
- (G) J. P. Knapp, Oakland, \$349,560.
- (H) J. E. Haddock, Pasadena, \$350,820.25.
- (I) P. J. Akmadzich, Los Angeles, \$361,550.36.
- (J) Hanrahan Co., San Francisco, \$378,324.00.
- (K) David H. Ryan, San Diego, \$384,548.00.
- (L) Daley Corp., San Diego, \$397,323.11.

* (M) Geo. Pollock Co., Sacramento, \$1,329,194.20.

* Unit prices on Items 13 and 14 in bid form at ext. price. Corrected total would be \$304,189.20.

Complete bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)
(1)	\$ 32.00	\$ 25.00	\$ 25.00	\$ 50.60	\$ 55.00	\$ 25.00	\$ 50.00	\$ 50.00	\$100.00	\$ 50.00	\$ 30.00	\$ 85.00	\$ 75.00
(2)	.19	.235	.23	.21	.23	.21	.21	.24	.23	.30	.33	.29	.24
(3)	.0022	.005	.002	.005	.005	.005	.005	.003	.005	.007	.0025	.01	.005
(4)	17.50	17.00	16.00	20.00	24.00	29.00	17.00	18.50	22.00	20.00	17.00	17.72	15.50
(5)	.55	.50	1.00	.70	.64	1.00	1.00	.80	1.01	1.00	.88	1.10	.40
(6)	.55	.40	.70	1.00	1.00	1.00	.70	.75	.78	.80	1.00	1.50	.50
(7)	1.00	.70	1.00	1.25	1.20	1.00	1.50	1.75	1.15	1.00	1.00	1.50	.80
(8)	.0475	.07	.07	.09	.10	.07	.09	.075	.092	.07	.06	.08	.07
(9)	8.40	8.40	7.80	8.50	8.30	8.80	9.25	8.70	8.56	8.50	8.60	8.85	7.50
(10)	18.00	17.00	16.00	25.00	24.00	20.00	17.00	18.50	28.75	20.00	17.00	17.72	15.50
(11)	3.50	2.75	2.50	3.75	2.80	2.50	2.50	2.90	3.83	3.00	2.00	2.95	1.50
(12)	14.50	12.00	16.00	17.00	18.00	15.75	17.50	17.00	15.47	16.00	15.00	16.90	13.00
(13)	.041	.045	.04	.045	.04	.045	.04	.045	.044	.04	.042	.045	3.75
(14)	.056	.055	.05	.05	.05	.054	.045	.06	.06	.05	.05	.053	4.50
(15)	.85	1.00	.85	1.00	.90	.92	1.00	.90	1.04	1.00	.80	1.00	.90
(16)	1.65	1.50	1.75	2.00	1.50	1.55	1.50	1.50	1.69	1.60	1.55	1.90	1.50
(17)	2.45	2.25	2.05	3.00	2.20	2.35	2.25	2.30	2.53	2.40	2.45	2.75	2.25
(18)	3.20	3.00	2.55	3.75	2.75	3.20	3.00	3.00	3.22	3.00	3.10	3.60	2.90
(19)	5.00	4.25	4.25	5.50	4.30	4.60	4.25	5.00	4.83	5.00	5.00	5.90	4.10
(20)	.80	.45	1.00	1.25	.60	.50	1.00	.60	1.15	.50	1.00	1.70	.50
(21)	1.45	1.60	1.50	7.50	1.50	1.40	1.50	1.65	1.84	1.50	1.50	1.70	1.50
(22)	18.00	50.00	20.00	35.00	25.00	15.00	25.00	45.00	11.50	30.00	25.00	40.00	25.00
(23)	.93	.35	1.10	1.30	1.10	.65	1.20	1.10	1.84	1.20	1.00	1.40	2.00
(24)	11.00	12.00	10.00	20.00	15.00	11.50	10.00	15.00	13.23	14.00	12.00	11.00	12.00
(25)	.37	.50	.50	.40	.55	.40	.50	.50	.58	.40	.40	.60	.40
(26)	.87	.75	1.00	.40	1.00	.80	1.00	.80	.86	.85	1.10	1.00	.80
(27)	2.70	2.00	2.75	2.50	2.00	2.50	1.00	3.00	2.65	2.50	2.20	2.25	1.00
(28)	1.90	2.00	2.50	2.00	2.00	2.00	1.00	2.50	2.65	2.00	2.00	2.25	1.00
(29)	350.00	275.00	400.00	375.00	400.00	350.00	450.00	400.00	546.00	400.00	500.00	715.00	275.00
(30)	400.00	400.00	500.00	400.00	500.00	380.00	500.00	450.00	634.00	400.00	500.00	750.00	290.00
(31)	10.00	13.00	30.00	15.50	15.00	15.00	15.00	25.00	17.25	20.00	14.00	20.00	12.00
(32)	.15	.30	.50	.35	.15	.40	.70	.40	.40	.50	.50	.65	.20
(33)	.18	.50	.50	.25	.35	1.25	1.00	1.00	1.50	.90	1.50	.30	.50
(34)	1.93	1.60	2.05	2.25	2.20	2.30	2.00	2.75	2.10	2.50	2.10	2.30	2.00
(35)	4.65	5.00	7.00	8.00	5.00	5.00	5.00	5.00	5.18	5.00	6.00	5.00	5.00
(36)	3.00	1.50	3.00	2.50	3.00	2.50	2.00	3.00	2.88	2.50	3.00	2.50	3.00

COCHISE COUNTY, ARIZONA — GRADING — GOVT.

COCHISE COUNTY, Arizona—W. A. Rawls, El Paso, Texas, at \$114,735.00 submitted low bid to the Bureau of Public Roads, C. H. Sweetser, District Engineer, 802 Title & Trust Building, Phoenix, for grading 2.445 miles of Section D of Route 32, Chiricahua Monument National Forest Highway, Chiricahua National Monument, Coronado National Forest, Cochise Co., Ariz. (Low bidder previously reported October 19).

Complete bids follow:

- (A) W. A. Rawls, El Paso, \$114,735.
- (B) Skousen Bros., Albuquerque, N. M., \$115,119.70.
- (C) Phoenix-Tempe Stone Co., Phoenix, \$129,631.50.
- (D) Martin Wunderlich, Jefferson City Mo., \$139,580.50.
- (E) Utah Const. Co., Ogden, \$142,659.65.
- (F) Geo. W. Orr, Bisbee, Ariz., \$144,563.40.
- (G) Armstrong & Armstrong, Roswell, N. M., \$146,582.90.

(H) C. G. Willis & Sons, Los Angeles, \$155,831.08.

(I) Engineer's estimate, \$98,089.90.

Quantities follow:

- (1) 21 ac. clearing;
- (2) 124,000 cu. yds. unclass. excav.;
- (3) 1006 cu. yds. do for struc.;
- (4) 113,500 sta. yds. overhaul;
- (5) 2.445 miles finish earth graded rd.
- (6) 1 cu. yd. concrete;
- (7) 70 lbs. reinf. steel;

- (8) 38 cu. yds. rubble masonry, cem.;
- (9) 1090 lin. ft. 18-in. 16-ga. CMP, in place;

- (10) 256 lin. ft. 24-in. 14-ga. do;
- (11) 244 lin. ft. 24-in. 12-ga. do;
- (12) 246 lin. ft. 36-in. 12-ga. do;
- (13) 1100 cu. yds. hand laid rock embankment;
- (14) 1150 lin. ft. protection ditch, type I.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
(1)	\$40.00	\$200.00	\$100.00	\$100.00	\$200.00	\$60.00	\$75.00	\$150.00	\$100.00
(2)	.80	.74	.90	.96	.98	1.05	1.05	1.10	.65
(3)	1.00	2.00	1.50	2.00	2.00	1.50	1.90	2.00	2.00
(4)	.03	.03	.04	.04	.03	.01	.03	.03	.03
(5)	100.00	500.00	200.00	400.00	350.00	500.00	100.00	400.00	200.00
(6)	50.00	40.00	50.00	50.00	40.00	40.00	50.00	40.00	35.00
(7)	.10	.10	.10	.10	.12	.12	.25	.08	.07
(8)	15.00	25.00	25.00	20.00	25.00	17.50	25.00	18.00	16.00
(9)	1.80	2.20	2.00	2.50	2.50	2.35	2.00	1.68	1.75
(10)	2.80	3.20	3.25	3.00	3.50	3.00	3.00	2.53	2.50
(11)	3.80	3.50	4.00	3.50	4.00	4.00	3.50	3.25	3.00
(12)	5.25	7.00	6.00	6.00	6.50	5.50	5.00	5.10	4.00
(13)	4.00	5.00	2.50	4.00	3.00	2.50	2.75	4.00	4.00
(14)	.10	.20	.15	.10	.15	.10	.15	.20	.15

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IN THIS ISSUE



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In West**

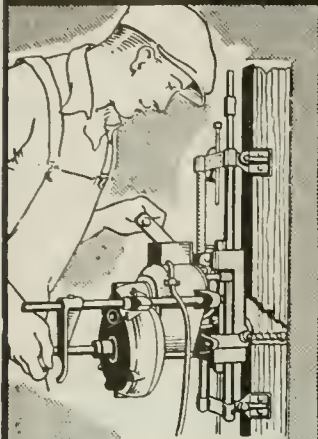
S. F. Building Permits Total \$474,035

Sectional CRA Codes Banned

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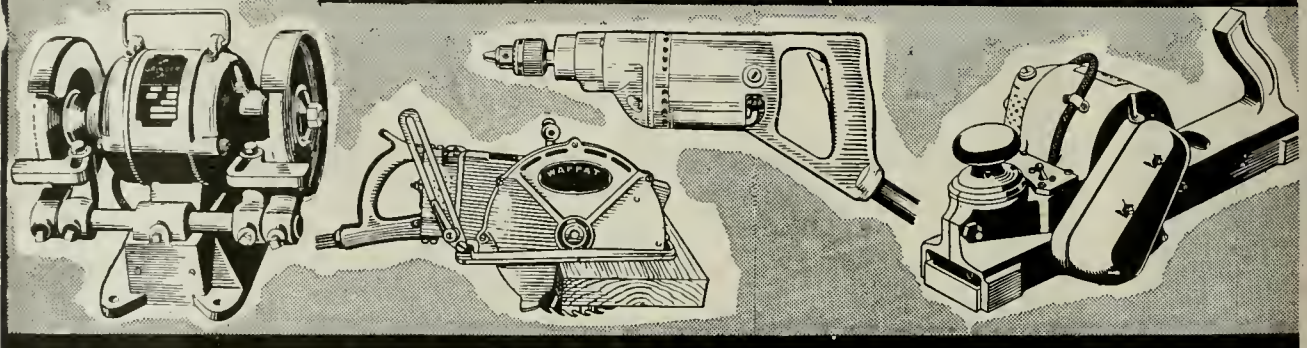
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SAN FRANCISCO, CALIF., NOVEMBER 4, 1933

No. 42

ICKES URGES DEPARTMENTS TO SPEED BIDS

Special Order Reduces Time For Advertising Contracts On Federal Work

Public Works Administrator Harold L. Ickes and the special board of public works has called upon the various federal departments of the government to reduce the time for the advertising of bids on public works projects in order to expedite construction and speed men back to work.

Counsel advised the administrator and the board that the period of time for such advertising is at the discretion of the department which has jurisdiction of the work. Copies of the following resolution were sent to all federal departments and independent government establishments:

"Whereas the administrator and the special board for public works desire to expedite as much as possible the placing under contract of federal projects financed through the public works funds, and

"Whereas considerable delay may occur due to the period of time between the original advertising for bids and the date bids are received, and

"Whereas the period of time for such advertising is not designated by statute, but is at the discretion of the department under whose jurisdiction the particular work is done:

"Resolved, That the administrator and the special board for public works request the various departments to reduce the period of time referred to above to a limit consistent with good practice and which will at the same time assure sufficient time for the preparation of intelligent bids."

TWO GRANTED CERTIFICATES

Provisional certificates for the practice of architecture in the state of California were granted two candidates at the meeting of the Northern Section, Board of Architectural Examiners, in San Francisco this week.

The newly-licensed architects are Howard Moise, Berkeley, and Robt. Stanton, Pebble Beach.

SEATTLE FIRM GETS DAM AWARD

PORTLAND, Ore., Nov. 1.—General Const. Co., 3840 Iowa street, Seattle, submitted the low bid for preliminary excavation at the Bonneville dam site today to Major C. F. Williams, District Engineer of the War Department. The company will be awarded the contract on its figure of \$668,500, Major Williams said.

Other bidders were Utah Construction Company and Morrison-Knudsen Co., Boise, Idaho, at \$773,500; and Guy F. Atkinson Co., Portland, \$1,228,500.

COMMISSIONER BANS SECTIONAL STATE CODES

Change of Policy on Price-Fixing Features is Forecast

The California State Corporation Commission gave notice yesterday that it would receive no more sectional codes under the California Recovery Act. All codes filed in the future must be for state-wide government of their respective industry, the commission announced.

According to Thomas J. Kelley, deputy commissioner, this ruling is based on the opinion given two weeks ago by Attorney-General U. S. Webb that national codes would supersede state codes and state codes would supersede county or sectional codes.

Plans are being considered for a possible division of the state into north and south districts for code administration, but no definite policy has been determined by the commission.

Dissatisfaction with the sectional codes has been forecast by earlier bulletins of the commission. The new ruling makes a definite change in the commission's policy of administering state codes. A further change of policy may be in the field of price fixing, it has been indicated, it being the intention of the department to avoid any conflict with NRA in this direction.

PERMIT TOTALS FOR OCTOBER IN S. F. \$474,035

Figure Compares Favorably With Preceding Month and Last Year

Private building operations continued during October at about the same pace set in September, according to the monthly report of the San Francisco department of public works issued last night.

The total for the month is \$474,035 with 439 permits issued. This compared with a total of \$566,883 and 430 permits in September and with \$614,619 and 426 permits in October, 1932.

The lower total for the past month is accounted for in both comparisons principally by a smaller proportion of public building. In October the public work amounted to \$26,219, compared with \$75,000 in September and \$121,577 in the corresponding month of 1932.

A slight decline in residential building is indicated by a total of \$202,776 for the past month, compared with \$234,427 in September and \$271,693 in October, 1932.

All other classifications are approximately the same for all three months.

The comparative totals for October and the corresponding month a year ago follow:

A	2	\$ 40,000	1	\$ 800
B	1	1,200	7	5,000
C	4	25,500	7	35,313
Frames	46	202,776	75	271,693
Alteration	382	178,340	340	180,236
Public	1	1,986	1	115,500
U. S. Govt.	3	24,233	1	6,077
Total	439	\$474,035	426	\$614,619

DISTRICT ENGINEER OFFICES ARE MOVED

Effective October 23, 1933, the offices of the Sacramento Engineer District and the California Debris Commission will be moved to Room 208, Post Office Bldg., Sacramento. All communications should be addressed as follows:

U. S. Engineer Office, Sacramento District, 208 Post Office Bldg., Sacramento, Calif., or

California Debris Commission, 208 Post Office Building, Sacramento, Calif.

These offices were formerly located in the California Fruit Bldg., Sacramento.

STEEL WORK ON ANCHORAGES IS COMPLETE

**Work on South Pier Fender
Progressing Despite Heavy
Weather**

Rapid progress on the various units of the Golden Gate Bridge under construction was indicated Monday in the report of Chief Engineer Joseph B. Strauss.

Erection of steel eye bars and girders at the San Francisco anchorage was completed Sunday, according to the report, and the eye bars will now be aligned, preparatory to being embedded in concrete.

This finishes the erection of the anchorage steel, the eye bars and girders on the Marin side, which were completed more than two weeks ago, now being partially embedded in concrete.

The total amount of anchorage steel in place on both sides, according to Chief Engineer Strauss, is 6,360,000 pounds. Concrete yardage poured to date on the various units is as follows:

Marin anchorage, 28,183 cubic yards; Marin pylon N-1, 3,996 cubic yards; Marin pier, 22,985 cubic yards; San Francisco pylon S-1, 3,595 cubic yards; San Francisco anchorage, 27,840 cubic yards; total concrete already poured on the entire job, 86,599 cubic yards.

Strauss reported that 63,276,406 pounds of steel for the San Francisco and Marin towers have been rolled to date in the eastern steel mills and that 35,408,900 pounds of steel are in process of fabrication in the East.

COULEE BRIDGE SKETCHES READY

Preliminary sketches for the bridge that is to span the Columbia just below the line of the Grand Coulee dam have been completed by O. R. Elwell, engineer in the state highway department, and submitted to Frank A. Banks, federal reclamation bureau engineer in charge at the damsite.

Four alternative plans have been sketched: one for a cantilever high bridge and one for a cantilever low bridge, a third for a suspension high bridge and a fourth for a suspension low bridge.

It is hoped to have specifications ready in time to call for bids on excavating for the bridge abutments by November 20, the date tentatively set for opening bids on excavating the first 2,250,000 cubic yards of surface material for the abutments of the dam itself.

SUSPEND LICENSE OF CONTRACTOR

Charged with the diversion of funds allegedly due a subcontractor, state contractor's license of Oscar Chappell, Lakeside, Lake Tahoe has been suspended for 90 days by Glen V. Slater, assistant registrar of contractors.

Chappell, according to evidence introduced in a formal hearing at Sacramento, retained Fred Brenzel, Bijou, Lake Tahoe, to install the plumbing fixtures in a Lake Tahoe home, and allegedly failed to pay Brenzel, after accepting payment from the owner of the property.

Suspension of Chappell's license for a period of 90 days, and until adequate restitution is made, was approved by Col. Carlos W. Huntington, registrar of contractors and director of professional and vocational standards in Gov. Rolph's cabinet.

ORDER DENYING TWO LICENSES IS SUSTAINED

Two Sacramento contractors, who failed to carry compensation insurance to protect their workmen, today had lost their second attempt to obtain a state contractor's license, according to Glen V. Slater, assistant registrar of contractors.

They are Walter P. James and J. P. Spencer.

Although Col. Carlos W. Huntington, registrar of contractors and member of Governor Rolph's cabinet, had previously refused to issue state licenses to James and Spencer, they were granted formal hearings on their applications.

The hearings, which resulted in their appeals being rejected, were Bowdle, referee, and the decision was approved by Registrar Huntington.

In refusing their original petitions, Huntington asserted that failure of contractors to carry compensation insurance was a violation of the spirit of the National Recovery Act, as well as state law.

"The law specifically provides that all licensed contractors must protect their workers with compensation insurance. Failure to do so is an evasion of the spirit of the recovery act, inasmuch as it would enable a contractor to underbid and take unfair advantage of his fellow contractors who adhere to law and carry compensation insurance," said Huntington.

"It is also manifestly unfair to their workmen."

PRICES GAIN 1.75 PERCENT IN SEPTEMBER

**Most Items in Group Advance
From August
Level**

Building material prices increased an average of 1¾ percent during the month of September, according to the monthly review of the U. S. Bureau of Labor Statistics.

The average prices of brick and tile, cement, lumber, structural steel, and other building materials moved upward, while paint and paint materials, decreased slightly.

Metals and metal products as a whole continued upward in September due to advancing prices of agricultural implements, iron and steel, non ferrous metals and plumbing and heating fixtures. The index for the group was over 1 percent higher than for the month before.

The rise in the general level of wholesale commodity prices which began in March of this year continued unbroken during the month of September, according to the Bureau. The index number for the month showed an advance of nearly 2 percent. This index which includes 784 commodities or price series weighted according to their relative importance in the markets and based on the average prices for the year 1926 as 100.0, rose from 69.5 for August to 70.8 for September.

The index for September averaged above 70 for the first time since November 1931, and is higher than for any month since October 1931, when the index was 70.3. As compared with September 1932, with an index number of 65.3, the present index shows an increase of nearly 8½ percent over that of one year ago. As compared with the low point reached in February of the present year, when the index was 59.8, September prices were more than 18 percent higher. The corresponding index for March was 60.2.

Following is a comparison of building material prices for corresponding months:

	Sept. 1932	Sept. 1933
Building materials	70.5	82.7
Brick and tile.....	75.4	82.6
Cement	79.0	90.8
Lumber	56.3	82.0
Paint & paint mtl.....	68.2	77.3
Plumbing and heating.....	66.8	74.7
Structural steel	81.7	82.4
Other building materials.....	79.9	85.9

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Cement-Mixed Mortar-Stucco
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**Consolidated Rock
Products Co.**

656 S. Los Angeles St.

Los Angeles, Calif.

County Directory of California PWA Employment Service Offices

Following is a directory of U. S. Re-employment Service offices in California to which contractors on NRA projects should apply for labor lists, giving the county, the office manager and the address:

Alameda, George F. Ryan, 401 10th St., Oakland (State).

Amador, Rod N. Bierce, 98 Main St., Jackson.

Butte, Martin C. Polk, Chamber of Commerce, Chico.

Calaveras, George Treat, Chamber of Commerce, Main St., San Andreas.

Colusa, E. C. Garrette, 611 Market St., Colusa.

Contra Costa, G. F. Imbach, City Hall, Richmond.

Del Norte, Bruce Markel, Federal Bldg., Eureka.

El Dorado, Thos. G. Patton, 677 Main St., Placerville.

Fresno, W. G. Maas, 1827 Inyo St., Fresno (State).

Glenn, J. L. Napton, 215 N Butte St., Willows.

Humboldt, Bruce Markel, Federal Bldg., Eureka.

Imperial, C. E. Livingston, % Court House, El Centro.

Inyo, Louis H. Bodle, County Court House, Independence.

Kern, H. L. Walker, 18th and L Sts. Bakersfield.

Kings, F. L. Buckner, Chamber of Commerce, Hanford.

Lake, F. H. Boggs, Bank of America Bldg., Lakeport.

Lassen, C. E. Lawson, % Chamber of Commerce, Susanville.

Los Angeles, J. A. Greene, 512 Stanford Ave., and 3007 S Central Ave., Los Angeles (State).

Madera, Thos. Warburton, County Court House, Madera.

Marin, C. H. Roberts, County Court House Annex, San Rafael.

Mariposa, F. B. Ewing, Yosemite National Park.

Mendocino, Wm. B. Hagans, 206 N School St., Ukiah.

Merced, T. W. Fowler, Chamber of Commerce, Merced.

Modoc, C. A. Ballard, County Court House, Alturas.

Mono, Geo. C. Delury, County Court House, Bridgeport.

Monterey, F. S. MacCargar, Chamber of Commerce, Salinas.

Napa, Otis M. Brown, Chamber of Commerce Bldg., Napa.

Nevada, Stanley Woolcock, Chamber of Commerce Bldg., Grass Valley.

Orange, Chas. Fallert, County Court House Annex, Santa Ana.

Placer, Thos. W. Wilson, Auburn.

Plumas, A. H. Bar, Quincy.

Riverside, LeRoy P. Sims, County Court House, Riverside (State).

Sacramento, A. G. Anderson, 130 K St., Sacramento (State).

San Benito, Miss Eleanor Nolan, County Court House, Hollister.

San Bernardino, Leo F. Schwab, 722 Court St., San Bernardino (State).

San Diego, Ray Mathewson, 826 2nd St., San Diego (State).

San Francisco, J. J. Lane, 791 Howard St., San Francisco (State).

San Joaquin, M. J. Camomile, 35 N Center St., Stockton (State).

San Luis Obispo, J. M. MacLean, 997 Monterey St., San Luis Obispo.

San Mateo, Capt. Edw. MacCauley, 200 2nd St., San Mateo.

Santa Barbara, J. W. MacLean, County Court House, Santa Barbara.

Santa Clara, F. F. Graham, 364 N Market St., San Jose (State).

Santa Cruz, A. R. Linn, Chamber of Commerce Bldg., Watsonville.

Shasta, Alex Ludwig, 1341 Yuba St., Redding.

Sierra, M. P. Fischer, Downieville.

Siskiyou, Jas. A. Thomas, Yreka.

Solano, Wm. J. Keating, City Hall, (Room A) Vallejo.

Sonoma, R. E. Thomas, City Hall, Santa Rosa.

Stanislaus, Percy A. Hopper, Post Office Bldg., Modesto.

Sutter, C. F. Galligan, 306 D St., Marysville.

Tehama, E. B. Taggart, Red Bluff.

Trinity, Albert C. Meckel, Weaver-ville.

Tulare, Floyd Byrnes, Municipal Auditorium, Visalia.

Tuolumne, A. H. Stahl, Veterans' Memorial Bldg., Sonora.

Ventura, B. B. Jenkins, Ventura.

Yolo, John O. Miller, County Court House, Woodland.

Yuba, C. F. Galligan, 306 D Street, Marysville.

\$500,000 PWA FUNDS SPENT DAILY IN WEST

Tabulation of Seven States Awards Shows \$23,500,000 Contracted

Construction contracts are being awarded at the rate of \$500,000 a day by State and Federal agencies in the area bounded by the seven westernmost states as the record-breaking campaign for re-employment on public works goes forward.

In the seven weeks between September 14 and October 31, contracts totaling more than \$23,250,000 were awarded by public works authorities in California, Arizona, Nevada, Utah, Idaho, Oregon and Washington. Almost all of this construction is financed by allotments from the \$3,300,000,000 fund of the Federal Public Works Administration to Federal departments or in direct grants to states for highway improvement.

A tabulation by states shows the following highway award totals between Sept. 14 and Nov. 1:

STATE HIGHWAY WORK	
Arizona	\$1,822,088
California	7,445,082
Idaho	626,015
Nevada	767,014
Oregon	1,793,901
Utah	203,695
Washington	753,415
Total	\$13,411,220

In the same states highway work had been started under awards from the U. S. Bureau of Public Roads on various Federal projects as follows:

BUREAU OF PUBLIC ROADS	
Arizona	\$ 970,859
California	610,419
Idaho	602,819
Oregon	643,536
Utah	484,268
Washington	322,844
Total	\$3,634,745

War and Navy Departments have awarded contracts totaling \$6,107,323 in the past six weeks, including a total of \$4,419,371 for rivers and harbors work on projects located at Los Angeles, Richmond, Monterey and various points in the Sacramento, San Joaquin and Columbia rivers.

The balance of the war and navy department expenditures have been for improvements at various posts and bases in California and Washington, including March Field, Hamilton Field (Marin Co.), Fort Lewis and Puget Sound, Mare Island and San Diego navy yards.

The California State Highway Commission is leading all other agencies in placing work under contract, with a total exceeding \$7,500,000 awarded prior to November 1. The commission has announced its program will place \$20,000,000 under contract before January 1, with a goal of employing 50,000 men.

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Stockton, Calif.

PERMITS AND CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
793	Alpine	Salmon	2300
794	Lathrop	Schendler	2950
795	French	Hogberg	1200
796	Milwaukee	Owner	35000
797	Equity	Jones	1000
798	Giannone	Vannucci	18000
799	Geheran	Geheran	4000
800	Michael	Michael	4000
801	Heza	Owner	1000
802	Holbrook	Lindgren	12000
803	Frasher	Owner	6500
804	Cereal	Forbes	35000
805	Zaro	Struthers	3000
806	Nestori	Foliotti	2000

REPAIRS

(793) NO. 1151 POST ST. Repair fire damage to apartments.
Owner—Alpine Realty Co., 1734 Broderick St., San Francisco.
Architect—Not Given.
Contractor—L. Salomon, 1734 Broderick St., San Francisco. \$2300

ALTERATIONS

(794) SE POST AND STOCKTON Sts. Alter stores.
Owner—Lathrop Estate, 2 Montgomery St., San Francisco.
Architect—Not Given.

Contractor—Frank Schendler, 532 Brannan St., San Francisco. \$2950

ALTERATIONS

(795) GEARY ST., bet. 5th and 6th Aves. Alter hospital.
Owner—French Hospital, Premises.
Architect—Not Given.
Contractor—E. Hogberg, 666 Mission St., San Francisco. \$1200

FOUNDATION

(796) W TENTH ST. 175 N Bryant. Foundation for brewery.
Owner—Milwaukee Brewery of San Francisco.
Engineer—W. E. Murray, 908 Hayes St., S. F. \$35,000

(797) 77 EDDY ST.; alter loft.

Owner—Equity Club, 77 Eddy St.
Architect—Not Given.
Contractor—W. C. Jones, 1132 Guerrero St. \$1000

OFFICES

(798) NW STOCKTON AND CARD Alley. Class C offices and stores.
Owner—F. Giannone, 255 Columbus Ave., San Francisco.
Architect—Wm. Mooser, Monadnock Bldg., San Francisco.
Engineer—F. H. Nishkian, 525 Market St., San Francisco.
Contractor—Vannucci Bros., 1875 San San Bruno Ave., S. F. \$18,000

DWELLING

(799) W TWENTY-EIGHTH AVE. 275 S Judah St. One-story and basement frame dwelling.
Owner—F. J. Geheran, 1212 11th Ave. San Francisco.
Architect—Not Given.
Contractor—F. J. Geheran, 1212 11th Ave., San Francisco. \$4000

DWELLING

(800) E TWENTYSECOND AVE. 280 N Ocean Ave. Onestory and basement frame dwelling.
Owner—Michael & Bomerer, 762 De Haro St., San Francisco.
Architect—Not Given.
Contractor—Michael & Bomerer, 762 De Haro St., S. F. \$4000

ALTERATIONS

(801) W DUBLIN 31 S Russia Ave. Alter dwelling.

Owner—A. Heza, 255 Prague St., San Francisco.
Architect—Not Given. \$1000

ALTERATIONS

(802) NO. 58 SUTTER ST. Alter office building.

Owner—Holbrook Bldg., Inc., Prem.
Architect—Albert Roller, Crocker 1st National Bank Bldg., S. F.
Contractor—Lindgren & Swinerton, Inc., 625 Standard Oil Bldg., San Francisco. \$12,000

OFFICE

(803) NW FIFTH AND BRANNAN. One-story and basement frame office and shed.

Owner—H. B. Frasher, Fresno.
Architect—A. A. Cantin, 557 Market St., San Francisco.
Engineer—F. W. Kellberg, 320 Market St., San Francisco. \$6500

OFFICE BLDG.

(804) N FULTON 137 W Webster St. Class E office building.

Owner—Cereal Products Ref. Co., 763 Fulton St., San Francisco.
Architect—Not Given.
Contractor—R. J. Forbes, 1065 Monadnock Bldg., S. F. \$35,000

DWELLING

(805) E CAYUGA AVE. 100 S Tingley. One-story and basement frame dwelling.
Owner—C. Zaro, 4250 Mission St., San Francisco.
Architect—Not Given.

Contractor—Marshall Struthers, 4250 Mission St., San Francisco. \$3000

REPAIRS

(806) NO. 506 PACIFIC AVE. Repair restaurant.
Owner—A. Nestori, 560 Pacific Ave., San Francisco.
Architect—Not Given.
Contractor—E. Foliotti, 949 Filbert St., San Francisco. \$2000

ALAMEDA COUNTY

479	Gilbert	Owner	6000
480	Gilbert	Owner	2800
481	Bank America	Pestana	3000
482	Melanphy	Garcia	3500
483	Reimingham	Owner	4000
484	Sufschmidt	Owner	4000
485	Nelson	Monez	3800

SHOP

(479) 5295 COLLEGE AVE., OAKLAND; 1-story brick cabinet shop.
Owner and Builder—W. P. Gilbert, 5301 College Ave., Oakland.
Architect—Not Given. \$6000

ADDITION

(480) 5297 COLLEGE AVE., OAKLAND; addition.
Owner and Builder—W. P. Gilbert, 5301 College Ave., Oakland.
Architect—Not Given. \$2800

(481) 5634 SHATTUCK AVE., OAKLAND; 1-story brick service station and 1-story brick comfort station.

Owner—Bank of America, 12th and Broadway, Oakland.
Architect—Not Given.
Contractor—John Pestana, 1061 71st Ave., Oakland. \$3000

DWELLING

(482) NO. 780 ENSENADA ST., BERKELEY. Two-story 5-room frame dwelling and garage.

Owner—Mr. and Mrs. R. Melanphy, 766 Ensenada St., Berkeley.
Architect—F. H. Slocombe, 131 Monte Cresta Ave., Berkeley.
Contractor—G. C. Garcia, 1656 Ocean View Ave., Berkeley. \$3500

DWELLING

(483) NO. 949 EUCLID AVE., BERKELEY. Two-story 6-room frame dwelling and garage.
Owner—B. Reimingham, 622 Santa Fe Ave., Berkeley.
Architect—Not Given. \$4000

DWELLING

(484) NO. 121 BROOKSIDE DRIVE, BERKELEY. Two-story 6-room frame dwelling and garage.
Owner—Hufschmidt & Whalen, 461 Lee St., Oakland.
Architect—Not Given. \$4000

DWELLING

(485) NO. 4107 OAKMORE ROAD, OAKLAND. Two-story six-room dwelling.
Owner—A. L. Nelson.
Architect—Not Given.
Contractor—A. H. Monez, 4350 Bridgeview Drive, Oakland. \$3800

BUILDING CONTRACTS SAN FRANCISCO COUNTY

163	Teglia	Franceschi	26500
167	U of C	Fay	4577
164	Teglia	Franceschi	

APARTMENT BLDG.

(163) NE JEFFERSON and Divisadero E 106-3 x N 34-4½; three-story and basement frame apartment building.
Owner—Mary and G. Teglia, 3023 Franklin St.
Architect—Richard R. Irvine, 204 S Market Street.
Contractor—Louis Franceschi, 100 Capra Way.
Filed Oct. 28, '33. Dated Oct. 26, '33.
When comp. roof installed.....\$5300
Brown coated 5300
Interior trim ready for paint..... 5300
Completion notice recorded..... 5300
Usual 35 days 5300
TOTAL COST, \$26,500
Limit, 120 days.

APARTMENTS

(164) NE JEFFERSON & DIVISADERO Sts. All work for three-story and basement frame apartments.
Owner—G. and M. Teglia, 3023 Franklin St., San Francisco.
Architect—Richard R. Irvine, 204 S Market St., San Francisco.
Contractor—Louis Franceschi, 100 Capra Way, San Francisco.
Filed Oct. 30, '33. Dated Oct. 26, '33.
Payments not given
TOTAL COST, \$—
Bond, limit, forfeit, none. Plans and specifications only filed.

PAVEMENT, ETC.

(167) UNIVERSITY OF CALIFORNIA Campus in San Francisco. All work for pavement and appurtenances.
Owner—The Regents of the University of California.
Architect—H. B. Foster, Dept. of Grounds and Bldgs., University of California, Berkeley.
Contractor—Fay Improvement Co., Phelan Bldg., San Francisco.
Filed Nov. 1, '33. Dated Oct. 27, '33.
Upon completion 75%

Usual 35 days..... 25%
 TOTAL COST, \$4577
 Bond, \$2500. Surety, Massachusetts Bonding & Insurance Co. Limit, 60 days. Forfeited, none. Plans and specifications filed.

ALAMEDA COUNTY

64 Syndicate	Pestana	4000
65 Kennedy	Petersen	4977

SERVICE STATION

(64) SE FIFTY-SEVENTH ST. AND Shattuck Ave., being Lots 105, 106 and 107, Map Central Square, Oakland. All work for service station Owner—Syndicate Idora Co., Ltd. Architect—Not Given. Contractor—John Pestana, 1061 71st Ave., Oakland.
 Filed Oct. 31, '33. Dated Oct. 24, '33.
 Roof on, gas pumps and tanks set\$2000
 When completed 1000
 Usual 35 days..... 1000
 TOTAL COST, \$4000

Bond, \$4000. Surety, General Casualty Co. of America. Limit, 45 days. Forfeited, none. Plans and specifications filed.

RESIDENCE

(65) LOT 2283 PIEDMONT PINES, Oakland. All work for two-story residence and garage. Owner—Alfred B. Kennedy. Architect—Miller & Warnecke, Financial Center Bldg., Oakland. Contractor—Wallace A. Petersen, 7107 Weld St., Oakland.
 Filed Nov. 1, '33. Dated Oct. 30, '33.
 Lumber delivered and sug-floor laid\$995
 Frame completed and rough plumbing in 995
 Plastering completed 935
 When completed 995
 Usual 35 days..... 997
 TOTAL COST, \$4977

Bond, \$4977. Surety, General Casualty Co. of America. Limit, 90 days. Forfeited, none. Plans and specifications filed.

SAN FRANCISCO UNDER \$1000

ALTER office building, \$90; 745 Market Ct.; owner, Pacific States Savings & Loan, Prem.; architect G. A. Lansburgh, 140 Montgomery; contractor, Dinwiddie Constr. Co., Crocker Bldg.

SIGN, electric, \$150; 141 Fourth St.; owner, Grand Cafe, 141 4th St.; contractor, Brumfield Elec. Sign Co., 965 Folsom St.

SIGN, electric, \$200; 2189 Mission St.; owner, Poppy Inn, Premises; contractor, Elec. Prod. Corp., 255 Golden Gate Ave.

ALTER store flats, \$450; 2759 Geary St.; owner, J. Boragno and J. P. Passo, 159 Collins St.

ALTER dwelling, \$350; 250 Howth St.; owner, E. E. Winblad, 250 Howth.

SIGN, electric, \$200; 7 Grove St.; owner, Pioneer Cafe, Premises; contractor, Elec. Prod. Corp., 255 Golden Gate Ave.

SIGN, electric, \$200; 3123 16th St.; owner, Mission Beer Tavern, 3123 16th St.; contractor, Electrical Prod. Corp., 255 Golden Gate Ave.

ALTER dwelling, \$150; W Mission 75 N Castle Manor; owner, Marshal Struthers, 4250 Mission St.; contractor, Marshal Struthers.

SIGN, electric, \$200; 44 California St.; owner, Merchants Inn, 44 California St.; contractor, Elec. Prod. Corp., 255 Golden Gate Ave.

GARAGE, frame, one-story, \$300; 350 Fern Ave.; owner, Lere, 1643 Bush

DWELLING, frame, one-story and basement, \$150; W Anderson 72 N Cortland Ave.; owner, J. Battaglia, 236 Anderson St.

SIGN, electric, \$200; 72 Embarcadero; owner, Ferry Buffett, Premises; contractor, Elec. Prod. Corp., 255 Golden Gate Ave.

SIGN, electric, \$200; 2400 Lombard St. owner, The Castle, Premises; contractor, Elec. Prod. Corp., 255 Golden Gate Ave.

SIGN, electric, \$200; 500 Kearny St.; owner, California Coffee Shop, 500 Kearny St.; contractor, Electric Prod. Corp., 255 Golden Gate Ave.

ALTER store flats, \$200; SW Dore & Harrison Sts.; owner, A. A. Goldman, 138 Erle St.; contractor, E. Rosemont, 176 Duboce Ave.

ALTER store, \$50; 761 Jackson St.; owner, Yee Bing, 761 Jackson St.; contractor, Wong Non, 45 Spofford Alley.

SIGN, cloth, \$16; 1072 Market St.; owner, Iwata Co., Prem; contractor, S. B. Daggett, 335 Van Ness Avenue South.

ALTER dwelling, \$250; 1612 Union St. owner, Mrs. A. Z. Denahey, 1526 Filhert St.

BILLBOARD, \$6.25; N Market 76 E Page St.; owner, Foster & Kleiser, 1675 Eddy St.

SIGN, electric, \$200; 101 Sixth St.; owner, Poppy Buffett, 101 6th St.; contractor, Elec. Prod. Corp., 101 6th St.

SIGN, electric, \$275; 98 Eddy St.; owner, John Leighton Co-Operative Dairy Lunch, Premises; contractor, QRS Neon Corp, Ltd., 690 Potrero Ave.

BILLBOARD, \$18.75; NE Guerrero & 19th Sts.; owner, Foster & Kleiser 1675 Eddy St.

ALTER dwelling, \$200; 72-74 Sanchez St.; owner, Mrs. L. Giovannetti, 2341 15th Ave.; contractor, Store

SIGN, electric, \$200; 375 Tenth Street; Concrete Co., 101 France Ave. owner, Spare-A-Dime Bar, 375 10th St.; contractor, Elec. Prod. Corp., 375 10th St.

ALAMEDA COUNTY UNDER \$1000

ALTERATIONS, \$120; 1633 Bonita St., Berkeley; owner, Mrs. Steves, 1633 Bonita St.; contractor, W. C. Winer, 1621 Bonita St.

ALTERATIONS, \$75; 1421 Josephine St., Berkeley; owner, H. T. Dykes, 919 Modoc St.; contractor, G. D. Gates, 2315 McGee Ave.

ALTERATIONS, \$100; 2029 Delaware St., Berkeley; owner, H. Maxwell, 2029 Delaware St.

ALTERATIONS, \$90; 1803 Cedar St., Berkeley; owner, M. Hickok, Oakland.

ALTERATIONS, \$950; 5931 College Ave., Oakland; owner, Lee Perkins; contractor, F. A. Muller, 805 Syndicate Bldg.

GARAGE, one-story, \$100; 9904 Walnut St., Oakland; owner, John Alves, 9904 Walnut St.

FIRE repairs, \$350; 5436 Shattuck Av., Oakland; owner, Paramount Security Co., San Francisco; contractor, A. H. Rose, 478 25th St.

REPAIR fire damage, \$750; 3020 College Ave., Berkeley; owner, M. E. Lyons, 3020 College Ave., Berkeley; contractor, A. H. Rose, 70

ALTER shed, \$972; Alameda Pier; Southern Pacific Line; owner, S. P. C., 65 Market St., San Francisco

ADDITION, \$100; 2877 Stanley Ave., Oakland; owner, F. L. Southwell, Premises.

SIGN, electric, \$150; 1602 San Pablo Ave., Oakland; owner, The Mecca contractor, Elec. Prod. Corp., 950 30th St.

ALTER for garage, \$175; 915 53rd St., Oakland; owner, Mrs. M. Goldwater, 915 53rd St.; contractor, S. T. Rogers, 478 Clifton St.

FIRE repairs, \$250; 1459-61 E-33rd St., Oakland; owner, Joe Meneze; contractor, H. J. Edwards, 1215 Poplar St.

ADDITION, \$200; 3009 California St., Oakland; owner, H. J. Jenkins, 3918 Greenwood Ave.

TOWER, steel, \$600; 1001 22nd Ave., Oakland; owner, California Wire Cloth Co., Premises.

ALTERATIONS, \$195; 2816 College Ave., Berkeley; owner, Clara Pople, 2816 College Ave.; contractor, Roy Gordon, 1814 Derby St.

ALTERATIONS, \$100; 2138 Carlton St., Berkeley; owner, Callow, 2138 Carlton St.; contractor, E. Rosenquist, 1261 Santa Fe Ave.

ALTERATIONS, \$125; 1730 Milvia St., Berkeley; owner, E. B. Windrew, 1730 Milvia St.; contractor, W. H. Verhesi, Richmond.

ADDITION, \$300; 1224 62nd Ave., Oakland; owner, F. W. Garlick, 1224 62nd Ave.

SIGN, electric, \$200; 2101 Hopkins St.; owner, Blue Ribbon Buffet; contractor, Elec. Prod. Corp., 950 30th St.

GARAGE and shed, one-story, \$480; 390 51st St. (rear), Oakland; owner, Emil Hedstrom, 390 51st St.

ADDITION, \$250; 7900 Winthrop Ave., Oakland; owner, Bank of America 12th and Broadway.

ALTERATIONS, \$200; 2819 Forrest St., Berkeley; owner, Fred Stewart, 2819 Forrest Ave.; contractor, Crown Roof Co., 2609 E-14th St., Oakland.

ALTERATIONS, \$300; 1038 24th St., Oakland; owner and contractor, Mr. Donnell, 2414 Dowling Place, Berkeley.

ALTERATIONS, \$150; 711 Franklin St., Oakland; owner and contractor, Alice Takenchi, 170 Alice St., Oakland.

SIGN, electric, \$50; 2041 San Pablo Ave., Oakland; owner, Greyhound Coffee Shop; contractor, Electric Prod. Corp., 950 30th St., Oakland.

ALTER roof, \$159; 2602 Webster St., Berkeley; owner, May Ford, 2602 Webster St., Berkeley; contractor, Elliott & Elliott Co., 1429 66th Ave., Oakland.

ALTERATIONS, \$280; 2894 Telegraph Ave., Berkeley; owner, Cecil J. French, 2894 Telegraph Ave., Berkeley; contractor, Elliott & Elliott Co., 1429 66th Ave., Oakland.

ALTER roof, \$165; 2119 Los Angeles, Berkeley; owner, John Oakley, 2119 Los Angeles, Berkeley; contractor Elliott & Elliott, 1429 66th Ave., Oakland.

BILLBOARD, \$25; SW COR. 39th and Grove Sts., Oakland; owner and builder, Foster & Kleiser, 22nd & Market Sts., Oakland.

BILLBOARD, \$25; 3138 35th Avenue, Oakland; owner and builder, Foster & Kleiser, 22nd and Market, Oakland.

SIGN, electric, \$225; 5650 College Ave., Oakland; owner, Mount's Drug Co.; contractor, Electrical Prod. Corp., 950 30th St.

SIGN, electric, \$50; 1444 Franklin St., Oakland; owner, Chas. S. Cherry; contractor, Elec. Prod. Corp., 950 30th St.

ALTERATIONS, \$500; 1808 Telegraph Avenue, Oakland; owner R. J. Duclos, 1808 Telegraph Ave.; contractor, Van de Haighin Cabinet Works, 1249 49th Ave.

SIGN, electric, \$160; 415 15th St., Oakland; owner, Fern Hotel; contractor, Imp Elec. Sign Co., 2223 Myrtle St.

ALTERATIONS, \$360; 6205 Hayes St., Oakland; owner and contractor, S. Feldstein, 2219 21st Ave., Oakland.

ADDITION, \$150; 6040 San Pablo Ave., Oakland, owner and builder, R. Ghai, 6040 San Pablo Ave., Oakland.

BUILDING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

1.—Apartments	Offices
2.—Bonds	11.—Ice and Cold Storage Plants
3.—Churches	12.—Power Plants
4.—Factories and Warehouses	13.—Public Buildings, Fire Houses and Jails
5.—Flats	14.—Residences
6.—Garages and Service Stations	15.—Schools
7.—Federal Buildings	16.—Banks, Stores and
8.—Club Buildings	17.—Theatres
9.—Hospitals	18.—Wharves & Docks
10.—Hotels	19.—Misc. Const.
	20.—Misc. Supplies & Materials

1— APARTMENTS

Contract Awarded.
REPAIRS Cost, \$2500
SAN FRANCISCO. No. 1151 Post St.
Repair fire damage to apartments.
Owner—Alpine Realty Co., 1734 Broderick St., San Francisco.
Architect—Not Given.
Contractor—L. Salomon, 1734 Broderick St., San Francisco.

Contract Awarded.
APARTMENTS Cost, \$28,000
SAN FRANCISCO. NE Jefferson and Divisadero Streets.
Three-story and basement frame and stucco apartments (9 apts.)
Owner — Mr. and Mrs. Teglia, 3023 Franklin St., San Francisco.
Architect — Richard R. Irvine, 2048 Market St., San Francisco.
Contractor — Louis Franceschi, 100 Capra Way, San Francisco.

2— BONDS

SANTA MONICA, Los Angeles Co., Cal.—Santa Monica voters defeated a \$420,000 school bond issue at a special election held on October 24. The bonds were proposed for reconstructing earthquake damaged school buildings. Marsh, Smith & Powell, Architects' Bldg., Los Angeles, are the architects for the district.

SAN LUIS OBISPO, Cal.—San Luis Obispo will vote at the special state election, December 19, on a proposal to issue bonds in the sum of \$446,000 to finance the construction of new county buildings. The projects are: Courthouse, \$400,000; Memorial building, \$25,000, and hospital, \$21,000.

SAN FRANCISCO — San Francisco Board of Supervisors has set Nov. 7 as the date for the special election on a bond issue of \$325,000 to finance the addition to the present municipal warehouse, the building of a repair shop and garages. The work includes: (1) 60,000 sq. ft. of additional floor space for warehouse purposes; (2) Construction of a garage which will store city-owned automobiles and trucks; (3) A service and repair shop in said garage for the purpose of repairing city-owned automobiles and trucks.

The Federal Public Works Administration has approved a grant to the city of San Francisco of \$77,000 for financing the above work, contingent upon approval of the bonds. (2936)

SANTA ANA, Orange Co., Cal.—Santa Ana City Council has informally decided to include on the December 19 election ballot a proposal to issue bonds in the sum of \$70,000 for the construction of a new city hall at Third and Main Sts., Santa Ana. City proposes requesting a government loan in the amount named and a grant of \$30,000.

SAN FRANCISCO. — San Francisco Board of Supervisors has set Nov. 7 as the date for the special election on a bond issue of \$1,250,000 to finance municipal improvements in conjunction with No. 1-A Agricultural District Assn. The work includes:

(1) general exposition pavilion housing administration and service quarters and exhibit space adaptable for various exhibits and events, such as flower shows, machinery exhibitions, indoor athletic events and for school purposes where the attendance is in large classes;

(2) erection of a main arena building providing a seating capacity of approximately 12,000, designed primarily for horse show purposes but available for other exhibits, storage areas, press and broadcasting quarters;

(3) Construction of horse stall units wash racks, toilet facilities and service space and dormitories for the accommodation of help, exhibitors and organizations.

(4) Construction of a 2-story structure for the exhibition of sheep and swine and pens for the same including storage space for feed supplies and equipment, wash racks and manure disposal space;

(5) The upper floor of said structure designed primarily for the exhibition of cattle, beef and dairy stock;

(6) Construction of a harness, horse or trotting track, a grandstand providing for seating accommodations of approximately 5,000, and the necessary service facilities, fences, railings and other equipment.

The Federal Public Works Administration has approved a grant to the city of San Francisco of \$354,000 for financing the above work, contingent upon the approval of the bonds. (2938)

SAN FRANCISCO. — San Francisco Board of Supervisors has set Nov. 7 as the date for the special election of \$2,300,000 to finance the erection of a new Hall of Justice to be erected on the block bounded by Larkin, Hyde Fulton and Grove Streets, in which are to be housed the Police Department, the Public Defender, the Probation Officer, Criminal and other courts, offices and commissions, and a city prison, to be constructed architecturally in conformity with existing buildings in the Civic Center.

The Federal Public Works Administration has approved a grant to the city of San Francisco of \$666,000 for financing the above work, contingent upon approval of the bonds.

OAKLAND, Cal.—A citizens' committee will recommend to the Oakland City Council Municipal improvements to be financed by a bond issue of \$2,963,750, contingent upon a Federal Public Works Administration grant of \$596,250. The total cost of the contemplated work is \$3,560,000, and includes the following allocations:

Sewers	\$ 750,000
(Govt. aid for sewers).....	187,000
Moss Ave. Improvement.....	750,000

Library	1,385,000
(Govt. aid for library).....	240,000
Recreational center and swimming pool	375,000
(Govt. aid for center).....	93,750
Stadium	300,000
(Govt. aid for stadium).....	75,000

3— CHURCHES

COMPTON, Los Angeles Co., Cal.—Rev. C. V. Pugh, 718 San Marcus St., Compton, will have charge of construction of a church building at the northwest corner of San Vincente and Castlegate Sts., near Compton, for the Church of the Latter Day Saints. Plans prepared by Architect Geo. D. Riddle, 2826 Cedar Ave., Long Beach. Plans call for a rectory hall, 77x32 ft.; chapel, 78-30 ft.; two patios, 40x30 ft.; eight classrooms, kitchen and two offices. Construction will be frame and stucco. Cost, \$20,000.

Planned.
CHURCH Cost, \$—
KNIGHTS LANDING, Yolo Co., Calif. Community church.
Owner—Knights Landing Community Church (Rev. C. C. Black, pastor).
Architect—Not Given.

4— FACTORIES & WAREHOUSES

Sub-Contracts Awarded.
ADDITION Cost, \$37,000
OAKLAND, Alameda Co., Cal. East 14th St. and 57th Ave.
One-story addition to factory on fill (concrete floors, Kalman floor finish, steel frame, concrete foundations, wood roof, continuous steel sash, etc.)
Owner—Safeway Stores, 4th and Jackson Sts., Oakland.
Engineer—Jesse Rosenwald, 535 Market St., San Francisco, consulting structural engineer.
Contractor—K. E. Parker, 135 South Park St., San Francisco.
Grading—J. Catucci, 1212 18th Ave., Oakland.
Reinforcing Steel—Gunn, Carle & Co., 20 Potrero Ave., San Francisco.
Roofing—Malott & Peterson, 20th and Harrison Sts., San Francisco.

As previously reported, structural steel awarded to Herrick Iron Works, 18th and Campbell Streets, Oakland; plumbing to C. T. Doell, 467 21st St., Oakland; electric to Spencer Elec. Co., 2059 Webster St., Oakland; steel sash to Detroit Steel Products Co., 63rd & Doyle Sts., Oakland.

Sub-Contracts Awarded.
BREWERY Cost, \$750,000
SAN FRANCISCO. (Paul Tract) Bayshore Ave. and Third St.
Group of buildings for brewery, steel and concrete construction.
Owner—General Brewing Corp. (C. W. Ahrens, director).
Architect—Fred. H. Meyer, 525 Market Street.
Engineer—C. H. Snyder, 251 Kearny Street.
Contractor—Cahill Bros., 206 Sansome Street.
Structural Steel—Western Iron Works, 141 Beale Street.
Reinforcing Steel—Soule Steel Co., 1750 Army Street.
Lumber—J. H. McCallum, 748 Bryant Street.
Steel Tanks—Western Pipe & Steel Co., 441 Market St.

Insulation contract will be awarded shortly. Bids are now being received on the refrigeration.

Bids Opening Date Postponed.
BREWERY Cost, \$50,000
PORT ORCHARD, Washington.
 Six-story heavy frame construction
 brewery.
 Owner—Kitsop Brewing Assn., L. E.
 Woolfolk, Port Orchard, secretary.
 Architect—Carl Siebrand, 5016 E 21st
 Ave. NE, Seattle.

Bids were scheduled to be opened
 Oct. 27 and the date has been post-
 poned for about ten days.

Plans and specifications available
 from L. E. Woolfolk, deputy Kitsop
 county treasurer and secretary, upon
 deposit of \$25.00. Bids are being tak-
 en on a general contract with separ-
 ate bids for heating, plumbing, wir-
 ing, painting, insulation work and
 equipment.

Planned.
BREWERY Cost, \$—
BAKERSFIELD, Kern Co., Calif. T
 St. South, Truxtun Ave.
 Construct new brewery.
 Owner—Bakersfield Brewery (7 Tay-
 lor Arcade Bldg., 1660 Chester
 Ave., Bakersfield).
 Architect—Not Given.

Brewery Engineers—Biner Bros., as-
 sociated.

Contract Awarded.
ADDITION Cost, \$800,000
OLEUM, Contra Costa Co., Cal.
 Addition to lubricating plant.
 Owner—Union Oil Co., Mills Bldg.,
 San Francisco.

Plans by Engineering Dept. of Owner.
 Contractor—C. C. Moore & Co., 450
 Mission St., San Francisco.

As previously reported, stiffs award-
 ed to Consolidated Steel Corp., Balboa
 Bldg., S. F.; grading to U. B. Lee,
 1059 Carpenter St., San Leandro;
 tanks to Berkeley Constr. Co., Second
 and Camelia Sts., Berkeley.

Roy Heise, Oleum is in charge of
 construction.

Contract Awarded.
SILOS Cost, \$—
DAVENPORT, Santa Cruz Co., Cal.
 Four reinforced concrete silos.
 Owner—Santa Cruz Portland Cement
 Co., Crocker Bldg., San Francisco.
 Plans by Engineering Dept. of Owner.
 Contractor—Dinwiddie Construction
 Co., Crocker Bldg., San Francisco.
Reinforcing Steel—Soule Steel Co.,
 1750 Army St., San Francisco.

Prospective Bidders.
WAREHOUSE Cost, \$—
HAMILTON FIELD, Marin Co., Calif.
 One-story reinforced concrete quar-
 termaster warehouse (160x65).
 Owner—United States Government.
 Plans by Constructing Quartermaster,
 Hamilton Field.

Following have procured plans. Bids
 open Nov. 10:

R. F. McCune, 726 45th Ave., San
 Francisco.

H. H. Robertson, 3004 F St., Sacra-
 mento.

Eddy Electric Co., 309 E Weber St.,
 Stockton.

Carl N. Swensen, 355 Stockton Ave.,
 San Jose.

O. Monson, 475 6th St., San Fran-
 cisco.

Frank J. Reilly, 6350 Fulton Street,
 San Francisco.

William Spiwock, Hobart Bldg., San
 Francisco.

Leo Epp, 4745 Geary St., San Fran-
 cisco.

W. Olsen & Son, Petaluma.
 Pacific Mfg. Co., Santa Clara.
 Schuler & McDonald, 1723 Webster
 St., Oakland.
 Azevedo & Sarmiento, 920 O Street,
 Sacramento.

J. A. Fazio, 402 Castro St., Oakland.
 Contractor—E. E. Dias, Centerville
 E. H. Mellencamp.
 San Francisco Const. Co., 3159 Fill-
 more St., San Francisco.

Baker Ice Machine Co., 2459 E 14th
 St., Oakland.

Robt. E. McKee, 108 W 6th St., Los
 Angeles.

Soule Steel Co., 1750 Army St., San
 Francisco.

Fred. W. Snook, 596 Clay St., San
 Francisco.

C. J. Waterhouse, 55 New Montgom-
 ery St., San Francisco.

Contract Awarded.
FACTORY Cost, \$—
NILES, Alameda Co., Cal. Fabrico.
 One-story frame and corrugated iron
 factory.
 Owner—Kraftite Co., Fabrico, Niles
 (Clay Myers, Supt.)
 Plans by Engr. Dept. of Owner.
 Road, Niles.

To Be Done By Day's Work.
SHOP Cost, \$6000
OAKLAND, Alameda Co., Calif. 5295
 College Avenue.

One-story brick cabinet shop.
 Owner—W. P. Gilbert, 5301 College
 Ave., Oakland.
 Architect—Not Given.

Contracts Awarded.
MILK FLANT Cost, \$10,000
SAN JOSE, Santa Clara Co., Cal. 400
 block east of Empire Street.

One-story brick milk processing plant
 (bottling room, cooling room, bot-
 tle washing room, etc.)
 Owner—Golden State Co., Ltd., 400 N
 First St., San Jose.

Designer—Engineering Dept. of Owner
 Mgr. of Const.—E. Perkins, % Owner
Concrete—M. Newgren, premises.

Brick—S. F. Prouty, 918 Michigan Ave.
 San Jose.

Steel—Golden Gate Iron Works, 1541
 Howard St., San Francisco.

Bids are being received on other
 portions of the work.
 (2724) 1st report Sept. 25; 3rd, Oct.
 19, 1933.

COCO SOLO, Canal Zone.—Follow-
 ing have procured plans for the pur-
 pose of submitting bids to the Bu-
 reau of Yards and Docks, Navy De-
 partment, Washington, D. C., on Nov.
 22 in connection with the construction
 of a hangar of structural steel fram-
 ing supported by concrete footings on
 wood piles and having steel windows
 and doors, insulated steel roof deck
 with built-up roofing, corrugated as-
 bestos siding, and electrical work; and
 pavement and storm drains, all at the
 Naval Fleet Air Base, Coco Solo, C.
 Z. Spec. No. 7351:

Wm. MacDonald Const. Co., Saint
 Louis, Mo.

H. H. Robertson Co., 2000 Grant
 Bldg., Pittsburgh, Pa.

McClintic-Marshall Corp., Conrad
 Bldg., 25 Broadway, New York City.

Detroit Steel Products Co., 712 Barr
 Bldg., Washington, D. C.

Construction Supplies Co., 500 Fifth
 Ave., New York City.

J. S. Thorne Co., 20th and Alle-
 ghaney Ave., Philadelphia.

Virginia Bridge and Iron Works,
 Drawer 2201, Roanoke, Va.

Sigfried-Olson Shipping Co., Robert
 Dollar Bldg., San Francisco.

Hartenstein-Zane Co., Inc., 225
 Broadway, New York City.

Bids Wanted—To Close November 6,
 2 P. M.
MAINTENANCE STA., ETC. \$—
SAN RAFAEL, Marin Co., Calif. 1.4
 miles south.

Maintenance station (work involves
 truck shelter, 30x80, combination
 woodshed and garage, gasoline and
 oil house, septic tank and leaching
 field, loading platform, station
 sign, electrical distributing system
 water and sewer connections).
 Owner—State of California.
 Plans by Dept. of Public Works, State
 Bldg., San Francisco.

Excavation, concrete, masonry, car-
 pentry, mill work, sheet metal, steel
 sash, painting, glazing, plumbing and
 electrical installations included. Plans
 and specifications available from De-
 partment of Public Works, State Bldg.
 San Francisco, upon deposit of \$25.

Sub-Contracts Awarded.
ADDITION Cost, \$37,000
OAKLAND, Alameda Co., Cal. East
 14th St. and 57th Ave.

One-story addition to factory on fill
 (concrete floors, Kahnan floor fin-
 ish, steel frame, concrete founda-
 tions, wood roof, continuous steel
 sash, etc.)
 Owner—Safeway Stores, 4th and Jack-
 son Sts., Oakland.

Engineer—Jesse Rosenwald, 535 Mar-
 ket St., San Francisco, consulting
 structural engineer.

Contractor—K. E. Parker, 135 South
 Park St., San Francisco.

Structural Steel—Herrick Iron Works,
 18th and Campbell Sts., Oakland.

Plumbing—Carl T. Doell, 467 21st St.,
 Oakland.

Electric—Spencer Electric Co., 2059
 Webster St., Oakland.

Steel Sash—Detroit Steel Products Co.
 63rd and Doyle Sts., Oakland.

Owner Taking Bids.
SHOP Cost, \$8000
OAKLAND, Alameda Co., Cal. No.
 5295 College Avenue.

One-story reinforced concrete cabinet
 shop, 3800 square feet (composi-
 tion roof).
 Owner—W. P. Gilbert, 5301 College
 Ave., Oakland.

Plans by Owner.

Sub-Contracts Awarded.
BREWERY Cost, \$20,495
FRESNO, Fresno Co., Cal. NE Hedges
 and Blackstone Ave.

One two-and three-story steel and re-
 inforced concrete brewery (80x110
 feet), malt cooling apparatus, cap-
 acity of 100 barrels of beer daily,
 bottling plant, etc.

Owner—Emilio Giometti, 1480 Black-
 stone Ave., Fresno.

Architect—W. D. Coates, Rowell Bldg.
 Fresno.

Contractor—Joe La Forti and E. J.
 Heffner, 252 N-Broadway, Fresno.

Structural Steel—Kyle & Co., Fresno.
Reinforcing Steel—Soule Steel Co.,
 Los Angeles.

Lumber—Swastika Lumber Company,
 Fresno.

Electric Wiring—A. A. Dorffmeyer,
 Fresno.

Cement work is being done by gen-
 eral contractors.

Planned.
WINERY Cost, \$—
ROEVILLE, Placer Co., Cal. Yo-
 semite and Tahoe Aves.

Remodel building for winery.
 Owner—Livoti Bros., Tahoe St., Rose-
 ville.

Architect—Not Given.

Contract Awarded.
SERVIC STATION Cost \$2550
SACRAMENTO, Sacramento Co., Cal.
 E Stockton Blvd. and T St.
 Service station and facilities.
 Owner—Associated Oil Co., 79 New

6— GARAGES & SERVICE STATIONS

Contract Awarded.
SERVICE STATION, ETC. Cost, \$3000
OAKLAND, Alameda Co., Calif. 5634
 Shattuck Avenue.

One-story brick service station and 1-
 story brick comfort station.
 Owner—Bank of America, Broadway
 and 12th Sts., Oakland.

Architect—Not Given.
 Contractor—John Pestana, 1061 71st
 Ave., Oakland.

Contract Awarded.
SERVIC STATION Cost \$2550
SACRAMENTO, Sacramento Co., Cal.
 E Stockton Blvd. and T St.
 Service station and facilities.
 Owner—Associated Oil Co., 79 New

Montgomery St., San Francisco. Plans by Engineering Dept. of Owner. Contractor — W. E. Truesdale, 2116 H St., Sacramento.

SAN RAFAEL, Marin Co., Cal.—Frank J. Reilly, 6350 Fulton St., San Francisco, at \$16,341 awarded contract by Constructing Quartermaster, Hamilton Field, to construct one-story concrete garage building at Hamilton Field.

7—FEDERAL BUILDING

CRESCENT CITY, Del Norte Co., Cal.—R. M. Thompson, Crescent City, at \$996.35, awarded contract by Public Works Officer, U. S. Navy Yard, Mare Island, for painting and repairs to buildings at the U. S. Naval Radio Direction Finder Station, Point St. George, Crescent City. Specification No. 7388.

PEARL HARBOR, T. H.—Following have procured plans for the purpose of submitting bids to the Bureau of Yards and Docks, Navy Department, Washington, D. C., on Nov. 29, to construct extension of storehouse at the Naval Fleet Air Base, Pearl Harbor. The work includes concrete, tile, steel and iron, and roofing sheet metal work, steel windows, steel rolling doors, stucco, plastering, carpentry, plumbing, sprinkler and electrical systems. Spec. No. 7085.

Joseph Lippincott, Los Angeles, Belmont Iron Works, Philadelphia, Pennsylvania.

Wm. MacDonald Constr. Co., St. Louis, Mo. (3829 W. Pine St.)

U. S. Steel Products Co., 30 Church St., New York City.

Detroit Steel Products Co., Barr Bldg., Washington, D. C.

W. P. Thurston Co., P. O. Box 2089, Richmond, Va.

Bethlehem Fabricators, Inc., Bethlehem, Pa. (8th and Lehigh Ave.)

Russel & Erwin, New Britain, Conn. S. J. Thorn Co., 20th and Allegheny Aves., Philadelphia, Pa.

Hawaiian Contracting Co., Honolulu.

DENVER, Colo.—Until November 17, 2 p. m., bids will be received by Treasury Department, Procurement Division, Public Works Branch, Washington, D. C., to construct extension to lookout system in the U. S. Post Office and Courthouse at Denver, Colorado. Plans and specifications available from above office and from the Custodian, at the building.

MARE ISLAND, Cal.—San Francisco Const. Co., 3159 Fillmore St., San Francisco, awarded the sheet metal contract to Guilfooy Cornice Works, 1234 Howard St., San Francisco, and the painting to R. P. Paoli, 3159 Fillmore St., San Francisco, in connection with the construction of the new tin roof and gutters, wood cornice, wood framing, plaster ceiling and other work for Marine Barracks Bldg. No. M-53 at Mare Island; Spec. No. 7382.

FORT MACARTHUR, Los Angeles Co., Calif.—As previously reported, Bannister-Field Co., 4101 Goodwin Avenue, Los Angeles, submitted low bid to Constructing Quartermaster, Fort MacArthur, at \$110,264, for construction of eight double sets of non-commissioned officers' quarters at Fort MacArthur. Buildings will be hollow tile structures, each 29x53 feet, concrete foundations, stucco exteriors, tile roofing, fireplaces, copper gutters and downspouts, dampproofing materials, tile work, hot water heating system, etc. Bids follow:

Bannister-Field Co.	\$110,264
Myers Brothers	110,912
Jones Brothers	114,839

Kristenson, Johnson, Dahlquist	115,880
L. A. Geisler	118,200
Engstrum Const. Co.	121,050
Harry Friedman	121,500
Johnson & Hansen	122,184
Geo. Hess	122,431
Herbert M. Baruch Corp.	122,435
C. Haverlandt	122,800
Pacific System Homes	123,497
John Strona	124,397
O. H. Strauser	124,800
L. A. Const. Co.	125,000
R. E. Campbell	126,000
Cresmer Mfg. Co.	127,680
Robt. McKee	127,750
C. Bongiovanni	127,776
H. Mayson	127,960
Andy Sordal	130,700
Easton & esser	131,200
J. E. Burrell	132,955
J. F. Kohler	133,880
Weymouth-Crowell Co.	134,136

KLAMATH FALLS, Ore.—Newman Bros., McMinnville, Oregon, at \$1,425 submitted low bid to Treasury Department to paint plaster in the U. S. post office at Klamath Falls. Following bids received:

Newman Bros., McMinnville	\$1,425
Adams Painting Co., Chicago	2,000
Raphael-Zelinski Co., S. F.	2,112
Clinton Landis, Klamath Falls	2,469
D. L. Meyers Co., Medford	2,650
Browne's Paint Store, Klamath Falls	3,050

SUNNYVALE, Santa Clara Co., Cal.—Theodore Johanns, 2020 15th St., San Francisco, at \$16,265 awarded contract by 12th Naval District, San Francisco for the construction of office, shop and quarters for the S.S.S. Macon, in the airship hangar, at Sunnyvale. Spec. No. 7466.

Work includes concrete curbing, steel and iron work, metal and glass partitions, wire mesh partitions, steel doors, steam heating, electrical work and painting.

TECATE, San Diego Co., Calif.—Associated Constructors, Inc., 1226 S La Brea Ave., Los Angeles, at \$48,728 awarded contract by Treasury Department to construct U. S. Inspection station at Tecate. Will be a 2-story, L-shaped structure, extreme dimensions, 133x65 feet; concrete foundations, brick walls, tile and composition roof, stucco exterior, interior tile work, one-pipe steam heating system, etc. The garage will be a brick structure and the dwellings will be wood frame and stucco with tile roofs.

PEARL HARBOR, T. H.—Following have procured plans for the purpose of submitting bids to the Bureau of Yards and Docks, Navy Dept., Washington, D. C., on Nov. 29 in connection with the construction of a two-story building at the Navy Yard, Pearl Harbor. Work includes concrete construction, hollow tile work, steel and iron work, built-up roofing and sheet metal work, steel windows, pressed steel, steel rolling, and metal covered doors, plastering, slate and tile work, 2-ton crane, freight elevator, wet pipe sprinkler system, and plumbing and electrical systems. Spec. No. 7074:

U. S. Steel Products, New York City
Wm. MacDonald Const. Co., Saint Louis, Mo.
J. S. Thorn Co., Philadelphia.
Blake-Palm Elec. Co., Washington, D. C.

W. P. Thurston Co., Richmond, Va.
Honolulu Iron Works, New York City.

Hawaiian Contracting Co., Honolulu. (889) 1st report March 9; 11th, Oct. 20, 1933.

PEARL HARBOR, T. H.—Following have procured plans for the purpose of submitting bids to the Bureau of Yards and Docks, Washington, D. C.,

on Nov. 29 for electric freight elevator and metal covered hoistway doors at the Naval Submarine Base, Pearl Harbor. Spec. 7260:

A. Kieckhefer Elevator Co., 1032 W. St. Paul Ave., Milwaukee.

Peter Clark, Inc., 534 W. 30th St., New York City.

Blake Palm Electric Corp., 1915 I St., N. W., Washington, D. C.

W. P. Thurston Co., Richmond, Va.

Otis Elevator Co., Washington, D. C.

Hawaiian Contracting Co., Honolulu (2903) 1st report Oct. 25, 1933.

NAMPA, Idaho—Elie Schwalbe Nampa, Idaho, at \$487.65 submitted low bid to Treasury Department for painting plaster in U. S. Post Office at Nampa. Only other bid was submitted by Guiry Bros., Denver, Colo., at \$788.

PEARL HARBOR, T. H.—Following are additional contractors who have procured plans for the purpose of submitting bids to the Bureau of Yards & Docks, Navy Dept., Washington, D. C., on Nov. 15 in connection with the construction of an extension to foundry buildings at Pearl Harbor. Estimated cost \$107,500. Spec. No. 7094:

Bethlehem Fabricators, Inc., Eighth and Liberty Avenues, Bethlehem, Pa.

McClintic-Marshall Corp., Bethlehem, Pa.

The Ingalls Iron Works Co., P. O. Box 2632 Birmingham, Ala.

Shaw Box Crane & Hoist Co., Inc., Chrysler Bldg., New York City.

(2907) 1st report Sept. 24; 3rd, Oct. 25, 1933.

SAN FRANCISCO—Until Nov. 6, 10 A. M., bids will be received by Constructing Quartermaster, Fort Mason, to furnish and install linoleum in Officers' Quarters at Fort Mason. Plans and specifications available from above office.

SOUTH SAN FRANCISCO, San Mateo Co., Cal.—Following have procured plans for the purpose of submitting bids to the Public Works Officer, Mare Island Navy Yard on November 14 in connection with re-roofing Building S-3 and the construction of a new penthouse on and other alterations and repairs to Building S-8 at the Navy Radio Station, South San Francisco. Spec. No. 7390:

Theo. Johanns, 2020 15th Street, San Francisco.

San Francisco Constr. Co., 3159 Fillmore St., San Francisco.

J. M. Peters, 797 35th St., San Francisco.

Joe Piasecke, 345 Halght St., San Francisco.

Louis C. Dunn, Monadnock Bldg., San Francisco.

SAN RAFAEL, Marin Co., Cal.—Frank J. Reilly, 6350 Fulton St., San Francisco, at \$38,230 awarded contract by Constructing Quartermaster, Hamilton Field, to construct one and two-story concrete and tile guard house and fire station, including firemen's dormitory, fire truck room, ambulance room and cell room.

FORT MACARTHUR, Los Angeles Co., Cal.—Bannister Field Co., 4101 Goodwin Ave., Los Angeles, at \$110,264 submitted low bid to the Constructing Quartermaster, Fort MacArthur, to construct eight double sets of non-commissioned officers' quarters at Fort MacArthur. Complete bids will be published shortly.

SANTA MONICA, Los Angeles Co., Cal.—Architects Henry Carlton Newton and Robert Dennis Murray, 502 Architects' Building, Los Angeles, have received approval of 40 per cent plans and have been authorized by the

Treasury Department to complete working drawings for the United States post office building to be erected at the northwest corner of Fifth St. and Arizona Ave., Santa Monica. Ralph E. Phillips is the heating engineer and C. J. Derriek is the structural engineer. Cost, \$225,000.

MARCH FIELD, Riverside, Cal.—Until 10 a. m., November 10, bids will be received by the Constructing Quartermaster, March Field, for the construction of a radio building at March Field. Plans may be obtained from March Field upon deposit of a certified check for \$25. Appropriation for the building is \$10,000.

MARCH FIELD, Riverside, Cal.—Cresmer Mfg. Co., 2601 Third St., Riverside, awarded contract by War Department, at \$19,480, for construction of three sets of non-commissioned officers' quarters at March Field. The buildings will be one-story structures with hollow concrete walls and tile roofing.

MARCH FIELD, Riverside, Cal.—Heywood-Wakefield Co., 801 E. Seventh St., Los Angeles, awarded contract by War Department, at \$3396.24, for furnishing and installing opera chairs in the War Department theater at March Field.

MARE ISLAND, Cal.—The following have procured plans for the purpose of submitting bids to Public Works Officer, Mare Island Navy Yard on Nov. 23 in connection with the construction of eight smokeless powder magazines, relocation of quarters A-51 at the Ammunition Depot, Navy Yard, Mare Island. Spec. No. 7343:

- Healy-Tibbitts Const. Co., 64 Pine St., San Francisco.
- Pacific Coast Steel Co., 20th and Illinois Sts., San Francisco.
- San Francisco Const. Co., 3159 Fillmore St., San Francisco.
- MacDonald & Kahn, Financial Center Bldg., San Francisco.
- K. E. Parker Co., 135 South Park, San Francisco.
- Fred. J. Early, 369 Pine St., San Francisco.
- Barrett & Hilp, 918 Harrison Street, San Francisco.
- Wm. Spivock, Hobart Building, San Francisco.
- Leroy Building Service, 165 Jessie St., San Francisco.
- Clinton Const. Co., 923 Folsom St., San Francisco.
- Carl N. Swenson, 355 Stockton Ave., San Jose.

FORT BLISS, Texas — Robert E. McKee, 1916 Texas St., El Paso Tex., awarded contract by War Department at \$132,400 for construction of ten sets of officers' quarters at Fort Bliss.

FORT BLISS, Texas—Ramey Bros., 704 Mills Bldg., El Paso, Texas, awarded contract by War Department at \$87,274 for construction of eleven sets of non-commissioned officers' quarters at Fort Bliss.

Additional Prospective Bidders.
FEDERAL BUILDING
 Total Cost, \$2,689,000
SAN FRANCISCO. Civic Center.
 Six-story and basement reinf. concrete Federal office building, granite exterior, terra cotta court lining, promenade, terrazzo and tile flooring, mastic tile floors in offices, steam heating, seven elevators.
 Owner—United States Government.
 Architect—Arthur Brown, Jr., 251 Kearny Street.
 Mechanical Engineer—Leland & Haley 58 Sutter Street.
 Structural Engineer—C. H. Snyder, 251 Kearny Street.
 Following are additional contractors

- who have procured plans. Bids open Nov. 7:
- Seims-Helmets, Inc., Guardian Bldg. St. Paul, Minn.
- Consolidated Engr. Co., Inc., St. Paul and Franklin Sts., Baltimore.
- Jas. McWilliams, Inc., 19 E 47th St. New York City.
- K. E. Parker Co., 135 South Park St., San Francisco.

MASONRY CONTRACT AWARDED
BREMERTON, Wash.—K. E. Parker 135 South Park St., San Francisco, awarded masonry contract to Hock & Hoffmeyer, 666 Mission St., San Francisco, in connection with the construction of the machine and electric shop building under Spec. No. 7338. Structure will be 805 ft. long, 251 feet wide and 95 feet high.
 As previously reported, structural steel awarded to McClintic-Marshall Co., 2050 Bryant St., San Francisco; steel sash to Detroit Steel Products Co., 111 Sutter St., San Francisco; glass to Habernicht & Howlett Co., 529 Clay St., San Francisco; plumbing to Scott Co., 243 Minna St., San Francisco.
 (2641) 1st report Sept. 8; 7th, Oct. 20, 1933.

SAN PEDRO, Los Angeles Co.—As previously reported, Chas. T. Montague, 1144 S Grand Ave., Los Angeles, submitted the low supplemental bid to the Treasury Department October 25 at \$65,500 for construction of the U. S. Quarantine and Detention Station on Reservation Point, San Pedro.
 Complete bids follow:
 Charles Montague, \$65,500; (1) alternate, \$12,823.
 Robt. E. McKee, \$67,750; (1) \$16,500.
 H. Mayson, \$67,900; (1) \$15,700.
 H. M. Baruch Corp., \$69,673; (1) \$25,000.
 John Strona, \$69,721; (1) \$19,218.
 Eric Lange Const. Co., \$73,000; (1) \$15,300.
 J. F. Kobler, \$75,488; (1) \$17,642.
 Associated Constructors, \$80,503; (1) \$14,900.
 (2823) 1st report Oct. 16; 3rd, Oct. 26, 1933.

Contract Awarded.
BARRACKS BLDGS. Cost, \$—
FORT LEWIS, Washington.
 Two 2-company barracks buildings (to house 100 men each).
 Owner—United States Government.
 Plans by Constructing Quartermaster Office, Fort Lewis (Capt. R. A. Blair, Quartermaster).
 Contractor — MacDonald Constr. Co., Tacoma.
 Following bids received:
 (1) deduct for omission of kitchen;
 (2) deduct for omitting storm water drainage;
 (3) deduct for omitting subsoil drainage and substitute.

- MacDonald Const. Co. \$347,527
- (1) 25,000
- (2) 550
- (3) 300
- Western Const. Co., Seattle.....\$373,900
- (1) 24,000
- (2) 1,100
- (3) 330
- A. F. Mowatt, Seattle.....\$375,970
- (1) 25,000
- (2) 1,145
- (3) 604
- Henrikson-Alstrom Const. Co., Seattle\$382,000
- (1) 25,000
- (2) 1,150
- (3) 600
- Eivind Anderson, Tacoma.....\$382,000
- (1) 12,000
- (2) 890
- (3) 260
- H. F. Hoffman\$399,200
- (1) 24,664
- (2) 1,150
- (3) 550

- West Coast Const. Co. Seattle.....\$359,450
- (1) 25,164
- (2) 599
- (3) 250
- Peder Gjarde, Seattle\$415,986
- (1) 26,000
- (2) 650
- (3) 809
- Sheble Const. Co.\$419,800
- (1) 28,000
- (2) 1,600
- (3) 600
- Albertson & Cornell Bros., Tacoma\$420,066
- (1) 25,688
- (2) 1,100
- (3) 604
- Harry Boyer & Sons\$429,500
- (1) 26,000
- (2) 588
- (3) 275

SAN DIEGO, Cal.—J. A. Hunt, 4123 44th St., San Diego, submitted low bid to Eleventh Naval District and awarded contract at \$2987 for improvements to boxing arena at the U. S. Naval Training Station, San Diego. Other bids were: G. R. Abbott & Son, \$3296; W. F. Wahrenberger, \$3420; M. H. Golden, \$3577; Harry Muns, \$3742

HAMILTON FIELD, Marin Co., Cal.—Following bids received by the Constructing Quartermaster, Hamilton Field, to construct one-story concrete maintenance building and 1 quartermaster salvage warehouse at Hamilton Field:
 (1) work complete;
 (2) if one or two bays are added or omitted, add or deduct;
 (3) if alternate for built-up roofing on wood deck is used in place of A. P. M. roofing, deduct;
 (4) if exterior stucco is omitted from building, deduct.
 Carl N. Swenson, 355 Stockton Ave., San Jose(1) \$30,284
 (2) 1,283
 (3) 50
 (4) 759
 San Francisco Const. Co.(1) \$20,977
 (2) 916
 (3) 1,323
 (4) 315
 F. J. Reilly, San Francisco.....(1) \$21,431
 (2) 1,700
 (3) 500
 (4) 300
 William Spivock, S. F.(1) \$33,424
 (2) 1,500
 (3) 250
 (4) 230
 Leibert & Trobock, S. F.(1) \$34,970
 (2) 1,550
 (3) 140
 (4) 635
 Monson Bros., S. F.(1) \$36,234
 (2) 1,800
 (3) 100
 (4) 150
 Leo Epp, San Francisco.....(1) \$36,787
 (2) 1,850
 (3) 700
 (4)

WASHINGTON, D. C.—Public Health Service, Treasury Department will proceed shortly with the construction of buildings at the following stations: San Diego, quarantine station, \$36,450; San Francisco, quarantine station, \$39,000, and plague laboratories, \$12,200; Astoria, Ore., quarantine station, \$4916.

PEARL HARBOR, T. H.—Until November 29, 11 A. M., bids will be received by Public Works Office, 14th Naval District, Navy Yard, Pearl Harbor, T. H., for an arch type magazine at the Naval Fleet Air Base, Pearl Harbor, T. H.; Spec. No. 7084. Work includes concrete, steel, bronze work; membrane waterproofing and plaster. Plans and specifications are available from above office and from Commandant, 12th Naval District, 100 Harrison

St., San Francisco, upon deposit of \$10.00.

SAN PEDRO, Los Angeles Co., Cal.—Willard Lutz, 1630 Lyman Place, Los Angeles, at \$18,900 submitted low bid to Supt. of Lighthouses, San Francisco, to construct one-story combination warehouse and shop building, 62x102 feet with reinforced concrete exterior walls, hollow tile partitions, structural steel roof trusses. It is to be erected on the west or channel side of the U. S. Lighthouse Reservation, Los Angeles Harbor, San Pedro. Following bids received:

Willard Lutz, Los Angeles.....	\$18,900
Chas. Dorfman, Los Angeles.....	18,940
Harry J. Miller, Los Angeles.....	19,183
Stanton-Reed Co., Los Angeles	19,272
C. Bongnovanni, Hollywood.....	19,499
Milton Shedd, Los Angeles.....	19,970
with hollow metal doors.....	20,840
George Mittry, Los Angeles.....	19,978
C. Haverlandt, Long Beach.....	20,425
Shannahan Bros., Inc., L. A.	20,660
William J. Esser, Los Angeles..	20,700
J. E. Burrell, Long Beach.....	20,700
H. A. Nichols, Los Angeles.....	20,990
W. H. McAllister, San Pedro.....	20,944
Andy Sordal, Long Beach.....	21,000
Kristen, Johnson & Dahlquist Los Angeles	21,054
John Strona, Pomona	21,788
W. E. Allen, Long Beach.....	21,797
H. Mayson, Los Angeles.....	22,000
Jones Bros., Beverly Hills.....	22,500
Gene B. Foster, Inc., L. A.....	24,252
Johnson & Hansen, Long Beach	24,600
Theo. A. Beyer Corp., L. A.....	24,809
Contracting Engineers, Inc., Los Angeles	24,990
Odmark & Son, Long Beach....	28,000

SUNNYVALE, Santa Clara Co., Cal.—Until Nov. 8, 11 A. M., bids will be received by Public Works Officer, 12th Naval District, 100 Harrison St., San Francisco, for service and housing facilities for flood lights for landing fields at the Naval Air Station, Sunnyvale; Spec. No. 7250. Work includes two two-story structures with concrete foundations, frame superstructures, including steel, iron, and bronze work, sheet metal work, stucco built-up roofing, plastering, aluminum rolling doors, carpentry and joinery, electrical work and installation of flood lights and their appliances and finishing. Plans and specifications available from above office upon deposit of \$5.00.

MERCED, Calif.—Bostwick - Goodell Co., at \$464, submitted low bid to the Treasury Department to furnish 28 Venetian blinds in the Merced post office. J. G. Wilson Co., at \$506.92 submitted second low bid and Burlington Venetian Blind Co. at \$510.00 were third low. Project No. 1588.

SEATTLE, Wash.—Until Nov. 20, 2 P. M., bids will be received by Treasury Department, Procurement Division, Public Works Branch, Washington, D. C., to furnish and install metal shelving and counters in the U. S. Federal Office Building at Seattle. Plans and specifications available from Custodian at the building or from the Treasury Dept., Washington, D. C.

8—CLUB BUILDINGS

Being Done By Day's Work.
CLUBHOUSE Cost, \$1500
MODESTO, Stanislaus Co., Cal. Municipal Golf Links.
One-story clubhouse (20x40 ft.) cement terrace, etc.
Owner—City of Modesto.
Engineer—Frank J. Rossi, Modesto.
Funds in the amount of \$1500 have been appropriated.

WATSONVILLE, Santa Cruz Co., Cal.—Geo. Hedrick, Jr., Watsonville, awarded contract by Watsonville Wo-

man's Club for painting club house in Watsonville. Granite Const. Co., Watsonville, will construct new drive entrance and landscaping will be done by H. A. Hyde, Watsonville.

9—HOSPITALS

LOS ANGELES, Cal.—Until 2 P. M., Nov. 20, bids will be received by the Los Angeles county supervisors for furnishing steel film storage cabinets, steel film storage shelving, steel counters in visitors' building, and steel shelving in vault and linen storage room at the General Hospital, 1100 Mission Road. Maine B. Beatty, 501 Hall of Records, clerk of the board.

Contract Awarded.
ALTERATIONS \$1500
SAN FRANCISCO. Geary Street, bet. Fifth and Sixth Aves.
Alterations to brick hospital.
Owner—French Hospital, Premises.
Architect—Not Given.
Contractor—E. Hogberg, 666 Mission St., San Francisco.

UKIAH, Mendocino Co., Cal.—A \$1,300,000 plan for the Mendocino State Hospital is now being contemplated. Funds to finance construction will be sought from the Reconstruction Finance Corporation. Budget submitted includes the following improvements:
Custodial building for criminal insane patients, to cost \$260,000; ward unit for aged and infirm women, cost \$190,000; four ward buildings for patients, \$320,000; enlarged receiving ward for patients, \$65,000; three cottages for physicians, \$30,000; guest cottage, \$15,000; cottage for chief engineer, \$10,000; enlarged nurses' home \$125,000; quarters of clerical employes \$60,000; garage and repair shop for state cars, \$15,000; enlarged boiler room and new boilers, \$65,000; new bakery, \$25,000; refrigeration plant, \$25,000; farm buildings, \$50,000; addition to water system, \$25,000; roads and grounds, \$10,000; addition to sewage plant, \$10,000.

SAN DIEGO, Cal.—San Diego County Supervisors have selected forty acres of land between Flinn Springs and Alpine as the site of the county's new \$300,000 tuberculosis hospital, to be built if funds are voted at the special election to be held December 19.

Plans To Be Prepared.
INFIRMARY Cost, \$30,000
HANFORD, Kings Co., Cal.
Infirmary building and addition to isolation buildings; Superintendent's home, steel tank and water system.

Owner—County of Kings.
Architect—Ernest J. Kump, Rowell Bldg., Fresno.

A meeting will be held on November 7 to prepare the program with a view of obtaining a NRA loan from the government.

This project was previously reported to be located in Bakersfield, which was in error.

Preparing Plans.
CHILDREN'S HOME Cost, \$—
INGLEWOOD, Los Angeles Co., Cal. 77th St. and Victoria Avenue.
First unit of children's home.
Owner—Baptist Denomination of Southern California.
Architect—Marsh, Smith & Powell, 816 W 5th St., Los Angeles.

MARYSVILLE, Yuba Co., Cal.—Yuba County will vote bonds in the amount of \$75,000 on December 19 at the special state election to finance construction of the modern hospital quarters in Marysville. The government's contribution would be approximately \$20,000.

FORT STANTON, New Mexico.—Following have procured plans for the purpose of submitting bids to the Treasury Department on November 20, in connection with the construction of the hospital buildings, nurses' quarters, double houses for medical officers, power plant and laundry at the U. S. Marine Hospital, Fort Stanton, New Mexico.

Nelson Bldg. & Constr. Co., 211 W. Wacker Drive, Chicago.

Herbert M. Baruch Corp., Los Angeles.

Murch Bros. Constr. Co., 4111 Lindell Blvd., St. Louis, Mo.

Owen Eng. Co., 11 S. La Salle St., Chicago.

10—HOTELS

KINGMAN, Ariz.—Axel Day, 2433 Carmona Ave., Los Angeles, is supervising the construction of the first unit of a hotel at Kingman, Ariz., for the Klt Carson Hotel; Ninon Talbott, president. Axel Ericson, Kingman, has the plumbing contract. According to present plans the building will contain fifty guest rooms, cottages, dining room and shops. A swimming pool may be constructed later.

Sub-Contracts Awarded.
IMPROVE HOTEL Cost, \$6040
STOCKTON, San Joaquin Co., Cal. E Weber Avenue.

Alterations and additions to Stockton Hotel (18 new showers, 12 new toilets, painting, papering, etc.)

Owner—McDonough Estate Co., San Francisco.

Architect—Not Given.

Contractor—O. H. Chain, 41 S Sutter St., Stockton.

Lessee—J. Beatty, Stockton Hotel, Stockton.

Lumber—San Joaquin Lumber Co.
Mill Work—Electric Mill.

Plumbing—Miller Hays Company.

Tile—Stockton Tile Co.

Plastering—F. R. Simpson.

Electric—Franke Electric Company.

All of Stockton.

11—ICE AND COLD STORAGE PLANTS

Contract Awarded.
FEEDER SYSTEM

Cont. Price, \$40,802
SAN FRANCISCO. No. 870 Market Street.

Remodel electric feeder system in Flood Building.

Owner—Flood Realty Company.

Mechanical Engineer—Hunter & Hudson, 41 Sutter St., San Francisco.

Contractor—NePage-McKenny Co., 7 Front St., San Francisco.

LOS ANGELES, Cal.—Until 2 P. M., Nov. 20, bids will be received by the Los Angeles county supervisors for an addition to power house (building GH-20) at the General Hospital, 1100 Mission Road. The addition will be a Class A structure, 41x79 feet in area; steel frame and reinforced concrete construction, red brick exterior, steel rolling doors, metal skylights, concrete foundations and ramp, cement floors, galvanized iron louvers, etc. Spec. No. 292. Estimated cost, \$20,000. Wm. Davidson, Hall of Records, county mechanical engineer. Maine B. Beatty, 501 Hall of Records, clerk of the board.

LOS ANGELES, Cal.—Contractors and others who have procured plans for the construction of an air-cooling plant for Division 1 Headquarters, Colorado River aqueduct, about 15 miles northeast of Earp, bids for which will be opened by the Metropolitan Water District of Southern California, 306 W. Third St., Los Angeles, at 11 A. M., November 13, are: Gay Engi-

neering Corp., 2650 Santa Fe Ave., Los Angeles; Listenwalter & Gough, 819 E. First St., Los Angeles; Cooling & Air Conditioning Corp., 706 Hollingsworth Bldg., Los Angeles; U. S. Electrical Mfg. Co., 200 E. Slauson St., Los Angeles; York Ice Machinery Co., 5051 Santa Fe Ave., Los Angeles.

**13— PUBLIC BUILDINGS
FIRE HOUSES & JAILS**

LOS ANGELES, Cal.—Los Angeles county supervisors have under consideration an offer from a group of Los Angeles architects to prepare plans for and assist in the preparation of applications for government funds under the National Industrial Recovery Act for the building of new county structures.

The group that filed the agreement, limited to buildings under the N.R.A. program, includes Edwin Bergstrom, Myron Hunt, Pierpont Davis, Sumner P. Hunt, Wm. Richards, Gordon B. Kaufmann, J. E. Allison, D. C. Allison, H. C. Chambers, Robt. H. Orr and D. J. Wlmer.

Under the terms of the new agreement the county is to pay the architects' expenses, plus 20 per cent for preliminary, detail and engineering services for buildings less than \$150,000 in total cost. On other buildings the county is to pay 1 1/2% of the total cost for the preliminary services, and 3 1/2% for detail and engineering services.

The county would pay expenses plus 20% for administration services, expenses plus 10% for additional services and if the building were abandoned would pay 1 1/2% of the total cost, plus previous payments made to the architects. If reinforced concrete is used, detail and engineering expenses would be 4% instead of 3 1/2%.

FT. WINFIELD SCOTT, San Francisco, Cal.—Frederick W. Snook Co., 96 Clay St., San Francisco, at \$1570 awarded contract for extending water mains at Fort Winfield Scott.

Plans Being Prepared.
COURTHOUSE Cost, \$250,000
MODESTO, Stanislaus Co., Cal.
Three-story reinforced concrete courthouse.

Owner—County of Stanislaus.
Architect—G. N. Hilburn, 1213 I St., McCesto and E. G. Ernst, Associated, 9 W. Cleveland St., Stockton.

Bonds in the amount of \$250,000 will be voted on December 19 to finance construction.

SAN FRANCISCO—Braas & Kuhn Co., 1917 Bryant St., at \$4640 awarded contract by Library Commissioners for general construction of the special wood finish, wainscot, etc., to be installed in the main branch of the San Francisco Public Library in the Civic Center. Harry A. Thomsen, 315 Montgomery St., Architect. Following bids received:

Braas & Kuhn	\$4640
Taylor & Jackson.....	4977
W. Bateman	5171
Dinwiddie Constr. Co.....	5200
R. Brandlein & Co.....	5326
Clinton Stephenson Constr. Co.....	5336
L. C. Dunn.....	5438

November 2, 1933

Plans Being Prepared.
ALTERATIONS Cost, \$3000
REDWOOD CITY, San Mateo Co.
Alterations to county courthouse. (Alter reception room, waiting room, etc.)

Owner—County of San Mateo.
Architect—Will H. Toepke, 74 New Montgomery St., San Francisco.

Bids will probably be advertised November 6.

SANTA CLARA COUNTY, Cal.—Santa Clara County Supervisors have applied to the Public Works Administration for loans and grants in the following amounts for new county buildings: Service building at county almhouse, loan \$38,990, grant \$16,710; county jail, loan \$129,850, grant \$55,650; county hospital addition, loan \$163,144, grant \$69,918. Blnder & Curtis, 35 W. San Carlos St., San Jose, architects.

Sub-Contracts Awarded.
MEMORIAL BUILDING

Contract Price, \$66,940
SAN LEANDRO, Alameda Co., Calif.
Bancroft Ave. near Estudillo.

Two-story reinforced concrete Veterans' memorial building (100x125 ft.) tile roof, steam heating system.

Owner—County of Alameda.
Architect—H. H. Meyers, Kohl Bldg., San Francisco.

Contractor—Geo. Petersen, 1841 Bancroft Ave., San Leandro.

Structural Steel—Herrick Iron Works, 18th and Campbell Sts., Oakland.

Plastering—Vincent Fatta, 5553 Claremont, Oakland.

Plumbing—J. A. Fazio, 402 Castro St., Oakland.

Heating—Geo. C. Bell, 1825 Gleason Way, Oakland.

BERKELEY, Alameda Co., Calif.—Berkeley city council has announced a public works program, involving the construction of a police station and city jail, new fire stations and remodeling of present fire stations, etc. A bond issue to finance 70% of the cost may be placed on the special election on Dec. 19 and the remaining 30% will be paid for by the Federal government donation to the city. The cost will probably be about \$150,000.

SAN FRANCISCO.—Mullen Mfg. Co. 64 Rausch St., at \$344, awarded contract by Board of Public Works for shelving in Room 457, City Hall (law library).

14—RESIDENCES

Contract Awarded.
RESIDENCE Cost, \$4000

SAN JOSE, Santa Clara Co., Cal. Locust St. near Reed.

One-story frame and stucco residence (5 rooms).

Owner—John Bussone, Saratoga.
Architect—Not Given.
Contractor—A. R. Calvellin, 855 Nevada Ave., San Jose.

Contract Awarded.
COTTAGE Cost, \$5000

COALINGA, Fresno Co., Cal. Kettleman Compressor Station.

One-story frame and stucco cottage (5 rooms).

Owner—Pacific Gas & Electric Co., 245 Market St., San Francisco.
Plans by Engineering Dept. of Owner.
Contractor—J. La Forti, 252 N. Broadway, Fresno.

Contract Awarded.
RESIDENCE Cost, \$4000

OAKLAND, Alameda Co., Cal. No. 4107 Oakmore Rd., Oakland.

Two-story frame and stucco residence (6 rooms).

Owner—A. L. Nelson.
Architect—Not Given.
Contractor—A. H. Monez, 4350 Bridgeview Drive, Oakland.

To Be Done By Day's Work.
RESIDENCE Cost, 50000

SAN FRANCISCO. E Twenty-second Ave. 280 N Ocean Avenue.

One-story and basement frame and stucco residence.

Owner and Builder—Michael & Bometer, 762 De Haro St., San Francisco.

Architect—Not Given.
To Be Done By Day's Work.

RESIDENCE Cost, \$5000

SAN FRANCISCO. W Twenty-eighth Ave. 275 W Judah Street.

One-story and basement frame and stucco residence.

Owner & Bulder—F. J. Geheran, 1212 11th Ave., San Francisco.
Architect—Not Given.

Sub-Contracts Awarded.
RESIDENCE Cost, \$4000

LAFAYETTE, Contra Costa Co., Cal. One-story adobe brick residence (7 rooms, 2 baths) T. C. tile roof, redwood floors, hot water-oil fuel heating system, etc.

Owner—D. E. Hutton, 2223 Stuart St., Berkeley.

Architect—Blaine & Olson, 1801 Franklin St., Oakland.

Contractor—W. James Johnston, 1801 Franklin St., Oakland.

Lumber—Lafayette Lumber & Supply Co., Lafayette.

Concrete Materials—Farm Assn., Walnut Creek.

Sub-Bids Being Taken.
RESIDENCE Cost, \$6000

BERKELEY, Alameda County, Calif. Brookside Drive.

Two-story frame and stucco residence (6 rooms).

Owner and Builder—Hufschmidt and Whalen, 461 Lee St., Oakland.

Revised Plans Being Completed.
ALTERATIONS Cost, \$50,660

HILLSBOROUGH, San Mateo County, Calif. Easton Drive.

Alterations and additions to two-story and basement frame residence (add rooms, new plumbing, heating, wiring, mill work, etc.)

Owner—Paul I. Fagan, Hillsborough.

Architect—Arthur Brown, Jr., 251 Kearny St., San Francisco.

New bids will be asked in one week or ten days.

Contract Awarded.
ALTERATIONS Cost, \$3675

MILL VALLEY, Marin Co., Cal. Alterations and additions to residence.

Owner—Walter W. Derr, Hillside Ave., Mill Valley.

Architect—Not Given.
Contractor—Melvin H. Klyce, 25 Eugene St., Mill Valley.

Contract Awarded.
RESIDENCE Cost, \$4000

SAN FRANCISCO. E Cayuga 100 S Tingley Street.

One-story and basement frame and stucco residence.

Owner—C. Zaro, 4250 Mission Street.
Architect—Not Given.
Contractor—Marshall Struthers, 4 2 5 0 Mission Street.

To Ask Bids In One Week.
RESIDENCE Cost, \$8500

BAYWOOD, San Mateo Co., Calif. Two-story frame and stucco Spanish style (8 rooms) tile roof, steel sash brick chimney, gas hot air heat.

Owner—Withheld.
Architect—C. H. Treichel, 679 Hadson Road, Oakland.

Plans Being Prepared.
RESIDENCE Cost, \$20,000

SAN FRANCISCO. Divisadero Street near Pacific Avenue.

Two-story and basement frame and stucco residence.

Owner—Stanley Sinton, 133 Montgomery Street.

Architect—Willis Polk Co. (Angus McSweeney, architect) 277 Pine St.

Plans Completed
RESIDENCE Cost, \$—
SAN FRANCISCO. Crown Terrace & Twin Peaks Blvd.
 One-story frame and stucco residence (5 rooms) tile and composition roof, gas heating system, oak floors, etc.
 Owner—F. O. Andres, 10 Crown Terrace, San Francisco.
 Architect—S. A. Colton, 544 Market St., San Francisco.
 Owner will take bids shortly.

Cast Stone Contract Awarded.
RESIDENCE Cost, \$20,000
HILLSBOROUGH, San Mateo Co., Cal.
 Two-story and basement frame and stucco residence (13 rooms and 4 baths) English type, slate roof, gas heating system, hardwood floors.

Owner—Nathan Rothman.
 Architect—Hyman & Appleton, 68 Post St., San Francisco.
 Contractor—Jacks & Irvine, Call Bldg., San Francisco.
Cast Stone—Western Artificial Stone Works, 666 Brannan St.
 Other awards reported Oct. 18.

Contract Awarded.
RESIDENCE Cost, \$3500
SAN BRUNO, San Mateo Co., Calif.
 San Bruno Park No. 1.
 Two-story and basement frame and stucco residence.
 Owner—Harry Rubin, et al, 561 San Mateo Ave., San Bruno.
 Architect—Not Given.
 Contractor—Jos. Bettancourt, 422 San Anselmo Ave., San Bruno.

Mill Works Contract Awarded.
RESIDENCE Cost, \$15,000
SAN FRANCISCO. Marina District.
 Two-story and basement frame, stucco and brick veneer residence (eight rooms and two baths).
 Owner—Dr. Nicholas Zuardot and Dr. Katherine Barbick.
 Architect—Clarence Tantau, 210 Post Street.
 Contractor—Fred DuPuy, 110 Sutter Street.
Mill Work—Herring & Nutting, 750 Florida Street.
 Other awards reported Oct. 12.
 (2133) 1st report July 14; 7th, Oct. 12, 1933.

Sub-Contracts Awarded.
RESIDENCE Cost, \$7000
OAKLAND, Alameda Co., Calif. Leimert Drive.
 Two-story and basement frame and stucco residence.
 Owner—R. H. Seiple, 1137 Hollywood Ave., Oakland.
 Architect—F. H. Slocombe, 131 Monte Cresta Ave., Oakland.
 Contractor—Harry C. Knight, 1435 Harrison St., Oakland.
Lumber—Smith Lumber Co., foot of 19th Ave., Oakland.
Concrete Aggregates—Rhodes-Jam'eson, Ltd., 354 Hobart St., Oakland.
Plumbing—V. H. Richit, 3255 Thompson St., Alameda.

Preparing Plans.
RESIDENCE Cost, \$—
LAFAYETTE, Contra Costa Co., Cal.
 One-story frame and stucco residence (6 rooms) tile roof, warm air heating system, etc.
 Owner—Budd Hill, 1220 Parker Street, Berkeley.
 Architect—Blaine & Olson, 1801 Franklin St., Oakland.

October 30, 1933
 Contract Awarded.
RESIDENCE Cost, \$4000
LAFAYETTE, Contra Costa Co., Cal.
 One-story adobe brick residence (7 rooms, 2 baths) T. C. tile roof, redwood floors, hot water-oil fuel heating system, etc.

Owner—D. E. Hutton, 2223 Stuart St., Berkeley.
 Architect—Blaine & Olson, 1801 Franklin St., Oakland.
 Contractor—W. James Johnston, 1801 Franklin St., Oakland.

Contract Awarded.
COUNTRY RESIDENCE \$—
MONTE RIO, Sonoma Co., Calif.
 Seven-room frame rustic residence (2 baths).
 Owner—Withheld.
 Architect—Ray Keefer, 770 Wesley St. Oakland.
 Contractor—Schrock & Swindler, Sebastopol.
 (2754) 1st report Sept. 30; 2nd, Oct. 16, 1933.

Low Bidder.
RESIDENCE Cost, \$—
SAN FRANCISCO. Forty-eighth Ave. near Anza Street.
 Two-story frame and stucco residence (7 rooms, 2 baths) part tile and gravel roof, gas heating system, hardwood floor, Oregon pine or mahogany trim, etc.
 Owner—George Satchell.
 Architect—A. A. Cantin, 557 Market Street.
 Low Bidder—Hannah & Wooldridge, 251 Kearny Street.

Contract Awarded.
IMPROVE Cost, \$1000
WOODSIDE, San Mateo Co., Cal. Mt. Home Road.
 Paneling in dining room of residence.
 Owner—A. R. Baldwin, Woodside.
 Architect—Francis Lloyd, 360 Pine St. San Francisco.
 Contractor—John J. Moore, 372 N 13th St., San Jose.

Contract Awarded.
RESIDENCE Cont. Price, \$4977
PIEDMONT, Alameda Co., Cal. Piedmont Pines.
 One and one-half-story frame and stucco residence (6 rooms) English style.
 Owner—Alfred Kennedy.
 Architect—Miller & Warnecke, Financial Center Bldg., Oakland.
 Contractor—Wallace A. Petersen, 7101 Weld St., Oakland.

15— SCHOOLS

Planned.
SCHOOL, ETC. Cost, —
COALINGA, Fresno Co., Calif.
 Construct new senior high school, swimming pool and lighted tennis courts.
 Owner—Coalinga School Dist. (F. J. McCollum, secretary).
 Architect—Not Given.
 Financing arrangements are being discussed.

SACRAMENTO, Cal.—Sacramento Board of Education rejected all bids for equipment for the Sacramento High School. Prices exceeded the budget allotments.

SACRAMENTO, Cal.—Chas. Mackrell, 1415 G St., Sacramento, at \$520 awarded contract for razing the Stanford Junior High School at 38th St. and 4th Ave., Sacramento.

November 2, 1933

Sub-Contracts Awarded.
MEDICAL SCHOOL BLDG.
 Cont. Price, \$31,673
SAN FRANCISCO. University of California Site, Second and Parnassus Avenues.
 Complete interior of sixth and seventh floors.
 Owner—Regents of the University of California, Berkeley.
 Architect—W. C. Hays, Crocker First National Bank Bldg., S. F.

Contractor—Lindgren & Swinerton, 225 Bush St., San Francisco.
Lathing and Plastering—Wm. Makin, 2141 Livingston St., Oakland.
Plumbing—Scott Co., 243 Minna St., San Francisco.
Heating, Ventilating and Electric—Alta Electric & Mechanical Co., 467 O'Farrell St., S. F.
Hollow Metal—Forderer Cornice Wks., 269 Potrero Ave., San Francisco.
Glass—Cobbedick Kibbe Glass Co., 666 Howard St., San Francisco.
Tile—Art Tile & Mantel Co., 221 Oak St., San Francisco.
Mill Work—Pacific Mfg. Co., Monadnock Bldg., San Francisco.
Marble—American Marble Co., South San Francisco.
Painting—Raphael Co., 270 Tehama St., San Francisco.
Metal Sash—Michel & Pfeffer Iron Works, Harrison and Tenth Sts., San Francisco.
Membrane Waterproofing—J. W. Bender Co., 18th and Bryant Sts., San Francisco.

As previously reported, linoleum awarded to Venor Co., 36 Sacramento St., at \$2639; furniture to R. Brandlein & Co., 2141 Bryant St., at \$7990; grading to Fay Improvement Co., Phelan Bldg., at \$4577.

NORWALK, Los Angeles Co., Cal.—Architects T. C. Kistner & Co., 814 Architects' Bldg., Los Angeles, are completing working drawings for reconstruction of administration building at Excelsior Union High School, near Norwalk. Building is a two-story structure, 66x225 feet, containing 25 rooms. Plans will not be out for figures for 30 days, pending approval by State Architect.

ANAHEIM, Los Angeles Co., Cal.—Architects T. C. Kistner & Co., 814 Architects' Bldg., Los Angeles, are completing a preliminary estimate to determine the amount of money necessary to reinforce and make buildings at Anaheim High School conform to state code. No plans will be prepared for this work until the survey has been completed and a bond issue submitted to the voters.

SACRAMENTO, Calif.—Sacramento Board of Education is planning the installation of a sprinkling system on the northeastern part of the Sacramento High School Campus. Estimated cost \$700. Further details will be announced in about two weeks.

WHITTIER, Los Angeles Co., Cal.—Architect Victor E. Siebert and Engineer Vern D. Hedden, 420 Security Bldg., Long Beach, have prepared sketches for two new school buildings to replace the present structures on the John Muir and Whittier school sites in Whittier. A report from the State Department of Public Works indicates that both buildings will probably have to be entirely demolished. Other Whittier schools, including the Roosevelt, Washington Junior High, Edison, Los Cerritos, Fremont, Horace Mann and Lowell, may have to have new outer walls and additional strengthening, according to the report.

MODESTO, Stanislaus Co., Cal.—Until Nov. 6, 1:30 P. M., bids will be received by E. D. Abbott, Secretary, Modesto Board of Education, Capitol School Bldg., 14th and I Sts., Modesto, for the installation of conduit and cable, phones, clocks and buzzers at the Modesto Junior College. Certified check not less than 10% of amount bid required.
 (2951)

SANTA ANA, Orange Co., Cal.—Santa Ana Board of Education is conducting investigations preliminary to appointing an architect to prepare plans for reconstruction, as required by law, of earthquake damaged school buildings in Santa Ana. The selection of an architect will be made within a few days.

Commissioned to Prepare Plans.
RECONST. SCHOOL Cost \$—
HUNTINGTON PARK, Los Angeles Co., Cal. 6012 Seville Street. Reconstruct school and convent buildings at Saint Matthias Parish. Owner—Roman Catholic Bishop of Los Angeles and San Diego. Architects—Henry Carlton Newton & Robert Dennis Murray, Architects' Bldg., Los Angeles.

TEMPE, Ariz. — Architects Lescher & Mahoney, 1100 Title & Trust Bldg., Phoenix, have prepared preliminary plans for a group of college buildings to be erected at Tempe for the Arizona State Teachers College: Dr. Grady Gammage, president. The college has made application to the Public Works Administration for a loan of \$213,250 and a grant of \$111,750 to finance construction. The buildings to be erected and estimated costs are: Women's dormitory, \$137,000; addition to library, \$79,000; stadium, \$75,000; industrial arts building, \$36,050; enlarge heating plant, \$21,200; repair and modernize existing buildings, \$76,750. They will be fireproof structures of reinforced concrete construction with pressed brick facing, except the stadium which will be all concrete. (2961)

BERKELEY, Alameda Co., Calif.—Lee J. Immel, 1031 Evelyn St., Berkeley, at \$2,579 submitted low bid for grading, and Clinton-Stephenson Construction Co., 550 Montgomery Street, San Francisco, at \$17,654 submitted low bid for general construction, to Regents of the University of California to construct frame field laboratory in Strawberry Canyon, University of California, Berkeley. Following bids received:

Grading	
Lee J. Immel, Berkeley.....	\$2,579
A. O. Field, San Francisco.....	2,851
Ariss-Knapp Co., Oakland.....	2,995
Telsian Bros., Berkeley.....	3,670
J. Catucci, Oakland.....	3,748
Garcia Const. Co., Irvington.....	5,000
General Construction	
Clinton-Stephenson Co., S. F.....	\$17,654
C. M. Norgrove, Berkeley.....	18,800
F. J. Early, S. F.....	18,900
A. Cederborg, Oakland.....	20,622
Price Const. Co., Oakland.....	20,909
Walter Sorensen, Berkeley.....	20,939
Geo. Swanstrom, Oakland.....	20,974
E. T. Lesure, Berkeley.....	22,575
E. T. Leiter & Son, Oakland.....	22,967
Bids held under advisement.	

LOS ANGELES, Cal.—Los Angeles Board of Education has appointed structural engineers to prepare plans and specifications, including analyses, structural design computations and estimates of cost, for repairing, reconstructing and reinforcing of school buildings as follows:

Ellis Wing Taylor, 803 W. 3rd St., Hooper Avenue School, cost \$25,000.
 Laurence J. Waller, 4350 Beverly Blvd.; Leland Street School, cost, \$48,000.
 S. E. Barnes, 325 W. 8th St.; Menlo Avenue School, cost \$40,500.
 Henry Edgar Bean, 1065 Queen Ann Place; Sixty-eighth Street School, cost \$39,500.
 C. G. DeSwarte, Room 505, 811 W. 7th St.; Wadsworth Street School, cost \$46,000.
 Holmes & Narver, Inc., 514 N. Rex-

ford Dr., Beverly Hills; Polytechnic High School, including following: Main building, shop and boiler room, auditorium, classroom annex, gymnasium, domestic science building; cost \$240,000

LOS ANGELES, Cal.—Los Angeles Board of Education has approved preliminary engineering drawings, including analyses, structural design computations and cost estimates, for earthquake strengthening and repairing the following schools:

State Street School, Holmes & Narver, Inc., structural engineers, 514 N. Rexford Drive, Beverly Hills, cost \$92,284.
 Cabrillo Avenue School, Ellis Wing Taylor, structural engineer, 803 W. Third St., cost \$39,000.

BERKELEY, Alameda Co., Calif.—Berkeley Board of Education will raze the Jefferson School, located on Rose and Sacramento Sts. Local contractors will be asked to submit figures. Basement will remain and will probably be used for a cafeteria.

16—BANKS, STORES AND OFFICES

Contracts Awarded.
ALTERATIONS Cost, \$20,000
SAN FRANCISCO. SW Battery and Pine Streets.

Extensive alterations to 6-story Class B store and loft building.

Owner—Michael Donohoe Estate, Mgr. of Const.—Frederick H. Whitton, 369 Pine Street.

Lessee—Pacific Greyhound Lines, 9 Main Street (lessees of basement and first three floors).

Carpentry—J. D. Hannah, 251 Kearny. **Plumbing**—O'Mara & Stewart, 213 Clara Street.

Heating—F. W. Snook, 596 Clay St. As previously reported, elevator contract awarded to Otis Elevator Co., 1 Beach Street. (2817) 1st report Oct. 12; 2nd, Oct. 18, 1933.

Contract Awarded.
STORE Cost, \$1000
SAN FRANCISCO. Chestnut St. N of Mallorca Way.

Store fronts, etc., for one-story store building.

Owner—Martin Stelling. Architect—Bertz, Winter & Maury, Monadnock Bldg., San Francisco. Contractor—Young & Horstmeyer, 461 Market St., San Francisco.

Contract Awarded.
ALTERATIONS Cost, \$3000
SAN FRANCISCO. SE Post and Stockton Streets.

Alterations to stores.

Owner—Lathrop Estate, 2 Montgomery St., San Francisco. Architect—Not Given. Contractor—Frank Schendler, 532 Brannan St., San Francisco.

Contract Awarded.
 Prospective Bidders.
STORE Cost, \$14,000
SAN JOSE, Santa Clara Co., Cal. Santa Clara St. bet. 12th and 13th.

One-story reinforced concrete store building (50x100 ft.) concrete floors 10-year guaranteed built-up roof.

Owner—Safeway Stores. Architect—Charles McKenzie, Twoby Bldg., San Jose.

Following have procured plans. Bids open Nov. 6, 3 P. M., all bidders being of San Jose except otherwise noted: Henry Bridges, 1398 Lincoln Street, W. N. Caldwell, 1241 Hedding St. Chas. Thomas, 127 Clayton St. Neves & Harp, Santa Clara. W. J. Ochs, American Trust Company Building.

Guy M. Latta, 157 Rhodes Court. Frank Edmans, 123 S Third St. John Shlrley. J. D. Carlson, 1331 Sierra St. Megna & Newell, 838 Minnesota Ave. George Honore, 136 Race St.

Contract Awarded.
LOFT Cost, \$1000
SAN FRANCISCO. 77 Eddy Street. Alterations to loft. Owner—Equity Club, 77 Eddy Street. Architect—Not Given. Contractor—W. C. Jones, 1132 Guerrero Street.

Sub Contracts Awarded.
RESTAURANT

Including Equip., \$100,000
SAN FRANCISCO. 968 Market Street. New restaurant (new entrance from Market Street to basement) work involves cabinet work, plumbing, fixtures, lighting effects, carpets, draperies, upholstery, etc.

Owner—Will King, 35 Taylor Street. Architect—A. A. Cantin, 557 Market Street.

Contractor—Robert E. Powers Studio, 34 Golden Gate Avenue.

Carpentry—Alf. J. Hopper, 1769 Pleasant Valley Ave., Piedmont.

Plumbing—Frank J. Klimm, 456 Ellis Street.

Wiring—H. F. Haverkamp, 1127 Folsom Street.

Heating and Ventilating—C. R. Watts, 1166 Spruce Street.

Prices are being taken on lighting fixtures, carpets, etc.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$12,000
SAN FRANCISCO. No. 58 Sutter St.

Alterations and additions to office building.

Owner—Holbrook Bldg., Premises. Architect—Albert Roller, Crocker First Nat'l Bank Bldg., S. F.

Lessee—American Institute of Banking.

Contractor—Lindgren & Swinerton, 225 Bush St., San Francisco.

Mill Work—Lannom Bros. Mfg. Co., Fifth and Magnolia Sts., Oakland.

Folding Partitions—Dwan & Co., Call Bldg., San Francisco.

Lathing and Plastering—A. Knowles, 982 Eryant St., San Francisco.

Marble—Eisele & Dondero, 2395 Third St., San Francisco.

Plumbing and Ventilating—Alta Elec. & Mechanical Co., 467 O'Farrell St., San Francisco.

Electric—Chas. A. Langlais, 472 Tehama St., San Francisco.

Painting and Finishing—A. A. Zelinsky, 4420 California St., S. F.

Blackboards and Bulletin Board—Rucker Fuller Co., 539 Market St., San Francisco.

Hollow Metal—Forderer Cornice Wks. 269 Potrero Ave., San Francisco.

Contract Awarded.
OFFICE AND SHED. Cost, \$7000
SAN FRANCISCO. NW Fifth and Brannan Streets.

One-story and basement frame office and shed.

Owner—H. B. Frasher, Fresno. Architect—A. A. Cantin, 557 Market St., San Francisco.

Engineer—F. W. Kelberg, 320 Market St., San Francisco.

Contractor—Fisher & McNulty, Mattei Bldg., Fresno.

Permit Applied For.
FACTORY & OFFICES Cost, \$35,000
SAN FRANCISCO. N Fulton St. E Webster St.

Three-story reinforced concrete factory and office building.

Owner—Cereal Products Co., 763 Fulton Street. Architect—Not Given. Contractor—Richard J. H. Forbes, Monadnock Bldg.

Planned.
STORE FRONT Cost, \$—
OAKLAND, Alameda Co., Cal. No.
1808 Telegraph Avenue.
New store front and interior altera-
tions to store.
Owner—Buclos Bakery.
Architect—Not Given.

LOS ANGELES, Cal.—K. R. Brad-
ley Construction Co., 1833 W. Pico
Blvd., awarded contract at approxi-
mately \$30,000 for general work, con-
sisting of fireproofing steel braces,
etc., of repairing the three-story
building at 716 S. Olive St., for the
Southern California Telephone Co.

Planned.
ADDITION Cost, \$—
BAKERSFIELD, Kern Co., Cal. 22nd
St. and Chester Ave.
Addition to automobile building.
Owner—Valley Chevrolet Co., Bakers-
field, Elmer McFaddin, Vice-pres-
ident.
Architect—Not given.

Sub-Bids Being Taken.
STORES & OFFICES Cost, \$35,000
SAN FRANCISCO. Stockton St. and
Card Alley.
One-story reinforced concrete office
and store building, tar and gravel
roof, steam heating system, con-
crete and wood floors.
Owner—S. Glanone, % A. Cavali, 255
Columbus Ave., San Francisco.
Architect—Wm. Mooser, Monadnock
Bldg., San Francisco.
Supt. of Constr.—Louie Spargo.
Contractor—Vannucci Bros., Constr.
Co., 1875 San Bruno Ave., S. F.

Contract Awarded.
ALTERATIONS Cost, \$—
SAN FRANCISCO. Kohl Building.
Alterations to offices (cabinet work,
electrical work, etc.)
Owner—Dean Witter & Co., Kohl Bldg.
Architect—Kent & Hass, 525 Market
Street.
Contractor—Ostlund & Johnson, 1901
Bryant Street.

Planned.
STORE Cost, \$—
SAN JOSE, Santa Clara Co., Cal. 160-
164 South First St. and 157-165 S
Second St.
Modern store building (51x275).
Owner—Montgomery Ward & Co.
Plans by Engr. Dept. of Owner, Chi-
cago.
Further details will be announced
later.

Plans Being Completed.
ALTERATIONS Cost, \$25,000
SALINAS, Monterey Co., Cal. Main
Street.
Alter two-story Class C store building.
Owner—Montgomery Ward & Co., 125
Monterey St., Salinas.
Plans by Engr. Dept. of Owner, Chi-
cago.
Bids will be asked in about 2 weeks.

Contract Awarded.
REPAIRS Cost, \$2000
SAN FRANCISCO, 560 Pacific Ave.
Repairs to restaurant.
Owner—A. Nestori, 560 Pacific Ave.
Architect—Not Given.
Contractor—R. Follotti, 949 Filbert St.

17— THEATRES

Completing Plans.
THEATER Cost, \$—
SANTA MONICA, Los Angeles Co.,
Cal. Third Street.
One-story Class B concrete theater
(50x150), concrete columns and
beams, brick filler walls, steel
sash, skylights, Neon lighting sys-
tem, projection rooms, etc.
Owner—Fred A. Miller.
Architect—Norman Alpaugh, 4222 Hal-
dale Ave., Los Angeles.

Planned.
THEATER Cost, \$60,500
SUSANVILLE, Lassen Co., Cal. Main
and Union Sts.
Motion picture theater.
Owner—T. & D. Enterprises, 25 Tay-
lor St., San Francisco.
Architect—Not given.

Planned.
THEATRE Cost, \$—
SALINAS, Monterey Co., Calif. Main
Street near San Luis.
Theatre building.
Owner—Crystal Theatre Company.
Architect—Not Given.
The present building on site will be
razed.

18— WHARVES & DOCKS

PEARL HARBOR, T. H.—Following
have procured plans for the purpose
of submitting bids to the Bureau of
Yards and Docks, Navy Dept., Wash-
ington, D. C., on Nov. 15 in connec-
tion with the construction of a pier
and gauge of reinforced concrete con-
struction supported on concrete cylin-
ders on wood and concrete piles and
includes dredging, concrete and steel
sheet pile bulkheads, timber fender
system, track work, piping systems,
electrical work and fittings at the
Navy Yard, Pearl Harbor. Spec. No.
7418. Estimated cost, \$2,850,000:
Hawaiian Contracting Co., Honolulu
Anaconda Wire & Cable Co., Has-
tings-on-Hudson, New York.
United States Pipe & Foundry Co.,
Lincoln-Liberty Bldg., Philadelphia.
(2663) 1st report Sept. 12, 1933.

OAKLAND, Cal.—Until Nov. 6, 11
A. M., informal bids will be received
by Purchasing Department, City of
Oakland Port Commission for sprink-
ler system for the 320 ft. extension at
Outer Harbor Terminal. Estimated
cost, \$800.

19—MISC. CONSTRUCTION

SAN FRANCISCO—San Francisco
Board of Supervisors has set Nov. 7,
as the date for the special election on
a bond issue of \$700,000 to finance the
improvements at the Aquatic Park.
The work includes:
(1) Boat house for rowing clubs;
(2) Bathing beach;
(3) Park and playground area;
(4) Concrete wharf to facilitate auto
parking;
(5) Bath houses;
(6) Convenience stations;
(7) Service buildings;
(8) Gymnasiums;
(9) Hand ball courts;
(10) Shower and locker rooms;
(11) Solariums and club quarters;
(12) Grading and rock filling;
(13) Construction of concrete seawall
and retaining walls and paving
street promenade and sidewalk
areas adjacent thereto;
(14) Relocating belt line railway;
(15) Water and electric light systems
(16) Landscaping gardening.

The Federal Public Works Admin-
istration has approved a grant to the
city of San Francisco of \$166,000 for
financing the above work, contingent
upon approval of the bonds.

OAHU, T. H.—Following have pro-
cured plans for the purpose of sub-
mitting bids to the Bureau of Yards
and Docks, Navy Dept., Washington,
D. C., on November 29 in connection
with the construction of gate house,
etc., at Oahu. Spec. No. 7055.

A. F. Wagner Architectural Iron
Works, 1483 N. Water St., Milwaukee.
Crane Co., 1225 I St., N. W. Wash-
ington, D. C.
(2828) 1st report Oct. 17; 3rd Oct.
21, 1933.

GLENDALE, Los Angeles Co., Cal.
—Wm. J. Shirley Const. Co., 1724 S
Vermont Ave., Los Angeles, at \$64,-
900 submitted low bid to the Glendale
City Council for the construction of a
reinforced concrete roof on the
Chevy Chase reservoir, Glendale. Bids
held under advisement.

Sub-Contracts Awarded.
RAMP Cost, \$4000
BERKELEY, Alameda Co., Cal. 2614
Shattuck Avenue.
Concrete ramp.
Owner—Weston Havens.
Architect—Not Given.
Contractor—George Swanstrom, 1615
78th Ave., Oakland.
Concrete—Triberti & Massaro, 957 38th
St., Oakland.
Glass—W. P. Fuller & Co., 259 10th
St., Oakland.
Plastering—Chas. Burnett, 865 32nd
St., Oakland.
Lumber & Mill Work—California Mill
& Lumber Co., 1829 Webster St.,
Alameda.
Roofing—Bradhoff Roofing Co., 1728 E
34th St., Oakland.

Plans Being Prepared.
GARAGE, ETC. Cost, \$—
SAN FRANCISCO. Ocean Boulevard.
Two-story frame warehouse and ga-
rage (26x48) asbestos or tile roof.
Owner—U. S. Government (Coast
Guard).
Plans by Coast Guard Engineers, Gov-
ernment Island, Alameda.
Bids will be asked shortly.

SEATTLE, Wash.—Manson Con-
struction and Engineering Co., Seat-
tle, at \$6,840 submitted low bid to U.
S. Lighthouse Dept., to construct
steel tower markers on the Canadian
Borders. Lirhus & Kendall, Seattle,
second low at \$7,900. 19

October 30, 1933
Preparing Plans.
ADDITION Cost, \$—
SEATTLE, Wash. Foot of Massachu-
setts Street.
Construct twenty large concrete stor-
age bins (100 feet in height) bins
to be supported by concrete cap-
ped piling, 60 piles to a bin.
Owner—Albert Bros. Milling Co., foot
of Massachusetts St., Seattle.
Plans by John S. Metcalf Co., Ltd.,
grain elevator designers, Vancou-
ver, B. C.

PEARL HARBOR, T. H.—Following
have procured plans and specifications
from the Bureau of Yards and Docks
for furnishing and erecting 4 cranes
at Pearl Harbor Navy Yard. Bids open
Nov. 15; Spec. 7419:

McIntosh & Seeymour Corp., Au-
burn, N. Y.
Cooper - Bessemer Co., 819 Mills
Bldg., Washington, D. C.
LeRoI Co., 1706 S 68th St., Milwau-
kee.
Honolulu Iron Works, 165 Broadway
New York City.

Blake-Palm Elec. Co., 1915 I St. N.
W., Washington, D. C.
Allis - Chalmers Mfg. Co., Southern
Bldg., Washington, D. C.

OAHU, T. H.—Following have pro-
cured plans and specifications for a
reinforced concrete magazine and bar-
ricade wall and roads at Oahu, T. H.,
from the Bureau of Yards and Docks.
Bids open November 29:

W. P. Thurston Co., Richmond, Va.
Russell & Irwin, New Britain, Conn.
Hawaiian Contracting Co., Hono-
lulu.

FT. WINFIELD SCOTT, San Fran-
cisco, Cal.—Eureka Electric Radio Co.,
3469 Mission St., San Francisco, at
\$600 awarded contract for extending
electric line at Ft. Winfield Scott.

GLENDALE, Los Angeles Co., Cal.—Wm. J. Shirley Const. Co., 1724 S Vermont Ave., Los Angeles, at \$64,900 (flat slab type) submitted low bid to the Glendale City Council, for the construction of a reinforced concrete roof on the Chevy Chase reservoir, Glendale. Alternate bids were taken on two types: (1) flat slab design, and (2) arch type design. The work consists of constructing 124,000 sq. ft. of concrete roof and covering same with approximately two ft. of earth. Construction will require placing approximately:

- 5,000 cu. yds. reinf. concrete;
- 10,000 cu. yds. earth backfill;
- Estimated materials required are:
- 33,000 sacks cement;
- 3,600 tons sand;
- 5,000 tons rock;
- 425 tons reinforcing steel;
- 250,000 f.b.m. lumber;
- 332 round column forms;
- copper water stops and hatch.

This project will be built in accordance with the regulations of the National Recovery Act, application for funds to finance the work having been made to the Federal Emergency Administration of Public Works. The cost of labor and materials is estimated at \$97,009.63, and the total with incidentals, \$108,509. P. Diederich, 6th floor of the Public Service Bldg., 119 N Glendale Ave., Glendale, Public Service Supt., prepared the plans.

The bids were taken as follows:

- (1) flat slab type, lump sum;
- (2) earth work for flat slab type, lump sum (specifications intended that this figure should be included in (1) but shown separately);
- (3) arch type design;
- (4) earth work for arch type design.

The bidders were:

- (A) Wm. J. Shirley Const. Co., Los Angeles.
- (B) Kristenson, Johnson & Dahlquist, Los Angeles.
- (C) Schuck Const. Co., Los Angeles.
- (D) Bannister-Field Co., Ltd., L. A.
- (E) Byerts & Dunn, Los Angeles.
- (F) Mitty Bros., Los Angeles.
- (G) Carle Bongiovanni, Los Angeles.
- (H) Harvey A. Nichols, Los Angeles.
- (I) Fred F. Greenfield and J. B. McIntosh, Los Angeles.
- (J) John T. Bibb, Glendale.
- (K) H. G. Klusman, Cucamonga.
- (L) Clinton Const. Co., Los Angeles.
- (M) R. H. Travers, Los Angeles.
- (N) Gene B. Foster, Inc.
- (O) L. A. Contracting Co., L. A.
- (P) Weymouth-Crowell Co., L. A.
- (Q) H. M. Baruch Corp., Los Angeles.
- (R) L. M. Larson, Los Angeles.
- (S) C. J. Kubach-Snyder Co., Ltd., Los Angeles.

(T) Case Const. Co., Los Angeles.

The bids, which were taken under advisement, were:

(A).....	\$64,900	\$3500	\$.....	\$.....
(B).....	66,480	6804*	.....	.....
(C).....	69,642	2985	.....	.....
(D).....	70,750	2770	.....	.....
(E).....	71,600	3300	.....	.....
(F).....	74,800	3000	92,800	3000
(G).....	77,777	3111	.....	.....
(H).....	77,970	.....	.....	.....
(I).....	78,686	2989	.....	.....
(J).....	78,898	2199	.....	.....
(K).....	78,900	3120	.....	.....
(L).....	80,300	3300	113,000	3300
(M).....	81,331	3040	110,000	3500
(N).....	82,300	.....	.....	.....
(O).....	85,000	3200	.....	.....
(P).....	86,000	.....	.....	.....
(Q).....	86,554	.....	.....	.....
(R).....	87,811	2750	.....	.....
(S).....	89,630	.....	.....	.....
(T).....	105,899	.....	.....	.....

*Not included in lump sum.

FORT MASON, Cal.—Severin Elec. Co., 172 Clara St., San Francisco, at \$3944 awarded contract by War Department, Washington, D. C., for extension of electric distributing system at Fort Mason.

Sub-Contracts Awarded.

CROSS Cont. Price, \$11,850
SAN FRANCISCO. Mt. Davidson.
Reinforced concrete cross, 100 feet high (500 cu. yds. concrete).
Owner—Golden Gate Park Commission (For Sunrise Easter Service Committee).

Architect — George W. Kelham, 315 Montgomery St., San Francisco.

Engineer — H. J. Brunner, Sharon Bldg., San Francisco.

Contractor—Monson Bros., 475 Sixth St., San Francisco.

Reinforcing Steel — Soule Steel Co., 1750 Army St., San Francisco.

Concrete — Readymix Concrete Co., Carolina and Mariposa Ste., San Francisco.

Contract Awarded.

ALTERATIONS Cost, \$12,000
SAN FRANCISCO. No. 58 Sutter St.
Alterations and additions to office building.

Owner—Holbrook Bldg., Premises.

Architect—Albert Roller, Crocker 1st National Bk. Bldg., San Francisco.

Lessee—American Institute of Banking.

Contractor — Lindgren & Swinerton, 225 Bush St., San Francisco.

GLENDALE, Cal.—According to an announcement by the Public Service Department the bids on the Chevy Chase reservoir roof, opened by the Glendale City Council October 26, and taken under advisement by P. Diederich, plant superintendent, did not include 400 tons of steel upon which the public service department procured an option last spring at approximately \$16,000.

LA MESA, Orange Co., Calif.—City Engineer H. L. Edwards has been ordered by the La Mesa city council to prepare plans and specifications for a swimming pool to be constructed in La Mesa. The city proposes applying to the Public Works Administration for a loan of funds with which to finance the project.

SACRAMENTO, Cal.—J. W. Hoopes 5140 Fourteenth Ave., Rt. 4, Box 421, Sacramento, at \$11,265 submitted low bid to District Engineer, Department of Public Works, Division of Highways, District III, Marysville, for excavating and lining with gunite 0.7 mile irrigation ditch, involving:

- (1) 6600 cu. yds. ditch excav.;
- (2) 18,500 sta. yds. overhaul;
- (3) 56,000 sq. ft. gunite lining in place
- (4) 60 M. gals water in place;
- (5) 1000 sq. ft. exist. ditch lining removed and disposed of.

Complete bids follow:

(A) J. W. Hoopes, Sacramento, \$11,265.

(B) D. McDonald, Sacramento, \$12,805.

(C) Case Constr. Co., Inc., Los Angeles, \$15,562.70.

Unit prices follow:

	(A)	(B)	(C)
(1).....	\$.30	\$.40	\$.367
(2).....	.01	.02	.015
(3).....	.16	.17	.188
(4).....	1.50	2.50	2.00
(5).....	.05	.125	.215

Roofing Bids Being Taken.

TERMINAL Cost, \$30,000
BERKELEY, Alameda Co., Calif. San Pablo Ave. bet. Carrison and Ashby Avenues.

Bus and street car terminal (open shed, terminal facilities, comfort stations, rest rooms, telephones, landing platform) some steel and concrete.

Owner—Key System, Ltd., 2129 Grove St., Oakland.

Architect—Kent & Hass, 525 Market St., San Francisco.

As previously reported, structural steel awarded to Independent Iron Works, 821 Pine St., Oakland.

EUREKA, Humboldt Co., Cal.—Fred. J. Maurer, Eureka, at \$298 submitted low bid to Public Works Officer, U. S. Navy Yard, Mare Island, for improvements to the fire protection system at the U. S. Naval Radio Station, Eureka (Table Bluff). Spec. No. 7501.

Following bids received:

Fred. J. Maurer, Eureka.....	\$298
Theo. Johanns, San Francisco.....	375
Thos. Warren, Eureka.....	373
Fortuna Hdw. & Mfg. Co., Fortuna.....	560
City Imp. Co., Oakland.....	566

Bids held under advisement.

POINT REYES, Marin Co., Calif.—Joe. Piasecke, 345 Haight St., San Francisco, at \$1,124 submitted low bid to Public Works Officer, U. S. Navy Yard, Mare Island, to construct radio masts at the U. S. Naval Direction Finder Stations at Point Reyes and Point Montara. Spec. No. 7521. Following bids received:

Joe. Piasecke, San Francisco.....	\$1,124
Bennett & Taylor, L. A.....	1,179
Theo. Johanns, San Francisco.....	1,250
Eureka Elec Radio Co., S. F.....	1,280
City Imp. Co., Oakland.....	1,390
J. M. Peters, San Francisco.....	1,687
Severin Elec. Co., San Francisco.....	1,933

Bids held under advisement.

CATALINA ISLAND, Calif.—Santa Catalina Island Co., Avalon, will erect a mausoleum on Catalina Island for the Wm. Wrigley, Jr., estate. It will be a reinforced concrete structure, 60x 50 ft. in area, with an 80-ft. tower. Estimated cost, \$100,000. Work will be started at once. Bennett & Parsons, architects, Chicago.

SAN FRANCISCO—Columbia Steel Co., Russ Bldg., at \$3559 submitted low bid to the City Purchasing Agent, T. A. Brooks, for furnishing frogs and crossings for the Municipal Railway, under Invitation Bid 1095. Pacific Coast Steel Corp., San Francisco, at \$4225.50 submitted second low bid.

SAN FRANCISCO—Until Nov. 3, 2 P. M., bids will be received by T. A. Brooks, Purchasing Agent, Room 270, City Hall, for the sale of steel superstructure of pipe line bridge from old Niles Dam across Alameda creek, in Niles Canyon, Alameda County. All work of removal to be done by buyer. Bids to be submitted on the basis of price per ton. Estimated weight of bridge, 15 tons. Sale 83.

OAKLAND, Alameda Co., Cal.—Norton Manufacturing Co., Oakland, and Hugh O'Connor, San Francisco, at \$13.75 per 100 for license plates and \$46.7 per 100 for inserts submitted identical bids to City Council to furnish 6000 license tax plates and 3000 inserters.

October 30, 1933

Contract Awarded.

MAUSOLEUM Cost, \$18,220
TAFT, Kern Co., Calif.

Reinforced concrete mausoleum with tile roof (164 crypts, 44 urn receptacles, chapel and office).

Owner—West Side Cemetery District, Fourth Road District Headquarters Bldg., Taft.

Architect—Charles H. Biggar, Habersfelde Bldg., Bakersfield.

Contractor—Paul Opperman, 1327 Orange Drive, Bakersfield.

The chapel will have a tile floor and Travertine plaster walls with a marble base. Crypt sections will be built of gray Alaska marble with quarry tile floor.

Bids submitted by R. McGray, Taft, \$18,350; Stroud Brothers & Seabrook, Bakersfield, \$18,750; Henry Eissler, Bakersfield, \$22,500.

(5982) 1st report July 21; 3rd, March 21, 1933. 19

HAMILTON FIELD, Marin Co., Cal.—Trask & Squier Co., 39 Natoma St., San Francisco, awarded contract by the Constructing Quartermaster, Hamilton Field, San Rafael, for the construction of a boundary fence at Hamilton Field. Their bid was \$16,219 (line posts) and \$17,824 ("H" posts).

HAMILTON FIELD, Marin Co., Cal.—Following have procured plans from the Constructing Quartermaster, Hamilton Field, for constructing a five-ton natural draft type incinerator, on which bids are to be opened Nov. 9:

- W. Olsen & Son, Petaluma.
- Eddy Electric Co., 309 E. Weber St., Stockton.
- F. W. McCune, 726 45th Ave., San Francisco.
- Singer Kennedy, Chicago, Ill.
- Robert S. McKee, 108 W. 6th St., Los Angeles.
- William Spivock, Hobart Bldg., San Francisco.
- Soule Steel Co., 1750 Army St., San Francisco.
- A. H. Siemer, 431 San Anselmo Ave., San Anselmo.
- (Continued on next page)
- J. N. J. Firebrick Co., 475 Stevenson St., San Francisco.
- J. B. McIntosh, 1842 Gardena Ave., Glendale.

20—MISC. SUPPLIES AND MATERIALS

SAN FRANCISCO.—Golden Gate Iron Works, 1541 Howard St., at \$1,079 submitted low bid to the U. S. Forest Service, Ferry Bldg., for furnishing steel and miscellaneous materials and fabricating one 75-ft. steel truss span for Matilija bridge, Santa Barbara Forest, to be delivered f.o.b. cars or trucks, bidder's plant.

- Following is a complete list of bids:
- Golden Gate Iron Works.....\$1,079
 - Schrader Iron Works, S. F..... 1,140
 - Independent Iron W'ks, Oakland 1,222
 - Western Iron Works, S. F..... 1,250
 - Moore Dry Dock Co., Oakland 1,289
 - Herrick Iron Works, Oakland 1,324
 - McClintic-Marshall, S. F..... 1,400
 - Minneapolis Steel & Machinery Co., San Francisco..... 1,544
 - Judson-Pacific Co., S. F..... 1,631

CANAL ZONE.—As previously reported, Santa Cruz Portland Cement Co., at \$358,400 submitted low bid to General Purchasing Officer, Panama Canal, for furnishing 160,000 bbls. Portland cement under Sch. 2908. Identical bids at \$411,200 submitted by the following:

- Alpha Portland Cement Co., Easton, Pa.; Florida Port. Cem. Co., Tampa, Fla.; Lehigh Port. Cement Co., Allentown, Pa.; Lone Star Cement Co., New Orleans, Nazareth and Dallas; Vulcanitr Port. cement Co., New York City; Edison Cement Co., New York City; Trinity Port. Cement Co., Chicago.

OAHU T. H.—Following are additional contractors who have procured plans for the purpose of submitting bids to the Bureau of Yards and Docks Navy Department, Washington, D. C., on November 29 in connection with the construction of gate house, two vegetable lockers, two garbage houses, seven hose reel houses, twenty-two hose shelters, eighteen clothes yard enclosures, three tennis courts, two flag poles, one beacon tower, two beacon fixtures installations, sidewalks, road, one cesspool and one dry well at the Naval Ammunition Depot, Oahu (West Loch) and Lualualei, T. H. Specifications No. 7055:

- E. T. Thurston, Honolulu, T. H.
- Amerlean Factors, Matson Bldg., San Francisco.
- Anchor Post Fence Co., 460 5th St., San Francisco.

- Pacific Coast Steel Co., Twentieth and Illinois Sts., San Francisco.
- Soule Steel Co., 1750 Army St., San Francisco.
- Theo. H. Davies, Matson Bldg., San Francisco.
- Honolulu Iron Works, Honolulu, T. H.
- Standard Fence Co., 1940 San Bruno Ave., San Francisco.
- (2828) 1st report Oct. 17; 2nd Oct. 21, 1933.

SAN BERNARDINO, Cal.—Bids for the rental of four 4-yard dump trucks and for two 1/2-yd. shovels were opened by the State Highway Dept. Oct. 25. Low bidders were:

- Dump Trucks—Four 4-yard
- Irvin B. Merritt, Los Angeles, \$1.495 per hour.
- A. G. Bussey, Riverside, \$1.47 per hour for two trucks; \$1.83 for second 2.
- Shovels—Two 1/2-yard
- Geo. Butler, Los Angeles, \$2.75 per hour for one shovel.
- Chas. Holmes, \$3.15 per hour for one shovel and \$3.65 for the second shovel.
- H. H. Wheeler, \$4.40 per hour for one shovel.

FORT MASON, Cal.—W. S. Dickey Clay Mfg. Co., 116 New Montgomery St., San Francisco, at \$62.04 per M. submitted low bid to the Quartermaster Supply Officer, San Francisco General Depot, Fort Mason, for furnishing 20,000 Class No. S H-75, 2 1/4 x 4 1/2 x 9-in. fire-clay brick under Circular No. 928-34085. Complete bids follow:

- All bids quoted at price per M.:
- W. S. Dickey Clay Mfg. Co.....\$62.94
- Plant Rubber & Asbestos..... 62.50
- Harbinson & Walker..... 63.90
- Stockton Fire Brick Co., S. F..... 70.00
- Dee Engr. Co., S. F..... 70.00

G. E. Rahm Co., S. F.....115.00
All bids held under advisement.

OAKLAND, Alameda Co., Cal.—H. C. Norton Manufacturing Co., 3098 E. Tenth St., Oakland, at \$13.75 per 100 for license plates and \$4.67 per 100 for inserts, awarded contract by City Council to furnish 6000 license tax plates and 3000 inserts.

LOS ANGELES, Cal.—Contracts for furnishing Water and Power Dept. with bell and spigot cast iron pipe under Specification No. 2342 were awarded by A. J. Holm, Purchasing Agent, as follows:

- National Cast Iron Pipe Co., 625 S. Western Ave., Los Angeles:
 - Item (1) \$9975 for 15,000 ft. 6-in., del. Feb. 1;
 - Item (2) \$9975 for 15,000 ft. 6-in., del. Mar. 1;
 - Item (3) \$9975 for 15,000 ft. 6-in., del. Apr. 1;
 - Item (5) \$19,850 for 20,000 ft. 8-in. del. Mar. 15;
 - Item (6) \$20,000 for 20,000 ft. 8-in., del. Apr. 15;
 - Item (8) \$1614 for 600 ft. 16-in., del. Dec. 15.
 - Pacific States Cast Iron Pipe Co., 6800 S. Alameda, Huntington Park:
 - Item (7) \$20,050 for 20,000 ft. 8-in., del. May 15.
 - American Cast Iron Pipe Co., 412 W. Sixth St., Los Angeles:
 - Item (9) \$31,080 for 5000 ft. 24-in., del. Dec. 15.
 - R. D. Wood & Co., 1840 E. 15th St., Los Angeles:
 - Item (4) \$19,800 for 20,000 ft. 8-in., del. Feb. 15;
 - Item (10) \$13,744.50 for 5100 ft. 16-in., del. Dec. 15.
- Bids were opened October 19.

HANGARS — HAMILTON FIELD

HAMILTON FIELD, Marin Co., Cal.—Robert E. McKee, 108 W. 6th St., Los Angeles, at \$1,013,750 submitted low bid to Constructing Quartermaster, Hamilton Field to construct operations hangar and double hangars at Hamilton Field.

- Following bids received:
- (A) Robert E. McKee, Los Angeles, \$1,013,750.
 - (B) MacDonald & Kahn, San Francisco, \$1,017,000.
 - (C) Clinton Constr. Co., San Francisco, \$1,024,000.
 - (D) Herbert M. Baruch, Los Angeles, \$1,047,780.
 - (E) Barrett & Hilp, San Francisco, \$1,080,000.

Alternate proposals follow:

- (1) Operations hangar and three double hangars, including utilities;
- (2) Substituting wood piling in lieu of composition piling, deduct;
- (3) Substituting aluminas paint on all exposed structural steel work above ceiling line in lieu of gypsum fireproofing, deduct;

- (4) Substituting A.P.M. roofing in lieu of steel deck insulating and built-up roofing in hangar portions of building, deduct;
- (5) If straight steel sliding doors are omitted and in lieu, canopy type door is substituted, add;
- (6) Alternate to (5), add;
- (7) Alternate to (5), add;
- (8) Alternate to (5), add;
- (9) If cast aluminum coping is omitted and in lieu is installed copper coping, deduct;
- (10) Earth excavation, per cu. yd.;
- (11) Rock excavation, do;
- (12) Type "A" concrete, includ. forms, per cu. yd.;
- (13) Type "B" concrete, includ. forms, per cu. yd.;
- (14) Reinf. steel, per ton;
- (15) Brick in walls, per M.;
- (16) 8-in. tile in walls, per sq. ft.;
- (17) 4-in. tile in partitions do;
- (18) Wood piles, per lin. ft.;
- (19) Wood piles, each;
- (20) Composite piles, per lin. ft.;
- (21) Composite piles, each.

Complete bids follow:

	(A)	(B)	(C)	(D)	(E)
(1).....	\$1,013,750.00	\$1,017,000.00	\$1,024,000.00	\$1,047,780.00	\$1,080,000.00
(2).....	—	—	—	—	—
(3).....	54,000.00	48,250.00	69,000.00	49,000.00	64,500.00
(4).....	11,600.00	7,130.00	—	2,000.00	2,800.00
(5).....	45,000.00	38,000.00	37,000.00	68,000.00	35,000.00
(6).....	80,000.00	47,150.00	40,000.00	44,000.00	52,600.00
(7).....	55,000.00	71,160.00	50,000.00	35,000.00	20,635.00
(8).....	48,000.00	32,330.00	75,000.00	—	28,745.00
(9).....	2,500.00	6,152.00	4,000.00	15,000.00	4,300.00
(10).....	.45	.75	1.00	1.25	.75
(11).....	5.00	2.00	3.00	4.00	2.00
(12).....	12.50	11.00	12.50	12.00	15.00
(13).....	13.00	11.50	13.00	14.00	15.00
(14).....	75.00	77.00	95.00	80.00	80.00
(15).....	35.00	40.00	40.00	35.00	35.00
(16).....	.32	.32	.40	.35	.40
(17).....	.16	.17	.20	.17	.20
(18).....	.21	—	—	—	—
(19).....	21.00	—	—	—	—
(20).....	1.32	.25	.30	.83	.20
(21).....	43.50	50.00	1.00 per ft.	50.00	55.00

MACHINERY & MATERIAL

Bid calls for construction machinery and materials and miscellaneous equipment and supplies purchased by Federal, State, Municipal and other public agencies.

NAVY DEPARTMENT

WASHINGTON, D. C.—Bids will be received by the Bureau of Supplies and accounts, Navy Dept., Washington, D. C., for the following:

SHAPER, motor-driven woodworking for San Diego. Sch. 953; Nov. 7.

LATHE, motor-driven geared head engine, for Mare Island. Sch. 956; Nov. 7.

OVEN, electric core, 40 kw., for Los Angeles; Sch. 966; Nov. 7.

OVEN, electric core, 12 kw., for Mare Island. Sch. 966; Nov. 7.

GRINDERS, motor-driven pedestal type, 2, for Puget Sound. Sch. 977; Nov. 7.

of coil, 600 ft.; 3400 ft. Req. 172 NSA; Nov. 14;

ROPE, wire, steel, plow, black 6x37, regular lay, 1/2-in. dia., length of coil, 600 ft.; 13,200 ft. Req. 172 NSA; Nov. 14;

ROPE, wire, phosphor-bronze, 6x19, regular lay, 600 foot coils, 5/8-in. dia., 1800 ft. Req. 172 NSA; Nov. 14;

GROMMETS, spur, rolled-rim, complete with washers, type A, dia. of hole inserted, 5/8-in., 60 gross. Req. NSA-8/4405; Nov. 14;

ALUMINUM-TITANIUM, for deoxidizing in casting steel castings; 600 lbs. Req. NSA-8/4406; Nov. 15;

LUMINUM, strip, 0.022-in. thickness, width, 3/4-in.; 15 lbs. Req. NSA-8/4407; Nov. 15;

BRONZE phosphor, sheet, spring rolled; 30 lbs. Req. NSA-8/4408; Nov. 15.

GRINDERS, motor-driven wet tool, 2, for Mare Island. Sch. 975; Nov. 7.

COMPRESSORS, motor-driven portable air, 8, for San Diego. Sch. 972; Nov. 7.

FIRE ENGINE, motor-driven, for East or West Yards. Sch. 974; Nov. 7.

LATHE, motor-driven engine, 5, for Mare Island. Sch. 984; Nov. 10.

LATHE, motor-driven engine, 5, for East or West Yards. Sch. 984; Nov. 10.

PUMPS, and spares, motor-driven, fresh water, for Eastern & Western Yards. Sch. 979; Nov. 10.

FIRE EXTINGUISHING SYSTEM OUTFITS, Carbon-dioxide, 16, for Eastern and Western Yards. Sch. 982; Nov. 10.

HOISTS, chain, 2-ton capacity, 6, for San Diego. Sch. 1026; Nov. 10.

FILLERS, oil, 500, and 4600 oilers, for Eastern and Western Yards. Sch. 960; Nov. 14.

MACHINES, kitchen and cake, electrically operated, and spares, 2, for Mare Island. Sch. 967; Nov. 14.

LATHES, motor-driven, 16-in. swing woodworking, 3, for Puget Sound. Sch. 1001; Nov. 14.

WASHINGTON, D. C.—Bids will be received by the Bureau of Supplies and Accounts, Navy Dept., Washington, D. C., for the following:

CABLE, electric insulated for and welding, 30,000 ft., for Mare Island; Sch. 1008; Nov. 7.

SPONGES, loofa, 72,000, for East and West Yards. Sch. 970; Nov. 14.

EXCELSIOR, 96,000 lbs., for Mare Island. Sch. 963; Nov. 14.

MODESTO CITY

MODESTO, Stanislaus Co., Cal.—Bids will be received by H. E. Gragg, City Clerk, 717 10th St. Modesto, for the following:

PUMP, motor, and all necessary fittings for installation at the plant ready to operate; Nov. 8, 7:30 P. M.

U. S. FOREST SERVICE

Bids will be received by the U. S. Forest Service, Ferry Bldg., San Francisco, as follows:

DRILLS, air, rock, complete; 60; Nov. 7, 2:30 P. M.

HOSE, air, pneumatic, in 50-ft. lengths, 3/4-in.; 15,000 ft. Nov. 7, 2:00 P. M.

EQUIPMENT, anti-freeze compressed air line; 75 each. Nov. 8, 2:00 P. M.

FLUID, anti-freeze; 50 bbbls. Nov. 8, 2:00 P. M.

U. S. INDIAN SERVICE

WHITERIVER, Ariz.—Until Nov. 7, 8 A. M., bids will be received by Wm. Donner, Supt., Indian Agency, Whiteriver, Ariz., for corrugated metal pipe culverts as follows:

12 each, 24-ft. length, 16-ga., 18-in. diameter;

12 each, 24-ft. length, 16-ga., 24-inch diameter;

12 each, 24-ft. length, 14-ga., 30-inch diameter;

12 each 24-ft. length, 14-ga., 36-inch diameter;

12 each 24-ft. length, 14-ga., 42-inch diameter;

12 each 24-ft. length, 14-ga., 48-inch diameter.

CANAL ZONE

PANAMA CANAL ZONE. — Until Nov. 13, 10:30 A. M., under Schedule No. 2916, bids will be received at the office of the General Purchasing Officer, Washington, D. C., for the following supplies and materials:

(1) 1 lot of gratings and stair treads galvanized;

(2) 2 lots of railing fittings;

(3) 330 lin. ft. insulated copper cable;

(4) 1 lot of indoor potheads;

(5) 1 lot of outdoor potheads;

(6) 5,000 paint buckets;

(7) 150 gals. copper antifouling red paint;

(8) 270 gals. interior varnish;

(9) 50,000 lbs. white lead;

(10) 50,000 lbs. zinc oxide;

(11) 6,000 lbs. titanium pigment, dry;

(12) 1,000 lbs. zinc, metallic;

(13) 2,000 gals. turpentine;

(14) 5,000 wine gals. alcohol, ethyl;

(15) 20,000 lbs. fire clay;

(16) 100,000 lbs. cement, asph., steep roofing;

(17) 200 rolls felt roofing;

(18) 500 rolls roofing, asph. prepared;

(19) 500 pcs. air-brake hose, 1 1/2"x22-in.

(20) 7200 ft. manila rope;

(21) 3,000 lbs. colored wool waste;

(22) 6 rolls paper;

(23) 1 lot of colored lead pencils;

(24) 250,000 manila tags;

(25) 1 lot of cypress lumber, rough;

(26) 1 lot of hickory lumber;

(27) 1 lot of white oak lumber;

(28) 1 lot of northern white pine or sugar pine.

WAR DEPARTMENT

BREMERTON, Wash.—Bids will be received by the Supply Officer, Puget Sound Navy Yard, as follows:

PINS, cotter, split, brass, spring pointed; 4600. Req. NSA-8/4543; Nov. 8.

WASHERS, lock, spring-steel, positive; 18,000. Req. NSA-8/4546; Nov. 15.

SCREWS, machine; 135 gross, brass; 12 gross, steel. Req. NSA-8/4557; Nov. 15.

MET. WATER DISTRICT

LOS ANGELES, Cal.—Until November 14, 11 A. M., bids will be received by the Metropolitan Water District, 306 West Third St., Los Angeles, for furnishing 2500 tons of liner plates and other fabricated steel for tunnel support, in accordance with Specifications No. 61, copies of which may be obtained at Room 1007, upon payment of \$2.00 per set. F. E. Weymouth, General Manager and Chief Engineer. Certified or cashier's check for 10% must accompany cash bid.

The schedules of items which call for steel support for both 15 ft. 3-in. and 16-ft. tunnels, are as follows:

SCHEDULE I

For furnishing steel tunnel liner plates, complete with bolts and other accessories:

(1) 160 tons liner plates, 16-in. wide by 37 11/16-in. or 18 27/32-in. long by 3/16-in. thickness;

(2) 135 tons liner plates, 16-in. wide by 37 11/16-in. or 18 27/32-in. long by 5/32-in. in thickness;

(3) 975 tons liner plates 16-in. wide by 37 11/16-in. or 18 27/32-in. long by 1/8-in. in thickness;

(4) 95 tons liner plates 16-in. by 37 11/16-in. or 18 27/32-in. long by 7/64-in. in thickness;

(5) 600 grout connections in liner plates.

SCHEDULE II

For furnishing structural steel ribs complete with bolts and splices:

(6) 800 tons of 6-in. 12.5 lb. I-beams;

(7) 55 tons ribs of 5-in. 10.0 lbs. I-beams;

(8) 475 tons ribs of 4-in. 7.7 lb. I-beams.

SCHEDULE III

For furnishing structural steel wall beams complete with splice plates and bolts:

(9) Wall beams 6-in. 20.0 lb. CH or 20.0 lb. GH, or equal, 210 tons;

(10) 20 tons wall beams 6-in. 15.5 lb. BH or equal.

SCHEDULE IV

For furnishing structural steel columns complete with bolts:

(11) 80 tons columns 6-in. 20 lb. CH or 20 lb. BH or equal;

(12) 140 tons 6-in. 15.5 lb. BH or equal;

(13) 75 tons 4-in. 13.9 lb. BH or 13.8 CH or equal.

SPECIFICATIONS have been issued to the following:

Commercial Shearing & Stamping Co., Youngstown, Ohio., 1138 Glenville St., Los Angeles.

Consolidated Steel Corp., 6500 E. Slauson Ave., Los Angeles.

Truscon Steel Co., 5480 E. Slauson Ave., Los Angeles.

ENGINEERING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

21.—Bridges	30.—Reservoirs and Dams
22.—Dredging, Harbor Works, Excava.	31.—Pipe Lines and Wells
23.—Irrigation Proj.	32.—Sewers & Sewage Disposal Plants
24.—St. Light. Systems	33.—Water Works
25.—Machinery and Equipment	34.—Parks & Playgrounds
26.—Railroads	35.—Tunnels
27.—Fire Alarm Sys.	
28.—Fire Equipment	
29.—Streets & Highways	

21— BRIDGES

LOS ANGELES, Calif.—Associated Constructors, Inc., 1226 E La Brea Ave., Los Angeles, at \$77,521.95 (for unit No. 1), and McClintic-Marshall Co., 11,000 S Central Ave., Los Angeles, at \$33,718.00 (unit No. 2—steel) submitted low bids to the Los Angeles Board of Public Works for constructing the Soto Street bridge across the Pacific Electric Railway and Ramona Blvd., improving the intersections of Soto Street and Marengo St. and Soto Street and Charlotte Street, including approaches to the bridge; also the relocation of a sewer across the Los Angeles river between Soto St. and Vernon-Downey road. The proposed bridge will have a steel superstructure with concrete deck slab and concrete piers, 430 ft. in length, 44 ft. wide. R. W. Stewart, chief engineer of bridge and viaducts.

Complete bids follow:

- (A) Associated Constructors, Inc., Los Angeles, \$77,521.95.
- (B) David Reed & Joseph Maiser, Los Angeles, \$80,845.36.
- (C) R. E. Campbell, Los Angeles, \$84,855.75.
- (D) Engstrom Const. Co., Los Angeles, \$87,368.53.
- (E) Creighton, Inc., Los Angeles, \$87,916.86.
- (F) Dimmitt & Taylor, Los Angeles, \$88,485.86.
- (G) F. J. Akmadzieh, Los Angeles, \$88,889.79.
- (H) Lynch-Cannon Engr. Co., Los Angeles, \$92,559.35; (steel at \$41,000).
- (I) Byerts & Dunn, Los Angeles, \$94,526.85.
- (J) Case Const. Co., Los Angeles, \$97,637.28.
- (K) Weymouth-Crowell Co., (bid irregular).
- (L) McClintic-Marshall Corp., steel only, \$33,718.
- (M) Consolidated Steel Corp., steel only, \$39,500.
- (N) Minneapolis-Moline Power Imp. Co., steel only, \$42,740.
- (O) Engineer's estimate, \$32,280.86.

MARE ISLAND, Cal.—The following have procured plans for the purpose of submitting bids to the Public Works Officer, Mare Island, on Nov. 12 in connection with the construction of a new causeway between Mare Island and Vallejo. Spec. No. 7448:

Healy-Tilbitts Const. Co., 64 Pine St., San Francisco.
Barrett & Hilp, 918 Harrison Street, San Francisco.

M. E. McGowan, 74 New Montgomery St., San Francisco.

MacDonald & Kahn, Financial Center Bldg., San Francisco.

Clinton Const. Co., 923 Folsom St., San Francisco.

San Francisco Bridge Co., 503 Market St., San Francisco.

Westinghouse Electric Co., 260 5th St., San Francisco.

Moore Dry Dock Co., foot of Adeline St., Oakland.

Pan-Pacific Piling and Const. Co., 2145 E 25th St., Los Angeles.

Leroy Building Service, 165 Jessie St., San Francisco.

Minneapolis Moline Machinery and Equipment Co., Chapman Bldg., Los Angeles.

IMPERIAL CO., Cal.—Lynch Cannon Engr. Co., 5658 Wilshire Blvd., Los Angeles, at \$76,367 awarded contract by State Highway Commission, Sacramento, to construct timber bridges and to grade and pave approaches with asphalt concrete in Imperial County.

JEFFERSON COUNTY, ORE.—C. J. Montag, Portland, at \$44,212, awarded contract by the State Highway Commission, for the construction of a bridge over Deschutes River and two bridges over Shitike Creek on the Warm Springs Highway near Madras. Complete bids follow:
C. J. Montag, Portland\$44,212
Thee. Arenz, Portland 51,318
J. J. Badraun, Portland..... 58,879
Parker-Schram Co., Portland..... 59,427
Portland Bridge Co..... 66,540

HARNEY COUNTY, Oregon—E. W. McCall, Klamath Falls, at \$8439.45 awarded contract by State Highway Commission for constructing two bridges on the Central Oregon Highway near Drewsey. Complete bids follow:

E. W. McCall, Klamath Falls, Oregon, \$8439.45.
Clifton & Applegate, Spokans, Wash., \$9455.
Tom Lillebe, Reedsport, \$10,514.
Oregon-Washington Bridge Co., Toledo, Wash., \$10,770.50.
F. H. May, Bend, \$10,796.50.
Guthrie-McDougall Co., Portland, \$11,887.50.
Dunn & Baker, Klamath Falls, \$12,475

LINCOLN COUNTY, Oregon.—Until November 14, 10 a. m., bids will be received by L. V. Murrow, Director of Highways, Olympia, Wash., for constructing a 12-ft. reinforced concrete slab bridge with 70-ft. roadway and two 5-ft. side-walks and a 4-ft. by 4-ft. reinforced concrete box culvert 80 ft. long on State Road No. 7, National Recovery Municipal Highway Project No. NRM 129-B, in Harrington, Lincoln Co., Wash.

Plans and specifications obtainable at above office upon deposit of \$2.

SAN JOAQUIN COUNTY, Cal.—Until Nov. 20, 11 A. M., bids will be re-

ceived by the County Board of Supervisors, Court House, Stockton, for reconstructing 15 small bridges involving the removal of the deck, center piers and portions of the abutments and wing walls, the construction of new abutments, piers, footings, wing walls and decks on concrete bridges on the Mariposa Road, involving approximately 1301 cu. yards of concrete and 78 tons reinforcing steel.

Plans and specifications obtainable at the office of County Surveyor J. B. Manthey in the San Joaquin Court-house at Stockton.

DOUGLAS ARIZ.—Until November 24, 2 p. m., bids will be received by the Treasury Department, Procurement Division, Public Works Branch, Washington, D. C., for constructing a concrete bridge and approaches at the U. S. Inspection Station, Douglas, Arizona.

Drawings and specifications may be obtained from the Custodian of the building or at the above office at the discretion of the Supervising Architect, Jas. A. Wetmore, Acting Supervising Architect.

MALHEUR COUNTY, Oregon—All bids rejected by the Oregon State Highway Commission, Portland, for bridge and 1.18 miles grading on highway, Malheur County.

SACRAMENTO, Cal.—The Sacramento Board of Supervisors instructed County Engineer John Rooney to prepare plans and specifications for repairing a bridge across Arcade Creek on El Camino Ave. \$2400 has been set aside for the project.

22—DREDGING HARBOR WORKS EXCAVATION

ALAMEDA COUNTY, Cal.—Until November 15, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for constructing rock retaining wall about 4.1 mi. in length, and miscellaneous riprap to be placed; the work is between the westerly end of the Key Mole fill and the foot of Folger Ave., Berkeley East Bay Approach to the San Francisco-Oakland Bay Bridge. The work involves:

- (1) 232,000 tons core rock retaining wall and riprap based on weight of 160 lbs. per solid dry cu. ft.;
- (2) 116,000 tons face rock retaining wall and riprap based on weight of 160 lbs. per solid dry cu. ft.

Plans and specifications are obtainable at above office, and are on file at the offices of the District Engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

YOLO COUNTY, Calif.—Olympian Dredging Co., 249 First St., San Francisco, at \$2395 per cubic yard, submitted low bid to the U. S. Engineer, Sacramento, under Spec. No. 5572 for placing 525,000 cubic yards of embankment along existing levee on the easterly side of the Yolo By-pass between the Yolo Causeway and Miner Slough a distance of about 20.2 miles.

Franks Contracting Co., San Francisco, at \$253 per cubic yard, submitted the only other bid received.

Engineer's estimate, \$204 (does not include supervision, surveys, etc.)

MARYSVILLE, Cal.—Swinyer Construction Co., 219 Serra Madre Ave., Pasadena, at \$2480 submitted low bid to U. S. Engineer, Sacramento, under

CAPITAL CITY TITLE COMPANY

J. C. PALEN,
Manager

914 Seventh Street
Sacramento :: California

Specification No. 5533 for placing a slab levee on the east bank of the Feather River at Marysville for a distance of approximately 900 feet. The contract includes moving approximately 15,000 cubic yards of material. Complete bids follow:

- Swiner Constr. Co., Pasadena (1) per cu. yd. .16; (2) total, \$2480.
 - Claud Sherman, Woodland, (1) .165; (2) \$2557.50.
 - C. A. Baker, Sacramento (1) .17; (2) \$2635.
 - Hemstreet & Bell, Marysville, (1) .18; (2) \$2790.
 - M. J. Bevanda, Stockton, (1) .1925; (2) \$2983.75.
 - F. N. McGaw and L. Hecht, Stockton (1) .211; (2) \$3270.50.
- Bids held under advisement.

ALAMEDA COUNTY, Calif.—Coast Guard Engr. Section, Washington, D. C., preparing plans and specifications for construction of 1600 ft. seawall at Government Island, San Francisco Bay. Estimated cost, \$290,000.

- ALAMEDA COUNTY, Cal.**—Until November 15, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for grading 4.1 mi. between the westerly end of the Key Mole fill and the foot of Folger Ave., Berkeley East Bay approach to the San Francisco-Oakland Bay Bridge, by dredging and placing selected dredger material fill. The work involves:
- (1) 100 lin. ft. remove and reconstr. exist. 6-ft. 0-in. by 6-ft. 2-in. sewer;
 - (2) 50 lin. ft. remove and reconstr. exist. 3-ft. 6-in. by 3-ft. 6-in. sewer;
 - (3) 946,000 cu. yds. dredging;
 - (4) 3,625,000 cu. yds. dredger sand fill;
 - (5) 7990 cu. yds. struc. excav.;
 - (6) 498 cu. yds. Class A Port. cem. conc. struc.;
 - (7) 47,600 lbs. bar reinf. steel struc.;
 - (8) 2560 lin. ft. furnish untreated Douglas Fir piles;
 - (9) 84 each driving piles;
 - (10) 430 lin. ft. 8-inch vitrified sewer pipe;
 - (11) 976 lin. ft. 12-in. do;
 - (12) 140 lin. ft. 24-in. do;
 - (13) 520 lin. ft. 30-in. do;
 - (14) 356 lin. ft. 18-in. CMP;
 - (15) 366 lin. ft. 24-in. CMP;
 - (16) 190 lin. ft. 36-in. CMP;
 - (17) 4 each cutting openings in exist. concrete sewer;
 - (18) 215 sta. yds. finishing roadway.

Supplemental item:
(Note: This item will not be included when comparing bids).
140,000 cu. yds. dredger sand fill; private fill on property of Paraffine Companies, Inc.

The state will furnish corrugated metal pipe and tidegates as more explicitly set forth in the special provisions.

Plans and specifications are obtainable at above office, and are on file at the office of the District Engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

COLUSA COUNTY, Cal.—Lord & Bishop, Box 355, Oroville, Calif., at \$2.75 per ton (average) submitted low bid to U. S. Engineer, Room 208 Post Office Bldg., Sacramento, under Specification No. 5548, for placing approximately 12,600 tons of rip-rap stone along five sections of the banks of the Sacramento River near Princeton.

Daniel Contracting Co., 503 Market St., San Francisco, at \$4.98 per ton (average) submitted only other bid received. Engineers Estimate \$3.10 per ton.

Lord & Bishop bid as follows on various sections of the work: Sailors Bend, \$2.90; Hankins Place, \$2.90; Hamilton Bend, \$3.00; Wohlfrom Bend

\$3.10; Hart Steele Place, \$3.50. Average \$2.75, if awarded entire contract.

SACRAMENTO, Cal.—Until Nov. 10 3 P. M., bids will be received at the office of the District Engineer, Capt. J. G. Drinkwater, U. S. Engineer's office, Room 208, Post Office Bldg., Sacramento, for furnishing and placing approximately 30,000 tons of rip-rap stone along the banks of the Sacramento river at various points between the mouth of Cache Slough and Collinsville. Spec. No. 5575.

Specifications obtainable at above office.

SACRAMENTO, Cal.—Until Nov. 8, 3 P. M., bids will be received at the office of the District Engineer, Capt. J. G. Drinkwater, U. S. Engineer's office, Room 208, Post Office Bldg., Sacramento, for furnishing and placing approximately 30,000 tons of rip-rap stone along the banks of the Sacramento river at various points between the mouth of Cache Slough and Collinsville. Spec. No. 5574.

Specifications obtainable at above office.

SAN FRANCISCO—See item under "19—Miscellaneous Construction."

FORT MASON, Calif.—Ben C. Gerwick, 112 Market St., San Francisco, at \$47,117 submitted low bid to the Constructing Quartermaster, Ft. Mason, for dredging at U. S. Army Transport Docks, Fort Mason. Complete bids follow:

- (A) Ben C. Gerwick, S. F. \$47,117
- (B) S. F. Bridge Co. 55,873
- (C) Healy-Tibbitts Const. Co. 57,240
- (D) Franks Contr. Co. 68,558

Unit prices for moving (1) additional dirt; and (2) additional rock, follow:

	(1)	(2)
(A).....	\$0.32	\$ 8.66
(B).....	.30	8.00
(C).....	.25	8.00
(D).....	.33	10.66
		22

MARE ISLAND, Cal.—The following have procured plans for the purpose of submitting bids to the Public Works Officer, Mare Island, on Nov. 9 in connection with the extension of Dike No. 12, Mare Island:

Daniel Contracting Co., 503 Market St., San Francisco.

Ben. C. Gerwick, 112 Market St., San Francisco.

Barrett & Hilp, 918 Harrison Street, San Francisco.

Healy-Tibbitts Const. Co., 64 Pine St., San Francisco.

San Francisco Bridge Co., 503 Market St., San Francisco.

A. W. Kitchen, 110 Market St., San Francisco.

MacDonald & Kahn, Financial Center Bldg., San Francisco.

K. E. Parker Co., 135 South Park, San Francisco.

Arthur J. Grier, 480 Chetwood, Oakland.

Franks Contracting Co., 260 California St., San Francisco.

M. B. McGowan, 74 New Montgomery St., San Francisco.

Basalt Rock Co., Napa.

American Dredging Co., 255 California St., San Francisco.

Pan-Pacific Piling and Const. Co., 2145 E 25th St., Los Angeles.

SACRAMENTO, Cal.—Until Nov. 11, 3 P. M., bids will be received at the U. S. Engineer's Office, War Dept., 208 Post Office Bldg., Sacramento, for dredging 2,760,000 cu. yds. from the Sacramento river along the westerly edge of Lower Brannan Island, extending from near the head of Three Mile Slough upstream for a distance of approximately .7 mile. Spec. No. 5303 and Drawing File No. 50-6-1359-1

obtainable at the above office or at the office of the Division Engineer, Pacific Division, 414 Custom House, San Francisco, a

SAN DIEGO, Cal.—Until November 7, 11 A. M., bids will be received by Capt. DeWitt C. Webb, Public Works Officer, Headquarters, 11th Naval Dist. Foot of Broadway, San Diego, for the following:

- (1) Dredging of areas (approximately 65,000 cu. yds.);
 - (2) Construction of a timber bulkhead (approx. 865 ft. long);
- The work is to provide and maintain a berth for a floating dry dock. Specifications obtainable from the above office upon deposit of \$10.

PEARL HARBOR, T. H.—Following have procured plans for fleet moorings at Pearl Harbor from the Bureau of Yards & Docks. Bids open Dec. 13:

W. P. Thurston Co., Richmond, Va.
Hawaiian Contracting Co., Honolulu.

NEWPORT BEACH, Cal.—The Newport Harbor Chamber of Commerce has announced that the county bond election to vote on a bond issue to finance the construction of a harbor at Newport Bay, may be called for December 12. The cost of the harbor work is estimated at \$1,902,966 and the project will involve 190,000 tons rock; 7,692,000 cu. yds. dredging. Application for federal public works funds will probably be made within the next few weeks. R. L. Patterson, Newport Beach, Engineer.

SACRAMENTO, Cal.—Until Nov. 14 3 P. M., bids will be received by U. S. Engineer, Room 208, Postoffice Bldg. Sacramento, for dredging an irregular shaped area in the Sacramento River Flood Channel along the westerly edge of Lower Brannan Island, extending approximately 1.7 miles upstream from Three-Mile Slough, involving removal of 2,760,000 cu. yds. of material. Spec. No. 5303 and drawings obtainable from above office.

23— IRRIGATION PROJ.

IMPERIAL CO., Cal.—Federal Public Works Administration at Washington, on October 24 allotted the sum of \$6,000,000 toward the construction of the All-American Canal, which is designed to supply water to the Imperial Valley. The total cost is estimated at \$27,000,000 which does not include construction for power development.

Construction of the canal will be done by the Bureau of Reclamation. The project will be self-liquidating under the Reclamation Act. The government will be repaid by Imperial Valley water users.

The first allotment will provide for the construction of the canal from the Colorado river to Hanlon's Landing. This work will extend over the greater part of one year.

HAMILTON FIELD, Cal.—Bids for the Electrical Distribution System, Hamilton Field, Spec. 6754-51, have been postponed from October 30 in order to revise specifications. All bidders are requested to return plan No. 3-1006-2 and Spec. No. 6754-51. The work will be re-advertised shortly. Capt. Leander Larson, Constructing Quartermaster, Hamilton Field.

24— STREET LIGHTING SYSTEMS

LOS ANGELES, Cal.—Walker & Martin, 1241 E. Florence St., Los Angeles, at \$14,722, submitted low bid to Los Angeles Board of Public Works, for constructing an ornamental light-

ing system, in streets in the 32d St. and University Ave. Improvement District, consisting of 51 Union Metal No. 8705 posts of pressed steel ornamental lighting, equipped with G. E. 124 lighting units, as per special plan No. B-1724, and standard plan No. B-1723. The other bids were:
Newberry Elec. Co., \$14,732.
W. H. Rumble, \$14,889.
D. S. McEwan, \$15,135.
Union Metal Co., \$15,200.
Dual Construction Co., \$15,435.
R. C. Spillsbury & Bennett, \$15,785.
H. O. Banerie, \$16,974.

SAN JOAQUIN COUNTY, Cal.—South San Joaquin Irrigation District Board of Directors has applied to the Federal Public Works Administration for a loan and grant of \$232,000 to finance repairs and replacement on the main water supply system of the district. G. K. Parker, Engineer.

25—MACHINERY AND EQUIPMENT

BIDS WANTED—All bid calls formerly published under this heading now appear under the special heading "Machinery and Materials."

LOS ANGELES, Calif.—Robert M. Hartwell Co., 353 E 2nd St., Los Angeles, at \$808.50 awarded contract by Saul A. Joseph, Purchasing Agent, Metropolitan Water District, for furnishing centrifugal pump under Bid 16583. The other bids were:
Westco Pump Sales Co., \$ 790.87
Petroleum Equip. Co., 999.92
Byron Jackson Co., 1008.50
Smith, Booth, Usher Co., 1107.00
Pacific Pump Works, Ltd., 1111.00
Worthington Co., Inc., 1934.50

PUGET SOUND, Wash.—Following have procured plans for motor generator, Spec. 7485, from the Bureau of Yards & Docks. Bids open Nov. 1:
Electric Dynamo Co., Bayonne, New Jersey.

Buffalo Gasoline Motor Co., 1280 Niagara St., Buffalo, N. Y.
Fairbanks Morse and Co., 1427 1 St., N. W., Washington, D. C.
Electrical Specialty Co., Sanford, Conn.

General Electric Co., Schenectady, N. Y.

Ideal Elec. & Mfg. Co., 1706 Connecticut Ave., Washington, D. C.

SAN FRANCISCO—Following bids were received by the U. S. Forest Service, Ferry Bldg., for the following equipment, f.o.b. San Bernardino:
(A) Drill, upright, to be operated from line shaft.

(B) Press, hydraulic (Manley 40-ton or equal).

(C) Aligner, piston rod (Storm Rite test or equal).

Harron, Rickard & McCone, 1600 Bryant St., San Francisco (a) \$182.79; (h) \$188.95.

Baker, Hamilton Pacific Co., 7th and Townsend Sts., San Francisco, (a) \$190.45, Alt. \$177.40; (h) \$168.

Herberts-Moore Machinery Co., 550 Fifth St., San Francisco, (a) \$215; (b) \$145 (Item 2 does not meet specifications).

Waterhouse - Lester - Scovel, 636 Van Ness Ave., San Francisco, (a) \$215 (b) \$153; (c) \$40.

Smith-Booth-Usher, 228 S. Central St., Los Angeles, (a) \$236; (b) \$166; (c) \$50.

Taylor & Spotswood Co., 698 Minnesota St., San Francisco, (a) \$239.50 Alt. \$289.50.

Chanlor & Lyon Stores, Inc., (used), (a) \$95; (b) \$155; (c) \$41.50.

Featherstone, Inc., 180 S-Hill St., Los Angeles (b) \$164; (c) \$45.

W. E. & W. H. Jackson, 255 9th St.,

San Francisco, (b) \$165; (c) \$41.50.
Manley Mfg. Co., 425 Second St., San Francisco, (b) \$191.
All bids under advisement.

BISHOP, Inyo Co., Cal.—All bids received by Grant Goodale, assistant State Purchasing Agent, State Bldg., Los Angeles, on October 25, for furnishing two 5000 gallon ground gasoline storage tanks to Bishop under Req. No. 95138 have been cancelled.

NORTH HOLLYWOOD, Cal.—Following bids received by the State Purchasing Agent, Sacramento, for furnishing tractor under Requisition No. 6306, f. o. b., North Hollywood (Identical bids):

J. D. Adams Co., San Francisco, \$2764.20.

Shepherd Tractor & Equipment Co.,

Los Angeles, Caterpillar, \$2764.20.

Creek Co., Los Angeles—Allis-Chalmers, \$2764.20.

Smith Booth Usher Co., Los Angeles, —Cletrac, \$2764.20.

NORTH HOLLYWOOD, Cal.—Following bids received for furnishing a gasoline engine driven street sweeping machine and equipment for North Hollywood under Requisition No. 6243, by the State Purchasing Agent, Sacramento

Kinney Mfg. Co., Los Angeles, \$7,131.92 (bid does not include broom

filling machine nor pneumatic

tires with puncture-proof tubes).

Concrete Machinery Co., Los Angeles, "Austin," \$7370.

Associated Equipment Co., Los Angeles, "Elgin," \$7370.

Austin Western Road Machinery Co., Los Angeles, "Austin," \$7370.

28—FIRE EQUIPMENT

SOUTH SAN FRANCISCO—South San Francisco City Council has authorized Mayor Joseph P. Quinlan to inspect hook and ladder apparatus with a view to recommending suitable equipment for the city fire department. Fire Chief A. J. White has recommended purchase of a ladder truck equipped with life nets, salvage equipment, and 1000 ft. of hose. Estimated cost, \$10,000.

GUSTINE, Cal.—Following bids received by W. L. Chappell, Clerk of the Board of Trustees, Gustine, for furnishing one 500-gal. capacity combination pumping engine and hose car with 100-gal. capacity water tank and equipment for the fire department of Gustine:

Studebaker Corp., Newman.....\$5269

P. M. Van Pelt, Oakdale, Prop. 1 3425

P. M. Van Pelt, Prop. 2..... 4765

P. M. Van Pelt, Prop. 3..... 2650

Mark Intern'tl Motor Co., type

50..... 6000

Type 55..... 6800

Ahrens Fox Fire Engine Co..... 6000

Seagrave Corp., S. F. (Prop. 1).... 6230

Prop. 2..... 6000

American La-France, S. F..... 6150

The bids of the Seagrave Corp. and

American La-France have been held

for further consideration. All others

have been rejected.

30—RESERVOIRS & DAMS

UPLAND, Cal.—R. G. Manley, city service manager, has announced that plans and specifications for 3 small reservoirs are being prepared preliminary to the application for N. R. A. funds. The cost is estimated at \$60,000. The previous plans provided for one 5,000,000-gallon reservoir, but subsequent plans are substituting 3 small reservoirs of the same total capacity.

BONNEVILLE, Oregon—General Construction Co., 3840 Iowa Street,

Seattle, at \$668,500 awarded contract by U. S. District Engineer, 306 Customhouse, Portland, Oregon, for excavation at the Bonneville Dam site. Complete bids follow:
General Constr. Co., Seattle, \$668,500.

Utah Constr. Co., and Morrison Knudson Co., Boise, Idaho, \$773,500.

Guy F. Atkinson Co., Portland, Ore., \$1,228,500.

32—SEWERS & SEWAGE DISPOSAL PLANTS

ONTARIO, Cal.—Frank Currie, consulting engineer, Anderson Block, San Bernardino, has completed preliminary plans for the construction of a sewage disposal plant to be built in Ontario for the City of Ontario. An application will be made to the Federal Administration of Public Works for funds to finance the project.

LOS ANGELES, Cal.—Los Angeles County Sanitation Districts 1, 2, 5 and S. A. K. Warren, 202 Law Bldg., Chief Engineer and General Manager, applied to the Federal Administration of Public Works for a loan of \$1,950,000 and a grant of \$840,000 to finance the construction of the White's Point Out-fall Sewer. The total cost is \$2,820,000.

FT. WINFIELD SCOTT, San Francisco, Cal.—Frederick W. Snook Co., 596 Clay St., San Francisco, at \$1175 awarded contract by War Department for extending sewer system at Fort Winfield Scott.

FORT MASON, Cal.—Scott Co., 243 Minna St., San Francisco, at \$2516 awarded contract by War Department, Washington, D. C., for constructing extensions to sewer system at Fort Mason.

REDWOOD CITY, Cal.—Redwood City Council has authorized City Manager E. A. Rolison and City Engineer Charles Dimmitt to consult Federal Public Works Officials on the possibility of obtaining a grant of \$24,000 toward a proposed extension of storm sewers, to cost \$80,000. In the event a grant is obtained it is proposed to issue bonds for the balance.

NORTH SACRAMENTO, Cal.—Harry Jenks, Sanitation Engineer, is to submit plans to the North Sacramento City Council for a sewage treatment plant. Estimated cost, \$20,000.

33—WATERWORKS

FORT BRAGG, Mendocino Co., Cal.—Fort Bragg city council has received a preliminary report on improvement of municipal water system, involving construction of a 15-ft. dam in Covington gulch and laying 10,000 ft. of 6-in. pipe. Estimated cost of project, \$17,130. The city plans to apply for a Federal Public Works loan to aid in financing the work. Preliminary survey by A. W. Riggars.

BRAWLEY, Imperial Co., Cal.—Bonds in the amount of \$331,000 were affirmed at a special election held by the City of Brawley, to finance the construction of water system extensions, a filtration plant and sewer improvements. An application will be made to the Federal Administration of Public Works for a loan.

SEATTLE, Wash.—Puget Sound Machinery Depot, at \$23,613 awarded contract by the Seattle Board of Public Works for the installation of 24-in. and 36-in. diameter coal tar pipe line on Fifth Avenue SW.

NORTH SACRAMENTO, Cal.—C. L. Knight, North Sacramento city engineer, has completed cost estimates for constructing a domestic water supply and distribution system for which an application has been made to the Federal Administration of Public Works for funds in the amount of \$102,335 to finance the project. The work involves:

Pumping Plant and Equipment

- (1) 3 14-in. wells, 150 ft. deep;
- (2) 50-hp. deep well pumps;
- (3) 1 75,000-gal. elevated tank;
- (4) 3 pump houses;
- (5) 1 truck;
- (6) 1 corporation yard and buildings;
- (7) tools, etc.

Estimated cost, \$16,400.

Cast Iron Distribution System

- (1) 8,400 ft. 12-in.;
- (2) 22,000 ft. 6-in.;
- (3) 19,600 ft. 8-in.;
- (4) 2,900 ft. 10-in.;
- (5) 11,000 ft. 4-in.

Estimated cost, \$48,230.

Gates

- (1) 5 12-in.;
- (2) 3 10-in.;
- (3) 20 8-in.;
- (4) 100 6-in.;
- (5) 30 4-in.

Estimated cost, \$48,230.

Fittings and Miscellaneous

- (1) wyes, tees, crosses, ells, reducers
- (2) 15,000 lbs. leadite;
- (3) 600 lbs. hemp;
- (4) 50 fire hydrants;
- (5) 500 tap connections;
- (6) 5,000 ft. 3/4-in. pipe;
- (7) 500 corporation cocks;
- (8) 500 gate valves;
- (9) 500 ft. lead pipe;
- (10) 64,000 ft. trenching;
- (11) 1,200 tons distribution;
- (12) 64,000 ft. laying pipe;
- (13) 700 sq. ft. pavement, remove and replace.

Estimated cost, \$29,375.

VICTORVILLE, Calif.—Charles L. Foulkes, 455 Fourth St., San Bernardino, has completed specifications for constructing a water distributing system in Victorville for the Victorville County Water District which has applied to the Federal Administration of Public Works for a loan of \$50,000, bond in that amount having been voted by the district. Bids will be taken as follows:

- Item (1) 300 cu. yds. excavation;
- Item (2) reservoir, 150,000 gals. (reinforced concrete, ring tension);

- (1) 1634.5 cu. yds. ft. wall;
 - (2) 370.5 cu. ft. wall footings;
 - (3) 16 cu. ft. one column;
 - (4) 13.5 cu. ft. column footing;
 - (5) 623.3 cu. ft. floor;
 - (6) 48 cu. ft. expansion joints footings
 - (7) 14 cu. ft. outlet pipe casing;
- Item (3) expansion joints
- (1) 209 lin. ft. oakum, mastic, 2-ply burlap and aquatite around column along wall and at all expansion joints.

Roof In Place

- (1) 1556 sq. ft. lumber;
- (2) 1556 sq. ft. roofing.

Pipe

- (1) 8 ft. 6-in. cast iron pipe;
- (2) 12 ft. 4-in. cast iron pipe;
- (3) 12 ft. 1 1/2-in. galv. iron pipe.

Hardware

- (1) bolts, hinges, clasps, etc.;
- (2) 2057 sq. ft. painting entire inner surface of reservoir with aquatite;
- (3) 126 lin. ft. copper water stop construction joint with mastic and felt strips;
- (4) 17 ft. strap iron ladder installed.

Gate Valves

- (1) 32 4-in. gate valves with boxes;
- (2) 12 6-in. do;
- (3) 9 base type hydrants, 4-in. valve opening, 6-in. main connection;
- (4) 6 base type hydrants, 4-in. valve opening, 4-in. main connection;

- (5) 2 wells drilled to 250 ft. each, 16-in. double cased; also 30 ft. of 24-in. casing installed with cement grout filling;
- (6) meters 3/4x3/4 or 3/4x1/2-in. complete with connections.

Cast Iron Pipe

- (1) 22,550 lin. ft. 4-in. cast iron pipe;
- (2) 11,630 lin. ft. 6-in. do.

W. G. Roberts, Victorville, is president of the district.

34—PARKS AND PLAY-GROUNDS

SAN FRANCISCO—See Item under "19—Miscellaneous Construction."

SEATTLE, Wash.—Maeri & Steffenson, Seattle, Wash., at \$22,720 submitted low bid to Treasury Department, Washington, D. C., in connection with fencing, lawns, etc., at the U. S. Marine Hospital at Seattle, Washington. Second low bid was submitted by Western Constr. Co., Seattle, at \$24,412. Complete bids will be published shortly.

SACRAMENTO, Cal.—Until November 9, 8:15 p. m., bids will be received by the City Clerk for the City Council, Room 203, City Hall, Sacramento, for furnishing and installing steel fencing at the Municipal Airport, Sacramento.

Plans and specifications on file at the office of the City Clerk, H. G. Denton.

SACRAMENTO, Cal.—Until November 9, 8:15 p. m., bids will be received by the City Clerk for the City Council, Room 203, City Hall, Sacramento, for furnishing and installing steel fencing around Southside Park Lake, Sacramento.

Plans and specifications on file at the office of the City Clerk, H. G. Denton.

SEATTLE, Wash.—As previously reported, Maeri & Steffenson, Seattle, Wash., at \$22,720 submitted low bid to Treasury Department, for fencing lawns, etc., at the U. S. Marine Hospital at Seattle. Following bids received. All bidders of Seattle.

Maeri & Steffenson.....	\$22,720
Western Constr. Co.....	24,412
Neil McDonald	25,500
West Coast Constr. Co.....	25,800
Warrack Constr. Co.....	26,600
Hedeen Constr. Co.....	26,720
Johnson Bros., Inc.....	26,935
Gustafson & Olson.....	27,758

29—STREETS AND HIGHWAYS

CLATSOP COUNTY, Oregon.—A. H. Erickson, Seaside, at \$7,085, submitted low bid to the State Highway Commission, Portland, for furnishing approximately 6000 cu. yds. of crushed rock in stock piles. Complete bids follow:

A. H. Erickson, Seaside, \$7,085.
Saxton & Looney, Corvallis, \$8,725.
J. W. & J. R. Hillstrom, Marshfield, \$9,500.
Brookfield Co., Astoria, \$9,960.
O. B. Randall & Ed Kelly, Rockaway, \$10,000.
A. T. Dolan, Tillamook, \$10,850.
Arthur A. Hardesty, Portland, \$11,700.
Joplin & Eldon, Portland, \$11,750.
Arthur Gentemann, Portland, \$12,425.

All bids held under advisement

SAN DIEGO, Cal.—Until November 14, 11 a. m., bids will be received by the Public Works Officer, Captain De Witt C. Webb, Headquarters, Eleventh Naval District, Foot of Broadway, San Diego, for the improvement

of Drill Grounds at the Naval Operating Base (Training Station), San Diego. The work consists of (a) the finished grading and paving of two areas (totaling approximately 132,000 sq. ft.) with 2-course 4-in. thick asphalt concrete, and the finished grading and paving of 1 area of not less than 50,000 sq. ft. with 1-course 2-in. thick asphalt concrete, and (b) provision and installation of concrete curbs and storm water drains in connection with paved areas.

Plans and specifications obtainable from above office upon deposit of \$10.

ALAMEDA COUNTY, Calif.—Bids Wanted, See Item under "22—Harbor Works."

SAN FRANCISCO.—M. J. Lynch, 1435 Church St., at \$177.50 submitted low bid to the Dept. of Public Works, for the construction of approximately 1780 sq. ft. of one-course concrete sidewalk on Elk St., Bosworth and Chenery Sts. Complete bids follow:

(A) M. J. Lynch, S. F.....	\$117.50
(B) Love & Haun, S. F.....	192.00
(C) D. C. McCahe, S. F.....	208.25
(D) A. C. Anderson, S. F.....	232.00
(E) Umberto Peira, S. F.....	244.00
(F) Bay Concrete Co., S. F.....	247.50
(G) O. Monson, S. F.....	309.00
(H) M. Bertolino, S. F.....	345.00

MULTNOMAH COUNTY, Oregon.—Theo. Arenz, Guaranty Bldg., Portland, Oregon, at \$87,420 awarded contract by the Oregon State Highway Commission, Portland, Oregon, for 2.65 miles of concrete pavement, Line-Linton Section of the Columbia River Highway, Multnomah County. Complete bids follow:

Theo. Arenz, Portland.....	\$ 87,420.00
Parker-Schram Co., Port.....	99,375.00
Kern & Kibbe, Portland.....	107,408.00
Jacobson-Jensen Co., Port.	114,320.00
Harold Blake, Portland.....	115,446.00
United Contracting Co, Port	116,797.50

FORT WINFIELD SCOTT.—Fay Improvement Co., Phelan Bldg., San Francisco, at \$2790, awarded contract by War Department, Washington, D. C., for constructing roads and walks at Fort Winfield Scott.

STATE OF ARIZONA.—Morrison & Knudsen, Boise, Idaho, at \$216,866.90 awarded contract by Bureau of Public Roads, Phoenix, to grade 10.938 miles, Section D of the Cameron-Desert View Approach Road. All bids opened at the same time for grading Section E rejected.

SANTA BARBARA COUNTY, Cal.—Weymouth-Crowell Co., 2104 E 15th St., Los Angeles, at \$290,887.39 awarded contract by the State Highway Commission, Sacramento, to grade and pave 4.9 miles with Portland cement concrete in Santa Barbara County between Arroyo Hondo and Goviota Creek.

LANE COUNTY, Oregon.—F. C. Dillard, Younker & Wiecks of Medford, at \$147,190 submitted low bid to the Bureau of Public Roads, Portland, for grading 4.553 mi. of the Willamette highway, located in the Willamette National Forest, Lane County, Ore., on the metal pipe alternate, and \$148.49 on the concrete pipe.

PIERCE COUNTY, Wash.—Homer G. Johnson, Portland, at \$101,460 submitted low bid to the U. S. Bureau of Public Roads, Portland, for grading and surfacing 15.5 mi. of White River Road on the east side of Mt. Rainier, and stock piling of crushed rock to be used for oiling at a later date. Joslin & McAllister, Spokane, at \$107,017 submitted second low bid.

SAN BERNARDINO COUNTY, Cal.
—Until Nov. 22, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for grading and paving with Portland cement concrete about 0.4 mile between the west city limits and Mount Vernon Ave., in San Bernardino. The work involves:

- (1) 2,500 cu. yds. rdwy. unclass. excavation;
- (2) 150 cu. yds. struc. excav.;
- (3) 7,100 sq. yds. subgrade for pave.;
- (4) 1,490 cu. yds. Class A port. cem. conc. pave.;
- (5) 3 cu. yds. Class A Port. cem. concrete struc.;
- (6) 310 cu. yds. Class A Port. cem. conc. curbs and gutters;
- (7) 33,700 lbs. bar reinf. steel, pave. and struc.;
- (8) 174 lin. ft. 24-in. CMP;
- (9) 11 tons asph. road oil borders;
- (10) 100 tons screenings, borders;
- (11) 1,320 cu. yds. macadam to be removed from existing pave.;
- (12) 3,130 tons crushed gravel or stone borders;
- (13) 780 bbls. fuel oil borders;
- (14) 2 each cast steel frames and covers for drop inlets;
- (15) 22 sta. yds. finishing roadway.

Plans and specifications obtainable at above office and are on file at the offices of the district engineers at Los Angeles and San Francisco, and at the district office of the district in which the work is situated.

KLAMATH AND DOUGLAS COS., Oregon—Joplin & Eldon, Portland, at \$210,016 submitted low bid to the U. S. Bureau of Public Roads, Portland, for surfacing 20.254 mi. of the Diamond Lake and Cascade Lakes highway.

SAN BERNARDINO COUNTY, Cal.
—Until November 13, 2 P. M., bids will be received by E. Q. Sullivan, District Engineer, District No. VIII, Department of Public Works, 247 Third St., San Bernardino, for applying bituminous surface treatment about 4.5 miles between Camp Waterman and Arrowhead Springs (VIII-SBd-43-A) in San Bernardino County, involving:

- (1) 70 tons asphaltic road oil in place;
 - (2) 650 tons screenings in place.
- Plans and specifications obtainable from above office.

SAN DIEGO COUNTY, Cal.—Until November 10, 2 P. M., bids will be received by E. E. Wallace, District Engineer, District XI, Department of Public Works, Division of Highways, Union Bldg., San Diego, for constructing approximately 1000 lin. ft. of rip-rap slope protection to be placed in San Diego County about 3 miles south of Coronado Tent City (XI-SD-199-A) involving:

- 1000 tons riprap complete in place.
- Specifications obtainable from above office.

MARION COUNTY, Oregon—Theo. Arenz, Guaranty Bldg., Portland, Ore., at \$37,299.50 awarded contract by the Oregon State Highway Commission, R. H. Baldeck, State Highway Engineer, Multnomah Hotel, Portland, for pavement widening and resurfacing North Salem Section of the Pacific Highway in Marion County. Complete bids follow:
Theo. Arenz, Portland.....\$37,299.50
United Contracting Co., Pert. 50,537.00
J. C. Compton, McMinnville 51,157.00
Harold Blake, Portland..... 52,199.00
Northwest Res Co., Portland 54,131.00

HAMILTON FIELD, Marin Co., Cal.
—Louis Lambretti, 257 E Blithedale Ave., Mill Valley, at \$2,863.50 awarded contract by the Constructing Quartermaster, Hamilton Field, for construction of sidewalks and driveways at Hamilton Field.

GRANT CO., Wash.—Until November 14, 10 A. M., bids will be received by L. V. Murrow, Director of Highways, Olympia, for grading and surfacing about 1.9 miles of Grand Coulee Highway, Alkali Lake Sec. No. 2, N. R. S. H. Proj. No. NRS 197-A in Grant County, involving about 124,830 cu. yds. excav., 9,840 cu. yds. gravel surfacing, 626 cu. yds. cement rubble masonry, and other items. Plans and specifications obtainable from the above office upon deposit of \$2.00.

SHASTA COUNTY, Cal.—J. W. Bertram, Montgomery Creek, Cal., at \$11,702.50 awarded contract by the District Engineer, Redding, for grading and surfacing with crusher run base about 1.30 mi. between Haynes Ranch and Canyon Creek in Shasta County.

LOS ANGELES CO., CAL.—Oswald Bros., 366 E 58th St., Los Angeles, at \$47,658 awarded contract by the State Highway Commission, Sacramento, to pave with asphalt concrete about 1.4 miles in Montebello, Los Angeles Co., between Garfield Blvd. and First St.

BUTTE COUNTY, Cal.—Albert W. Simmonds, Sacramento, at \$242.00 awarded contract by State Highway Commission, Sacramento, for applying traffic striping to existing pavement in Butte, Colusa, El Dorado, Glenn, Nevada, Placer, Sacramento, Sutter, Yolo and Yuba counties. The total work will be 352 miles at various locations.

FRESNO CO., Calif.—Earl Bowen, Strathmore, at \$1344 awarded contract by the District Engineer, Fresno for applying traffic striping to existing pavement in Fresno, Kern, Kings, Madera, and Tulare counties, at various locations.

FORT MASON, Cal.—Pacific States Const. Co., Call Bldg., San Francisco, at \$12,407.50 awarded contract by the War Department, Washington, D. C., for the construction of roads and walks at Fort Mason.

COCONINO & GILA COS., Ariz.—H. J. Hagen, Globa, Ariz., at \$110,079.50 awarded contract by the Bureau of Public Roads, Phoenix, for grading 6.78 miles of Section D of Route 10, the Pine-Winslow National Forest Highway, Coconino and Gila Counties.

KLAMATH COUNTY, Ore.—Dunn & Baker, Klamath Falls, at \$91,184.50 awarded contract by the State Highway Commission, Portland, for 7.45 miles of grading, Midland-California Line Section of the Klamath Falls-Weed Highway. Complete bids follow:
Dunn & Baker\$ 91,184.50
Parker-Schram Co., Portland 94,575.90
Theo. Arenz, Portland..... 98,775.50
Wren & Greenough, Portland 103,435.00
Geo. French, Stockton, Cal. 121,650.00
E. L. McNutt, Eugene..... 130,440.00
H. G. Johnson, Portland..... 133,660.00
C. T. Malcom, Portland..... 147,754.50

CLATSOP COUNTY, Oregon.—E. R. Lapointe, Portland, at \$36,665 awarded contract by State Highway Commission, Portland, for 13,200 sq. yds. concrete pavement and 7,400 sq. yds. of rock shoulders. Other bids were:
Jacobsen-Jensen, Portland.....\$39,131
United Cont. Co., Portland..... 42,273

HARNEY COUNTY, Ore.—Joplin & Eldon, Portland, at \$126,585 awarded contract by State Highway Commission for 10.47 miles of grading Stinkingwater Mountain - Drinkwater Pass Section of the Central Oregon Highway. Complete bids follow:
Joplin & Eldon\$126,585.00
Clifton & Applegate, Spo-

kane 132,416.50
E. L. McNutt, Eugene..... 137,170.50
S. H. Newell, Portland..... 151,770.00
General Const. Co., Seattle.. 161,897.00
Lawler-Woodward, Seattle.. 174,271.50
Dunn and Baker, Klamath Falls 177,941.50
Guthrie-McDougall, Portland 188,465.50
Morrison-Kundsen, Boise..... 190,482.00

JEFFERSON COUNTY, Oregon—Interstate Construction Co., Portland, at \$44,340.50 awarded contract by State Highway Commission, Portland for 2.41-mi. grading on the Agency-Deschutes River Section of the Warm Springs Highway. Complete bids follow:

Interstate Constr. Co., Portland\$44,340.50
Saxton & Looney, Corvallis 55,734.00
J. A. Lyons, Portland..... 56,365.00
Birkemeier & Saremal, Milwaukee 56,702.00
Parker-Schram Co., Portland 58,345.00
Joplin & Eldon, Portland..... 59,424.00
P. L. Crooks & Co., Portland 62,460.00
Kern & Kibbe, Portland..... 67,160.00
F. C. Dillard, Yunker and Wiecks, Medford 69,481.00
E. L. McNutt, Eugene..... 79,053.00
G. I. Stebbins Const. Co., Klamath Falls103,479.80

SAN JOAQUIN COUNTY, Cal.—Until November 22., 2 P. M., bids will be received by the State Highway Commission, Sacramento, to grade and surface with bituminous treated crushed gravel and stone, about 4.5 miles, between Lodi and 4½ miles east of Lodi, in San Joaquin County, involving:

- (1) 221 each trees removed and disposed of;
- (2) 2240 each grape vines removed & disposed of;
- (3) 29,000 cu. yds. rdwy. excav. unclass.;
- (4) 162,000 sta. yds. overhaul;
- (5) 1300 cu. yds. imported borrow;
- (6) 2452 cu. yds. struc. excav.;
- (7) 4670 cu. yds. salvaged macadam base;
- (8) 13,100 tons untreated crushed gravel and stone surfacing;
- (9) 750 bbls. heavy fuel oil;
- (10) 8520 tons crushed gravel or stone bituminous treated surfacing;
- (11) 450 tons cutback asphalt;
- (12) 65 cu. yds. class A Port. cement conc. struc.;
- (13) 5600 lbs. baar reinf. steel struc.;
- (14) 3328 lin. ft. 18-in. CMP;
- (15) 405 lin. ft. salvaging existing culverts;
- (16) 3000 M. gals. water;
- (17) 41 cu. yds. removing and disposing of concrete in existing pave. and strucs.;
- (18) 0.84 miles moving and resetting existing property fence;
- (19) 4.77 miles new property fence;
- (20) 73 each fence gates;
- (21) 65 each drop inlet frame and covers;
- (22) 239 sta. finishing roadway;
- (23) 61 each monuments complete in place.

Plans and specifications are obtainable at above office, and are in file at the offices of the District Engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

LINCOLN COUNTY, Oregon.—Saxton & Looney, Corvallis, at \$12,850, awarded contract by the State Highway Commission for furnishing 6,000 cu. yds. crushed rock in stock piles, Siletz River-Newport Section of the Oregon Coast Highway. Complete bids follow:
Saxton & Looney, Corvallis, \$12,850.
A. T. Dolan, Tillamook, \$12,974.
T. W. & J. R. Hillstrom, Marshfield, \$13,800.

(Continued on Page 26)

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

MINERAL & ESMERALDA COS.—SURFACING—STATE

MINERAL AND ESMERALDA COUNTIES, Nevada. — Geo. Pollock Co., P. O. Box 903, Sacramento, at \$193,792.12, awarded contract by Nevada State Highway Directors, Carson City, to surface 22.28 miles in Mineral and Esmeralda Counties, between Basalt and Coaldate, Route 15, Sec. A, (as previously reported), involving:

- (1) 249,500 cu. yds. rdwy. excav.;
- (2) 75 acres clearing and grubbing;
- (3) 68,681 sta. yds. overhaul;
- (4) 54,930 cu. yds. sel. borrow;
- (5) 3100 cu. yds. struc. excav.;
- (6) 22.26 mi. subgrade;
- (7) 54 MFBM Redwood;
- (8) 70,800 cu. yds. crushed gravel or stone surface;
- (9) 200 cu. yds. Class A concrete;
- (10) 312 cu. yds. Class B concrete;
- (11) 26,000 lbs. reinf. steel;
- (12) 327 sq. yds. asph. bridge surf.;
- (13) 120 lin. ft. 15-in. CMP.;
- (14) 1294 lin. ft. 18-in. CMP.;
- (15) 3436 lin. ft. 24-in. CMP.;
- (16) 280 lin. ft. 30-in. CMP.;

- (17) 1144 lin. ft. 36-in. CMP.;
- (18) 154 lin. ft. 48-in. CMP.;
- (19) 819 lin. ft. 24-in. vitrified pipe;
- (20) 100 lin. ft. 4-in. water pipe;
- (21) 165 cu. yds. handlaid riprap;
- (22) 123 monuments;
- (23) 22.28 mi. finish roadway.

Complete bids follow:

(A) Geo. Pollock Co., Sacramento \$193,792.12

(B) Isbell Constr. Co., Carson City, Nev. 200,152.62

(C) M. J. Bevanda, Stockton 211,330.13

(D) Dodge Constr., Inc., Fallon, Nev. 214,883.93

(E) Union Paving Co., San Francisco 225,430.53

(F) Utah Constr. Co., Ogden \$227,126.23

(G) Gibbons & Reed Co., Salt Lake City 237,158.58

(H) Basich Bros., Torrance, Cal. 244,793.41

(I) Jack Casson, Oakland ... 261,843.03

(J) Engineer's Estimate 227,773.22

Unit prices follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
(1)	.28	.30	.33	.36	.38	.43	.40	.42	.50	.40
(2)	40.00	25.00	30.00	20.00	30.00	12.00	20.00	20.00	25.00	15.00
(3)	.02	.02	.03	.03	.03	.03	.03	.01	.03	.02
(4)	.40	.40	.45	.40	.35	.43	.35	.52	.50	.40
(5)	1.00	1.00	1.00	1.00	1.00	1.00	1.35	1.00	2.00	1.00
(6)	100.00	100.00	110.00	100.00	100.00	100.00	125.00	200.00	100.00	150.00
(7)	90.00	100.00	100.00	100.00	120.00	100.00	110.00	110.00	100.00	125.00
(8)	.60	.70	.60	.65	.65	.60	.80	.65	.75	.75
(9)	25.00	24.00	30.00	27.50	35.00	27.00	25.00	28.00	27.00	27.00
(10)	30.00	24.00	28.00	27.50	30.00	27.00	25.00	26.00	25.00	26.00
(11)	.06	.06	.06	.07	.06	.07	.07	.07	.08	.07
(12)	2.00	1.50	1.50	1.00	.65	.60	2.75	.75	.50	.80
(13)	1.25	1.60	2.00	1.50	2.00	1.50	1.65	2.30	1.30	1.25
(14)	1.50	1.75	2.40	2.00	2.50	1.80	2.00	2.50	1.50	1.50
(15)	3.00	2.50	3.00	3.00	3.40	2.50	3.00	3.50	2.20	2.25
(16)	3.50	3.50	4.00	3.50	4.00	3.25	3.70	4.00	2.80	2.50
(17)	5.00	4.75	5.50	4.75	6.00	4.75	5.75	5.50	4.25	3.50
(18)	7.00	8.00	9.00	8.00	8.00	8.25	9.10	10.00	7.10	6.50
(19)	4.00	3.50	4.50	3.50	3.35	3.50	5.30	3.75	2.50	4.00
(20)	1.00	1.25	1.00	2.00	2.00	.90	1.20	1.25	1.00	1.00
(21)	2.00	2.50	4.00	3.00	4.00	1.50	3.50	2.50	2.00	3.00
(22)	2.50	3.00	3.00	3.00	2.00	3.00	2.50	2.00	3.00	3.00
(23)	200.00	150.00	125.00	100.00	100.00	100.00	110.00	2.50	200.00	100.00

HAMILTON FIELD — DOCK — GOVT.

HAMILTON FIELD, Cal.—Bundesen & Lauritzen, Pittsburg, at \$13,996 submitted low bid to the Constructing Quartermaster, Hamilton Field, to construct a creosoted wood dock at Hamilton Field, involving:

- (1) Creosoted piling, per pile in place;
- (2) Struc. timber, creosoted, per M.;
- (3) Bolts and tile rods, per lb.;
- (4) Earth fill (borrow) per cu. yd.

Complete bids were:

(A) Bundesen & Lauritzen, Pittsburg, \$13,996.

(B) A. W. Kitchen, San Francisco, \$15,493.

(C) Healy Tibbitts Constr. Co., San Francisco, \$15,512.

(D) Duncanson Harrelson Co., San Francisco, \$15,900.

(E) Leibert & Trobock, San Francisco, \$16,513.

(F) M. B. McGowan, San Francisco, \$16,928.

	(A)	(B)	(C)	(D)	(E)	(F)
(1)	\$62.00	\$ 75.00	\$85.00	\$66.00	\$65.00	\$68.00
(2)	79.00	120.00	90.00	95.00	85.00	95.00
(3)	.15	.10	.12	.10	.10	.15
(4)	.70	1.00	1.00	1.00	.70	.75

SAN FRANCISCO — CITY — SEWER

SAN FRANCISCO.—Fay Imp. Co., Phelan Bldg., San Francisco, at \$1,179.40 submitted low bid to the Dept. of Public Works, for the reconstruction of the sewer on Evans Ave. between Newhall and Third Sts. Complete bids follow:

(E) M. J. Lynch, S. F. \$1378.00

(F) Theo. Cohn, S. F. \$1405.00

(G) Eaton & Smith, S. F. \$1415.00

(H) Martin Murphy, S. F. \$1650.00

Unit quantities follow:

- (1) 460 lin. ft. 12-in. VCP sewer;
- (2) 10 12x6-in. Y branches on do;
- (3) 5 brick manholes, reconstructed;
- (4) 80 lin. ft. 6-in. side sewer (VCP).

(A) Fay Imp Co., S. F. \$1179.40

(B) E. J. Treacy, S. F. \$1267.60

(C) City Const. Co., Oakland ... \$1340.00

(D) C. L. Harney, S. F. \$1367.00

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
(1)	\$ 2.14	\$ 2.41	\$ 2.50	\$ 2.20	\$ 1.95	\$ 2.75	\$ 2.50	\$ 3.00
(2)	1.00	2.00	1.00	2.00	1.00	1.00	2.00	3.00
(3)	29.00	15.00	20.00	35.00	80.00	10.00	25.00	30.00
(4)	.50	.80	1.00	2.00	1.00	1.00	1.50	1.50

BIDS OPENED

SAN LUIS OBISPO COUNTY, Cal.—Theo. M. Maino, San Luis Obispo, at \$1248 submitted low bid (as previously reported) to the State Highway Commission, L. H. Gibson, District Engineer, District V, San Luis Obispo, for the widening of a reinforced concrete bridge in San Luis Obispo County, at Station 764+46.5, south city limits of San Luis Obispo (V-SLO-2-E), involving:

- (1) 100 cu. yds. struc. excav.;
- (2) 40 cu. yds. Port. cem. concrete in place;
- (3) 3100 lbs. reinf. steel in place;
- (4) 2400 lbs. struc. steel in place;
- (5) D.S.A.H. Redwood timber, struc. grade, in place.

Complete bids follow:

(A) Theo. M. Maino, San Luis Obispo, \$1248.

(B) Chas. W. Lane, Paso Robles, \$1282.

(C) J. J. Munnemann Co., Santa Barbara, \$1461.

(D) Walter E. Roselip, San Luis Obispo, \$1498.

	(A)	(B)	(C)	(D)
(1)	\$170.00	\$170.00	\$200.00	\$237.00
(2)	668.00	720.00	800.00	852.80
(3)	155.00	155.00	155.00	192.00
(4)	160.80	192.00	240.00	144.00
(5)	94.20	45.00	66.00	72.00

BIDS OPENED

TRINITY COUNTY, Cal.—Granfield-Farrar & Carlin, 67 Hoff St., San Francisco, at \$23,305.30 submitted low bid to the Bureau of Public Roads, C. H. Sweetser, District Engineer, for grading a portion of Section D of Route 5, the Douglas City-Peanut National Forest Highway, Trinity National Forest, Trinity County, involving:

- (1) 11 acres clearing;
- (2) 48,300 cu. yds. unclass. excav.;
- (3) 600 cu. yds. do for struc.;
- (4) 43,000 sta. yds. overhaul;
- (5) 1.860 miles finish earth graded rd.
- (6) 167 cu. yds. Class A concrete;
- (7) 15 cu. yds. Class B concrete;
- (8) 18,000 lbs. reinf. steel;
- (9) 12 lin. ft. 8-in. C.G.M. P. (asph. dipped);
- (10) 574 lin. ft. 18-in. C.G.M.P.;
- (11) 214 lin. ft. 24-in. do;
- (12) 62 lin. ft. 30-in. do;
- (13) 60 right-of-way monuments;
- (14) 2 type A spillway inlets.

Complete bids follow:

(A) Granfield-Farrar & Carlin, San Francisco, \$23,305.30.

(B) Elliott & Co., Seattle, Wash., \$25,486.60.

(C) Poulous & McEwen, Sacramento, \$25,783.

(D) Engineer's Estimate, \$22,107.

Unit bids follow:

	(A)	(B)	(C)	(D)
(1)	\$200.00	\$200.00	\$150.00	\$200.00
(2)	.27	.30	.30	.25
(3)	.75	1.00	1.00	.75
(4)	.005	.02	.01	.005
(5)	200.00	200.00	200.00	200.00
(6)	23.00	23.00	30.00	23.00
(7)	23.00	25.00	30.00	23.00
(8)	.06	.05	.06	.06
(9)	.95	1.00	.90	.95
(10)	1.50	1.50	1.45	1.35
(11)	2.35	2.40	2.30	2.00
(12)	3.00	3.50	3.00	2.50
(13)	2.50	3.25	2.50	2.00
(14)	25.00	25.00	15.00	20.00

ENGINEERING NEWS

(Continued from Page 24)

SAN FRANCISCO—Bids for the construction of Bernal Heights Blvd., have been postponed indefinitely (previously advertised for November 1).

WALLA WALLA COUNTY, Wash.—Until November 14, 10 A. M., bids will be received by L. V. Murrow, State Director of Highways, Olympia, Wash., for paving with either Portland cement or asphaltic concrete about 0.6 mi. of State Road No. 3, Isaacs and Wellington Aves., in the City of Walla Walla, National Recovery Highway Project No. NHR 140-E and National Recovery Municipal Highway Project No. NRM 140-E in Walla Walla County, involving:

- (1) 4460 cu. yds. excav.;
- (2) 12,047 sq. yds. of pavement;
- (3) 5959 lin. ft. conc. curb and gutter;
- (4) 625 lin. ft. pipe culverts;
- (5) Miscellaneous items.

Plans and specifications obtainable from above office upon deposit of \$2.

DOUGLAS COUNTY, Ore.—Until November 9, 10 A. M., bids will be received by U. S. Bureau of Public Roads, W. H. Lynch, District Engineer, 316 New Post Office Bldg., Portland, Oregon, for constructing the Tiller Trail (subgrade reinforcement) NR-16-C3, E2,F4, National Forest Road Project located within the Umpqua National Forest, County of Douglas, Oregon. The length of the project is approximately 6.616 miles and the principal items of work are as follows:

- (1) 4000 cu. yds. unclass. excav.;
- (2) 6.616 mi. fine grading of subgrade and shoulders;
- (3) 800 M. gal. water;
- (4) 3000 cu. yd. mi. overhaul;
- (5) 18,000 cu. yds. subgrade reinf.

Plans and specifications obtainable from above office upon deposit of \$10.

KING COUNTY, Wash.—Until November 14, 10 A. M., bids will be received by L. V. Murrow, State Director of Highways, Olympia, Wash., for paving with Portland cement concrete 0.3 mi. of State Road No. 2, First Avenue North in the City of Renton, National Recovery Highway Project No. NRH 24 and National Recovery Municipal Highway Project No. NRM 24 in King County, involving:

- (1) 5470 cu. yds. excav. and gravel borrow;
- (2) 7300 sq. yds. pavement;
- (3) 1818 lin. ft. integral conc. curb;
- (4) 1773 lin. ft. sewer pipe;
- (5) Miscellaneous items.

Specifications obtainable from above office on deposit of \$2.00.

YAKIMA & KLICKITAT COUNTIES, Wash.—Until Nov. 14, 10 A. M. bids will be received by L. V. Murrow, State Director of Highways, Olympia, for constructing 23,980 lin. ft. of cable guard rail, design No. 2, on State Road No. 8, Toppenish Creek to Satus Pass, Federal Land Projects No. 1 and 2, in Yakima and Klickitat counties. Specifications obtainable from above office on \$2.00 deposit.

MARIPOSA COUNTY, Cal.—Granite Constr. Co., Watsonville, at \$71,482.45 awarded contract by the Bureau of Public Roads, San Francisco, for placing a crushed rock base course on Section A-1, Rt. 5, Wamona Road-Glacier Point, Yosemite National Park, Mariposa County.

(Continued on Page 27)

SANTA CLARA CO.—GRADE & PAVE 2.7 MI.—STATE

SANTA CLARA COUNTY, Calif.—Basich Bros., 20550 Normandie Ave., Torrance, at \$213,461 submitted low bid to the State Highway Commission Sacramento, to grade and pave 2.7 miles with Portland cement concrete between Lawrence Station Road and Alviso-Santa Clara Road, Santa Clara County. Complete bids follow:

- (A) Basich Bros., Torrance, \$213,461.
 - (B) Hanrahan Co., San Francisco, \$222,206.
 - (C) A. J. Ratsch Co., San Jose, \$223,518.
 - (D) Peninsula Paving Co., San Francisco, \$229,342.80.
 - (E) Heafey-Moore Co., Oakland, \$238,559.00.
 - (F) Fredrickson & Watson, Oakland, \$238,859.89.
- Quantities follow:
- (1) 21.5 acres clear and grub right of way;
 - (2) 3,000 cu. yds. rdwy. excav., unclassified;
 - (3) 142,000 cu. yds. imp. borrow;
 - (4) 3,640 cu. yds. struc. excav.;
 - (5) 65,250 sq. yds. subgrade for pave.
 - (6) 13,270 cu. yds. Class A Portland cem. conc. pave.;
 - (7) 597 cu. yds. Class A Port. cem. conc. struc.;
 - (8) 8 cu. yds. Class E do;
 - (9) 353,800 lbs. bar reinf. steel pave. and struc.;
 - (10) 1,060 tons asph. concrete, type B surf.;
 - (11) 1250 bbls. heavy fuel oil;
 - (12) 2.54 ml. oil mix. earth shoulders

- (13) 2000 sq. yds. asph. palnt binder;
- (14) 165 tons asph. rd. oil seal coat;
- (15) 900 lin. ft. 8-in. corr. MP;
- (16) 778 lin. ft. 18-in. CMP;
- (17) 1284 lin. ft. 24-in. CMP;
- (18) 306 lin. ft. 30-in. CMP;
- (19) 110 lin. ft. 36-in. CMP;
- (20) 1574 lin. ft. 12-in. CMP close riv. and soldered;
- (21) 250 lin. ft. 6-in. vitrified clay pipe;
- (22) 70 etch conc. joints for siphons;
- (23) 6 each inlet assemblies for siphons;
- (24) 6 ea. outlet assemblies for siphons;
- (25) 5 ea. sand trap assemblies for siphons;
- (26) 1300 lin. ft. furnishing reinf. coc. piles;
- (27) 40 ea. driving surf. conc. piles;
- (28) 3 ea. removing trees Size 1;
- (29) 1 ea. removing trees Size 2;
- (30) 1 ea. removing trees Size 3;
- (31) 80 cu. yds. Portland cement concrete in existing pave. & struc. to be removed and disposed of;
- (32) 1250 thousand gals. water;
- (33) 2.2 ml. new property fence;
- (34) 10 ea. fence gates;
- (35) 72 ea. timber guide posts;
- (36) 70 each culvert markers;
- (37) 400 lin. ft. laminated timber guard rail;
- (38) 141 stations finish rdwy.;
- (39) 44 each monuments complete in place;

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)
(1)	\$ 60.00	\$130.00	\$ 46.00	\$ 95.00	\$ 75.00	\$ 56.00
(2)	.15	.20	.30	.33	.30	.22
(3)	.47	.45	.35	.51	.48	.57
(4)	.45	.70	1.00	.75	.85	.75
(5)	.07	.06	.08	.08	.08	.06
(6)	6.60	7.05	7.70	7.00	7.95	7.23
(7)	15.00	15.00	18.50	15.00	16.00	14.90
(8)	60.00	50.00	40.00	40.00	45.00	45.00
(9)	.042	.05	.049	.045	.043	.046
(10)	4.00	4.00	4.00	4.50	5.00	.50
(11)	1.50	1.50	2.20	1.60	2.00	1.80
(12)	360.00	400.00	400.00	225.00	350.00	337.00
(13)	.02	.02	.03	.02	.03	.0225
(14)	14.00	15.00	15.00	14.00	20.00	16.89
(15)	.90	.75	1.00	1.00	1.00	.77
(16)	1.50	1.50	1.50	1.60	1.70	1.47
(17)	2.50	2.25	2.20	2.25	2.50	2.25
(18)	3.00	2.75	2.75	2.75	3.00	2.80
(19)	4.50	4.00	5.00	4.25	5.00	4.27
(20)	1.50	1.50	1.50	1.50	1.50	1.41
(21)	.40	.40	.60	.50	.25	.34
(22)	6.00	3.00	12.00	6.00	5.00	5.65
(23)	22.00	25.00	30.00	20.00	25.00	22.23
(24)	22.00	25.00	30.00	20.00	25.00	22.23
(25)	28.00	30.00	24.00	25.00	30.00	28.00
(26)	2.25	2.50	4.00	2.00	2.00	2.08
(27)	40.00	35.00	5.00	40.00	20.00	33.75
(28)	5.00	30.00	6.00	20.00	20.00	3.37
(29)	15.00	50.00	12.00	30.00	30.00	5.65
(30)	20.00	75.00	30.00	60.00	40.00	11.25
(31)	3.00	4.00	3.50	2.25	3.00	1.68
(32)	.25	.80	1.00	1.00	.20	1.12
(33)	475.00	600.00	460.00	500.00	475.00	449.00
(34)	12.00	13.00	15.00	18.00	16.00	13.40
(35)	2.00	2.50	3.00	2.25	2.50	2.24
(36)	1.50	2.00	3.00	1.60	2.25	1.70
(37)	.75	.75	1.15	.90	1.00	.80
(38)	5.00	5.00	4.00	5.00	5.00	4.51
(39)	2.00	2.50	3.00	2.50	2.50	2.25

ARIZONA — 10.5 MILES GRADING — STATE

ARIZONA STATE.—Phoenix-Tempe Stone Co., Phoenix, at \$220,567.62 (Alternately reported) and awarded contract by the Arizona State Highway Commission, T. S. O'Connell, State Highway Engineer, Phoenix, for highway construction on the Prescott-Phoenix Highway, N.R.H. 72-A. The work, which is to begin at a point about 23 3/4 miles southwest of Prescott and is to extend southwesterly about 10 1/2 miles, consists of grading and draining the roadway and plac-

ing a base course and plant mix using cut-back asphalt, and is to be completed on or before June 15, 1934. Complete bids follow:

- (A) Phoenix-Tempe Stone Co., Phoenix, cable road guard, \$218,169.42; steel road guard (Alt.), \$220,567.62.
- (B) Pearson & Dickerson Contractors, Inc., Phoenix, \$247,075.93; \$247,075.93.
- (C) Pleasant-Hasler Const. Co., Phoenix, \$248,778.64; \$250,377.44.
- (D) Arizona Sand & Rock Co., Phoenix, \$269,147.27; \$269,949.67.

- (E) Heuser & Garnett & Fleming, Glendale, Cal., \$268,090.72; \$271,288.32.
- (F) Heafey-Moore Co. and J. A. Casson, Oakland, \$303,930.60; \$303,930.60.
- Unit items follow:
- (1) 69,760 cu. yds. rdwy. excav., unclass.;
- (2) 1,922 cu. yds. drainage excav., do;
- (3) 100 hours rolling;
- (4) 1,172 cu. yds. struc. excav., unclass.;
- (5) 11,333 cu. yds. borrow excav., do;
- (6) 500 cu. yds. slides & overbreakage
- (7) 38,830 sta. earthwork overhaul;
- (8) 4,436 cu. yds. ml. earthwork haul
- (9) 426 cu. yds. Class A concrete, including cement;
- (10) 85 cu. yds. Class B do;
- (11) 29,675 lbs. reinf. steel bars (CIP);
- (12) 504 lin. ft. 24-in. CMP (CIP) including bands;
- (13) 356 lin. ft. 30-in. CMP do;
- (14) 290 lin. ft. 36-in. CMP do;
- (15) 20 lin. ft. resetting 18-in. CMP (CIP);
- (16) 200 lin. ft. resetting 24-in. do;
- (17) 164 lin. ft. resetting 30-in. do;
- (18) 82 lin. ft. resetting 36-in. do;
- (19) 15,988 lin. ft. cable road guard (type A) CIP;
- (20) 150 lin. ft. rail bank protection (type A) CIP;
- (21) 101,802 lin. ft. standard line fence (CIP);
- (22) 168 cu. yds. plain riprap (CIP);
- (23) 1 each cattle guard (type B) CIP
- (24) 4,550 lin. ft. grader ditches;
- (25) 1 each metal fence gate (CIP);
- (26) 175 each right of way markers (CIP);

- (27) 114 cu. yds. removal of old conc.;
- (28) 4 each removal of cattle guards;
- (29) 4,559 cu. yds. stripping pits;
- (30) 116,182 sq. yds. reshaping road surface;
- (31) 444 M. gals. sprinkling (CIP);
- (32) 28,916 cu. yds. agg. base course;
- (33) 82,171 cu. yds. ml. agg. base do haul;
- (34) 4,023 cu. yds. shoulder material;
- (35) 10,437 cu. yds. ml. shoulder material haul;
- (36) 18,682 tons plant mix;
- (37) 131,955 tons ml. plant mix, haul;
- (38) 897 tons cutback asph. (for plant mix and seal coat) CIP;
- (39) 10,406 ml. placing plant mix;
- (40) 888 cu. yds. screenings (CIP);
- Structures Over 20-Ft. Clear Span**
- (41) 400 cu. yds. drainage excav., unclass.;
- (42) 360 cu. yds. struc. excav., unclass.;
- (43) 93 M.B.M. treated timber (CIP);
- (44) 5 M.B.M. untreated timber (CIP)
- (45) 2,414 lin. ft. treated timber piles (CIP);
- (46) 75 lin. ft. treated timber pile cut-off;
- (47) 40 each pile points (CIP);
- (48) 147 tons plant mix;
- (49) 1,122 tons ml. plant mix, haul;
- (50) 8 tons cutback asph. (CIP);
- (51) 0.070 mi. placing plant mix;
- (52) 12 cu. yds. screenings (for seal coat and bridge floors) CIP;
- Non-Federal Aid**
- (53) 200 cu. yds. stockpiled agg. (CIP)
- Alternate (In Lieu of Item 19)**
- (19a) 15,988 lin. ft. steel plate road guard (CIP).

Unit prices follow:

	(A)	(B)	(C)	(D)	(E)	(F)
(1)	.75	.90	1.08	1.18	.87	1.50
(2)	.50	.40	.60	.35	.66	2.00
(3)	4.00	8.00	3.50	3.50	4.00	5.00
(4)	3.00	2.00	1.25	2.50	2.20	2.00
(5)	.36	.35	.42	.30	.67	.40
(6)	.5625	.675	.81	.885	.6525	1.125
(7)	.03	.05	.05	.04	.04	.03
(8)	.20	.30	.50	.30	.14	.30
(9)	20.50	30.00	24.00	24.00	30.00	27.50
(10)	23.00	31.00	24.00	24.00	30.00	27.50
(11)	.06	.06	.055	.06	.06	.06
(12)	2.75	2.00	3.00	3.10	2.60	3.00
(13)	3.50	3.00	3.75	3.60	3.20	3.50
(14)	5.25	4.00	5.75	5.25	5.00	5.00
(15)	.50	1.00	.50	1.00	1.30	2.00
(16)	.75	1.00	.50	1.50	1.50	2.00
(17)	1.00	1.00	.50	2.00	1.70	2.50
(18)	1.25	1.00	.50	2.50	1.90	3.00
(19)	.65	1.00	.80	.85	1.20	1.00
(20)	3.00	3.00	3.00	3.50	10.00	7.00
(21)	.07	.06	.07	.09	.075	.10
(22)	2.50	3.00	2.00	2.00	5.40	3.00
(23)	500.00	450.00	400.00	550.00	400.00	650.00
(24)	.10	.10	.12	.15	.47	.20
(25)	22.50	20.00	25.00	25.00	20.00	10.00
(26)	3.00	3.00	3.00	3.00	1.35	2.00
(27)	3.50	3.00	5.00	5.00	4.00	2.00
(28)	60.00	100.00	50.00	150.00	67.00	50.00
(29)	.24	.20	.20	.35	.27	.35
(30)	.005	.01	.005	.008	.013	.02
(31)	2.50	3.50	3.50	3.50	2.70	3.00
(32)	.65	.70	.60	.90	.70	.65
(33)	.11	.11	.13	.12	.14	.12
(34)	.65	.70	.60	.95	.70	.75
(35)	.11	.11	.13	.12	.14	.12
(36)	1.35	1.60	1.35	1.55	1.85	1.90
(37)	.085	.08	.11	.085	.11	.10
(38)	26.20	27.00	25.00	25.00	27.00	25.00
(39)	300.00	300.00	350.00	330.00	335.00	350.00
(40)	4.00	3.50	4.00	4.00	4.00	5.00
(41)	.50	.40	.60	.35	.67	2.00
(42)	3.00	2.00	1.25	2.50	2.20	2.00
(43)	96.00	135.00	100.00	100.00	115.00	100.00
(44)	99.00	100.00	100.00	100.00	80.00	90.00
(45)	1.70	1.50	1.50	1.50	2.00	1.50
(46)	.75	1.00	1.25	1.20	1.70	1.00
(47)	1.25	1.50	2.00	1.35	1.30	.50
(48)	1.35	1.60	1.35	1.55	1.85	2.00
(49)	.085	.08	.11	.085	.11	.10
(50)	26.20	27.00	25.00	25.00	27.00	30.00
(51)	300.00	300.00	350.00	330.00	335.00	350.00
(52)	4.00	3.50	4.00	4.00	4.00	6.00
(53)	2.50	3.00	2.25	2.50	2.00	3.50
(19a)	.80	1.00	.90	.90	1.40	1.00

ENGINEERING NEWS

(Continued from Page 26)

- DOUGLAS COUNTY, Wash.—J. C. Compton & Saxton & Looney, McMinnville, at \$106,032.50 (No. 3 oil) awarded contract by State Highway Commission, Portland, for 23.2 mi. bituminous macadam and 2.0 miles of crushed gravel and surfacing; also furnish 1000 cu. yds. of crushed gravel in stock piles, Scottsburg-Red Bridge Section of the Umpqua Highway. Complete bids follow:
 - (A) No. 3 oil; (B) tar.
 J. C. Compton & Saxton & Looney, McMinnville, (A) \$106,032.50; (B) \$107,682.50.
- United Contracting Co., Portland, (A) \$117,877.50; (B) \$117,930.
- Babler Bros., Portland, (A) \$120,615; (B) \$122,415.
- Northwest Roads Co., Portland, (A) \$121,140; (B) \$120,835.
- Edwin C. Gerber, Oregon City, (A) \$124,452.50; (B) no bid.
- F. J. Kernan, Faloma, (A) \$135,130; (B) no bid.
- JEFFERSON & WASCOCOUNTIES, Oregon.—Schmeier & Williams, Portland, at \$18,480, awarded contract by the State Highway Commission, Portland, for furnishing 11,000 cu. yds. crushed rock in stock piles, Boy-Madras Section of The Dalles-California Highway. Complete bids follow:
 - Schmeier & Williams, Portland \$18,480.00.
 - J. W. & J. R. Hillstrom, Marshfield, \$19,800.00.
 - Joplin & Eldon, Portland, \$22,770.00.
 - A. Milne, Portland, \$23,250.00.
 - Newport Constr. Co., Portland, \$25,040.00.
- LOS ANGELES COUNTY, Cal.—Until November 22, 2 P. M., bids will be received by the State Highway Commission, Sacramento, to grade and pave with asphalt concrete about 1.6 miles in Los Angeles County, between Sunland and Tujunga, involving:
 - (1) 84 sta. clear. and grub right-of-way;
 - (2) 11,500 cu. yds. rdwy. excav. unclass.;
 - (3) 500 sta. yds. overhaul;
 - (4) 800 M. gals. water;
 - (5) 8500 cu. yds. imported borrow;
 - (6) 2400 cu. yds. struc. excav.;
 - (7) 11,000 sq. yds. subgrade for pave;
 - (8) 17,300 sq. yds. asph. paint binder;
 - (9) 7300 tons asph. conc. base and leveling course;
 - (10) 3300 tons asphalt conc. type A surf. course;
 - (11) 2570 tons cru. gravel or stone bit. treated surfacing;
 - (12) 130 tons cutback asphalt bit. treated surfacing;
 - (13) 1450 bbls. fuel oil;
 - (14) 1.6 miles mix oil and shoulder material;
 - (15) 675 cu. yds. class A Port. cement conc. struc.;
 - (16) 2000 cu. yds. class A Port. cem. concrete, curbs, gutters and sidewalks;
 - (17) 5.5 cu. yds. class A Port. cement conc. railing;
 - (18) 82,000 lbs. bar reinf. steel struc.;
 - (19) 32,000 lbs. misc. iron and steel struc.;
 - (20) 50 lin. ft. 18-in. CMP;
 - (21) 170 lin. ft. 24-in. CMP;
 - (22) 90 lin. ft. 36-in. CMP;
 - (23) 375 cu. yds. conc. removed from existing pave and struc. and disposed of;
 - (24) 1 only exist. bridge removed and disposed of;
 - (25) 20 each culvert markers;
 - (26) 100 lin. ft. bank protection fence;
 - (27) 84 sta. finishing roadway.
 Plans and specifications are obtainable at above office, and are on file at the offices of the District Engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

(Continued on Page 28)

CLARK COUNTY, NEV.—HIGHWAY CONST.—STATE

CLARK COUNTY, Nevada.—Gibbons & Reed Co., Salt Lake City, Utah, at \$130,086.22 (as previously reported) awarded contract by Nevada State Highway Directors, Carson City, to construct 14.87 miles of highway in Clark County, between Las Vegas and Charleston Road, Route 5, Sec. D4 and E., involving:

- (1) 78,000 cu. yds. rdwy. excav.;
- (2) 156,821 yd. sta. overhaul;
- (3) 58,096 cu. yds. select borrow;
- (4) 2280 cu yds. struc. excav.;
- (5) 1.01 mi. subgrade (40 ft. width);
- (6) 12.86 mi. subgrade (20 ft. width);
- (7) 52,800 cu. yds. crn. grav. or stone surface;
- (8) 61 cu. yds. class A concrete;
- (9) 230 cu. yds. class B concrete;
- (10) 6550 lbs. reinf. steel;
- (11) 314 lin. ft. 18-in. corr. CMP;
- (12) 1494 lin. ft. 24-in. do;
- (13) 436 lin. ft. 30-in. do;
- (14) 2074 lin. ft. 36-in. do;
- (15) 447 lin. ft. 24-in. vitrified pipe;
- (16) 78 lin. ft. 36-in. do;
- (17) 420 lin. ft. 24-in. part circl. CMP;
- (18) 2 lin. ft. remove conc. culverts;

- (19) 6251 lin. ft. remove fence;
- (20) 6251 lin. ft. reconst. fence;
- (21) 64 monuments;
- (22) 1 remove concrete headwall;
- (23) 14.87 miles finish roadway.

Complete bids follow:

- (A) Gibbons & Reed, Salt Lake City, \$130,086.22.
- (B) Isbell Constr. Co., Salt Lake City, \$137,786.71.
- (C) Jack Casson, Oakland, \$138,271.72.
- (D) Union Paving Co., San Francisco, \$140,172.40.
- (E) Dodge Constr., Inc., Fallon, Nev., \$144,682.54.
- (F) Clof Nelson, Logan, Utah, \$144,750.29.
- (G) Imperial Rock Corp., Los Angeles, \$147,123.71.
- (H) Basich Bros. Torrance, Cal., \$153,700.09.
- (I) Geo. French, Jr., Stockton, \$153,816.94.
- (J) Heuser & Garnett, Glendale, \$172,660.85.
- (K) Engineer's Estimate, \$134,228.04.

Unit prices follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)
(1)	.35	.30	.30	.45	.27	.36	.26	.40	.30	.53	.35
(2)	.025	.02	.02	.03	.02	.03	.0225	.01	.0025	.02	.02
(3)	.34	.45	.60	.40	.75	.55	.69	.62	.65	.76	.50
(4)	1.19	1.00	1.00	1.00	1.00	1.00	1.50	1.50	1.00	1.25	1.00
(5)	220.00	200.00	100.00	150.00	300.00	200.00	500.00	200.00	200.00	175.00	250.00
(6)	120.00	100.00	100.00	100.00	100.00	100.00	150.00	100.00	100.00	100.00	150.00
(7)	.77	.95	.90	.70	.80	.90	.815	.90	1.00	.90	.80
(8)	25.00	22.00	20.00	35.00	30.00	24.00	31.00	30.00	30.00	30.00	27.00
(9)	25.00	22.00	18.00	30.00	27.50	24.00	30.00	30.00	30.00	29.00	27.00
(10)	.075	.06	.08	.06	.07	.07	.05	.06	.08	.06	.06
(11)	2.00	1.75	1.50	2.50	2.00	1.80	1.95	2.00	1.75	1.75	1.50
(12)	3.00	2.75	2.30	3.40	2.75	2.50	3.00	2.70	3.00	2.85	2.00
(13)	3.65	3.25	2.95	4.00	3.25	3.00	3.50	3.50	3.50	3.60	3.25
(14)	5.75	5.00	4.50	6.00	4.75	4.50	5.25	5.00	5.00	5.40	4.00
(15)	5.30	3.50	2.90	3.60	4.00	4.00	3.00	5.00	5.00	3.55	4.00
(16)	12.40	7.50	7.80	9.00	9.00	7.00	9.00	7.00	11.00	9.00	6.50
(17)	2.85	2.25	1.70	3.50	2.25	2.00	2.50	2.00	1.75	1.75	1.75
(18)	55.00	50.00	50.00	10.00	25.00	50.00	300.00	50.00	75.00	75.00	50.00
(19)	.03	.04	.05	.02	.04	.04	.05	.03	.02	.02	.02
(20)	.08	.05	.05	.05	.08	.12	.15	.03	.05	.05	.10
(21)	2.50	3.00	3.00	3.00	3.00	5.00	3.00	3.00	3.00	3.00	3.00
(22)	7.50	10.00	10.00	10.00	10.00	10.00	25.00	10.00	7.00	10.00	5.00
(23)	120.00	250.00	100.00	150.00	100.00	100.00	150.00	150.00	100.00	110.00	150.00

L. A. & KERN COS. — WIDEN & OIL TREAT — STATE

LOS ANGELES & KERN COUNTIES, Cal.—Dimmitt & Taylor, 815 E 59th St., Los Angeles, at \$45,617.05 submitted low bid to California State Highway Commission, Sacramento, to widen 24.4 miles of existing roadbed and oil treat earth shoulder on each side of existing pavement for a distance of about 11.2 miles between Lancaster and Mojave in Los Angeles and Kern counties, involving:

- (1) 1,287 sta. clear and grub right of way;
- (2) 22,800 cu. yds. rdwy. excav., unclassified;
- (3) 500,000 sta. yds. overhaul;
- (4) 126,000 cu. yds. imp. borrow;
- (5) 1,100 cu. yds. struc. excav.;
- (6) 77 cu. yds. Class A Port. cement concrete structures;
- (7) 3,550 lbs. bar reinf. struc.;
- (8) 1,030 lin. ft. 18-in. CMP;
- (9) 170 lin. ft. 24-in. CMP;

- (10) 194 each culvert markers;
- (11) 5,500 lbs. heavy fuel oil;
- (12) 11.2 miles prepare, mix and shape shoulders;
- (13) 7.25 miles remove and reset existing property fence;
- (14) 1,287 sta. finish rdwy.;
- (15) 117 each monuments complete in place.

The State will furnish corrugated metal pipe.

Complete bids follow:

- (A) Dimmitt & Taylor, Los Angeles, \$45,617.05.
- (B) J. E. Haddock, Pasadena, \$47,997.75.
- (C) Geo. K. Thompson, Los Angeles, \$48,619.30.
- (D) Griffith Co., Los Angeles, \$51,684.
- (E) Tiffany Const. Co., San Jose, \$52,746.50.

Unit prices follow:

	(A)	(B)	(C)	(D)	(E)
(1)	\$ 1.30	\$ 1.00	\$ 1.15	\$ 2.00	\$ 2.50
(2)	.45	.40	.33	.50	.42
(3)	.002	.006	.02	.008	.006
(4)	.31	.45	.33	.415	.55
(5)	1.15	.75	.80	.70	.80
(6)	30.00	20.00	22.50	25.00	24.00
(7)	.08	.06	.055	.06	.06
(8)	.35	.40	.90	.50	.40
(9)	.45	.50	1.00	.60	.50
(10)	1.75	2.00	3.00	2.50	2.00
(11)	1.60	1.60	1.71	1.60	1.60
(12)	491.00	470.00	290.00	370.00	325.00
(13)	115.00	175.00	150.00	250.00	300.00
(14)	2.50	3.00	2.00	3.00	3.00
(15)	3.00	2.00	2.00	2.50	3.00

ENGINEERING NEWS

(Continued from Page 27)

JACKSON COUNTY, Oregon.—A. S. Wallace, Roseburg, at \$9,480, awarded contract by State Highway Commission, Portland, for 6000 cu. yds. crushed rock or gravel, in stock piles, Green Springs Rock Production Project, on Green Springs Highway. Complete bids follow:

- A. S. Wallace, Roseburg, \$9,480.
- M. C. Lininger & Son, Ashland, \$11,265.
- R. I. Stuart & Sons, Medford, \$14,640.
- David W. Johnson & W. D. Miller, Klamath Falls, \$15,489.
- A. Milne, Portland, \$15,765.
- Earl L. McNutt, Eugene, \$17,265.

SAN FRANCISCO.—The San Francisco Board of Supervisors has set Nov. 7 as the date for the special election on a bond issue of \$260,000 to finance the improvements at the San Francisco Municipal Airport. The work includes:

- (1) extension of east-west runway of the airport;
 - (2) filling in of tideland to the east of the present airport;
 - (3) filling, grading, surfacing, draining same;
 - (4) lighting facilities of said runway.
- The Federal Public Works Administration has approved a grant to the city of San Francisco of \$53,000 to finance the above work, contingent upon approval of the bonds.

SAN FRANCISCO — San Francisco Board of Supervisors has set Nov. 7 as the date for the special election on a bond issue of \$2,100,000, to finance the widening, straightening, and re-conditioning of existing streets and boulevards to conform with the approaches to the Golden Gate and the San Francisco-Oakland Bay Bridges. The work to be done includes:

- (1) Lombard St., Lyon St. to Van Ness Avenue;
- (2) Van Ness Ave., Market St. to northerly termination;
- (3) Howard Street, Embarcadero to Army Street;
- (4) Nineteenth Ave., Lincoln Way to Sloat Blvd.;
- (5) Golden Gate Ave., Market St. to Van Ness Ave.;
- (6) Front St., Market St. to Embarcadero;
- (7) Fremont St., Market St. to Harrison St.;
- (8) Sixth St., Harrison St. to Market Street;
- (9) California St., Fillmore St. to Maple Street;
- (10) Eighth St., Harrison St. to Market Street.
- (11) A highway crossing Golden Gate Park from Funston Ave. to Nineteenth Ave.;
- (12) A divisional highway from Divisadero St. to Castro St.;
- (13) Geneva Ave., Mission St. to Bayshore Highway.
- (14) Laguna Honda Blvd., and other and adjacent streets, avenues or boulevards.

The Federal Public Works Administration has approved a grant to the city of San Francisco of \$464,000 for financing the above work contingent upon approval of the bonds.

BOND ELECTION DEFEATED

HAWTHORNE, Cal.—The \$135,000 bond issue to finance a water system expansion program failed to carry at the special election October 31. The issue lost by five votes, but officials report that only one-third of the electors voted.

(Continued on Page 29)

HAMILTON FIELD — PAVED APRONS — GOVT.

HAMILTON FIELD, Cal.—N. M. Ball, 1889 Yosemite Road, Berkeley, at \$106,500 submitted low bid to the Constructing Quartermaster, Hamilton Road, San Rafael, for the construction of paved aprons of reinforced Portland cement concrete and drainage at Hamilton Field. The work involves:

- (1) Excavation, common (trench) per cu. yd.;
- (2) Excavation, common, per cu. yd.;
- (3) Backfill in trenches, per cu. yd.;
- (4) 6-in. vit. clay pipe per lin. ft. in trenches;
- (5) 8-in. do;
- (6) 10-in. do;
- (7) 12-in. do;
- (8) 15-in. do;
- (9) 18-in. do;
- (10) 24-in. do;
- (11) 27-in. do;
- (12) Rock fill in trench, per cu. yd.;
- (13) Crushed rock 6-inch compacted per sq. yd.;
- (14) 6-in. reinf. Port. cem. conc. pave., per sq. yd.;
- (15) Concrete curbs, per lin. ft.

- (16) Concrete sidewalk, 4-in. thick, per sq. ft.;
 - (17) Corrugated pipe, 27-in. dia., per lin. ft.;
 - (18) Brick in manholes, per M.;
 - (19) Catchbasins casting per lb.;
 - (20) Concrete (1-2-4) per cu. yd.;
 - (21) Reinf. steel bars, per lb.;
 - (22) Reinf. steel mesh per sq. ft.
- Complete bids follow:
- (A) N. M. Ball, Berkeley, \$106,500.
 - (B) Fay Improvement Co., San Francisco, \$109,000.
 - (C) Fredrickson & Watson, Oakland, \$109,000.
 - (D) Pacific States Constr. Co., San Francisco, \$114,475.
 - (E) Eaton & Smith, San Francisco, \$119,122.
 - (F) Chas. L. Harney, San Francisco, \$119,555.
 - (G) Heafey Moore Co., San Francisco, \$121,382.
 - (H) MacDonald & Kahn, San Francisco, \$126,096.
 - (I) J. C. Compton, McMinnville, Ore., \$132,000.
- Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
(1)	\$.40	\$.60	\$.50	\$.30	\$.75	\$1.08	\$.28	\$.70	\$.30
(2)	.20	.25	.24	.20	.20	.50	.40	.30	.30
(3)	.15	.10	.50	.15	.01	.12	.15	.15	.15
(4)	.38	.34	.27	.60	.30	.69	.60	.33	.60
(5)	.64	.60	.30	.65	.375	.79	.65	.42	.62
(6)	.75	.70	.66	.76	.575	1.10	.80	.60	.75
(7)	.84	.80	1.03	.85	.62	1.13	.90	.72	.85
(8)	1.12	1.10	1.40	1.15	.90	1.50	1.20	1.05	1.15
(9)	1.41	1.50	1.85	1.45	1.46	1.88	1.50	1.38	1.45
(10)	2.09	2.35	2.30	2.20	2.28	3.00	2.20	2.25	2.10
(11)	3.00	3.30	3.45	3.20	3.32	4.30	3.20	3.25	3.00
(12)	3.50	2.20	2.50	2.60	2.30	3.00	2.95	2.25	2.60
(13)	.41	.55	2.80	.50	.046	.48	.48	2.25	.60
(14)	1.51	1.58	8.10	1.58	1.71	1.57	1.85	2.00	1.85
(15)	1.00	.60	.60	.55	.60	.75	.55	.55	1.00
(16)	.20	.13	.15	.14	.15	.15	.15	.13	.15
(17)	3.00	3.50	4.15	3.20	3.00	5.00	3.20	3.35	3.50
(18)	25.00	35.00	48.00	25.00	45.00	30.00	25.00	35.00	25.00
(19)	.05	.06	.04	.05	.04	.06	.05	.05	.05
(20)	20.00	18.00	18.00	20.00	15.00	12.00	20.00	20.00	20.00
(21)	.08	.05	.06	.05	.045	.06	.05	.05	.05
(22)	.02	.038	.02	.028	.03	.02	.025	.02	.027

YOLO COUNTY — GRADING 3.7 MI. — STATE

YOLO COUNTY, Calif.—Young and Son Co., Ltd., 599 Colusa Ave., Berkeley, at \$140,708.30 submitted low bid to California State Highway Commission, Sacramento, to grade about 3.7 miles between Rumsey and the northerly boundary of Yolo county, involving:

- (1) 25 acres clear and grub right of way;
- (2) 203,000 cu. yds. rdwy. excav., unclassified;
- (3) 2,084,000 sta. yds. overhaul;
- (4) 18,500 cu. yds. sel. stone embankment;
- (5) 5,000 cu. yds. blasting channel obstructions;
- (6) 7,500 cu. yds. struc. excav.;
- (7) 32 lin. ft. 12-in. C.M.P.;
- (8) 1,234 lin. ft. 18-in. do;
- (9) 280 lin. ft. 24-in. do;
- (10) 394 lin. ft. 36-in. do;
- (11) 108 lin. ft. 48-in. do;

- (12) 176 lin. ft. 84-in. do;
 - (13) 1,600 cu. yds. rubble masonry;
 - (14) 124 lin. ft. rubble masonry parapet;
 - (15) 5 miles new property fence;
 - (16) 10 each gates complete in place;
 - (17) 190 sta. finish rdwy.;
 - (18) 68 each monuments complete in place.
- Complete bids follow:
- (A) Young & Son Co., Ltd., Berkeley, \$140,708.30.
 - (B) Fredrickson & Watson, Oakland, \$148,509.20.
 - (C) Hemstreet and Bell, Marysville, \$149,185.60.
 - (D) Von Der Hellen & Pierson, Castaic, \$151,418.
 - (E) Bechtel-Kaiser Co., San Francisco \$186,334.60.
 - (F) Central States Contr. Co., Oakland, \$191,430.
- Unit prices follow:

	(A)	(B)	(C)	(D)	(E)	(F)
(1)	\$ 75.00	\$ 60.00	\$100.00	\$100.00	\$ 180.00	\$300.00
(2)	.39	.42	.45	.45	.475	.58
(3)	.005	.005	.005	.005	.006	.005
(4)	.45	.90	.30	.50	1.30	1.00
(5)	.35	.30	.25	.40	.24	.50
(6)	1.40	1.00	1.25	1.00	1.50	1.00
(7)	1.05	1.10	1.25	1.00	1.25	1.50
(8)	1.65	1.50	1.65	1.50	1.90	2.00
(9)	2.60	3.00	2.45	2.50	2.80	2.50
(10)	4.70	4.50	4.75	4.50	5.10	5.00
(11)	7.85	7.50	7.75	8.00	8.20	8.00
(12)	18.00	16.00	18.50	17.00	19.50	20.00
(13)	9.50	8.00	9.00	10.00	12.00	8.50
(14)	2.25	3.50	2.50	3.00	2.00	2.25
(15)	600.00	600.00	800.00	500.00	1000.00	500.00
(16)	18.00	20.00	15.00	15.00	48.00	20.00
(17)	6.00	5.00	5.00	5.00	9.00	5.00
(18)	3.00	2.50	3.00	3.00	4.00	2.50

ENGINEERING NEWS

(Continued from Page 28)

PIERCE COUNTY, Wash. — Until November 9, 10 A. M., bids will be received by U. S. Bureau of Public Roads, W. H. Lynch, District Engineer, 316 New Post Office Bldg., Portland, Oregon, for grading 3.117 miles of Stevens Canyon Highway Project NR-4-B, in Mt. Rainier National Park, County of Pierce, Washington, involving:

- (1) 26 acres clearing;
- (2) 16 acres grubbing;
- (3) 194,910 cu. yds. unclass excav.;
- (4) 168,000 sta. yds. overhaul;
- (5) 3.117 ml. finish earth graded road;
- (6) 115 cu. yds. class A concrete;
- (7) 63 cu. yds. masonry headwalls;
- (8) 13,500 lbs. reinf. steel;
- (9) 700 cu. yds. masonry retaining and wing walls;
- (10) 55 cu. yds. masonry guard rail, Type 2;
- (11) 1680 lin. ft. reinf. conc. pipe;
- (12) 558 lin. ft. culverts (Alt.);
- (13) All lump—Toto Road construction and obliteration;
- (14) 12,000 lin. ft. flattening and rounding of cut slopes.

Plans and specifications obtainable from above office upon a deposit of \$10.00.

HUMBOLDT AND DEL NORTE COUNTIES, Cal.—Until November 15, 2 P. M., bids will be received by the Department of Public Works, Division of Highways, at the office of the District Engineer, J. W. Vickrey, 546 W. Wabash Ave., Eureka, for screenings to be furnished and stockpiled at various locations in Humboldt and Del Norte Counties.

ARIZONA STATE—Pearson & Dickerson, 202 N. Central Ave., Phoenix, Arizona, at \$49,374.60 submitted low bid to the Arizona State Highway Commission, Phoenix, Ariz., for highway construction on the shfolk-Kingman Highway, NRH 80-E and D which extends from a point about 2 miles northwest of the town of Hackberry to a point about 5½ miles east of Hackberry.

Martin Bros. Trucking Co., Long Beach, submitted second low bid at \$50,179.78.

SAN DIEGO, Cal.—H. N. Savage, San Diego City Hydraulic Engineer, has been authorized by the city council to prepare plans and specifications for the El Capitan-Lakeside pipe line and for a road to encircle the reservoir.

The proposed pipe line will connect the dam reservoir with the terminus of the San Diego-Lakeside pipe line which was built in 1927. The new line will consist of 6-mi. of 48-in. pipe from El Capital to the El Monte pumping plant, at the La Mesa Lemon Grove and Spring Valley Irrigation District, where the irrigation district's intake will leave the main El Capitan conduit. From the El Monte Pumping Plant to Lakeside, the line will consist of 2-mi. of 36-in. pipe. The pressure head will vary from 200 ft. to 400ft.. The depth of cover for the trenching will run from 2 to 2½ ft. The estimated cost is \$600,000. Present plans indicate that alternative bids will be taken on welded, lap, or riveted steel pipe, cast iron, and reinforced concrete pipe.

BRAWLEY, Cal.—The \$331,000 bond issue for water system extension plant, and sewer improvements was approved at special election Oct. 27. Application for a loan will be made to the Federal Public Works Administration.

(Continued on Page 31)

NAVAJO-APACHE COS. ARIZ—BASE COURSE—STATE

NAVAJO-APACHE COS., Arizona.—Southern California Roads Co., 2145 E. 25th St. Los Angeles, at \$118,958.70 was awarded the contract by Arizona Highway Commission for highway construction on the Holbrook-Lupton Highway, N.R.H. 88-F. The work begins at the north city limits of Holbrook on Porter St. and extends northeast approximately 14.25 mi. and consists of placing a base course and plant mix using cutback asphalt and is to be completed on or before March 1, 1934. Complete bids follow: (A) Southern California Roads Co., Los Angeles, \$118,958.70. (B) C. V. Hollenbeck, Denver, Colo., \$134,873.07. (C) Heuser & Garnett & Fleming, Glendale, Calif., \$135,627.97. (D) Arizona Sand & Rock Co., Phoenix, \$141,256.22. (E) Pearson & Dickerson, Inc., Phoenix, \$141,172.92. (F) Heafey-Moore Co. and J. A. Casson, Phoenix, \$143,888.09. (G) Phoenix-Tempe Stone Co., Phoenix, \$160,987.29.

- Quantities follow: (1) 233,698 sq. yds. reshaping rd. surf. (2) 334 M. gals. sprinkling (CIP); (3) 25,503 cu. yds. aggregate base course; (4) 114,112 cu. yds. do. haul; (5) 6028 cu. yds. shoulder material; (6) 26,972 cu. yds. mi. do. haul; (7) 25,609 tons plant mix; (8) 231,050 ton mi. do. haul; (9) 1229 tons cutback asph. (for plant mix and seal coat (CIP); (10) 14,224 miles placing mix; (11) 1217 cu. yds. screenings (CIP); (12) 450 sq. yds. placing intersections; Structures Over 20-ft. Clear Span (13) 23 cu. yds. aggregate base course (14) 104 cu. yds. mi. do. haul; (15) 71 tons plant mix; (16) 842 ton mi. plant mix, haul; (17) 3 tons cutback asphalt (for plant mix and seal coat; CIP); (18) 0.031 mile place plant mix; (19) 3 cu. yds. screenings (CIP); Non-Federal Aid (20) 285 cu. yds. stockpiled aggregate (CIP). Unit bids follow:

Table with 7 columns (A) through (G) and 20 rows of unit bid prices for various construction items.

OWYHEE PROJECT — CANAL LINING — GOVT.

ONTARIO, Oregon—Following bids received by the U. S. Department of the Interior, Bureau of Reclamation, Ontario, Oregon, Elwood Mead, Commissioner, for construction of earthwork, concrete lining and structures, North Canal, Station 513 to Station 2051 (Malheur River Siphon) and Mitchell Butte division, Owyhee project, Oregon-Idaho. The work is located near Nyssa and Ontario, Oregon, on the Oregon Short Line Railroad. (A) J. A. Terteling & Sons, Boise, Idaho. (B) Morrison-Knudsen, Boise, Idaho.

- (C) Hass, Doughty & Jones, San Francisco. (D) Fredrickson and Watson Construction Co., Oakland, Cal. (E) Lawlor-Woodward Co., Seattle, Wash., and S. W. Newell & Co., Portland, Ore. (F) Martin Day Co., Lincoln, Nebr. (G) General Construction Co., Seattle, Wash. (H) W. E. Callahan Constr. Co., Dallas, Texas. (I) Guthrie-McDougall Constr. Co., Portland, Ore.

Table with 7 columns (A) through (G) and 10 rows of unit bid prices for canal lining project, including a total bid summary and a list of contractors.

EL DORADO COUNTY, Cal.—Hemstreet & Bell, 501 11th St., Marysville, at \$144,783.05 submitted low bid to the Bureau of Public Roads, C. H. Sweetser, District Engineer, 461 Market St., San Francisco, to grade 2.189 mi. Section G of Route 32, Placerville-Lake Tahoe National Forest Highway, El Dorado National Forest, El Dorado County, involving:

- (1) 2 1/2 acres clearing; (2) 149,000 cu. yds. unclass. excav.; (3) 1800 cu. yds. unclass. excav., struc.; (4) 239,000 sta. yds. overhaul; (5) 2.189 mi. finish earth graded road; (6) 80 cu. yds. cem. rubble masonry; (7) 290 lin. ft. 8-in. CGMP (perf.); (8) 2446 lin. ft. 18-in. C.G.M.P.; (9) 306 lin. ft. 24-in. do; (10) 172 lin. ft. 30-in. do; (11) 56 lin. ft. 18-in. relay salvaged C.G.M.P.; (12) 62 lin. ft. remove and dispose of exist. CGMP; (13) 110 cu. yds. crushed rock backfill; (14) 20,000 gal. asph. road oil; (15) Extra work, reset milestones; (16) Extra work, maintenance of existing roads and culverts.

- Complete bids follow: (A) Hemstreet & Bell, Marysville, \$144,783.05. (B) MacDonald & Kahn, San Francisco, \$148,000. (C) Bodenhamer Constr. Co., Oakland, \$149,783.26. (D) Engineer's Estimate, \$122,372.85. (A) (B) (C) (D) (1) .. \$350.00 \$300.00 \$350.00 \$250.00 (2) .. .81 .835 .85 .68 (3) .. 1.50 1.50 1.25 1.50 (4) .. .01 .015 .01 .01 (5) .. 250.00 500.00 300.00 250.00 (6) .. 15.00 16.00 15.00 15.00 (7) .. 1.25 1.00 .82 1.00 (8) .. 1.80 1.80 1.56 1.55 (9) .. 2.75 2.50 2.31 2.25 (10) .. 3.75 3.50 2.92 2.90 (11) .. .75 .50 .60 1.00 (12) .. 1.00 .50 .65 .50 (13) .. 4.00 4.50 6.00 3.60 (14) .. .08 .10 .09 .085 (15) .. 50.00 50.00 50.00 50.00 (16) .. 1500.00 1500.00 1500.00 1500.00

The bids were previously opened October 13, and rejected as excessive. The bids received at that time were: (A) Hemstreet & Bell, Marysville, \$135,843.05. (B) Hanrahan Co., San Francisco, \$145,237.20. (C) Fredrickson & Watson, Oakland, \$146,989.25. (D) Bodenhamer Constr. Co., Oakland, \$152,165.76. (E) MacDonald & Kahn, San Francisco \$162,439.10. (F) Geo. Pollock Co., Sacramento, \$164,969. (G) Young & Son, Berkeley, \$189,821.50 (H) Engineer's Estimate, \$97,452. All bids have again been recommended for rejection as excessive.

BERKELEY, Alameda Co., Calif.—McGuire & Hester, 1483 Hopkins St., Oakland, at \$818.00 awarded contract by Berkeley city council to construct sewer on Shattuck Ave. north of Los Angeles St., involving:

- (1) 430 ft. 12-in. vit. sewer pipe; (2) 430 ft. 12-in. concrete sewer pipe; (3) 15 ft. 10-in. vit. sewer pipe; (4) 15 ft. 10-in. conc. sewer pipe; (5) 2 catchbasins; (6) 1 manhole. (A) McGuire & Hester.....\$818.00 (B) Martin Murphy, Berkeley..... 853.15 (C) Lee J. Immel, Berkeley..... 879.75 (D) Oakland Sewer Const. Co..... 885.05 (E) Schnoor Bros., Oakland..... 967.90 Unit prices follow: (A) (B) (C) (D) (E) (1)..... \$1.47 \$1.48 \$1.63 \$1.68 \$1.86 (2)..... 1.40 1.60 1.56 1.78 (3)..... 1.47 1.25 1.50 1.00 1.50 (4)..... 1.40 1.45 .95 1.50 (5)..... 65.00 70.00 60.00 75.00 60.00 (6)..... 65.00 58.00 50.00 50.00 60.00

HUMBOLDT CO., NEV.—HIGHWAY CONST.—STATE

HUMBOLDT COUNTY, Nev.—Geo. French, Jr., P. O. Box 107, Stockton, at \$94,574.72 (as previously reported) awarded contract by Nevada State Highway Directors, to construct 15.04 miles of highway in Humboldt County between Orovalda and 15 miles north on Rt. 8, Sec. D1.

As previously reported, complete bids follow:

- (A) Geo. French, Jr., Stockton, \$94,574.72.
 - (B) Utah Const. Co., Ogden, \$99,921.97
 - (C) Ishell Const. Co., Carson City, \$100,507.83.
 - (D) Gibbons & Reed Co., Salt Lake City, \$104,632.64.
 - (E) Dodge Const. Co., Inc., Fallon, Nev., \$105,092.18.
 - (F) Union Paving Co., San Francisco, \$117,953.42.
 - (G) Engineer's estimate, \$104,528.00.
- Quantities are as follows:
- (1) 80,000 cu. yds. rdwy. excav.;
 - (2) 126 acres clearing and grubbing;

- (3) 37,221 yd. sta. overhaul;
 - (4) 42,684 cu. yds. select borrow;
 - (5) 1200 cu. yds. struc. excav.;
 - (6) 15.04 ml. subgrade;
 - (7) 47,500 cu. yds. crushed gravel or stone surface;
 - (8) 85 cu. yds. class A concrete;
 - (9) 138 cu. yds. class B concrete;
 - (10) 11,200 lbs. reinf. steel;
 - (11) 2652 lin. ft. 18-in. CMP;
 - (12) 784 lin. ft. 24-in. CMP;
 - (13) 220 lin. ft. 30-in. CMP;
 - (14) 182 lin. ft. 36-in. CMP;
 - (15) 314 lin. ft. 18-in. CMP (asph. coated);
 - (16) 322 lin. ft. 24-in. CMP do;
 - (17) 48 lin. ft. 30-in. CMP do;
 - (18) 58 lin. ft. 48-in. CMP do;
 - (19) 1067 lin. ft. remove fence;
 - (20) 660 lin. ft. reconstr. fence;
 - (21) 1618 lin. ft. construct fence;
 - (22) 38 monuments;
 - (23) 15.04 miles finish roadway.
- Unit prices follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
(1).....	\$.25	\$.32	\$.24	\$.30	\$.30	\$.40	\$.35
(2).....	12.50	15.00	25.00	20.00	25.00	30.00	5.90
(3).....	.03	.03	.02	.03	.03	.03	.02
(4).....	.37	.40	.40	.35	.40	.48	.40
(5).....	1.00	1.00	1.00	1.25	1.00	1.00	1.00
(6).....	100.00	100.00	100.00	120.00	100.00	100.00	150.00
(7).....	.70	.68	.76	.80	.75	.70	.75
(8).....	30.00	27.00	30.00	25.00	30.00	35.00	28.00
(9).....	30.00	27.00	30.00	25.00	28.00	30.00	27.00
(10).....	.08	.07	.06	.07	.08	.07	.07
(11).....	1.75	1.75	2.00	2.00	2.00	2.50	1.65
(12).....	2.50	2.50	2.75	3.00	3.00	3.40	2.50
(13).....	3.50	3.20	3.25	3.70	3.75	4.00	2.90
(14).....	5.50	5.00	5.00	5.75	5.50	6.00	4.50
(15).....	2.00	2.10	2.50	2.20	2.25	2.75	2.25
(16).....	3.00	3.10	3.00	3.20	3.25	3.60	3.30
(17).....	4.00	4.00	4.00	3.95	4.00	4.25	3.80
(18).....	9.00	9.00	9.00	9.70	10.00	10.00	7.70
(19).....	.03	.02	.03	.03	.05	.03	.03
(20).....	.07	.05	.05	.10	.15	.05	.10
(21).....	.10	.10	.10	.15	.20	.12	.12
(22).....	3.00	3.00	3.50	2.50	3.00	3.00	3.00
(23).....	100.00	100.00	150.00	130.00	100.00	150.00	100.00

WHITE PINE & ELKO COS. NEV.—Surf. 21.69 Mi.—State

WHITE PINE AND ELKO COS., Nevada—Utah Construction Co., Ogden, Utah, at \$138,084.90 (as previously reported) awarded contract by Nevada State Highway Directors, Carson City, to surface 21.69 mi. in White Pine and Elko Counties, between 28.5 ml. north of Magnusson's and 5 miles north of Currie, Route 13, Sec. A and A1, involving:

- (1) 179,200 cu. yds. rdwy. excav.;
- (2) 139 acres clearing and grubbing;
- (3) 80,196 sta. yds. overhaul;
- (4) 50,760 cu. yds. select borrow;
- (5) 1670 cu. yds. struc. excav.;
- (6) 21.69 ml. subgrade;
- (7) 68,500 cu. yds. cru. gravel or stone surface;
- (8) 255 cu. yds. Class B concrete;
- (9) 5150 lbs. reinf. steel;
- (10) 1324 lin. ft. 18-in. CMP;

- (11) 3734 lin. ft. 24-in. CMP;
 - (12) 114 lin. ft. 30-in. CMP;
 - (13) 538 lin. ft. 36-in. CMP;
 - (14) 268 lin. ft. 48-in. CMP;
 - (15) 1710 lin. ft. construct fence;
 - (16) 69 Monuments;
 - (17) 21.69 ml. finish roadway.
- Complete bids follow:
- (A) Utah Constr. Co., Ogden, \$138,084.90.
 - (B) Geo. French Jr., Stockton, \$148,358.58.
 - (C) Dodge Constr., Inc., Fallon, Nevada, \$149,344.38.
 - (D) Ishell Const. Co., Carson City, Nevada, \$151,024.02.
 - (E) Gibbons & Reed Co., Salt Lake City, \$153,629.08.
 - (F) Union Paving Co., San Francisco, \$186,932.68.
 - (G) Engineer's Estimate, \$163,712.62.
- Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
(1).....	\$.27	\$.25	\$.27	\$.24	\$.28	\$.40	\$.30
(2).....	15.00	12.00	25.00	25.00	15.00	30.00	10.00
(3).....	.025	.03	.03	.02	.03	.03	.02
(4).....	.32	.37	.35	.40	.34	.45	.45
(5).....	.80	1.00	1.00	1.00	1.00	1.00	1.00
(6).....	70.00	100.00	100.00	100.00	110.00	100.00	150.00
(7).....	.60	.70	.65	.70	.70	.70	.80
(8).....	26.00	30.00	30.00	30.00	25.00	30.00	27.00
(9).....	.06	.08	.08	.07	.07	.07	.07
(10).....	1.70	1.75	2.00	2.00	2.00	2.50	1.50
(11).....	2.50	2.50	2.75	3.00	3.00	3.40	2.25
(12).....	3.00	3.50	3.25	3.50	3.65	4.00	2.50
(13).....	4.60	5.50	5.00	5.00	5.75	6.00	4.00
(14).....	7.50	8.25	8.50	8.00	9.15	10.00	6.50
(15).....	.07	.10	.15	.15	.15	.12	.12
(16).....	3.00	3.00	3.00	3.50	2.65	3.00	3.00
(17).....	80.00	150.00	100.00	150.00	125.00	150.00	100.00

ENGINEERING NEWS

(Continued from Page 29)

SPokane and STEVENS COS., Wash.—Joslin & McAllister, Spokane, at \$69,677 awarded contract by State Highway Commission to grade and surface 4.73 mi. S. R. No. 3. Deer Park to Clayton, Spokane, and Stevens Counties. Complete bids follow: Joslin & McAllister, Spokane, \$69,677; D. A. Sullivan, Inc., and Matern Bros. 60,958; March Constr. Co. 71,222; A. L. Mitchell & Son 77,162; Triangle Conser. Co., Spokane 85,710; Fred G. Redmon and N. E. De-gerstrom 86,544

CONTRACT AWARDED

MODESTO, Stanislaus Co., Cal.—Lloyd W. Terrill, Turlock, at \$2,986.10 awarded contract by Modesto Board of Education for the construction of concrete sidewalks, curbs and gutters on the grounds of the Modesto Junior College and on College Avenue fronting grounds, involving: (1) 14,720 sq. ft. sidewalks; (2) 1650 lin. ft. curbs and gutters. Following bids received: (A) Lloyd W. Terrill, Turlock, \$2,986.10. (B) Nelson & Wallace, Escalon, \$3,131.40. (C) Harry Brown, Modesto, \$3,199.43. (D) Standard Paving Co., Modesto, \$3380.80. (E) Valley Constructors, Inc., Modesto \$3510.20. (F) H. W. Williams, Modesto, \$3611.10 (G) George M McGow, \$4391.00. (H) L. Ubels, Ripon, no total.

Unit prices follow:

	(1)	(2)
(A).....	\$.13	\$.65
(B).....	.14	.65
(C).....	.139	.699
(D).....	.14	.80
(E).....	.16	.70
(F).....	.15	.85
(G).....	.175	1.10
(H).....	.189	.93



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IN THIS ISSUE



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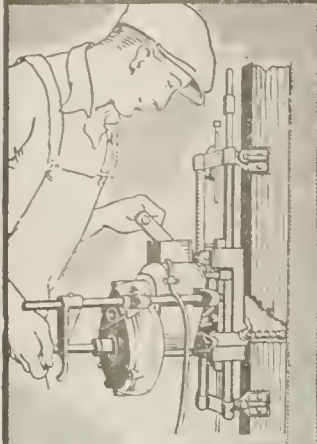
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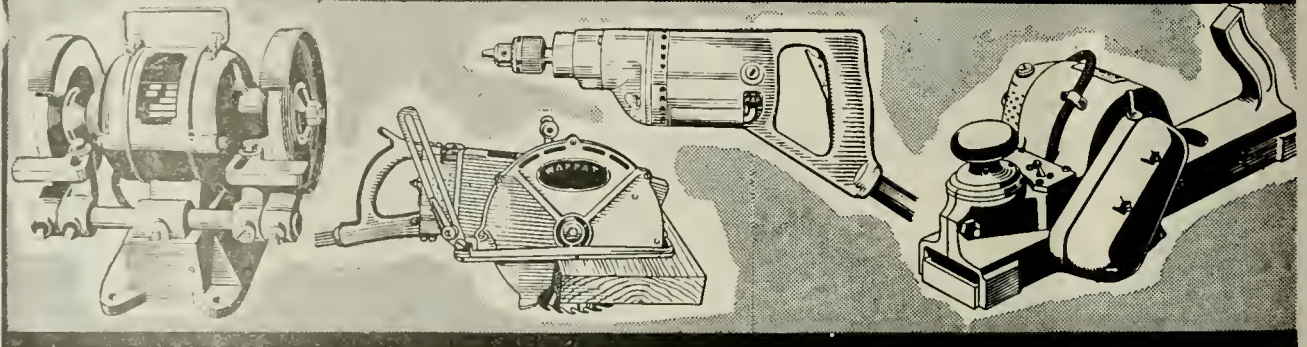
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SAN FRANCISCO, CALIF., NOVEMBER 11, 1933

No. 43

KELLY ASKS RULING ON CRA BIDDING

Department of Public Works
To Get Opinion From
Attorney General

Whether contractors who fail to comply with the state and national codes of fair competition are disqualified for state highway work is a question which Earl Lee Kelly, state director of public works, has put before Attorney General U. S. Webb.

After a conference with C. C. Carleton, the attorney for the department, Kelly states the point at stake is whether failure to comply with these codes constitutes irresponsibility under the law.

The division of highways now is required to award the contracts to the lowest responsible bidders. If non-conformance is to be considered irresponsibility in the meaning of the law, these contractors will be eliminated for future contracts.

"The federal government has the same problem in regard to federal projects," says Carleton, "and is as yet uncertain as to these contractors' standing."

Kelly states:

There appears to be a conflict in the statutes governing the situation. One requires us to give the contract to the lowest responsible bidder, while the state recovery acts require conformance with the industrial codes by contractors doing state work. The question arises as to which is paramount.

The crisis was precipitated by a San Luis Obispo county road contract in which the low bidder uses estimates less than the state code minimums for rental of trucking and excavating equipment, it is reported.

"Conformance to such minimums conceivably may result in all bids being the same," Kelly said. "The department does not wish to be placed in the position of having to pick the successful bidders. Letting the contracts to the lowest responsible bidder seems to be the fairest method of handling public contracts."

CONTRACT ON BOULDER CANAL IS ADVERTISED

Government Calls Bids on
Three Important Con-
struction Projects

Calls for bids were issued yesterday on three major government construction projects in the states of Arizona, Oregon and Washington.

The initial contract on the All-American canal, involving more than 4,500,000 cubic yards of excavation was advertised by the Bureau of Reclamation for bids to be opened December 4. They will be received at the Yuma, Ariz., office of the bureau. The work to be done is located from 6 to 8 miles west of Yuma.

From Spokane, Wash., the bureau issued a call for bids on the excavation of overburden at the Grand Coulee dam site, located about 20 miles northwest of Almira Washington. The contract calls for excavation of 2,040,000 cubic yards and 1,000,000 station yards overhaul. The Federal Public Works Administration recently allotted \$1,000,000 for the work. Bids will be received November 20.

At Portland, Ore., the U. S. District Engineer, War Department, called for bids to be opened on November 13, on construction of half a mile of road to the site of the locks at Bonneville Dam. This work is preliminary to calling for bids on the construction of the locks, which will be advertised shortly. A contract for preliminary excavation at the Bonneville dam site was awarded last week to the General Construction Co., Seattle, on a bid of \$668,500.

A complete description of each of these three contracts appears in today's Advance Report Section.

APPOINT ENGINEERS FOR BONNEVILLE DAM

D. C. Henry of Portland, and L. F. Harza of Chicago, have been placed on the staff of engineering experts engaged in work on the Bonneville dam project, C. I. Grimm chief civilian engineer, announced.

Both engineers are familiar with the work having been engaged to make preliminary surveys prior to the time that the project was approved by the administration.

Chicago Firms Low Bidders On S. F. Building

Great Lakes Construction Co.
Figure \$2,647,800
On Contract

WASHINGTON, D. C., Nov. 7.—Low bid on the general contract for the San Francisco Federal Office Building was submitted by Great Lakes Construction Company, 333 N. Michigan Ave., Chicago, at \$2,647,800. Bids were received by the Supervising Architect, Treasury Department, this afternoon. Seven contractors submitted bids.

The Great Lakes Company was low bidder on both proposals for the general contract, bidding \$2,566,800 on the second proposition, which omits an attic on the McAllister street front.

Complete bids on both proposals follow:

(A) Great Lakes Const. Co., (I) \$2,647,800; (II) \$2,566,800.

(B) Jacobsen Bros., (I) \$2,793,000; (II) \$2,700,000.

(C) Lindgren & Swinerton, (I) \$2,857,000; (II) \$2,771,000.

(D) George Wagner and K. E. Parker, (I) \$2,870,922; (II) \$2,780,550.

(E) Clinton Const. Co., (I) \$2,918,000; (II) \$2,832,000.

(F) Ring Const. Co. & Fleisher Engr. & Const. Co., (I) \$2,957,000; (II) \$2,867,000.

(G) MacDonald & Kahn (I) \$2,959,000; (II) \$2,843,400.

Bids were first received for the building on Feb. 28, 1933. Award was delayed, however, and all low bidders finally declined to accept the contract. The original low bid was offered by the N. P. Severin Company, Chicago, at \$2,548,000, and Great Lakes Const. Co. was second low bidder at \$2,597,952.

The plans were later revised in order to bring the project within an appropriation of \$2,689,000 by the Public Works Administration. The general contract on which bids were received yesterday provides for a five-story reinforced concrete building with basement and attic, exclusive of elevator plant and lighting fixtures. Excavation was completed several months ago under a separate contract.

Plans were prepared by Architect Arthur Brown, Jr., C. H. Snyder, structural engineer and Leland & Haley, mechanical engineer.

EARLY START ON MUNICIPAL WORK PROMISED

**Voters Approve \$20,486,000
Bonds for S. F.
Construction**

An early start on many construction projects to be financed by the \$20,486,000 in bond issues approved by the voters of San Francisco at Tuesday's election was promised yesterday by municipal authorities.

Much of the preliminary engineering was done in order to perfect the city's applications for Federal Public Works grants which will finance about 30 percent of the total cost. Yesterday work was being continued to complete plans for all of the construction that can be undertaken immediately.

The following bond issues were approved:

Water System Extensions	\$12,095,000
Raising O'Shaughnessy Dam 85.5 ft.....	3,500,000
Sewer Reconstruction	2,625,000
High Pressure System Extension	2,000,000
Municipal Airport Im- provement	260,000

The water department program is estimated to employ 2100 men over a period of two years. Work is ready to start as soon as bonds can be sold, in about a month. Raising O'Shaughnessy Dam will employ 700 men for 18 months, with work ready to start within 60 days. The airport runway, employing 143 men for a year, is also ready to be started as soon as the bonds are sold.

The \$2,625,000 program of sewer replacements and improvements, including two sewage treatment plants to eliminate pollution of bay waters, employing 325 men for two years, probably will not get under way for between three and four months.

Rights of way must be obtained in many cases and changes in street grades in connection with altering the new sewers involve more delay than is anticipated in the case of the other projects.

The \$2,000,000 high pressure main extension program is completely planned, the locations having long ago been decided by the Fire Department, including those of the chain of cisterns along Van Ness Ave. Work on this project is estimated to start in well under sixty

PWA HOUSING CORPORATION IS ORGANIZED

**New Authority Empowered to
Engage in Low-Cost Resi-
dential Developments**

Formation of the Public Works Emergency Housing Corporation, incorporated in Delaware, as an adjunct to the Public Works Administration, has been announced. All of the stock will be owned by or held for the United States Government and the corporation will be an executive arm of the PWA.

The incorporators are Administrator Ickes, Secretary of Labor Frances Perkins and Robt. D. Kohn director of the housing division of the public works administration.

The purposes of the corporation, as set forth in the certificate of incorporation, are "to construct, reconstruct, alteration and repair of, low-cost housing projects or slum-clearance projects, apartments, houses, homes, and structures of every nature and kind."

Under the provisions of the national recovery act, this corporation, as an agency of the P. W. A. has power to acquire by purchase or by the exercise of the power of eminent domain any property necessary in connection with the projects undertaken by it subject to the approval of the administration.

The corporation will engage in low-cost housing and slum-clearance projects which otherwise would not be undertaken. It will lend every assistance to states, municipalities and public housing authorities in the development of worthy projects and it may finance projects outright as a demonstration to the country of what can be done.

While the corporation will be empowered to do anything that a private contractor or builder can do, the policy of the public works administration, as repeatedly stated by Administrator Ickes, is not to interfere with or enter into competition against legitimate private businesses, but supplement and stimulate these businesses in a field of vital social importance.

The corporation is set up under

days. The following bond proposals were defeated:

Red Mountain Power Plant and S. F. Distribut- ing System.....	\$6,308,000
Yacht Harbor	815,000
Boulevards & Streets.....	2,100,000
Municipal Warehouse.....	325,000
Aquatic Park	715,000
Agriculture Bldgs.	1,250,000
Hall of Justice	2,900,000
Muny. Railway Exten.....	63,000

35-HOUR WEEK IS ASKED IN STATE CODE

**Minimum Wage Proposals
Stricken From Agreement
Offered by League**

Public hearing of the proposed basic code for the state construction industry in San Francisco Monday indicated that an agreement of various interests in the industry and the allied professions would be reached at an early date. The code offered is one sponsored by the Construction League of California.

The hearing yesterday is to be followed by hearings in the near future at Los Angeles and Sacramento, Deputy Commissioner A. Michel announced.

Prior to the hearing of the code yesterday the sponsors offered amendments to the original proposal eliminating minimum wage provisions from the basic code and changing the recommended work week from 40 hours to 35 hours. Labor organizations declared at the hearing, however, that they would insist upon adoption of the six-hour day, five-day week. Representatives of employers' associations and labor groups are to hold a conference this week in an effort to reach a compromise agreement to be reported to the commissioner on Thursday.

Code control and administration provisions also are to be re-written in conformity with the new standard regulations for these sections of all state codes which were issued yesterday by the Corporation Commission.

the national recovery act as a means of facilitating the housing and slum-clearance program as planned by the housing division of the public works administration.

The corporation has broad powers to engage in a general construction business, to finance and aid in financing low-cost housing and slum-clearance, to perform engineering and architectural work, and to conduct and carry on the business of builders and contractors.

In addition to buildings, the corporation has power to locate, lay out, construct, and maintain roads, avenues, parks, playgrounds, recreational facilities, sewers, bridges, walls, utilities, and incidental improvements in connection with housing projects.

The corporation may equip, furnish, operate, manage, and maintain homes and buildings of every nature.

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BIDS CALLED ON FIVE STATE HIGHWAY JOBS

Three Northern California Con- tracts Advertised by Commission

SACRAMENTO, Cal., Nov. 7.—Bids are to be received November 29 on five highway construction contracts, three of them in the northern section of the state, one in Kern county and one in Los Angeles county.

The State Highway Commission this afternoon released the following for advertisement:

SANTA CRUZ COUNTY: 0.6 mi. in Santa Cruz between the north city limits and Ocean street to be graded and surfaced.

LAKE COUNTY: 4.6 miles to be graded and surfaced with crusher run base and bituminous treated crushed gravel or stone between Middletown and Putah Creek.

SOLANO COUNTY: 3.3 miles between 4.2 miles north of Fairfield and 0.6 mile south of Vacaville, to be graded and paved with asphalt concrete.

KERN COUNTY: Six timber bridges to be constructed.

LOS ANGELES COUNTY: 3.5 miles between Olive View and Tunnel station in Los Angeles to be graded and paved with portland cement concrete.

Bureau of Contract Information Urges Bidders to File Statements

The Bureau of Contract Information, Inc., Washington, D. C., has sent the following memorandum to contracting concerns bidding on public works and to state engineers and regional inspectors for the Federal Emergency Administration of Public Works:

The importance of information, including the performance of construction contracts, status of contracts on hand, and financial statements filed with the Bureau can only be measured in value, to the concern filing the information, by its completeness at the time of its disclosure to those who are legitimately entitled to it by reason of the award of construction contracts the writing of surety bonds, or the extension of credit.

The disclosure of a record that is not up-to-date is not fair to the concern itself. It may indicate to those above mentioned, a lack of consideration by the concern of the importance of rendering a report that should reflect its true condition at the time of rendering it. Therefore, the Bureau is desirous of being in a position to fully cooperate in the interest of all responsible contracting concerns.

In a report recently prepared for the benefit of, and distributed to, all who will be responsible for the

award of construction contracts under the Public Works Program the following appears:

"The Bureau has established a nation-wide interchange of information between those awarding public and private construction contracts, those writing surety bonds, financial institutions, and all interests extending credit to the industry. Through this interchange of information, the Bureau has received the following:

"FIRST: Fifteen hundred and thirty-nine (1539) individual reports showing defaults, bankruptcies, complaints regarding non-payment of bills for labor and materials, suits filed and general unfavorable information on seven hundred and twenty-six (726) individual contracting concerns throughout the United States.

"These notices disclosed eight hundred and twenty-two (822) defaults on individual construction contracts, composed of three hundred and thirty-seven (337) in building construction and four hundred and eighty-five (485) in engineering construction.

"SECOND: Eighty-three per cent (83%) of the total concerns on whom unfavorable information was reported were contracting concerns who had failed to, voluntarily or upon request, file their Performance Records with the Bureau.

"THIRD: More than seventy-eight per cent (78%) of all defaults during 1931 and 1932, on construction contracts for building and engineering construction by the federal government and on highway construction by all of the state highway departments throughout the United States, were by contractors who had failed to file their Performance Records with the Bureau.

"FOURTH: From the organization of the Bureau late in 1929 to the end of 1932, seven hundred and sixty-nine (769) individual construction projects were awarded to other than low bidders through the determination and disclosure of lack of qualification, including irresponsibility, by the Bureau to those responsible for the award of contracts.

"The above emphasizes the importance of thoroughly checking the qualifications, including responsibility, of all contracting concerns bidding on construction work, and in this the services of the Bureau are available."

It is unnecessary to say that the disclosure of the above figures to those who will be responsible for the award of construction contracts has impressed upon them the necessity for greater consideration of the qualifications of contractors, and especially those who fail to file their records with the Bureau.

National Building Wage Chart Completed by Chicago Association

The 1933 national wage chart, as published annually by E. M. Craig, Secretary of the Builders' Association of Chicago, and which shows hourly wages paid to all types of building mechanics in 125 principal cities of the United States and Canada, is now off the press.

Comparisons of several of the larger cities follow:

BALTIMORE: Most building trades' wages have been adjusted 10 to 25 per cent under the 1932 figure.

BOSTON: Asbestos workers reduced from \$1.50 to \$1.25; electrical workers, \$1.50 to \$1.25; plasterers, \$1.62½ to \$1.37½; roofers, \$1.37½ to \$1.17½.

CHICAGO: Bricklayers and fire-proof bricklayers were advanced from \$1.37½ to \$1.50. Painters' rate on new work remains at \$1.42, but a differential rate of one dollar an hour is in effect for old work.

CINCINNATI: Bricklayers reduced from \$1.37½ to \$1.25.

DETROIT: Asbestos workers reduced from \$1.25 to 90 cents; electrical workers \$1.40 to \$1.00. Most trades working open shop.

LOS ANGELES: Bricklayers \$1 in 1933 and 87½ cents in 1932. In

many trades 1933 wages are higher than 1932 rates.

NEW YORK: Electrical workers current rate is \$1.40 as against \$1.65 in 1932 common laborers 82½ cents as against 93¼ cents.

PITTSBURGH: No change from 1932.

Elizabeth, N. J. Apparently are paying the highest building rates. Hoisting engineers are listed at \$2.25 an hour; iron workers at \$2 and bricklayers, cement finishers, marble setters and plasterers at \$1.68¾. Same wage in effect in 1932.

Richmond, Va., are perhaps paying the lowest scale. With the exception of the bricklayers and marble-setters who are granted more than one dollar an hour, all other trades are receiving between 40 cents and one dollar. Fearful that the N. R. A. will reduce building trades rates after the adoption of a national code, several cities refuse to be quoted. Due to chaotic building conditions, lower rates than the established ones given are being paid in any number of cities, Craig reports.

Copies of the wage chart are obtainable by addressing the Builders' Association of Chicago, Builders' Building, Chicago.

PERMITS AND CONTRACTS

SAN FRANCISCO COUNTY

807 Binet	Owner	5000
808 Rothchild	Owner	5000
809 Scullion	Hurley	2000
810 General	Cahill	15000
811 Tiscornia	Both	1800
812 Hallgren	Owner	3500

DWELLING

(807) W 22nd AVE. 162 N Wawona; one-story and basement frame dwelling.
Owner—J. J. Binet, 160 Manor Drive.
Architect—D. E. Jaekle, 714 Call Bldg. \$4000

STORE

(808) NE CHESTNUT and Mallorca; one-story Class C store building.
Owner—Rothschild Bros., 41 Sutter.
Architect—Not Given. \$5000

ALTERATIONS

(809) NO. 805 YORK ST. Alter dwelling.
Owner—Mr. and Mrs. C. Scullion, 805 York St., San Francisco.
Architect—Not Given.
Contractor—P. J. Hurley, 7676 Hayes St., San Francisco. \$2000

BREWERY

(810) SE CARROLL AND NEW-hall Sts. Class A brewery.
Owner—General Brewing Corp., 369 Pine St., San Francisco.
Architect—F. W. Meyer, 525 Market St., San Francisco.
Engineer—C. H. Snyder, 251 Kearny St., San Francisco.
Contractor—Cahill Bros., 206 Sansome St., San Francisco. \$15,000

ALTERATIONS

(812) 1645 PACIFIC; alter garage.
Owner—A. A. Tiscornia, 436 Kearny.
Engineer—E. N. Green, 55 New Montgomery Street.
Contractor—John E. Both. \$1800

(812) E TWENTY-FIRST AVE. 50 N Judah St. One-story and basement frame dwelling.
Owner—A. Hallgren, 1594 29th Ave., San Francisco.
Architect—F. F. Amandes, 1879 18th Ave., San Francisco. \$3500

ALAMEDA COUNTY

486 Powell	Bardwell	2000
487 Nucleus	Owner	2000
488 Anthony	Bradhoff	2300
489 Kennedy	Peterson	4977
490 Ross	Franzen	2599
491 Seiple	Knight	6500
492 Reimingham	Owner	4000

ALTERATIONS

(486) 412 EAST 19th ST., OAKLAND
Alterations to apartments.
Owner—H. E. Powell, 1906 Park Blvd., Oakland.
Architect—Not Given.
Contractor—C. E. Bardwell, Jr., 4217 Balfour Ave., Oakland. \$2990

ADDITIONS

(487) 2618 DURANT, BERKELEY; additions.
Owner and Builder—Nucleus Bldg. & Loan Assn., San Jose.
Architect—Not Given. \$2000

DWELLING

(488) NO. 1012 CRAGMONT AVE., BERKELEY. One-story three-room frame dwelling and garage.
Owner—A. Gertrude Anthony, 1010 Cragmont Ave., Berkeley.

Architect—J. H. Thomas, 31 Norwood Ave., Berkeley.
Contractor—C. O. Bradhoff, 911 55th St., Oakland. \$2300

DWELLING

(489) N SCARBOROUGH DRIVE 250 W Chelton Drive, OAKLAND. 2-story 5-room dwelling.
Owner—A. Kennedy, 163 Ricardo Ave., Piedmont.
Architect—Miller & Warnecke, Financial Center Bldg., Oakland.
Contractor—Wallace A. Peterson, 7127 Weld St., Oakland. \$4977

DWELLING

(490) 9927 HOLLY ST., OAKLAND; one-story 5-room dwelling.
Owner—Harry C. Ross, 1425 100th Ave. Oakland.
Architect—Not Given.
Contractor—C. H. Franzen, 883 54th St., Oakland. \$2590

DWELLING

(491) NO. 1784 LEIMERT BLVD., OAKLAND. Two-story 7-room dwelling.
Owner—R. H. Seiple.
Architect—F. H. Slocombe, Monte Cresta Ave., Oakland.
Contractor—Harry C. Knight, 1435 Harrison St., Oakland. \$6500

DWELLING

(492) NO. 949 EUCLID AVE., BERKELEY. Two-story 6-room frame dwelling.
Owner—B. Reimingham, 622 Santa Fe Fe Ave., Berkeley.
Architect—Not Given. \$4000

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

168 Tufo	Carlson	1700
169 Reeca	De Lege	175

ALTERATIONS

(168) NO. 471-473-475 FILBERT ST. All work for alterations and additions to 3-story frame (2) flats.
Owner—Filomina Tufo.
Architect—W. H. Armitage, 3560 California St., San Francisco.
Contractor—Hugo Carlson, 4341 17th St., San Francisco.

Filed Nov. 6, '33. Dated Nov. 4, '33.
Building levelled up and 1st story of rear porch up.....\$300
Brown coated 400
When completed 300
Usual 35 days after promissory note for \$700 payable in monthly installment on the first of each month in the sum of \$25 with 6% interest per annum.....
TOTAL COST, \$1700
Bond, limit, forfeit, none. Plans only filed.

PAINTING

(169) 435-37-39 CHERRY ST.; painting.
Owner—Blase and Pauline Reeca.
Architect—Not Given.
Contractor—Conrad De Lege, 1423 Octavia Street.
Filed Nov. 8, '33. Dated Oct. 25, '33.
First coat is place.....33 1/2 %
Work completed 41 3/4 %
After completion 25 %
TOTAL COST, \$175.00
Limit, 30 days.

ALAMEDA COUNTY

66 Capital	Stein	1938
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ALTERATIONS

(66) NO. 1590 ALICE ST., Oakland.

All work for renovating apartment house.

Owner—Capital Co., 625 Market St., San Francisco.
Architect—Not Given.
Contractor—L. Wm. Stein, 2318 9th Ave., Oakland.
Filed Nov. 3, '33. Dated Sept. 12, '33. 10 days after acceptance.....\$1932
TOTAL COST, \$1938
Bond, \$960; Surety, Fidelity & Deposit Co. Limit, Nov. 1, 1933. Forfeit, none. Plans and specifications, none.

SAN FRANCISCO UNDER \$1000

STUCCO store, \$25; 451 Union St.; owner, F. Calegari, 463 Union St.

ALTER dwelling, \$300; 479 Buena Vista Ave.; owner, M. Barkida, Premises.

SIGN, wood and metal, \$25; 72 Embarcadero; owner, Golden Tavern. Premises; contractor, Jay's Sign Studio, 3560 San Bruno Ave.

FLUES (2) patent, \$56.50; 321-323 Mississippi; owner, Mrs. A. Vizzani, 1708 20th St.; contractor, New Mission Sheet Metal Works, 3401 Mission St.

ALTER store, \$200; 1007 Taraval St.; owner, W. F. Burbank, Plaza Hotel.

FLUES (5), patent, \$505; W San Alejo 107 S Darien Way; owner, H. Issac, 1738 Page St.; contractor, New Mission Sheet Metal Works, 3401 Mission St.

ALTER storage bldg., \$900; S Francisco 100 W Powell; owner, Bauer, Schwetger, 660 Sacramento; contractor, Mission Conc. Const. Co., 272 Turk St.

BILLBOARD, \$12.50; SW Bayshore Blvd. and Silver Ave.; owner and builder, Foster & Kleiser, 1675 Eddy Street.

ALTER store, \$175; 2404 Clement St.; owner, Mr. Gauvet, 2404 Clement; contractor, J. B. Bourdieu, 2625 20th.

BARBER pole, \$20; 1943 Divisadero; owner, Hendricksen, 1943 Divisadero; contractor, Atlas Elec. and Engr. Corp., 343 Fourth St.

ALTER store, \$250; 1699 Post Street; owner, F. Murai, 1747 Post Street; contractor, S. Handa, 1773 Post.

ALTER store, \$250; 837 Howard St.; owner, E. H. Dettner, 835 Howard.

MOVE electric sign, \$25; 7 Oak St.; owner, Roosevelt Tavern, 7 Oak; contractor, Laib, 7th and Folsom.

BILLBOARD, \$12.50; SE Bayshore & Le Conte; owner, Foster & Kleiser, 1675 Eddy St.

SIGN, electric, \$200; 182 S Van Ness; owner, Code & Higgins, 182 South Van Ness; contractor, Elec. Prod. Corp., 255 Golden Gate Ave.

ALTER dwelling, \$250; 20 Card Alley; owner, A. Sivori, 20 Card Alley; contractor, G. B. De Lucchi, 4 Sharp Place.

CHIMNEYS, 2 patent, \$30; 1321 Shrader; owner, Mr. Maede, 1321 Shrader St.; contractor, Ralph Bell.

SIGN, electric, \$150; 1101 Post Street; owner, S. F. Acceptance Co., 1101 Post St.; contractor, Elec. Prod. Corp., 1101 Post St.

SIGN, electric, \$100; 547 Pacific St.; owner, Dianna's, 547 Pacific; contractor, Laib, 7th and Folsom.

SIGN, electric, \$100; 1201 Geneva Ave.; owner, Picetti's Pharmacy, 1201 Geneva; contractor, Elec. Prod. Corp., 255 Golden Gate Ave.

2992 2400 Lombard St.; owner, The Castle; contractor, Atlas Electric & Engr. Corp.; sign.

BUILDING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

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|---------------------------------|---|
| 1.—Apartments | Offices |
| 2.—Bands | 11.—Ice and Cold Storage Plants |
| 3.—Churches | 12.—Power Plants |
| 4.—Factories and Warehouses | 13.—Public Buildings, Fire Houses and Jails |
| 5.—Flats | 14.—Residences |
| 6.—Garages and Service Stations | 15.—Schools |
| 7.—Federal Buildings | 16.—Banks, Stores and |
| 8.—Club Buildings | 17.—Theatres |
| 9.—Hospitals | 18.—Wharves & Docks |
| 10.—Hotels | 19.—Misc. Const. |
| | 20.—Misc. Supplies & Materials |

1—APARTMENTS

Contract Awarded.
ALTERATIONS Cost, \$2000
OAKLAND, Alameda Co., Cal. E. Nineteenth Street.
 Alterations to apartments.
 Owner—H. E. Powell, 1906 Park Blvd., Oakland.
 Architect—Not Given.
 Contractor—C. E. Bardwell Jr., 4217 Balfour Ave., Oakland.

Contract Awarded.
REPAIR APTS. Cost, \$1938
OAKLAND, Alameda Co., Calif. 1590 Alice Street.
 Repairs to apartments.
 Owner—Capital Co., 625 Market St., San Francisco.
 Plans by Engr. Dept. of Owner.
 Contractor—L. W. Stein, 2318 9th Ave. Oakland.

SANTA CRUZ, Santa Cruz Co., Cal.—Izant & Wilson, Santa Cruz, at approximately \$15,000 awarded contract to install heating system in the Esplanade Apts., Santa Cruz. Boilers and 75 separate radiators will be installed and 5,000 ft. of pipe is involved.

2—BONDS

PASADENA, Cal.—Pasadena board of education has taken final action to submit to the voters of Pasadena on Nov. 24, a bond issue of \$1,850,000 for the purpose of strengthening of school buildings to make them conform to state requirements of earthquake resistance. The building that are to be repaired are: Pasadena Junior College \$599,000; Washington Jr. High, \$200,000; McKinley high school, \$24,000; Marshall Jr. High, \$35,000; Jas. Madison elementary, \$107,000; Thos. Jefferson elementary, \$65,000; Andrew Jackson elementary, \$112,000; Henry Longfellow, \$108,000; San Rafael, \$20,000; Grover Cleveland, \$35,000; J. A. Garfield, \$100,000; Altadena elementary, \$100,000; Eliot & Wilson junior high schools.

LOS ANGELES, Cal.—Until 2 P. M., November 27, bids will be received by Los Angeles County Supervisors for the sale of Los Angeles City School bonds in the amount of \$3,243,000 and Los Angeles City High School bonds in the amount of \$3,565,000. Mame B. Beatty, 501 Hall of Records, Clerk of the Board.

3—CHURCHES

LONG BEACH, Los Angeles Co., Cal.—Architects Soule & Murphy, 116 Sola St., Santa Barbara, completed plans for rebuilding a church building at the corner of Atlantic Avenue and Seventh St., Long Beach, for St. Luke's Episcopal Church; Rev. Perry G. M. Austin, rector. Auditorium will be built first and the remainder of the structure will be built later. Parish hall will be reconstructed to conform to other buildings. Frame and stucco construction, shingle roofing, gas heating. Cost, \$40,000.

To Ask Bids November 16.
CRURCH Cost, \$—
CRESCENT CITY, Del Norte Co., Cal. One-story reinforced concrete church (to seat 275).
 Owner — Roman Catholic Archbishop (Father Nolan, Pastor), Crescent City.
 Architect — Harry Devine, California State Life Bldg., Sacramento.

4—FACTORIES & WAREHOUSES

CORONA, Riverside Co., Cal.—Carrier Engr. Corp. of Calif., 748 E Washington Blvd., Los Angeles, is preparing plans for three new compressor units to be installed in the plant of the Corona Foothill Lemon Company at Corona. Equipment will be installed by the Carrier Corp. The basement ceiling and a portion of the walls will be insulated and a new machine room 30x32 ft. in area, will be constructed, this work to be handled by the owner. Cost, \$35,000.

Contract Awarded.
BAKERY Cost, \$50,000
 incl'g equipment
FRESNO, Fresno Co., Calif. Merced and 7 Streets.
 One-story brick bakery (50x150).
 Owner—Golden State - Athens Baking Company.
 Architect—Not Given.
 Contractor—Roy Martin, Olive Street, Fresno.
 As previously reported, San Francisco Oven Co., 1652 21st Avenue, San Francisco, awarded contract to furnish and install 3 continuous ovens. (2900) 1st report Oct. 25, 1933. 4

Preparing Plans.
WAREHOUSE Cost, \$9000
VALLEJO, Solano Co., Calif. Pennsylvania and El Dorado Sts.
 Construct new warehouse (garage, meter testing plant and storage unit).
 Owner—Vallejo Elec. Light & Power Co., Vallejo.
 Plans by Engr. Department of Owner.

Contracts Awarded.
BREW HOUSE Cost, \$100,000
STOCKTON, San Joaquin Co., Calif. 626 N American St.
 Four- or five- story brick and steel brew house (40 feet square, 90 ft. in height).
 Owner—Eldorado Brewing Co. (A. D. Rothenhush), 626 N American St., Stockton.
 Designer—C. M. Fraenkel, industrial economist, 461 Market Street, San Francisco.
Reinforcing Steel—Smith Co., Sacramento.
Tile—Porstelain Tile Co., 66 12th St., San Francisco.

Electric—Ingersoll Transitall Elec. Mfg. Co., 200 Van Ness Ave., So. San Francisco.
 As previously reported, structural steel awarded to J. J. O'Brien Iron Works, 1247 H Street N. S., San Francisco.
 Other award will be made shortly.

Bids Opened.
MAINTENANCE STA., ETC. \$—
SAN RAFAEL, Marin Co., Cal. I. I. N. S. S. S. S.
 Maintenance Station (work involves truck shelter, 20x80, combination wood shed and garage, gasoline and oil house, 100 ft. tank and leaching field, loading platform, station sign, electric distributing system water and sewer connections).
 Owner—State of California.
 Plans by Dept. of Public Works, State Bldg., San Francisco.

Low Bidder—A. H. Steiner, 431 San Anselmo Ave., San Anselmo.
 Excavation, concrete, masonry, carpentry, mill work, sheet metal, steel sash, painting, lighting, plumbing and electrical installations included.
 Following bids received:
 (1) J. J. Doyle, (2) excavation, per cu. yd.; (3) Portland cement concrete, per cu. yd.
 A. H. Steiner, San Anselmo
 (1) \$6137.00
 (2) 1.65
 (3) 9.25
 T. J. Doyle, S. F. (1) \$6877.00
 (2) 1.20
 (3) 16.00
 San Francisco Constr. Co., San Francisco (1) \$6991.00
 (2) 1.50
 (3) 13.50
 Bids held under advisement.

Sub-Contracts Awarded.
ADDITION Cost, \$9500
EMERYVILLE, Alameda Co., Calif. 63d and Green Streets.
 One-story roof and concrete addition to plant (670 sq. ft.).
 Owner—Western Waxed Paper Co., premises.
 Plans by Engr. Department of Owner.
 Contractor—A. T. Beckett, 224 Scenic Ave., Piedmont.
Lumber—Smith Lbr. Co. of Oakland, 11th Ave. at E-tuary, Oakland.
Concrete—Nat'lona, 1174 19th Street, Oakland.
Steel—Herrick Iron Works, 18th and Campbell Sts., Oakland.

Completing Plans.
BREWERY Cost, \$250,000
SAN FRANCISCO, Tenth and Bryant Streets.
 Stock house, bottling house and enlarging of present brewery (Class A steel, concrete and brick construction).
 Owner—Milwaukee Brewing Co., 490 Tenth Street.
 Engineer—W. E. Murray, 908 Hayes.
 Foundation bids will be taken in 10 days, steel in about three weeks and structures in about five weeks.

Plans Being Completed.
SHOP & RESTAURANT Cost, \$8000
GENERAL GRANT National Park, Tiburo Co., Calif.
 One-story wood frame and stone machine shop and supt. residence.
 Owner—United States Government.
 Plans by Engr. Dept. of U. S. Park Service, 525 Market St., San Francisco.
 Bid will be taken by the Superintendent at General Grant Park.

COCO SOLO, Canal Zone.—Date of opening bids has been extended by the Bureau of Yards and Docks, Navy Department, Washington, D. C., on Nov. 22 in connection with the construction of a hangar of structural steel framing supported by concrete footings on wood piles and having steel windows and doors, insulated steel roof deck with built-up roofing, corrugated asbestos siding, and electrical work; and pavement and storm drains, all at the Naval Fleet Air Base, Coco Solo, C. Z. Spec. No. 7351.

A new date will be set shortly Following have procured plans:

Wm. Macdonald Const. Co., Saint Louis, Mo.

H. H. Robertson Co., 2000 Grant Bldg., Pittsburgh, Pa.

McClintic - Marshall Corp., Conrad Bldg., 25 Broadway, New York City.

Detroit Steel Products Co., 712 Barr Bldg., Washington, D. C.

Construction Supplies Co., 500 Fifth Ave., New York City.

J. S. Thorne Co., 20th and Allegheny Ave., Philadelphia.

Virginia Bridge and Iron Works, Drawer 2201, Roanoke, Va.

Sigfried-Olson Shipping Co., Robert Dollar Bldg., San Francisco.

Hartenstein - Zane Co., Inc., 225 Broadway, New York City.

North American Const. Co., 1252 Windsor Place, Jacksonville, Fla.

Truscon Steel Co., Investment Bldg. Washington, D. C.

General Elec. Co., Schenectady, N. Y.

Philip-Carey Co., Lockland, Cincinnati, Ohio.

R. J. Dorn Co., New Orleans, La.

Nashville Bridge Co., Nashville, Tennessee.

Westinghouse Electric & Mfg. Co., Washington, D. C.

Lehigh Structural Steel Co., 17 Battery Place, New York City.

Graybar Electric Co., 420 Lexington Ave., New York City.

Bethlehem Fabricators, Bethlehem, Pennsylvania.

Belmont Iron Works, 2215 Washington Ave., Philadelphia.

Plans Being Figured.

ADDITION Cost, \$—
LOS ANGELES, Calif. 1920 N. Main Street.

One-story Class C addition to warehouse (65x119), composition roof, cement floors, steel doors, structural steel, steel canopy, etc.

Owner—Los Angeles Brewing Co., 1920 Main St.

Architect—L. A. Parker, Architects' Bldg., Los Angeles.

Conveying and bottling machinery to be installed have been purchased.

Preparing Preliminary Sketches.

WAREHOUSE Cost, \$9000
VALLEJO, Solano Co., Cal. Pennsylvania and El Dorado Sts.

Construct new warehouse (garage, meter testing plant and storage unit).

Owner—Vallejo Electric Light & Power Company.

Architect—To Be Selected.

Preliminary sketches are being made in the engineering dept of owner

Contract Awarded.

ADDITION Cost, \$800,000
OLEUM, Contra Costa Co., Cal.

Addition to lubricating plant.

Owner—Union Oil Co., Mills Bldg., San Francisco.

Plans by Engineering Dept. of Owner.

Contractor—Fluor Corp., 909 E. 59th St., Los Angeles.

As previously reported, a contract awarded to C. C. Moore & Co., 450 Mission St., San Francisco; stills to Consolidated Steel Corp., Balboa Bldg.

S. F.; grading to U. B. Lee, 1059 Carpenter St., San Leandro; tanks to Berkeley Constr. Co., Second and Camelia Sts., Berkeley.

Roy Heise, Oleum is in charge of construction.

SAN FRANCISCO—City of San Francisco defeated \$325,000 bond issue at election held Nov. 7 which was to have financed the addition to the present municipal warehouse, building of a repair shop and garages.

Contract Awarded.

FACTORY Cost, \$—
OAKLAND, Alameda Co., Cal. No. 3098 E-Tenth Street.

Rebuilding manufacturing plant recently destroyed by fire.

Owner—B. W. Norton Manufacturing Co., 3098 E-10th St., Oakland.

Architect—Not given.

Contractor—A. T. Beckett, 224 Scenic Ave., Piedmont.

5—FLATS

Contract Awarded.

FLATS Cost, \$1700
SAN FRANCISCO, S Filbert Street, bet. Grant Ave. and Kearny St.

Two-story and basement frame and stucco flats (2 4-room flats).

Owner—Mrs. F. Tufo, 473 Filbert St., San Francisco.

Architect—W. H. Armitage, 3560 California Street.

Contractor—Hugo Carlson, 4341 17th St., San Francisco.

6—GARAGES & SERVICE STATIONS

Planned.

SERVICE STATION Cost, \$2500
YUBA CITY, Sutter Co., Cal. Plumas St. and Teegarden Ave.

Modern service station.

Owner—J. R. Hudson, Yuba City.

Architect—Not Given.

Contract Awarded.

ALTER GARAGE Cost, \$1800
SAN FRANCISCO, No. 1645 Pacific Avenue.

Alterations to garage.

Owner—A. A. Tiscornia, 436 Kearny St., San Francisco.

Engineer—N. Green, 55 New Montgomery St., San Francisco.

Contractor—John E. Both, % Owner.

7—FEDERAL BUILDING

November 9, 1933

SUB-CONTRACTS AWARDED
HAMILTON FIELD, Marin Co., Cal.

—K. E. Parker Co., 135 South Park St., San Francisco, awarded the following sub-contracts for construction of three 200-man barracks at Hamilton Field. Cost, \$452,900.

Excavation—Arris-Knapp, 961 41st St. Oakland.

Concrete Aggregates—Basalt Rock Co. Napa.

Reinforcing Steel—Soule Steel Co. 1750 Army St., San Francisco.

Lumber—J. H. McCallum, 748 Bryant St., San Francisco.

Plumbing—J. A. Fazio, 402 Castro St., Oakland.

Heating—Frank J. Edwards, 2401 9th Ave., Oakland.

Roofing—W. J. Anderson, 3825 Army St., San Francisco.

Screens & Sheet Metal—Forderer Cornice Works, 269 Potrero Ave., San Francisco.

(2765) 1st report Oct. 4; 3rd, Oct. 24, 1933.

HAMILTON FIELD, Marin Co., Cal.
—San Francisco Const. Co., 3159 Fillmore St., San Francisco, at \$28,331

awarded contract by the Constructing Quartermaster, Hamilton Field, to construct one-story concrete maintenance building and one-story quartermaster salvage warehouse at Hamilton Field Complete bids published November 1.

SAN DIEGO, Cal.—Southwest Onyx & Marble Co., foot of Crosby St., San Diego, submitted low bid to Eleventh Naval District at \$460 for repairs to shower enclosures at 11th Naval District (Hospital), San Diego; Spec. No. 7150. Expo. Stucco & Art Marble Co. submitted only other bid at \$484.

SUNNYVALE, Santa Clara Co., Cal.
—William Spivock, Hobart Bldg., San Francisco, at \$12,690 submitted low bid to Twelfth Naval District, San Francisco, for service and housing facilities for flood lights for landing fields at the Naval Air Station, Sunnyvale; Spec. No. 7250. Work includes two two-story structures with concrete foundations, frame super-structures, including steel, iron, and bronze work, sheet metal work, stucco built-up roofing, plastering, aluminum rolling doors, carpentry and joinery, electrical work and installation of flood lights and their appliances and finishing. Following bids received:
Wm. Spivock, S. F. \$12,690
San Francisco Constr. Co., S. F. 12,797
Baldwin & Butler, Oakland, 12,987
Fred J. Early Jr., S. F. 13,270
H. C. Miller, Santa Clara, 13,400
Theo. Johanns, S. F. 14,000

Preparing Plans.

BUILDING Cost, \$117,990
YOSEMITE VALLEY, Merced Co.

Group of utility buildings.

Owner—United States Government. (National Park Division).

Plans by Engineering Dept. of Park Service (E. M. Hilton, Park Engr.)

PEARL HARBOR, T. H.—Following have procured plans for the purpose of submitting bids to the Bureau of Yards and Docks, Navy Department on November 29, for the construction of facilities building at the Navy Yard, Pearl Harbor. Spec. 7074:
Blake-Palm Elevator Co., Washington, D. C.

Yale & Towne Mfg. Co., Stanford, Conn.

Tucker McClure, P. O. Box 5035 Christobal, C. Z.

Shaw Box Crane & Hoist Co., Inc., Muskegan, Mich.

Truscon Steel Co., Washington, D. C.

PEARL HARBOR, T. H.—Following are additional contractors who have procured plans for the purpose of submitting bids to the Bureau of Yards and Docks, Navy Department, Washington, D. C., on December 6 for the landscaping at the Ammunition Depot, Pearl Harbor. Spec. No. 7334:
Munz Spralawn Corp., 18706 Woodward Ave., Detroit, Mich.

W. P. Thurston & Co., Richmond, Virginia.

MONTEBELLO, Los Angeles Co., Cal.—Architects A. R. Walker and P. A. Eisen, Ltd., 708 Pacific Commerce Bldg., 437 S. Hill St., Los Angeles, are completing plans for the United States Post Office building to be erected in Montebello. The appropriation for the structure is \$76,500.

HAMILTON FIELD, Marin Co., Cal.
—Frank J. Reilly, 6350 Fulton Street, San Francisco, awarded contract by Constructing Quartermaster, Hamilton Field, to construct six double sets of non-commissioned officers type "C" quarters and fourteen double sets of non-commissioned officers' quarters, type "D" at Hamilton Field. Reilly's bid was \$268,731.

FORT STANTON, New Mexico.—Following are additional contractors who have procured plans for the purpose of submitting bids to the Treasury Department, Washington, D. C., on November 20, for the construction of hospital buildings, including nurses' quarters, double houses for medical officers, power plant and laundry at the U. S. Marine Hospital, Fort Stanton, New Mexico:

McCarthy Bros. Constr. Co., Roosevelt Bldg., St. Louis.

Perry Fireproofing Co., Inc., 2440 Indiana Ave., Chicago.

W. S. Bellows Constr. Co., Oklahoma Savings Bank, Oklahoma City, Okla.

Ramey Bros., Mills Bldg., El Paso, Texas.

W. F. Jackson Const. Co., Inc., Denrike Bldg., Washington, D. C.

Therault Contracting Co., 534 East Johnson St., Philadelphia.

J. A. Moraw & Owens Co., 144 West 47th St., Chicago.

Blauner Const. Co., 189 W Madison St., Chicago.

Sill Const. Co., 520 N Michigan Ave. Chicago.

M. M. Sundt Const. Co., P. O. Box 266 Las Vegas, New Mexico.

Dickle Const. Co., Louderman Bldg., St. Louis, Mo.

G. N. Amis, 112 Kentucky St., Roswell, New Mexico.

Geo. A. Nordgren Co., 189 W Madison St., Chicago.

Ring Const. Co., Wesley Temple Bldg., Minneapolis, Minn.

Atlas Const. Co., 817 N 9th St., St. Louis.

Harry B. Friedman, 1407 Sinclair Bldg., Ft. Worth, Texas.

SAN FRANCISCO.—Venor Co., 36 Sacramento St., at \$260.00 submitted low bid to Constructing Quartermaster, Fort Mason, to furnish and lay linoleum in officers' quarters at Fort Mason. Following bids received:

Venor Company	\$260.00
Conklin Bros.	298.13
W. & J. Sloane	300.80
D. N. & E. Walter	314.50
J. E. Higgins Lbr. Co.	325.00

Bids held under advisement.

SAN FRANCISCO.—Complete tabulation of bids received for the five-story, basement and attic Federal Building to be erected in the Civic Center, San Francisco, will be found in unit price section.

SAN DIEGO, Cal.—Milton C. Shedd, 1132 Stearns Dr., Los Angeles, awarded contract by Navy Department at \$2500 for enclosing porches in barracks buildings at the Naval Training Station, San Diego.

HAMILTON FIELD, Marin Co., Cal.—Until Nov. 16, 11 A. M., bids will be received by the Constructing Quartermaster, Hamilton Field, for furnishing and installing linoleum in kitchens and pantries of twelve company officers' quarters at Hamilton Field. Specifications available from above office and may be seen at office of Daily Pacific Builder; Builders' Exchange, 666 Mission St., San Francisco, and at the office of Constructing Quartermaster, Fort Mason, San Francisco.

TUCSON, Arizona.—Until Tuesday, November 21, bids will be received by the Supervising Architect, Treasury Department, Washington, D. C., for painting plaster in the U. S. Post Office at Tucson.

HAMILTON FIELD, Marin Co., Cal.—Construction Quartermaster, Hamilton Field, rejected all bids received Nov. 17 for the construction of three type "A," three type "B" and two type "B-2" company officers' quarters,

including utilities, at Hamilton Field. On bid opening lowest bid was submitted by the San Francisco Constr. Co., San Francisco, at \$111,417 and second low bid by Leo Epp, San Francisco, at \$114,797. Bids were rejected due to lack of sufficient funds.

PEARL HARBOR, T. H.—Following are additional contractors and others who have procured plans for the purpose of submitting bids to U. S. Bureau of Public Roads, Navy Department, Washington, D. C., on Nov. 29 in connection with the electric freight elevator and metal covered hoistway doors at the Naval Submarine Base, Pearl Harbor. Spec. No. 7260:

Otis Elevator Co., 1 Beach St., San Francisco.

American Factors, Matson Building, San Francisco.

Pacific Cast Steel Co., 20th and Illinois Sts., San Francisco.

PEARL HARBOR, T. H.—Following have procured plans for the purpose of submitting bids to the U. S. Bureau of Yards and Docks, Navy Department, Washington, D. C., on Nov. 29, in connection with the construction of an arch type magazine at the Naval Fleet Air Base, Pearl Harbor. Specification No. 7084:

American Factors, Matson Building, San Francisco.

Soule Steel Co., 1750 Army St., San Francisco.

ALHAMBRA, Los Angeles Co., Cal.—Treasury Department, Office of the Supervising Architect, Washington, D. C., will advertise for bids within two weeks for the construction of the new U. S. post office building in Alhambra, according to information from Congressman Hoepfel's secretary in Washington. The building will be a two-story, reinforced concrete structure. The appropriation is \$175,000. John Walker Smart, 39 E Main St., Alhambra, architect.

SANTA FE, New Mexico.—Until Nov. 23, 2 p. m., bids will be received by Treasury Department, Procurement Division, Public Works Branch, Washington, D. C., for cleaning and pointing stone work in the U. S. Courthouse at Santa Fe, New Mexico. Specifications may be obtained from the Custodian at the Building and from above office.

PEARL HARBOR, T. H.—Following additional contractors have procured plans for the purpose of submitting bids to the Bureau of Yards and Docks, Navy Department, Washington, D. C., on November 29 in connection with the construction of facilities building at the Navy Yard, Pearl Harbor. Spec. No. 7074:

American Factors, Matson Bldg., San Francisco.

Grinnell Co. of the Pacific, Fifth and Brannan Sts., San Francisco.

Stuart Mannell Co., Seattle, Wash.

Pacific Coast Steel Co., 20th and Illinois Sts., San Francisco.

E. T. Thurston, Honolulu.

Virginia Bridge & Iron Works, Roanoke, Virginia.

Grinnell Co. of Los Angeles, Los Angeles.

Soule Steel Co., 1750 Army St., San Francisco.

Theo. Johanns, 2020 15th St., San Francisco.

Honolulu Iron Wks, Honolulu, T. H. (889) 1st report March 9; 10th Oct. 17, 1933.

PEARL HARBOR, T. H.—Following are additional contractors who have procured plans for the purpose of submitting bids to the Bureau of Yards and Docks, Navy Department, Washington, D. C., on November 29 in connection with the construction of a

three-story extension to storehouse at the Navy Fleet Air Base, Pearl Harbor. Spec. No. 7085:

American Factors, Matson Bldg., San Francisco.

E. T. Thurston, Honolulu.

Grinnell Co. of Los Angeles, Los Angeles.

Soule Steel Co., 1750 Army St., San Francisco.

Virginia Bridge & Iron Wks., Roanoke, Virginia.

Crane Co., 301 Brannan St., San Francisco.

(640) 1st report Feb 8; 9th Oct. 27, 1933.

PEARL HARBOR, T. H.—Following are additional contractors who have procured plans for the purpose of submitting bids to the Bureau of Yards and Docks, Navy Dept., Washington, D. C., on November 29 in connection with the construction of the general facilities building to cost \$175,000; storehouse to cost \$250,000, and magazine to cost \$13,000. Specification No. 257:

Pacific Coast Steel Co., 20th and Illinois Sts., San Francisco.

American Factors, Matson Bldg., San Francisco.

E. T. Thurston, Honolulu, T. H.

Theo. H. Davies, Matson Bldg., San Francisco.

Honolulu Iron Wks., Honolulu, T. H.

Soule Steel Co., 1750 Army St., San Francisco.

To Ask Bids.
IMPROVE & REPAIRS Cost, \$30,000
VANCOUVER, Wash. Washington Barracks.
Improvements and repairs at Vancouver barracks.

Owner—United States Government.
Plans by Constructing Quartermaster, Vancouver, Wash.

Plans call for roads to cost \$35,100; repairs to buildings to cost \$20,400; additional heating system to cost \$18,000 and a new cola trestle to cost \$6500.

BREMERTON, Wash.—K. E. Parker Co., 135 South Park, San Francisco, awarded roofing contract to Alta Roofing Co., 976 Indiana St., San Francisco, in connection with the construction of the machine and electric shop building at Bremerton, Wash. Specification No. 7338. Other awards reported Oct. 30.

HAMILTON FIELD, Marin Co., Cal.—Meyer Const. Co., 735 Portola Drive, San Francisco, awarded contract by Constructing Quartermaster, Hamilton Field, to construct ten type "A" field officers' quarters, one type "C" company officers' quarters, and five type "D" company officers' quarters and five type "E" officers' quarters, including all utilities, at Hamilton Field. The Meyer Company bid was \$323,230.

HAMILTON FIELD, Marin Co., Cal.—K. E. Parker Co., 135 South Park St., San Francisco, at \$452,900 awarded contract by Constructing Quartermaster, Hamilton Field, to construct three 200-man barracks at Hamilton Field.

SAN FRANCISCO, Calif.—Until Nov. 23, 2 p. m., bids will be received by Treasury Department, Procurement Division, Public Works Branch, Washington, D. C., for furnishing and installing interior lighting fixtures at the U. S. Post Office and Courthouse in San Francisco. Plans and specifications may be obtained from above office.

HAMILTON FIELD, Marin Co., Cal.—Until Nov. 20, 11 a. m., bids will be received by the Constructing Quartermaster, Hamilton Field, to construct officers' mess building at Hamilton Field. Plans and specifications avail-

able from above office upon deposit of \$10.00. A copy of plans and specifications may be seen at the Builders' Exchange, 666 Mission St., San Francisco, or at the office of the Constructing Quartermaster, Fort Mason, San Francisco.

FORT LEWIS, Wash.—Eivind Anderson, Tacoma, at \$145,000 submitted low bid for construction of non-commissioned officers' quarters and McDonald Building Co., Tacoma, at \$351,144 submitted low bid for the construction of officers' quarters to Constructing Quartermaster, Fort Lewis. The buildings to be erected are one field officers' quarters, type "D"; four field officers' quarters; 16 company officers' quarters; two company officers' quarters; two 4-family company officers' apartment houses and twenty non-commissioned officers' quarters, ten type "A" and ten type "B" at Ft. Lewis.

Following bids received:

Non-Commissioned Officers' Quarters

Eivind Anderson, Tacoma.....	\$145,000
.....(1)	7,300
.....(2)	7,200
.....(3)	7,300
.....(4)	7,200
Standard Const. Co., Tacoma.....	\$151,380
.....(1)	7,634
.....(2)	7,502
.....(3)	7,634
.....(4)	7,502
A. S. Hansen Co., Seattle.....	\$154,000
.....(1)	7,700
.....(2)	7,700
.....(3)	7,700
.....(4)	7,700
Peter Hansen, Tacoma.....	\$157,250
.....(1)	7,931
.....(2)	7,794
.....(3)	7,931
.....(4)	7,794
West Coast Const. Co. Seattle.....	\$157,340
.....(1)	7,862
.....(2)	7,400
.....(3)	7,400
.....(4)	7,400
H. J. & D. Soble, Everett.....	\$160,710
.....(1)	8,100
.....(2)	7,971
.....(3)	8,000
.....(4)	7,900
McDonald Bldg. Co., Tacoma.....	\$162,650
.....(1)	7,705
.....(2)	7,760
.....(3)	7,705
.....(4)	7,560
Sheble Const. Co., Seattle.....	\$167,300
.....(1)	8,500
.....(2)	8,400
.....(3)	8,300
.....(4)	8,200
Western Const. Co., Seattle.....	\$168,360
.....(1)	8,589
.....(2)	8,247
.....(3)	8,200
.....(4)	7,800

Bid of Erickson Const. Co., Tacoma, not considered.

Officers' Quarters

McDonald Bldg. Co., Tacoma.....	\$351,144
.....(1)	12,656
Western Const. Co., Seattle.....	\$389,900
.....(1)	14,086
Johnson Bros., Seattle.....	\$400,418
.....(1)	14,827
Sheble Const. Co., Seattle.....	\$402,500
.....(1)	15,000
Eivind Anderson, Tacoma.....	\$403,435
.....(1)	14,344
A. F. Mowatt, Seattle.....	\$411,000
.....(1)	13,500

Bid of Peder Gjarde not considered, being irregular.

Commissioned to Prepare Plans.

POST OFFICE	Cost, \$117,000
ANAHEIM, Orange Co., Cal.	West Broadway.
U. S. post office.	
Owner—United States Government.	
Architect—Frederick H. Eley, Otis Bldg., Santa Ana.	

FORT HUACHUCA, Arizona.—War Department, Office of the Quartermaster General, Washington, D. C., will start the preparation of plans shortly for the following improvements at Ft. Huachuca: Warehouse, \$35,937 (alternate plan contemplates a building to cost \$18,937); fire station, \$5000; coal spur, \$16,606; motor transport pool, \$10,000; hay shed, \$1675; magazine, \$3530; reconditioning roads, fencing, water and sewer system and miscellaneous repairs to buildings and utilities, \$190,000.

KLAMATH FALLS, Ore.—Neuman Bros., McMinnville, Ore., at \$1,425.00 submitted low bid to Treasury Department, Washington, D. C., for painting at the U. S. Post Office at Klamath Falls. Adams Painting Co., Chicago, at \$2,000 submitted second low and Raphael Co., San Francisco, third low at \$2,112. Bids held under advisement.

CHOLLAS HEIGHTS, Calif.—Lacios Contracting Co., 15 Park Row, New York City, at \$5,221 submitted low bid to Bureau of Yards and Docks, Navy Department, Washington, D. C., to paint radio towers at the Naval Radio Station, Chollas Heights. Spec. No. 9391. Second low bid was submitted by Carlson Painting Co., New York City at \$6,214, and third low by Central Contracting Co., Pittsburgh, at \$7,385. Bids held under advisement.

8— CLUB BUILDINGS

Contract Awarded.

CLUB Cost, \$—
CHICO, Butte Co., Cal.
 Native Daughters' Club Bldg.
 Owner—Native Daughters' Club.
 Architect—Raymond Carlson, Chico.
 Contractor—Floyd Hann, 424 E. Sacramento Way, Chico.

Contract Awarded.

CLUBHOUSE Cost, \$16,000
SAN LUIS OBISPO, San Luis Obispo Co., Cal.
 One-story wood frame and stucco clubhouse (tile roof, etc.)
 Owner—Monday Club, 1052 Islary St., San Luis Obispo.
 Architect—Miss Julia Morgan, Merchants' Exchange Bldg., S. F.
 Contractor—James Jepsen, 1331 Pacific St., San Luis Obispo.

9— HOSPITALS

MARYSVILLE, Yuba Co., Calif.—Yuba county supervisors have applied to the Public Works Administration for a loan of \$75,000 and a grant of \$20,145 for financing the construction of buildings at the Yuba county hospital in Marysville. Chas. F. Dean, California State Life Bldg., Sacramento, architect.

Plans Approved.

HOSPITAL Cost, \$242,700
MODESTO, Stanislaus Co., Cal.
 Stanislaus County Hospital.
 Group of hospital units at county hospital (units include, two-story addition to ward, \$50,000; 4-story ward, \$114,000, indigent and tubercular wards, \$58,800, laundry addition, \$5800, etc.)
 Owner—County of Stanislaus.
 Architect—Russell Guerne De Lappe, 177 Florence St., Berkeley.

Sub-Contracts Awarded.

HOSPITAL Cost, \$12,000
SAN MATEO, San Mateo Co., Calif.
 El Camino Real and El Cerrito Avenues.
 Two-story frame and stucco medical building.
 Owner—Dr. Alan Benner, 27 San Mateo Drive, San Mateo.
 Architect—Leo Sharps, 1477 Burlingame Ave., Burlingame.

game Ave., Burlingame.
 Contractor—Lengfeld & Olund, 220 3rd Ave., San Mateo.

Building will contain office, laboratories, a minor operating room, and one or two rooms to take care of emergency patients.

Electric—San Mateo County Elec. Co., San Mateo.

Sheet Metal—G. & M. Sheet Metal Works, San Mateo.

Cement Materials—H. E. Casey Co., San Mateo.

Concrete—M. Camerotto, San Mateo.
Roadway—San Mateo Feed & Fuel Co., San Mateo.

Plastering—Frank Russell, San Mateo.
Tile Roofing—W. J. Anderson, 3825 Army St., San Francisco.

Lumber & Mill Work—Wisnom Lumber Co., San Mateo.

Plumbing and Heating—A. H. Dittmann, Burlingame.

Glass and Glazing—W. P. Fuller and Co., 301 Mission St., San Francisco.

Brick Work—Charles Ohran, Burlingame.

Stairs—E. D. Philbrick, 41 Sheridan St., San Francisco.

Reinforcing Steel—Concrete Engr. Co. 1280 Indiana St., San Francisco.

Painting—A. Petterson, San Mateo.

Rubber Tiling—D. A. Pancoast, 26 O'Farrell St., San Francisco.

Ornamental Iron—San Mateo Forge, San Mateo.

OLYMPIA, Wash.—Spokane Paper & Stationery Co., Spokane, awarded contract by State Purchasing Department to furnish linoleum at the Sedro Wooley and Western State Hospital at Steilacoom.

Planned.

DORMITORY Cost, \$60,000
SALEM, Oregon.

Fireproof dormitory for blind school.
 Owner—State of Oregon (Rufus C. Holman, State Treasurer).
 Architect—Not Given.

November 7, 1933

Planned.

ADDITION Cost, \$—
LIVERMORE, Alameda Co., Cal.

Thirty-room addition to Livermore Veterans' Hospital.
 Owner—United States Government.
 Architect—Not Given.

A request for funds will be made to the federal public works administration. Exact amount not yet determined.

Planned.

HOSPITAL Cost, \$140,000
SANTA ROSA, Sonoma Co., Cal.

Modern hospital (house approximately 200 beds); surgical wards, operating rooms, maternity wards, diet kitchens and staff quarters.
 Owner—County of Sonoma.
 Owner—City of Santa Rosa.

Architect—William Herbert and Clarence Caulkins, Rosenberg Bldg., Santa Rosa.

Financing arrangements are now under way.

Contract Awarded.

CLINIC Cost, \$—
PALO ALTO, Santa Clara Co., Calif.

One-story frame and stucco clinic.
 Owner—Dr. Phillips.

Architect—Birge M. Clark, 310 University Ave., Palo Alto.

Contractor—Wells P. Goodenough, 310 University Ave., Palo Alto.

**13— PUBLIC BUILDINGS
 FIRE HOUSES A JAILS**

SANTA CRUZ, Santa Cruz Co., Cal.—City of Santa Cruz is planning to hold an election to vote for permission to transfer \$10,000 from the water department fund for use in establishing a new fire department building on

the east side of town. Further details will be announced at a later date.

To Ask Bids Within A Few Days.
ALTERATIONS Cost, \$3000
REDWOOD CITY, San Mateo Co.
 Alterations to county courthouse. (Alter reception room, waiting room, etc.)
 Owner—County of San Mateo.
 Architect — Will H. Toepke, 74 New Montgomery St., San Francisco.

HUNTINGTON PARK, Los Angeles Co., Cal.—Until 5 P. M., Nov. 20, bids will be received by Huntington Park city council for construction of an addition to city hall building. Plans by T. W. Pemberton, Jr., 6502 Seville Ave., Huntington Park. Second story will be added; work includes reinforced concrete piers and columns, reinforced concrete and reinforced brick wall construction, wood roof trusses, composition roofing, stucco exterior facing, etc. Cost, \$15,000. Plans may be obtained at office of the city clerk.

PORTLAND, Oregon—County Commissioners traded county armory and block at northwest Tenth Ave. and Couch St. for three and one-half blocks of unimproved land west of Benson Polytechnic School where it is planned to erect a new armory, contingent on a \$1,500,000 loan from public works administration.

SAN FRANCISCO — City of San Francisco defeated \$2,900,000 bond issue at election held Nov. 7 which was to have financed the erection of a new Hall of Justice on block bounded by Larkin, Hyde, Fulton and Grove Streets.

SAN FRANCISCO — City of San Francisco defeated \$1,250,000 bond issue at election held Nov. 7 which was to have financed municipal improvements in conjunction with No. 1-A Agricultural District Assn.

BAKERSFIELD, Kern Co., Cal.—Until Nov. 20, 11 A. M., bids will be received by F. E. Smith, County Clerk, Board of Supervisors, for repairs to the roof of the Kern County Court House in Bakersfield. Edwin J. Symmes, Haberfield Bldg., Bakersfield, architect, and plans and specifications may be seen in his office. Certified check for at least 10% of amount bid required.

FRESNO, Cal.—Fresno County will vote bonds on December 19 in the amount of \$280,000 to help finance construction of the proposed hall of records in Fresno. The proposed building is estimated to cost \$400,000, \$120,000 to be an outright gift from the United States Government.

RENO, Nevada—City of Reno is planning to make alterations and additions to the City Hall at First and Center Streets. Improvements include a new jail for women, new offices, etc. Further details will be announced at a later date.

FRESNO, Cal.—Mayer Z. S. Leymel has appointed a committee of 15 to prepare for placing a proposed \$1,000,000 improvement plan before the voters at the special election to be held in December. The improvement program will include a new city auditorium, city hall, tennis courts, recreation halls for playgrounds, swimming pools, new watering system in Reed-Young Park, extension of the city's fire alarm system, 3 new pieces of fire apparatus and a new fire engine house.

SAN DIEGO, Cal.—San Diego county supervisors have taken preliminary steps toward calling a special election on Dec. 19 to vote on a \$1,000,000

bond issue for the proposed city-county office building to be erected in San Diego. Architect Chas. Quayle, 601 Spreckels Bldg., San Diego, has prepared preliminary plans for the structure.

SAN BERNARDINO, Calif.—San Bernardino will hold a special election on Dec. 19 at which time it is proposed to vote bonds in the sum of \$133,000 for civic improvements. In addition to other projects, the program includes a municipal plunge and a bowl.

SAN LUIS OBISPO, Cal.—San Luis Obispo will vote at the special state election December 19 on a proposal to issue bonds in the sum of \$200,000 to finance construction of a courthouse and jail in San Luis Obispo. Previous amount was \$446,000 but was cut to \$200,000.

CALIFORNIA—California will make application for federal aid in the amount of \$1,195,000 to help finance construction of public buildings. Applications include the following requests:

New administration building at the fair grounds, \$200,000; education building, \$170,000; 4-H Club Building, \$170,000; Future Farmers Building, \$225,000 and a coliseum, \$430,000.

Sub-Contracts Awarded.
MEMORIAL BUILDING

Contract Price, \$66,940
SAN LEANDRO, Alameda Co., Calif.
 Bancroft Ave. near Estudillo.

Two-story reinforced concrete Veterans' memorial building (100x125 ft.) tile roof, steam heating system.

Owner—County of Alameda.
 Architect—H. H. Meyers, Kohl Bldg., San Francisco.

Contractor—Geo. Petersen, 1841 Bancroft Ave., San Leandro.

Reinforcing Steel—McGrath Steel Co., 2059 Webster St., Oakland.

Hardware—Maxwell Hdw. Co., 1320 Washington St., Oakland.

Brick Work—Harold Petersen, 1605 Lafayette St., Alameda.

Fencing—Standard Fence Co., 60th & Lowell St., Oakland.

Architectural Tile—Rigney Tile Co., 3012 Harrison St., Oakland.

Furniture—Bay City Cabinet Co., 1076 Fifth St., Oakland.

Lumber—Larsen Bros., 501 Hepburn Street.

Sheet Metal—Chas. Moll, Sheet Metal Works, 5371 Bond St., Oakland.

Ornamental Iron Work—C. Frauneder Orn. Iron Works, 335 5th St., Oakland.

Window Hardware—Universal Window Co., 950 Parker St., Berkeley.

Glass—W. P. Fuller & Co., 259 Tenth St., Oakland.

Painting—Mark A. Miller, Inc., 3664 Madrone St., Oakland.

As previously reported, structural steel awarded to Herrick Iron Works, 18th & Campbell Sts., Oakland; plastering to Vincent Fatta, 5558 Claremont, Oakland; plumbing to J. A. Fazio, 402 Castro St., Oakland; heating to Geo. C. Eell, 1825 Gleason Way, Oakland.

LONG BEACH, Calif.—The City of Long Beach will vote on a \$1,061,500 bond issue Nov. 21 to provide for proposed public buildings. Projects covered in the issue are: Rebuilding of the Lincoln Park library and repairs to other libraries, \$480,000; new central fire station and repairs to other stations, \$280,000; city hall repairs, \$100,000; construction of comfort stations, \$55,000; improvements at the municipal airport, \$105,000.

14— RESIDENCES

Contract Awarded.
RESIDENCE Cost, \$—
PIEDMONT, Alameda Co., Cal. No. 86 Windgard Avenue.
 One-story frame and stucco residence.
 Owner—Withheld.
 Architect—Not Given.
 Contractor — Harry C. Knight, 1435 Harrison St., Oakland.

Preparing Working Drawings.
RESIDENCE Cost, \$10,000
BERKELEY, Alameda Co., Cal. Stone-wall Road.
 Two-story and basement frame and stucco residence (9 rooms and 3 baths) shake roof, oil heating system, hardwood floors and trim, electric refrigeration.
 Owner—Withheld.
 Architect—E. L. Snyder, 2101 Addison St., Berkeley.
 Bids will be asked in about one week.

SAN FRANCISCO.—Until Nov. 16, 2 P. M., bids will be received by U. S. Coast Guard, Room 219, Administration Bldg., Government Island, Oakland, for the construction of alterations and additions to cottage at the Golden Gate Coast Guard Station, San Francisco. Plans and specifications available from above office. Andre Fourchy, associate civil engineer, U. S. Coast Guard.

Sub-Contracts Awarded.
RESIDENCE Cost, \$12,000
ALAMEDA, Alameda Co., Cal. Pleasanton Road.
 Two-story frame and stucco residence (8 rooms) Spanish type.
 Owner—L. Anderson, Oakland.
 Architect—Not Given.
 Contractor—Chris Hansen, 1500 Santa Clara Ave., Alameda.
Millwork—Pacific Mfg. Co., 1315 7th St., Oakland.
Electric—Morgan Elec. Shop, 47 Chumalia, San Leandro.
Painting—D. P. Flint, 1256 Hawthorne St., Oakland.
Sheet Metal—Atlas Heating & Ventilating Co., 1451 32nd St., Oakland.

Sub-Contracts Awarded.
RESIDENCE Cost, \$4000
NORTH BERKELEY, Alameda Co., Cal. 780 Ensenada Ave.
 Two-story and basement frame and stucco residence.
 Owner—Mr. Melanthy.
 Architect—F. H. Slocombe, 131 Monte Cresta Ave., Oakland.
 Mgr. of Const.—C. G. Garcia, 1656 Ocean View Ave., Berkeley.
Plumbing—Suendermann Plbg. Co., 921 University Ave., Berkeley.
Lumber—Tilden Lumber Co., foot of University Ave., Berkeley.
Tile—East Bay Tile Co., San Pablo Ave., Berkeley.
Roofing—Guy Tyler, 1502 Cedar St., Berkeley.
Painting—John A. MacLean, 1632 McGee St., Berkeley.
Brick—Morgan Bros., 2205 84th Ave., Oakland (day work).
Sash & Doors—Western Door & Sash Co., 5th and Cypress, Oakland.
Heating and Sheet Metal—Frank Corzie, Ocean View Ave., Berkeley.

To Be Done By Day's Work.
RESIDENCE Cost, \$5000
OAKLAND, Alameda Co., Cal. No. 949 Euclid Avenue.
 Two-story frame and stucco residence (6 rooms).
 Owner and Builder—B. Reimingham, 622 Santa Fe Ave., Oakland.
 Plans by Owner.

To Be Done By Day's Work.
RESIDENCE Cost, \$5000
SACRAMENTO, Sacramento Co., Cal.
551 Pico Way.
One-story and basement frame and
stucco residence (6 rooms).
Owner and Builder—C. C. Ruby, 4800
T St., Sacramento.
Architect—Not Given.

Sub-Bids Being Taken.
RESIDENCE Cost, \$10,000
BERKELEY, Alameda Co., Cal. El
Dorado Road.
Two-story and basement frame and
stucco residence (9 rooms and 3
baths) tile roof, gas hot air heating
system, hardwood floors, etc.)
Owner—R. E. Kolfe, 6436 Hillegass
Ave., Berkeley.
Architect—E. L. Snyder, 2101 Addison
St., Berkeley.
Contractor—Ernest Urch, 1924 50th
Ave., Oakland.

Contract To Be Awarded.
RESIDENCE Cost, \$—
SAN FRANCISCO, Forty-eighth Ave.
near Anza Street.
Two-story frame and stucco residence
(7 rooms, 2 baths) part tile and
gravel roof, gas heating system,
hardwood floor, Oregon pine or
mahogany trim, etc.
Owner—George Satchell.
Architect—A. A. Cantin, 557 Market
Street.
Contractor—Hannah and Wooldridge,
268 Market Street.

Contract Awarded.
RESIDENCE Cost, \$3000
OAKLAND, Alameda Co., Calif. 9927
Holly Street.
One-story frame and stucco residence
(5 rooms).
Owner—Harry C. Ross, 1425 100th Ave.
Oakland.
Architect—Not Given.
Contractor—C. H. Fronsén, 883 54th
St., Oakland.

Sub-Contracts Awarded.
RESIDENCE Cont. Price, \$4977
PIEDMONT, Alameda Co., Cal. Pied-
mont Pines.
One and one-half-story frame and
stucco residence (6 rooms) Eng-
lish style.
Owner—Alfred Kennedy.
Architect—Miller & Warnecke, Finan-
cial Center Bldg., Oakland.
Contractor—Wallace A. Peterson, 7101
Weld St., Oakland.
Mill Work—Clinton Mill Co., 701 4th
Ave., Oakland.
Lumber—Bay City Lumber Co., Foot
of 9th Ave., Oakland.
Concrete—Nick Lindstrom, 2417
Browning, Berkeley.
Plastering—Axel Sommarstrom, 109
Sunnyside Ave., Piedmont.
Painting—Arthur Remington, 1748
103d Ave., Oakland.
Tile—Rigney Tile Co., 3101 Harrison
St., Oakland.
Hardwood Floors—E. C. Mattson, 2960
Montana, Oakland.
Electric—Kerr & Clifford, 2525 E. 14th
St., Oakland.

Plans Being Figured.
ALTERATIONS Cost, \$2500
REDWOOD CITY, San Mateo Co., Cal.
Alterations and additions to frame and
stucco residence; add two rooms,
painting, plastering, etc.
Owner—L. Saxellid.
Architect—A. A. Cantin, 557 Market
St., San Francisco.

To Be Done By Day's Work.
RESIDENCE Cost, \$5000
SAN FRANCISCO, E Twenty-first
Ave. 50 N Judah Street.
One-story and basement frame and
stucco residence.
Owner—A. Hallgren, 1594 29th Ave.,
San Francisco.
Contractor—F. F. Amandes, 1879 18th
Ave., San Francisco.

Preparing Working Drawings.
RESIDENCE Cost, \$—
ROSS, Marin Co., Cal.
One-story and basement frame resi-
dence (6 rooms and 2 baths);
rustic type, redwood exterior,
wood sash, gas hot air heating
system, tiled baths, etc.
Owner—Mr. and Mrs. G. J. Seebe, %
Architect.
Architect—W. W. Wurster, 260 Cali-
fornia St., San Francisco.
Bids will be asked in about one
week.

Sub-Contracts Awarded.
RESIDENCE Cont. Price, \$7863
SAUSALITO, Marin Co., Cal.
Two-story frame Colonial type resi-
dence (6 rooms and 3 baths).
Owner—Dr. Russell Ryan, 909 Hyde
St., San Francisco.
Architect—R. H. Bickel, Crocker Bldg.
San Francisco.
Contractor—William Spivock, Hobart
Bldg., San Francisco.
Tile—Scott Co., 243 Minna St., San
Francisco.
Stairs—E. D. Philbric, 41 Sheridan St.,
San Francisco.
Plumbing—K. Fahy, 123 Ocean Ave.,
San Francisco.
Reinforcing Steel—Soule Steel Co.,
1750 Army St., San Francisco.
Roofing & Waterproofing—Alta Roof-
ing Co., 976 Indiana St., San Fran-
cisco.
Glass—W. P. Fuller Co., 301 Mission
St., San Francisco.
Linoleum—Venor Co., 36 Sacramento
St., San Francisco.

Contract Awarded.
RESIDENCE Cost, \$10,500
PALO ALTO, Santa Clara Co., Cal.
No. 1184 Palo Alto Avenue.
Two-story and basement frame and
stucco residence (8 rooms and 3
baths); tile roof, gas hot air heating
system, hardwood floors, etc.
Owner—Chrysella Kiler.
Architect—Chas. K. Sumner, Deck-
eroak Bldg., Palo Alto.
Contractor—E. J. Schmalling, 808
Melville Ave., Palo Alto.

Preparing Working Drawings.
RESIDENCE Cost, \$—
SANTA CRUZ, Santa Cruz Co., Cal.
Two-story and basement frame, brick
vener, stucco residence (8 rooms
and 3 baths) split shake roof, gas
hot air heating system, steel sash,
hardwood floors, etc.
Owner—Dr. and Mrs. S. B. Randall, %
Architect.
Architect—W. W. Wurster, 260 Cali-
fornia St., San Francisco.
Bids will be asked in about three
weeks.

Completing Preliminary Plans.
RESIDENCE Cost, \$7500
WALNUT CREEK, Contra Costa Co.
Two-story frame and brick Spanish
style residence (6 rooms and 2
baths) 2-car garage; steel sash,
brick exterior, tile roof, etc.
Owner—Earl Barnett.
Architect—Edwin L. Snyder, 2101 Ad-
dison St., Berkeley.

Preparing Working Drawings.
RESIDENCE Cost, \$10,000
BERKELEY, Alameda County, Cal.
Stonewall Road.
Two-story and basement frame and
stucco residence (9 rooms and 3

baths) shake roof, oil heating sys-
tem, hardwood floors and trim,
electric refrigeration.
Owner—Withheld.
Architect—E. L. Snyder, 2101 Addison
St., Berkeley.
Bids will be taken in one week.

Completing Plans.
RESIDENCE Cost, \$12,000
SAN RAMON HEIGHTS, Walnut
Creek, Contra Costa Co., Cal.
Two-story and basement frame Cali-
fornia Colonial style residence (10
rooms and 3 baths), 2-car garage;
terra cotta roof, brick, tile and
wood exterior, steel sash, oak
plank floors, oil hot air heating
system, electric refrigeration, etc.
Owner—R. W. Lowe.
Architect—Edwin L. Snyder, 2101 Ad-
dison St., Berkeley.
Bids will be taken Nov. 11.

15—SCHOOLS

Low Bidder.
SCHOOL UNIT Cost, \$40,000
PULLMAN, Washington.
Three-story school unit (128x40 ft.)
Owner—Lincoln School District.
Architect—Fred Rounds, Tacoma.
Low Bidder—Howard Haskell, Pull-
man at \$34,449.
Heating—De Long Co. and H. P.
Powell Co., Pullman.
Plumbing—Bergh-Griggs Co., Pullman
Pullman Board of Education filed a
request with the state and government
asking for \$7500 additional for use in
the project.

SANTA ANA, Orange Co., Cal.—Ar-
chitects Allison & Allison, 1014 Ed-
ison Bldg., Los Angeles, have been
commissioned by the Santa Ana board
of education to prepare plans and es-
timates of cost for repairs and recon-
struction of the high school and junior
college buildings. Frances Willard Jr.
high school, and the Wilson and Ho-
over grammar schools in Santa Ana.
The board plans to secure funds for
the work under provisions of the
Green bill, passed last May in the
state legislature. While the bill does
not require a vote on securing the
funds, it has been decided to place the
matter before the voters at a special
election.

ALAMEDA, Alameda Co., Cal.—Al-
ameda Board of Education has filed
application with federal authorities
for an appropriation of \$157,136 to help
finance construction of new schools in
Alameda. A bond election for the sum
of \$447,864 will be held shortly.

Preparing Working Drawings.
GYMNASIUM Cost, \$65,000
SANTA ROSA, Sonoma Co., Cal.
One-story reinforced conc. and brick
vener gymnasium (171x235) reinf.
concrete walls (separate gym. for
men and women) swimming tank.
Owner—Santa Rosa Junior College
Dist. (Floyd Bailey, dean) Santa
Rosa.
Architect—Wm. Herbert, Rosenberg
Bldg., Santa Rosa.
A request for a gift of \$30,000 will
be made to the Federal Government.

SAN BERNARDINO, Cal.—The San
Bernardino board of education is con-
sidering a program of school building
additions and renovations. The mat-
ter will probably be acted upon at the
December meeting of the board. Funds
for the work will come from current
funds.

To Be Done By Day's Work.
SCHOOL Cost, \$25,000
RICHMOND, Contra Costa Co., Calif.
Rebuilding and reinforcement of Roos-
velt Junior High School (work
involves steel girders, new en-
trances, concrete stairway, etc.

Owner—Richmond Union High School District.
 Architect—Louis Stone, 98 Ramona St. Piedmont.
 Mgr. of Const.—Elmer J. Freethy, 1301 Roosevelt Ave., Richmond.

Revised Plans Completed.
SCHOOL Cost, \$3500
EMIGRANT GAP, Placer Co., Cal.
 One-story wld frame grammar school building (1 classroom) rustic exterior, shingle roof, maple floors, etc.

Owner—Emigrant Gap School District.
 Architect—W. E. Coffman, Forum Bldg., Sacramento.
 Revised plans have been forwarded to Sacramento for approval and bids will be asked shortly.

Commissioned To Prepare Plans.
HIGH SCHOOL Cost, \$240,000
SEBASTOPOL, Sonoma Co., Cal.
 Two-story reinforced concrete high school building.
 Owner—Analy Union High School Dist.
 Architect — Louis Stone and J. R. Rowell, Associated, 98 Ramona St., Piedmont.
 Application for a \$240,000 loan to the federal public works administration has been made.

SALT LAKE CITY, Utah.—Utah State Building Commission will ask bids for excavation work in connection with the construction of the home economics building at Salt Lake City, to cost \$225,000. Also excavation and foundations for the \$550,000 library building and for the construction of three buildings at the State Training School at American Fork, to cost \$90,000.

WASCO, Kern Co., Cal. — Wasco Union High School District has under consideration a proposal to apply to the Public Works Administration for a loan of \$50,000 to finance the construction of a science building at Wasco High School.

BAKERSFIELD, Kern Co., Cal.—Bakersfield Board of Education contemplates erecting an auditorium at the Union Avenue School in Bakersfield to cost \$4500. The plan under consideration contemplates applying to the Public Works Administration for a loan of the necessary funds.

COMPTON, Los Angeles Co., Cal.—Architects Marsh, Smith and Powell, Architects' Bldg., Los Angeles, preparing working drawings for reconstruction and structural bracing of the following school buildings in the Compton union high school group. Structural bracing in shop building; structural bracing in Cafeteria building; structural bracing of present building and addition of a classroom unit; new gymnasium building to be constructed on footings of old building. It is also planned to construct a new auditorium building at a later date. Frame and plaster construction. Salvage materials will be used in repairs and reconstruction as far as practicable.

LONG BEACH, Calif.—Long Beach board of education has approved plans and has instructed A. A. Knoll, business manager, to forward them to the State Division of Architecture for approval for reconstructing the original science building at the Woodrow Wilson High School. Plans were prepared by Architect W. H. Austin, 532 Chestnut Ave., Long Beach. Is a two-story, reinforced concrete structure, 65x120 ft. Will be strengthened by adding 3 inches of gunite on the exterior and adding steel laterals. Cost, \$24,200.

LOS ANGELES, Cal.—Los Angeles board of education has approved preliminary engineering plans, including analyses, structural design computations and cost estimates, for earthquake strengthening and repairs at the George Washington high school, and has authorized Structural Engineer Oliver S. Bowen, 1144 S Grand Ave., to proceed with working drawings. Cost, \$311,500.

MOUNT VERNON, Wash.—Mount Vernon School District No. 396 has made application to State Engineer for a state grant of 20% to help finance construction of a new school building at Mount Vernon. Bonds for one-half of the \$110,000 necessary to finance construction will need to be authorized by a vote of the school district and an election will be held in the near future.

To Ask Bids Shortly.
SCHOOL Cost, \$10,000
GRASS VALLEY, Nevada Co., Cal.
 One-story Class C reinforced concrete shop building for school (3 room).
 Owner — Grass Valley High School District.
 Architect—Frederick H. Reimeres, 233 Pose St., San Francisco.

SAN FRANCISCO—Malott & Peterson, 20th and Harrison Sts., at \$483 submitted low bid for roofing and The Venor Company, 36 Sacramento St., at \$695 submitted low bid for mastipave roofing to Department of Public Works to lay roofing and for mastipave roofing for Jean Parker School, Broadway, between Powell and Mason Streets. Following bids received:

- (1) Roofing; (2) Mastipave Roofing.
- Malott & Peterson.....(1) \$483
- Alta Roofing Co.....(2) 708
- J. W. Bender Co.....(1) \$524
- L. S. Case.....(1) \$789
- Venor Company(2) 705
- Bids held under advisement.

LOS ANGELES, Cal. — Structural Engineer Oliver G. Bowen, 1144 S. Grand Ave., commissioned by Los Angeles Board of Education to prepare plans and specifications including preliminary drawings, analyses, structural design computations, and estimates of cost, of the work of repairing, reconstructing and reinforcing the following buildings of the William McKinley Junior High School group: Administration, shop, science, boys' physical education, and girls' physical education. Cost, \$164,000.

SANTA ANA, Orange Co., Calif.—Architect Frederick H. Eley, 316 Otis Bldg., Santa Ana, has been commissioned by Santa Ana board of education to prepare plans and estimates of cost for repairs and reconstruction of all grammar schools in Santa Ana, except the Wilson and Hoover schools. The board plans to secure funds for the work under provisions of the Green bill, passed last May in the state legislature. While the bill does not require a vote on securing the funds, it has been decided to place the matter before the voters at a special election.

16—BANKS, STORES AND OFFICES

To Be Done By Day's Work.
ALTERATIONS Cost, \$20,000
FRESNO, Fresno Co., Cal. Tulare and Fulton Streets.
 Extensive alterations to ground floor of T. W. Patterson Building for store.
 Owner—National Dollar Stores, Ltd., Lin Foong, Vice-President), 929

Market St., San Francisco.
 Architect — Bernard Joseph, 74 New Montgomery St., San Francisco.
 Work will be done by day's labor by owner's own forces and sub-contractors will be awarded to local contractors only.

LOS ANGELES, Cal.—Carrier Engr Corp., 748 E Washington Blvd., has signed a contract at \$226,338 for installing an air conditioning and ventilating system in the Class A newspaper building under construction at First and Spring Sts., for the Times-Mirror Co. P. J. Walker Co., 3900 Whiteside Avenue, managers of construction; Gordon B. Kaufmann, 619 Union Bank Bldg., architect.

Commissioned To Prepare Plans.
BUILDING Cost, \$50,000
MONTEBELLO, Los Angeles Co., Cal.
 Two-story business building (80x200) contain large market, dance hall and beer garden.
 Owner—Mr. Myers.
 Architect—M. L. Barker and G. Lawrence Ott, 346½ S La Brea Ave., Los Angeles.

Electrical Contract Awarded.
ALTERATIONS Cost, \$20,000
SAN FRANCISCO, SW Battery and Pine Streets.
 Extensive alterations to 7-story Class B store and loft building.
 Owner—Michael Donohoe Estate.
 Mgr. of Const.—Frederick H. Whitton, 369 Pine St., San Francisco.
 Lessee — Pacific Greyhound Lines, 9 Main Street (lessee of basement and first three floors).

Electric—Victor Lemoge, 281 Natoma St., San Francisco.
 As previously reported, carpentry awarded to J. D. Hannah, 251 Kearny St.; plumbing to O'Mara & Stewart, 218 Clara St.; heating to F. W. Snook, 596 Clay St.; elevator to Otis Elevator Co., 1 Beach St.
 (2817) 1st report Oct. 12; 3rd Oct. 27, 1933.

Contract Awardee.
ALTERATIONS Cost, \$50,000
SEATTLE, Wash. SE Fourth Ave. and Pike Street.
 Alterations to building (doctors' offices, etc.)
 Owner—Arthur Gerbel, Liggett Bldg., Seattle.
 Architect—Earl W. Morrison, Lloyd Bldg., Seattle.
 Contractor—Henrikson-Alstrom Construction Co., Textile Tower, Seattle.
Plumbing—Wenzler & Ward, Textile Tower, Seattle.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$—
SAN JOSE, Santa Clara Co., Cal. Julian Street.
 Alter present store building.
 Owner—John Bean Mfg. Co., 217 West Julian St., San Jose.
 Architect—Wm. Higgins, 19 N 2nd St., San Jose.
 Contractor—Henry Bridges, 1398 Lincoln St., San Jose.
 All contractors are of San Jose.

Lumber—McElroy-Cheim, 1450 The Alameda.
Plastering—W. G. Newman, 1423 Glen Una.
Mill Work—McElroy-Cheim, 1450 The Alameda.
Concrete—Joe Alva, 123 S 3rd St.
Electric—Ted Russell, Montgomery Hotel.
Painting—Ben Stone, 1225 McKendrie.
Glass—Syl. LeDeit Glass Co., 762 Lenzen Avenue.
Iron—Hellwig's Iron Works, 407 Vine Street.
Sheet Metal—Henry Eizert, 748 The Alameda.

To Ask Bids Within A Few Days.
STORE Cost, \$—
VALLEJO, Solano Co., Cal. Sonoma Street near Georgia Street.
 Two-story brick, terra cotta and cement store with steel columns and beams (five stores) tar and gravel and part hand-made tile roof.
 Owner—F. D. Jones, Vallejo.
 Architect—F. H. Slocombe, 3830 Harrison St., Berkeley.
 Plans have been changed to a two-story building in place of a one-story structure.

Structural Steel Contract Awarded.
FACTORY & OFFICES Cost, \$35,000
SAN FRANCISCO, N Fulton St. E Webster St.
 Three-story reinforced concrete factor and office building.
 Owner—Cereal Products Co., 763 Fulton St., San Francisco.
 Architect—Not Given.
 Contractor—Richard J. H. Forbes, Monadnock Bldg., San Francisco.
Structural Steel—W. S. Wetenhall, 17th and Wisconsin Sts., S. F.
 Sub-bids on other portions of the work will be taken inabout two weeks.

November 6, 1933

Contract Awarded.
ALTERATIONS Cost, \$2600
VALLEJO, Solano Co., Cal. 1114 Sonoma Street.
 Alterations and additions to automobile building.
 Owner—Doyle Estate, Vallejo.
 Architect—Not Given.
 Lessee—Burgle Motor Car Company.
 Contractor—John Sullivan, Vallejo.

Construction Started.
ALTERATIONS Cost, \$—
SANTA ROSA, Sonoma Co., Cal. Third and B Streets.
 Extensive alterations for automobile salesroom.
 Owner—Frank H. Reid, Santa Rosa.
 Architect—Not Given.

Preparing Plans.
STORE Cost, \$—
SAN JOSE, Santa Clara Co., Cal. No. 160-164 S-First St. and 157-165 S-Second St.
 Modern store building (51x275 ft).
 Owner—Montgomery Ward & Co.
 Plans by Engr. Dept. of Owner, Chicago.
 It is expected to ask bids in about thirty days.

Sub-Contracts Awarded.
STORES & OFFICES Cost, \$35,000
SAN FRANCISCO, Stockton St. and Card Alley.
 One-story reinforced concrete office and store building (tar and gravel roof, steam heating system, concrete and wood floors.)
 Owner—S. Giannone, % A. Cavali, 255 Columbus Avenue.
 Architect—William Mooser, Monadnock Bldg.
 Supt. of Const.—Louie Spargo.
 Contractor—Vannucci Bros. Const. Co., 1875 San Bruno Ave.
Structural Steel—Schrader Iron W'ks, 1247 Harrison St.
Reinforcing Steel—W. C. Hauck & Co., 250 San Bruno Ave.
Plastering—Geo. Toranova, 195 Ellsworth Street.
 Other awards will be made shortly.

Planned.
REMODEL BLDG. Cost, \$—
FRESNO, Fresno Co., Cal. Broadway and Inyo St. and II and Inyo Sts.
 Remodel two buildings for stores (new fixtures and equipment, etc.)
 Owner—Valley Bedding & Furniture Co. (Seniel Ostrow, President).
 Architect—Not Given.

Bids Opened.
STORE Cost, \$—
SAN JOSE, Santa Clara Co., Calif. Santa Clara St. bet. 12th and 13th.
 One-story reinf. concrete store bldg. (50x100 ft.) concrete floors, ten-year guaranteed built-up roof.
 Owner—Sateway Stores.
 Architect—Charles McKenzie, Twohy Bldg., San Jose.
 Low Bidder—George Honore, 136 Race St., San Jose.
 Following bids received:
 Geo. Honore, San Jose.....\$11,400
 F. W. Reese, San Jose..... 13,098
 C. N. Swensen, San Jose..... 13,118
 W. N. Caldwell, San Jose..... 13,274
 Jos. Santi, San Jose..... 13,341
 J. W. Wolford, San Jose..... 13,349
 Chas. Thomas, San Jose..... 13,427
 John Shirley, San Jose..... 13,468
 John Lannin, San Jose..... 13,537
 Megna & Newell, San Jose..... 13,650
 W. Hathaway, San Jose..... 13,690
 J. D. Carlsen, San Jose..... 13,837
 H. A. Bridges, San Jose..... 14,100
 W. J. Ochs, San Jose..... 14,885
 Frank Edmans, San Jose..... 14,998
 Guy Latta, San Jose..... 17,429
 Bids held under advisement.

Work Started.
REMODELING Cost, \$—
SAN FRANCISCO, No. 560 PACIFIC Street.
 Remodel Hippodrome for restaurant, etc. (bracing, decorating, fixtures, etc.)
 Owner—A. Ruef, 916 Kearny St., San Francisco.
 Architect—Not Given.
 Lessee—A. Nestori.

Contract Awarded.
HEATING SYSTEM Cost, \$4100
SAN FRANCISCO, Market and Stockton Sts.
 Remodel present steam heating plant in store building.
 Owner—Roos Bros., Premises.
 Architect—A. R. Williams, Humboldt Bank Bldg., San Francisco.
 Contractor—Gilley-Mank-Young Co., 198 Otis St., San Francisco.

Contract Awarded.
ALTERATIONS Cost, \$—
SANTA ROSA, Sonoma Co., Cal. No. 540 Third Street.
 Alterations to store building.
 Owner—Mrs. E. M. Cnopius, Santa Rosa.
 Architect—Not Given.
 Contractor—L. Covington, Santa Rosa.

18—WHARVES & DOCKS

Seek Funds.
HARBOR AND POOL Cost, \$50,000
MARTINEZ, Contra Costa Co., Cal. Yacht harbor (400-foot extension to present pier, etc.)
 Owner—City of Martinez.
 Architect—E. Geoffrey Bangs, 411 30th St., Oakland.
 The harbor proper will be provided for by construction of two narrow landing piers on the easterly side of the extended pier, creating a harbor nearly in the form of a "C."
 There would be a breakwater pier of seven-inch creosoted sheet piling enclosing the harbor on the north and west sides.
 A system of floats connected to landing piers is designed to provide berthing spaces 1700 feet in length, for accommodation of 65 boats of average size.

Formal application for a government loan in the amount of \$50,000 to finance construction has been filed with regional federal works board in San Francisco. The application asks for an outright gift of 30 per cent of the cost of labor and materials and provides for issuance of 20-year bonds, for the balance. An election would be required to authorize the bonds.

PEARL HARBOR, T. H.—Following have procured plans for the purpose of submitting bids to the U. S. Bureau of Yards and Docks, Navy Department, Washington, D. C., on Dec. 6 in connection with the landscaping at the Ammunition Depot at Pearl Harbor, Specification No. 7334:
 F. W. Snook Co., 596 Clay St., San Francisco.
 E. T. Thurston, Honolulu.
 George E. Miller.
 American Factors, Matson Building, San Francisco.
 Brooks of California, 142 La Brea Ave., Los Angeles.
 California Nursery, Inc., Niles, Cal.
 Petersen Bros., Inglewood, Cal. (2833) 1st report Oct. 17, 1933.

PEARL HARBOR, T. H.—Following are additional contractors and others who have procured plans for the purpose of submitting bids to the Bureau of Yards and Docks, Navy Department, Washington, D. C., on Nov. 15 in connection with the construction of a pier and gauge of reinforced concrete construction supported on concrete cylinders on wood and concrete piles, and includes dredging, concrete and steel sheet pile bulkheads, timber fender system, track work, piping systems, electrical work and fittings at the Navy Yard, Pearl Harbor, Spec. No. 7418. Estimated cost, \$2,850,000:
 Honolulu Iron Works, Honolulu.
 Steuart Mannell, Seattle, Wash.
 Inland Steel Company.
 E. T. Thurston, Honolulu.
 U. S. Pipe & Foundry, Monadnock Bldg., San Francisco.
 Enterprise Foundry, 2902 19th St., San Francisco.
 Koppell Industrial Equip. Co., Pennsylvania.
 W. S. Way, 2831 Second Lane, Seattle.

Soule Steel Co., 1750 Army St., San Francisco.
 Theo. H. Davies, Matson Building, San Francisco.
 General Metals Corp., 485 California St., San Francisco.
 Pacific Coast Steel Co., 20th and Illinois Sts., San Francisco.
 George Hess, 434 S Westmoreland Ave., Los Angeles.
 Grinnell Co. of the Pacific, 5th and Brannan Sts., San Francisco.
 Were Kilby Co., Cincinnati.
 Virginia Bridge & Iron Works, Roanoke, Virginia.
 Crane Co., 301 Brannan Street, San Francisco.
 Pan-Pacific Piling & Const. Co., 2145 E 25th St., Los Angeles.
 McClintic-Marshall Corp., 20th and Illinois Sts., San Francisco.

OAKLAND, Cal.—Following bids received by City of Oakland Port Commission for sprinkler system for the 320-ft. extension at Outer Harbor Terminal, Oakland:
Pacific Irrigation Co., 7 Front St., San Francisco.....(1) \$ 980.00
(2) 1,041.00
(3) 277.80
Grinnell Co. of the Pacific, San Francisco(1) \$1,089.36
(2) 1,187.93
(3) 578.32
Rockwood Sprinkler Co., San Francisco(1) \$1,135.90
(2) 1,217.60
(3) 536.25
Automatic Fire Protection Co.
 San Francisco(1) \$1,200.00
(2)
(3) 590.00
 Bids held under advisement.

RICHMOND, Alameda Co., Calif.—Case Const. Co., Pier 28, San Francisco, at \$3,251 submitted low bid and awarded contract by the Richmond City Council for the repair of the substructure of Wharf No. 1 of the City

of Richmond, located at the snurtherly termination of Garrard Blvd., Richmond, involving:

(1) removal of old and crackek concrete cleaning steel and replacing the same with 190 cu. yds. of cement gunite.

(2) removal of old reinforcing steel and replacing with 3600 lbs. of new reinforcing steel and black and annealed wire.

(3) galvanized welded wire fabric so placed, 3,000 lbs.

Bidders follow:

- (A) Case Const. Inc., San Francisco;
- (B) Healy-Tibbitts Const. Co., S. F.
- (C) M. E. McGowan, S. F.
- (D) Duncanson-Harrelson Co., S. F.

	(1)	(2)	(3)	Total
(A).....	\$38.50	\$0.08	\$0.216	\$8,251
(B).....	42.60	0.07	0.18	8,886
(C).....	42.00	0.12	0.225	9,087
(D).....	40.00	0.11	0.37	9,106

HAMILTON FIELD, Cal.—Bundessen & Lauritzen, Pittsburg, at \$13,996 awarded contract by War Department for construction of a creosoted wood dock at Hamilton Field, San Rafael. Complete bids reported October 30.

PEARL HARBOR, T. H.—Following have procured plans for the purpose of submitting bids to the U. S. Bureau of Yards and Docks, Navy Department, Washington, D. C., in connection with the construction of 24 sand-filled reinforced concrete platforms supported on piles and with spring buffer fender system at the 14th Naval District, Pearl Harbor. Spec. No. 7093:

E. T. Thurston, Honolulu.

19—MISC. CONSTRUCTION

SAN FRANCISCO.—Until Nov. 16, 2 P. M., bids will be received by U. S. Coast Guard, Room 219, Administration Bldg., Government Island, Oakland, for the construction of a combination two-story frame boathouse and garage, 26x48, with asbestos or tile roof, to be erected at the Golden Gate Coast Guard Station, San Francisco. Plans and specifications available from above office. Andre Fourchy associate civil engineer, U. S. Coast Guard.

INGLEWOOD, Los Angeles Co., Cal.—Architects Krempel & Erkes, 1211 Rives-Strong Bldg., have prepared plans and the supervising the construction of an addition in the rear of the new Inglewood Park Cemetery Assn. mausoleum. Segregated contracts are being awarded for various parts of the work. The addition will cover an area of 10x60 ft. and will house an office, flower shop and extension to chapel; reinforced concrete construction.

POINT REYES, Marin Co., Cal.—J. Plasecke, 345 Haight St., San Francisco, at \$1124 awarded contract by Public Works Officer, U. S. Navy Yard, Mare Island, to construct radio masts at the U. S. Naval Direction Finder Stations at Point Reyes and Point Montara. Spec. No. 7521.

EUREKA, Humboldt Co., Cal.—Fred J. Maurer, Eureka, at \$298 awarded contract by Public Works Officer, Mare Island, for improvements to the fire protection system at the U. S. Naval Radio Station, Eureka, (Table Bluff). Spec. No. 7501.

BOULDER CANYON, Nevada—Opening of bids for furnishing ad delivering structural steel trash racks for installation (by government) in the intake towers at Boulder Dam, Specifications No. 547, has been postponed from October 30 to November 6. This

is the second postponement. The original date of opening was October 16. R. F. Walter, Denver, Chief Engineer.

GLENDALE, Cal.—Wm. J. Shirley Constr. Co., 1721 S-Vermont Ave., Los Angeles, at \$64,900 (bidding on flat slab type) awarded contract by the Glendale City Council, Nov. 2, for the construction of a reinforced concrete roof on the Chevy Chase reservoir, Glendale. P. Diederich, 6th Floor, Public Service Bldg., 119 N. Glendale Ave., Glendale, Pubis Service Superintendent, prepared the plans.

BEVERLY HILLS, Los Angeles Co., Cal.—Continental Engr. Co., 710 North Kilkea Drive, Los Angeles, has been awarded a contract for filtration equipment to be installed in a swimming pool at 622 N Beverly Drive, Beverly Hills, for R. L. Kidner. Harry Doering, general contractor.

LOS ANGELES, Cal.—Until Nov. 15, 2 P. M., bids will be received by the Metropolitan Water District, Room 501 306 W Third St., Los Angeles, for furnishing complete, three exterior and three interior sections of telescopic steel forms, in lengths of 11 ft. 3 in. for a semi-elliptical conduit of 16 ft. in height, and three sections of telescopic steel forms in lengths of 10 ft. for the interior of a circular siphon 12 ft. 4 in. in diameter, together with all necessary devices and tools for setting and moving same. Forms are to be delivered, completely assembled, ready for use on the line of the Colorado river aqueduct at a point 11 miles northwest of Indio, Calif. Certified check or cashier's check, 10%. Specifications No. 62 may be obtained at Room 1007, 306 W Third St., upon payment of \$2. F. E. Weymouth, General Manager and Chief Engineer.

LOS ANGELES, Calif.—Contractors and others who have procured plans for furnishing complete three exterior and three interior sections of telescopic steel forms under Spec. No. 62, bids for which will be opened by the Metropolitan Water District, 306 W 3rd St., Los Angeles, at 2 P. M., Nov. 15, are:

- Blaw-Knox & Western Pipe Co., Box 1120 Arcade Station, Los Angeles.
- Jas. M. Conlon Co., Transamerica Bldg., Los Angeles.
- Lacy Mfg. Co. 601 Washington Bldg. Los Angeles.
- Southwest Welding & Mfg. Co., Inc. 3201 W Mission Road, Alhambra.
- V. W. Stewart, 2416 E 16th St., Los Angeles.

Planned.
DEPOT Cost, \$100,000
SAN JOSE, Santa Clara Co., Cal. San Fernando and The Alameda.
 One-story brick depot.
 Owner—Southern Pacific R. R. Co., 65 Market St., San Francisco.
 Plans by Engr. Department of Owner.

OAHU, T. H.—Following are additional contractors who have procured plans for the purpose of submitting bids to the Bureau of Yards & Docks, Navy Dept., Washington, D. C., on Nov. 29 in connection with the construction of reinforced concrete magazine and barricade wall, asphalt surfaced road, boiler house equipment and alterations to an existing building at the Naval Ammunition Depot, Oahu. Spec. No. 7257:

- Westinghouse Electric & Mfg. Co., Washington, D. C.
- Jos. R. Lippincott, 714 W 10th St., Los Angeles.
- Graybar Electric Co., 420 Lexington Ave., New York City.

PEARL HARBOR, T. H.—Following are additional contractors and others who have procured plans for the purpose of submitting bids to the Bureau of Yards and Docks, Navy Department, Washington, D. C., on Nov. 15 in connection with furnishing and erecting four cranes at Pearl Harbor Navy Yard. Specification No. 7419:

- American Hoist & Derrick Co., 2701 67th Ave., Oakland.
- Star Ornamental Iron Works, 1271 Folsom St., San Francisco.
- Industrial Brownhoist Corp., Hearst Bldg., San Francisco.
- Welding Engr. Co., 334 Van Ness Ave., South, San Francisco.
- Link-Belt Co., 400 Paul Ave., San Francisco.
- Virginia Bridge & Iron Works, Roanoke, Virginia.
- General Electric Co., Russ Bldg., San Francisco.
- Harnischfeger Sales Corp., 82 Beale St., San Francisco.
- American Factors, Matson Building, San Francisco.

SAN FRANCISCO—City of San Francisco defeated \$700,000 bond issue at election held Nov. 7, which was to have financed improvements at the Aquatic Park.

SAN FRANCISCO—Until Nov. 15, 11 A. M., bids will be received by Public Works Officer, 12th Naval District, 100 Harrison St., San Francisco, for painting and redecorating interior of quarters No. 7 at the Naval Receiving Ship, Yerba Buena Island, San Francisco. Specification No. 7520. Specifications may be obtained from above office upon deposit of \$5.00.

20—MISC. SUPPLIES AND MATERIALS

SAN FRANCISCO.—W. S. Dickey Clay Products Mfg. Co., 116 New Montgomery St., at \$62.04 per M. were awarded contract by Quartermaster Supply Officer, Fort Mason, to furnish 20,000 Class No. S H-75, 2½x4½x9-in. fire-clay brick under Circular No. 928-34055.

LONG BEACH, Cal.—United Pipe & Foundry Co. was awarded a contract by the Long Beach board of water commissioners at \$57,657.60 for furnishing 15,840 ft. 24-in. pipe in 12-ft. lengths, and at \$13,258.08 for furnishing 4752 ft. of 20-in. pipe in 12-ft. lengths. The bids were opened Oct. 21.

SAN FRANCISCO.—Pacific Coast Rubber Co., 51 Main St., at \$0.136 per ft., submitted low bid to the U. S. Forest Service, Ferry Bldg., for furnishing 15,000 ft. of pneumatic air hose in 50-ft. lengths, ¾-in. Complete bds follow:

	Per ft.
Pacific Coast Rubber Co., S. F.....	\$0.136
Gardner-Denver Co., S. F.....	0.154
Chicago Pneumatic Tool Co.....	0.155
Hercules Equip. & Rubber Co.....	0.1575
Goodyear Tire & Rubber Co.....	0.163
Sullivan Machinery Co.....	0.1775
Ingersoll-Rand Co. of Cal.....	0.18
Universal Rubber Mfg. Co.....	0.205
Quaker City Rubber Co.....	0.21
U. S. Rubber Products, Inc.....	0.218
American Rubber Mfg. Co.....	0.22
Pioneer Rubber Mills.....	0.22

LOS ANGELES, Calif.—Frick Reed Supply Corp. was awarded the contract by Saul A. Joseph, Purchasing Agent of the Metropolitan Water District, Nov. 4 at \$3637 (Item 2) for furnishing black pipe under Bid No. 17,128. All bids on Item 1 were rejected.

LOS ANGELES, Cal.—Pacific Coast Steel Co., E. Sausun Ave., Vernon, at \$112,97 awarded contract by A. J. Hunt, City Purchasing Agent, for furnishing approximately 41,217 lbs. of second grade reinforcing steel under Bid No. 1481.

CANAL ZONE.—Santa Cruz Portland Cement Co., Crocker Bldg., San Francisco, at \$358,100 awarded contract by the General Purchasing Officer, Panama Canal, for furnishing 160,000 barrels of Portland cement under Schedule 2809.

LOS ANGELES, Cal.—B. & F. Oil & Refining Co., at \$792,38 awarded contract by Saul A. Joseph, Purchasing Agent, Metropolitan Water Dist., Nov. 4, for furnishing road oil under Bid No. 17,126.

LONG BEACH, Cal.—United States Pipe & Foundry Co., 2326 E. Eighth St., Los Angeles, submitted low bid to the Long Beach Board of Water Commissioners, October 31, for furnishing cast iron water pipe, as follows:

- (1) 15,840 ft. 24-in. pipe in 12, 16 or 18-ft. lengths;
- (2) 4752 wt. 20-in. pipe in 12, 16 or 18-ft. lengths.

The bids were:
 United States Pipe & Foundry Co.:
 (1) \$59,241.60, in 18-ft. lengths.
 (2) \$13,638.24 in 18-ft. lengths.
 (All. to 1), \$57,657.60, 12-ft. lengths.
 (All. to 2) \$13,258.08, 12-ft. lengths.
 American Cast Iron Pipe Co.:
 (1) 60,192; (2) \$13,780.80.

R. D. Wood & Co., by Utilities Supply Co.:
 (1) \$62,251.20; (2) \$14,160.96.
 All bids were taken under advisement.

PANAMA CANAL ZONE.—Laclede Steel Co., St. Louis, Mo., at \$2512 awarded contract by General Purchasing Officer, Panama Canal, Washington, D. C., for furnishing steel reinforcing bars under Class I, Sch. 2914. Bids were opened October 30.

SACRAMENTO, Cal.—Following bids received by the U. S. Engineer Office, Sacramento, for furnishing and operating one or more tug boats of sufficient power to complete the tow of the dredge "San Joaquin" either to or from Rio Vista, within 36 hours. The dredge is to be towed from Rio Vista to the Potrero Works Union plant, San Francisco, about Nov. 8 and is to be returned to Rio Vista about one week later.

The bids were:
 Ship Owners & Merchants Tugboat Co., San Francisco, \$650.
 Harbor Tug & Barge Co., San Francisco, \$17.50 per hour, total \$700.00.

VALLEJO, Solano Co., Cal.—Horan Feed & Fuel Co., Vallejo, at \$.04 per gallon for commercial oil, and \$.0525 for Diesel oil awarded contract by the Vallejo Board of Education to furnish fuel oil for school year 1933-34. Only other bid was submitted by the Basalt Rock Co., Napa, at \$.0125 for commercial oil and \$.0525 for Diesel oil.



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RATES: \$2 to \$4

RAY MAXWELL, Manager

HOTEL PLAZA
 POST STREET AT STOCKTON
 SAN FRANCISCO

U. S. PUBLIC ROADS AWARDS

Following is a tabulation to date of contracts (exceeding \$10,000) awarded by the U. S. Bureau of Public Roads in California and Arizona since September 14, 1933:

Constructing Authority	Contract	Contractor	Bids	Date Awarded
Bur. Public Roads, S. F.	Two bridges, Trinity County	Rolla Arbuckle, Anderson	\$ 12,802.50	Sept. 22
U. S. Bur. Public Roads, S. F.	6.237 mi. grading, Tuolumne Co.	Geo. Pollock, Sacto.	\$143,829.00	Sept. 22
U. S. Bur. Public Roads, S. F.	2.655 mi. grading, Trinity Co.	Granfield, Farrar and Carlin, S. F.	\$ 27,607.50	Sept. 22
U. S. Bur. Public Roads, S. F.	4.513 mi. grading, Trinity Co.	Granfield, Farrar and Carlin, S. F.	\$ 67,918.80	Sept. 25
U. S. Bur. Public Roads, S. F.	Grading, Lava Beds, Modoc Co.	Larsen Bros., Sacto.	\$ 64,070.60	Oct. 3
U. S. Bur. Public Roads, S. F.	Base course, Coconino Co.	New Mexico Const. Co. Inc., Albuquerque	\$124,118.00	Oct. 13
U. S. Bur. Public Roads, S. F.	3.367 mi. grading, Tulare Co.	Mittry Bros., L. A.	\$222,711.25	Oct. 13
U. S. Bur. Public Roads, S. F.	Surfacing, Mariposa County	Granite Const. Co., Watsonville	\$ 71,482.45	Oct. 27
U. S. Bur. Public Roads, S. F.	Surf., Wawona Rd.-Glacier Pt., Yosemite Pk., Mariposa Co.	Granite Construction Co., Watsonville	\$ 71,482.45	Nov. 1
U. S. Bur. Pub. Roads, Phoenix	9.688 miles grading	Haddock & Lindberg, Pasadena, Cal.	\$168,495.00	Sept. 15
U. S. Bur. Pub. Roads, Phoenix	Bridge, Dead Indian Canyon	Vinson & Pringle, Phoenix	\$ 44,938.00	Sept. 29
U. S. Bur. Pub. Roads, Phoenix	9.688 mi. grading, Coconino Co.	Haddock & Lindberg, Pasadena, Cal.	\$168,495.00	Oct. 5
U. S. Bur. Pub. Roads, Phoenix	Railway overpass, Apache and Navajo Counties, Ariz.	D. E. Webb Const. Co. Phoenix	\$ 15,367.00	Oct. 13
U. S. Bur. Pub. Roads, Phoenix	Two bridges, Apache and Navajo Counties, Ariz.	Whiting Brothers, St. Johns, Ariz.	\$ 37,202.00	Oct. 13
U. S. Bur. Pub. Roads, Phoenix	2.947 mi. grading, Coconino Co.	Haddock & Lindberg, Pasadena, Cal.	\$ 42,447.50	Oct. 14
U. S. Bur. Pub. Roads, Phoenix	5.247 mi. grading, Gila Co.	Geo. Rowland, L. A.	\$ 42,782.45	Oct. 14
U. S. Bur. Pub. Roads, Phoenix	6.78 mi., Coconino & Gila Cos.	H. J. Hagen, Globe, Arizona	\$110,079.50	Oct. 28
U. S. Bur. Pub. Roads, Phoenix	10.928 mi. grading, Sec. D, Cameron Desert View App. road	Morrison & Kundsens, Boise, Idaho	\$216,866.90	Oct. 31
U. S. Bur. Pub. Roads, Phoenix	Grade 2.445 mi. Chiricahua National For., Hiway, Cochise Co.	W. A. Rawls, El Paso, Texas	\$114,735.00	Nov. 3

MACHINERY & MATERIAL

Bid calls for construction machinery and materials and miscellaneous equipment and supplies purchased by Federal, State, Municipal and other public agencies.

WAR DEPARTMENT

SACRAMENTO, Cal.—Until November 13, 3 P. M., bids will be received by Capt. J. G. Drinkwater, Dist. Engineer, U. S. Engineer Office, Room 208, Post Office Bldg., Sacramento, for furnishing lumber for delivery to U. S. Engineers, f.o.b. Rio Vista, Calif., as follows:

- (1) 1 piece Locust;
 - (2) 10 pieces Douglas Fir, sel. com.;
 - (3) 31,200 ft. B.M. Douglas Fir, rough, No. 3, common;
 - (4) 1800 ft. B.M. Douglas Fir, rough, No. 1, common.
- Order No. 5858/2125. Specifications obtainable from above office.

HAMILTON FIELD, Marin Co., Cal.—Until Nov. 16, 11 A. M., bids will be received by the Constructing Quartermaster, Hamilton Field, for furnishing and installing linoleum in kitchens and pantries of twelve company officers' quarters. Specifications obtainable from above office and may be seen at the office of Daily Pacific Builder, 547 Mission St.; builders' Exchange, 666 Mission St., San Francisco, or at the office of the Constructing Quartermaster, Fort Mason, San Francisco.

FORT MASON, San Francisco—Bids will be received by the Quartermaster Supply Officer, San Francisco General Depot, Fort Mason, as follows:

CLOTHS., wiping, cotton, white, sterilized (for machinery) Fed. Spec. #DDD-C-506, in 50 or 100 lb. bales, bales wrapped in heavy burlap iron strapped, suitable for export shipment; 3500 lbs. Req. Q.M. 671-57-34; Memo. 2808; Nov. 16, 10 A. M. Specifications obtainable from above office, without charge.

OAKLAND CITY

OAKLAND, Calif.—Until Nov. 16, 9 P. M., bids will be received by City Council, City Hall, Oakland, for approximately 20,000 incandescent lamps for the city.

U. S. FOREST SERVICE

SAN FRANCISCO—Bids will be received by the U. S. Forest Service, Ferry Bldg., San Francisco, until November 13, 2 P. M., for rental by the **TRACTORS**, 5, crawler type rating not less than a Caterpillar "60". **GRADERS**, 5, of 12-ft. blade class, either straight or leaning wheel.

LOS ANGELES CITY

LOS ANGELES, Cal.—Until November 13, 10 A. M., bids will be received by D. P. Nicklin, Purchasing Agent, Los Angeles Water & Power Bureau, 207 S. Broadway, for horizontal centrifugal pumps without bed plates and shaft couplings. Spec. No. 4547.

CALIFORNIA STATE

SACRAMENTO, Cal.—Until Nov. 13, 10 A. M., bids will be received by the Bureau of Purchases, Sacramento, for one pneumatic tired one-man motor grader with scarifier attached, to be delivered to the Division of Highways, Shop 11. Quotation No. 14009; Req. No. 107.

SACRAMENTO, Cal.—Until Nov. 13 12 M., bids will be received by the State Purchasing Agent, J. F. Misphey, for furnishing fuel, burning and lubricating oils, etc., to various State institutions, the Harbor Commission, State Teachers' Colleges, etc.

SACRAMENTO, Cal.—Until Nov. 20, 12 M., bids will be received by the State Purchasing Agent, J. F. Misphey, 323 Capitol Bldg., Sacramento, for gasoline, distillate, kerosene, lubricating oils and greases, etc., for the Division of Highways.

Deliveries will be required in vendor's tank wagons or trucks to Division of Highways various points of operation throughout the State in such quantities and at such times as they may require; delivery to extend over one year period from January 1, 1934, to December 31, 1934. Prices quoted by bidder must be f.o.b. refinery and accompanying such bid shall be a list showing delivery differentials to each and everyone of bidder's sub-stations, or distribution points from which tank wagon or truck deliveries can be made by bidder, throughout the State. This list must also show all the various package differentials in which each product is commonly delivered by bidders.

Prices on gas engine lubricating oils are to be bidder's asphaltum crude oils, first-grade only. Bids on second or third grade asphaltum lubricating oils will not be considered. Bidders must state brand of oil on which they are quoting.

The approximate quantities are as follows:

- (1) 3,500,000 gals. gasoline, first-grade non-premium having an Octane rating of not less than 68 by C.F.R. motor method;
- (2) 100,000 gals. distillate;
- (3) 200,000 gals. kerosene;
- (4) 3000 bbls. gas engine lubricating oils, asphaltum base in light, medium, heavy, special Ford motor oil, special heavy, extra heavy and heavy duty;
- (5) 500 bbls. transmission oil;
- (6) 100 bbls. special gear oil;
- (7) 5 bbls. household lubricant;
- (8) 10 bbls. floor dressing;
- (9) 50 bbls. cleaning solvent (Standard Solvent);
- (10) 15 bbls. red engine oil;
- (11) 200 bbls. ice machine oil, light;
- (11a) 100 bbls. ice machine oil, heavy;
- (12) 30 bbls. castor machine oil;
- (13) 30 bbls. steam cylinder oil;
- (14) 25 bbls. H. P. cylinder oil;
- (15) 5 bbls. dynamo and motor oil;
- (16) 50 bbls. compressor oil;
- (17) 100 bbls. summer black oil;
- (18) 50 bbls. special heavy black oil;
- (19) 3 bbls. thread cutting oil;
- (20) 10 bbls. soluble oil;
- (21) 200 bbls. cup grease No. 0 to 5;
- (22) 50 bbls. gear grease;
- (23) 10 bbls. graphite lubricant;
- (24) 100 bbls. hi-pressure lubricant;
- (25) 20 bbls. pinion grease;
- (26) 15 bbls. universal joint grease;
- (27) 15 bbls. tractor grease;
- (28) 15 bbls. axle grease;
- (29) 25 bbls. waterproof grease;
- (30) 25 bbls. wheel bearing grease;
- (31) 35 bbls. transmission lubricant B;
- (31a) 10 bbls. transmission lubricant BB;
- (31b) 5 bbls. transmission lubricant BBB;
- (32) 10 bbls. fibre grease.

The quantities shown above are in

each instance approximate only and are subject to increase or decrease according to requirements of the Division of Highways.

While quantities shown are in units of gallons, barrels, etc., bidders are especially requested to show, either on "Memorandum of Agreement" or differential sheet, differential prices to apply for various containers in which each product is delivered.

Schedule 18, obtainable at above office.

SAN FRANCISCO CITY

SAN FRANCISCO—Until Nov. 13, 3 P. M., bids will be received by T. A. Brooks, 270 City Hall, to furnish linoleum as required for the term Dec. 1, 1933 to Nov. 30, 1934. Specifications available from above office.

SAN FRANCISCO—Bids will be received until November 13, 3 P. M., by T. A. Brooks, Purchasing Agent, Room 270, City Hall, for furnishing flush valves, spreaders, etc., for the Health and Works Depts., San Francisco. Specifications obtainable from above office on application. Invitation No. 1102.

NAVY DEPARTMENT

BREMERTON, Wash.—Bids will be received by the Supply Officer, Puget Sound Navy Yard, Bremerton, as follows:

ROPE, wire, steel, plow, uncoated, 6x37, regular lay, diameter ¼-in.; 1200 ft. Req. No. NSA-8/4777; Nov. 13.

WIRE, marine-use, voltmeter leads, C. M. per conductor 3838, outside diameter 0.210-in.; 1500 ft. Req. NSA-8/4778; Nov. 13.

STEEL rivet, medium, Lar, round, ¾-in. diameter, 16 ft. 20 ft. long; 18,000 lbs. Req. 167 NSA; Nov. 22.

WASHINGTON, D. C.—Bids will be received by the Bureau of Supplies and Accounts, Navy Department, Washington, D. C., for the following: **PIG IRON**, foundry, for Mare Island, 100 tons. Sch. 1904; Nov. 14.

NICKEL, manganese, rod, 12,000 lbs., for Mare Island. Sch. 1005; Nov. 14.

COPPER-nickel-alloy, bar, 9500 lbs. and 7500 lbs. copper-nickel-alloy shot, and 1300 lbs. copper-nickel-alloy strips, for Mare Island. Sch. 1006; Nov. 14.

BRASS, bar and sheet, approximately 50,000 lbs., for Mare Island. Sch. 1003; Nov. 14.

CORD, portable, 90,000 ft., for Mare Island. Sch. 1024; Nov. 14.

OIL, fuel, bunker, grade B, as required during the period Jan. 1 to June 30, for west coast. Sch. 990; Nov. 17.

WASHINGTON, D. C.—Bids will be received by the Bureau of Supplies and Accounts, Navy Department, Washington, D. C., for the following: **LATHES**, turret, Sch. 991, bids postponed from Oct. 31 to Nov. 14.

MACHINE, drilling and tapping, Sch. 914. Bids postponed from Oct. 31 to Nov. 10.

(Continued on Page 27)

ENGINEERING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

21.—Bridges	30.—Reservoirs and Dams
22.—Dredging, Harbor Works, Excav. Irrigation Proj.	31.—Pipe Lines and Wells
23.—St. Light Systems	32.—Sewers & Sewage Disposal Plants
24.—Machinery and Equipment	33.—Water Works
25.—Railroads	34.—Parks & Playgrounds
26.—Fire Alarm Sys.	35.—Tunnels
27.—Fire Equipment	
28.—Streets & Highways	

21— BRIDGES

BAKERSFIELD, Cal.—City Manager F. W. Nighbert will prepare a report on the probable cost of constructing a pedestrian tunnel under Union Ave. at Seventeenth St., for the protection of Fremont School children. The city council is also considering a similar project for the Hawthorne School.

HUMPHOLDT COUNTY, Cal.—Fred J. Maurer & Son, Inc., 3031 E St., Eureka, at \$7725 awarded contract by the County Board of Supervisors for constructing a new bridge over Ryan Slough.

ARIZONA STATE—Orr & Lashmet, Phoenix, Ariz., at \$12,489.50 (alternate, \$12,813.50) submitted low bid to the Arizona State Highway Commission, Phoenix, Ariz., for bridge construction on the Benson-Douglas Highway, NRH 79-C.

Phoenix-Tempe Stone Co., submitted second low bid at \$12,718.75; alternate same.

SACRAMENTO COUNTY, Cal.—Until November 20, 10 A. M., bids will be received by the Sacramento County Board of Supervisors for repair of a bridge on El Camino Avenue over Arcade Creek, John J. Rooney, County Engineer. Estimated cost, \$2400. Plans and specifications available at above office.

OREGON STATE.—Until Nov. 15, 9 A. M., bids will be received by Oregon State Highway Commission, R. H. Baldock, State Highway Engineer, Multnomah Hotel, Portland, Ore., for bridge construction as follows:

Columbia County

Two bridges on Nehalem Secondary Highway near Mist National Recovery Secondary Project No. NRS 213. The work involves the following approximate quantities:

- (1) 1,350 lin. ft. treated trestle piling;
- (2) 120 cu. yds. concrete;
- (3) 25,000 lbs. metal reinforcement;
- (4) 38 MFBM treated lumber;
- (5) 433 lin. ft. composite hand rail;
- (6) construction of approach embankments.

Douglas County

Winston Bridge over South Umpqua river on Pacific Highway, 7 mi. south of Roseburg, N.R.H. Project No. NRH 78-A. Approximate quantities involve:

- (1) 900 lin. ft. treated piling;
- (2) 750 cu. yds. excavation;
- (3) 1,270 cu. yds. concrete;
- (4) 174,000 lbs. metal reinforcement;
- (5) 750,000 lbs. structural steel;
- (6) 17 MFBM treated lumber;

- (7) 1,100 lin. ft. concrete hand rail;
- (8) 196 lin. ft. composite hand rail.

Gilliam County

Bridge over Rock Creek and six trestles on Six Mile Canyon Section of Wasco-Heppner Secondary Highway near Condon. Project No. NRS 209. Approximate quantities:

- (1) 330 cu. yds. excavation;
- (2) 160 cu. yds. concrete;
- (3) 46 MFBM treated lumber;
- (4) 15,000 lbs. metal reinforcement;
- (5) 23,000 lbs. structural steel;
- (6) 177 lin. ft. trestle superstructure;
- (7) 210 lin. ft. composite hand rail;
- (8) 3,270 cu. yds. embank. construc.

Klamath County

Bridge over Williamson river on Chiloquin Secondary Highway at Chiloquin. Project No. NRS 212. The work involves the following approximate quantities:

- (1) 150 cu. yds. excavation;
- (2) 175 cu. yds. concrete;
- (3) 22,000 lbs. metal reinforcement;
- (4) 63,000 lbs. structural steel;
- (5) 184 lin. ft. concrete hand rail;
- (6) 200 cu. yds. embank. construction.

Malheur County

Bridge over Owyhee river on Jordan Valley Secondary Highway near Nyssa, including 1.18 miles of grading and surfacing of approaches thereto. Project No. NRS 211. The work involves following approximate quantities:

- (1) 1,000 lin. ft. treated trestle piling;
- (2) 10 MFBM treated lumber;
- (3) 233 lin. ft. trestle superstructure;
- (4) 23,000 cu. yds. excavation;
- (5) 60 lin. ft. 24-in. culvert pipe.

Plans and specifications obtainable upon deposit of \$5 for each set at the office of the State Highway Commission, Room 322, State Office Building, Salem.

ALAMEDA CO., Calif.—Plans have been completed for a bridge to replace the Park St. bridge over the Oakland estuary between Oakland and Alameda. The design is a double-leaf, through truss bascule, providing a 44 ft. roadway and two 6 ft. sidewalks. The span will be 288 ft. between trunnions and have an overall length of 433 ft. with approaches. An electrical control system powered by four 65-hp. motors is specified. The estimated cost is \$923,230. An application has been made for Federal Public Works funds to aid in financing. Plans were prepared by County Surveyor Burnett Hamilton and Bruce Jameyson, bridge engineer, Alameda County Courthouse Oakland.

COWLITZ CO., Wash.—Curtis Gardner Co., Portland, Ore., at \$21,942 submitted low bid to W. H. Lynch, District Engineer, U. S. Bureau of Public Roads, 316 New Postoffice Building,

CAPITAL CITY TITLE COMPANY

J. C. PALEN,
Manager

914 Seventh Street
Sacramento :: California

Portland, for constructing a bridge over Coldwater Creek on the St. Helens Highway, Columbia National Forest, in Cowlitz County. Complete bids follow:

- (A) Curtis Gardner Co., Portland, \$21-942.00.
- (B) Kuckenbergh - Wittman Co., Portland, \$22,074.00.
- (C) Oregon - Washington Bridge Co., Toledo, Wash., \$22,369.00.
- (D) Linstrom & Feigenson, Portland, \$22,756.00.
- (E) J. J. Badraun, Portland, \$27,832. Award to low bidder recommended.

VENTURA CO., Cal.—Until Dec. 1, 10 A. M., bids will be received by the Ventura county supervisors for the construction of the Telegraph Road culvert at Palomares Ave. and Day Road, under Cash Contract No. 857, involving:

- (1) 140 ft. 18-in. No. 14 CMP;
- (2) 4 cu. yds. Class A concrete;
- (3) 100 lbs. reinf. steel;
- (4) 2750 sq. ft. oil macadam.

Chas. W. Petit, County Surveyor. L. E. Hollowell, County Clerk.

KINGS COUNTY, Cal.—The Kings County Board of Supervisors has instructed Roy May to draw plans and specifications for a new El Rico bridge south of Corcoran, and also ordered the repair of the second bridge across Cross Creek, east of Guernsey. Estimated cost of the El Rico bridge is \$6,000.

CONTRA COSTA COUNTY, Cal.—Until Nov. 20, 11 A. M., bids will be received by the Contra Costa Board of Supervisors, Martinez, for the construction of a bridge 70 ft. long, 35 ft. wide roadbed and two 5-ft. sidewalks on Tenth St. near Richmond St. The bridge will be of concrete and steel construction, involving:

- (1) 160 lin. ft. steel piles;
- (2) 66,269 lbs. struc. steel;
- (3) 25,015 lbs. reinf. steel;
- (4) 248.4 cu. yds. concrete.

Estimated cost, \$10,248. Specifications obtainable from R. R. Arnold, Road Commissioner, Hall of Records, Martinez, without cost.

VENTURA CO., Calif.—All bids for constructing a reinforced conc. bridge 30 ft. long and 24 ft. wide on Elisee Road in Wheeler Canyon, Contract No. 850, opened Nov. 3, were rejected by the Ventura County Supervisors Nov. 3.

SAN MATEO CO., Cal.—The County of San Mateo has applied to the Federal Administration of Public Works for a loan of \$300,000 and a grant of \$78,000 toward the cost of constructing the Redwood Harbor in San Mateo County. The project includes:

- (1) a timber trestle wharf 500-ft. long and transit shed substructure 300x150 ft., \$190,000.
 - (2) all timber transit shed, \$50,000.
 - (3) 150,000 sq. ft. parking and open storage area and a 40-ft. roadway of oiled pavement, \$26,500.
 - (4) 6000 lin. ft. railroad spur tracks, \$41,500.
 - (5) 20,000 gals. of water supply and fire protection systems, \$5000.
 - (6) dikes and dredging deep water channel and turning basin (30-ft. at lower low water), \$15,000.
- James James, county engineer.

VENTURA CO., Cal.—United Concrete Pipe Corp., 1347 W 208th Street, Los Angeles, at \$1415 submitted low

bid to the Ventura County Supervisors Nov. 2 for constructing a reinforced concrete culvert with spillway drop inlet at the Camarillo Rd. Check Dam, 3 miles east of Camarillo. Contract No. 352.

VENTURA COUNTY, Calif.—United Concrete Pipe Corp., 1347 W 208th St., Los Angeles, at \$1415 awarded contract by the Ventura County Supervisors for constructing a reinforced concrete culvert with spillway drop inlet at the Camarillo Road Check Dam, 3 miles east of Camarillo. Contract No. 352.

TOMBSTONE, Ariz.—Orr & Lashmet, P. O. Box 177, Bisbee, Ariz., at \$12,489.50 submitted low bid to the Arizona State Highway Commission, Phoenix, for the construction of a bridge on the Benson-Douglas Highway, N. R. H. 79-C. The work, which is located about 9 1/2 miles south of Tombstone, consists of the construction of a timber bridge, approaches, and road guard. Complete bids follow:

(A) Orr & Lashmet, Bisbee, Total bid, \$12,489.50; (Alt. 1), \$12,813.50; (Alt. 2) No bid; (Alt. 3) No bid.

(B) Phoenix-Tempe Stone Co., Bisbee, \$12,718.75; \$12,718.75; \$13,733.75; \$13,733.75.

(C) R. H. Martin & Co., Tucson, \$12,991.60; \$13,207.60; no bid on last two alternates.

Quantities follow:

Roadway

- (1) 4 cu. yds. rdwy. excav., unclass.;
- (2) 2405 cu. yds. borrow excav., unclass.;
- (3) 5 hours rolling;
- (4) 12 M. gals. sprinkling (CIP);
- (5) 1080 lin. ft. cable road guard, type A (CIP);

Structures Over 20-ft. Clear Span

- (6) 125 cu. yds. struc. excav., unclass.;
- (7) 50MBM treated timber (CIP);
- (8) 3 MBM untreated timber (CIP);
- (9) 1200 lin. ft. treated timber piles (CIP);
- (10) 120 lin. ft. treated timber piles, cut-off;
- (11) 48 each pile points (CIP);
- (12) 4 each water barrels (CIP);
- (13) lump sum, removal of conc. dip;

Alternate 1 (In Lieu of Item 5)

- (5a) 1080 lin. ft. steel plate road guard (CIP);
- Alt. 2 (In Lieu of Items Nos. 7 and 8)**
- (7a) 57 MBM redwood timber (CIP);
- Alt. 3 (In Lieu of Items Nos. 5, 7, 8)**
- (5a) 1080 lin. ft. steel plate road guard (CIP);
- (7a) 57 MBM redwood timber (CIP).

	(A)	(B)	(C)
(1).....	\$ 1.00	\$ 1.00	\$ 1.00
(2).....	.60	.60	.70
(3).....	5.00	35.00	4.00
(4).....	5.00	5.00	6.00
(5).....	.90	1.10	1.00
(6).....	1.00	1.25	1.50
(7).....	125.00	115.00	125.00
(8).....	100.00	120.00	110.00
(9).....	1.25	1.85	2.25
(10).....	1.6875	1.3875	1.58
(11).....	1.00	2.00	1.50
(12).....	15.00	25.00	12.00
(13).....	300.00	1000.00	350.00
(5a).....	1.20	1.10	1.20
(7a).....	.....	125.00	.....
(5a).....	.....	1.10	.....
(7a).....	.....	125.00	.....

KERN COUNTY, Calif.—Until Nov. 29, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for constructing six timber bridges between Junction with Route 140, and Junction with Route 58, having a total length of approximately 494 feet, involving:

- (1) 1 lot exist. timber bridges to be removed and disposed of;
- (2) 500 cu. yds. struc. excav.;
- (3) 6,400 lin. ft. furnish redwood piles including test piles;
- (4) 249 each driving redwood piles, including test piles;

- (5) 188 MFBM redwood timber dense select all-heart struc. grade;
- (6) 42 MFBM redwood timber select all-heart structural grade;
- (7) 1 lot misc. items of work.

Plans and specifications obtainable at above office, and are on file at the offices of the district engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

SAN LUIS OBISPO, Cal.—Theo. M. Maino, 1424 Mill St., San Luis Obispo at \$1,248 awarded contract by State Highway Commission, San Luis Obispo, for the widening of a reinforced concrete bridge in San Luis Obispo County at Sta. 764 plus 46.5, south city limits of San Luis Obispo. Complete bids published Oct. 1.

22—DREDGING, HARBOR WORKS, EXCAVATION

SACRAMENTO, Cal.—Until November 16, 3 P. M., bids will be received at the U. S. Engineer Office, War Department, 208 Post Office Bldg., Sacramento, for dredging 2,780,000 cu. yds. place measurement from an irregular shaped area in the Sacramento River flood channel and Horseshoe cut with a maximum length of about 6600 ft. and a maximum width of about 2000 ft. The work is located at Horseshoe Cut, about 4 miles downstream from the town of Rio Vista, Calif. Specifications No. 5611. Drawings obtainable from above office. Captain J. G. Drinkwater, District Engineer.

PORT ALLEN, T. H.—Hawaiian Dredging Co., Honolulu, at \$317,548 submitted low bid to the U. S. Engineer, Port Allen, for dredging the harbor at Port Allen, involving the removal of 824,800 cu. yds. of material. Bids held under advisement.

SEATTLE, Wash.—No bids were received by the Seattle Board of Public Works, Room 511, County-City Bldg., for the construction of a seawall and improvement of Railroad Ave. from Madison St. to Bay St.

PEARL HARBOR, T. H.—Following have procured plans for the purpose of submitting bids to the U. S. Bureau of Yards and Docks, Navy Department, Washington, D. C., on Dec. 13 for dredging 2,900,000 cu. yds. at Pearl Harbor. Specification No. 7337: Standard Dredging Co., Central Bldg., Los Angeles, and 80 Broad St., New York City.

Puget Sound Bridge & Dredge Co., 2929 16th Ave. S. W., Seattle, Wash. American Factors, Matson Building, San Francisco.

NOGALES, Ariz.—An allotment of \$433,000 to the International Boundary Commission, State Department, for the construction of an international flood control waterway at Nogales and improvement of existing channels to carry off flood water in that region, is announced by the Public Works Administration.

The allotment provides for the completion of the American section of this project. The Mexican Government has not yet made definite appropriation for its share but it is contemplated that such an appropriation will be made in the near future.

Plans have been developed by the International Boundary Commission and the project can be completed by January 1, 1935.

PORT ALLEN, T. H.—Guy Atkinson, Russ Bldg., San Francisco, at \$715,520 submitted low bid to U. S. Engineer, Port Allen, for constructing a breakwater at Port Allen, in-

volving the placing of 208,000 tons of rock. Only other bid received submitted by Kauai Railway Co., Port Allen, at \$759,200.

Bids held under advisement.

VENTURA CO., Cal.—Until Dec. 1, 10 A. M., bids will be received by the Ventura county supervisors for the construction of protection work along the Santa Clara river at Bardsdale and South Mountain Road, involving the following quantities: 3000 lin. ft. steel jetty. Cash contract No. 856.

Chas. W. Petit, County Surveyor, L. E. Hollowell, County Clerk.

SACRAMENTO, Calif.—A blue line print of the title sheet of the plans showing the general location of work will be furnished free with the Special Provisions. Blue line prints of the layout and bridge detail sheets will be furnished at cost and become the property of the purchaser.

The following table shows the cost of such blue line prints for the work now advertised, bids to be opened November 15:

Alameda Co., East Bay Bridge, Approach, dredger fill and rock wall, (Plans) No. of Sheets, 16; Cost, \$1.60; (Cross-Sections) No. of Sheets, 37, Cost, \$6.00; Total \$7.60.

Checks for the above should be made payable to the Department of Public Works, Division of Highways, and should accompany the order to this office.

PEARL HARBOR, T. H.—All bids received October 31 for an extension to the seaplane beach have been rejected (Spec. 7437) and new bids will be received Nov. 15, by the Bureau of Yards & Docks, Navy Dept., Washington, D. C., under the same specification number.

Bids received Oct. 31, are:

R. E. Finlayson, Honolulu (error).....	\$27,990
Hawaiian Contracting Co.....	59,035
R. E. Wooley.....	87,570

SACRAMENTO, Cal.—Pacific Coast Const. Co., Sacramento, at \$5,757.00 awarded contract by U. S. Engineer Office, Capt. J. G. Drinkwater, District Engineer, California Fruit Bldg., Sacramento, for constructing four new retards and four bankheads along the bank of the Yuba river, near Simpson Lane Bridge, about one-half mile east of Marysville, Yuba County.

YUMA, Ariz.—Until December 4, 10 A. M., bids will be received by the Bureau of Reclamation, Yuma, Ariz., Elwood Mead, Commissioner, for earthwork excavation, All-American Canal, station 1130 to station 1340, Boulder Canyon Project, Arizona-California-Nevada. The work is located from 6 to 8 miles west of Yuma, Arizona, and involves:

- (1) 4,105,000 cu. yds. common excav.;
- (2) 484,000 cu. yds. rock excavation.

Specifications No. 554. No charge for specifications to prospective bidders, to others, 50c, not returnable. Copies obtainable at the above office, and at the Bureau of Reclamation, Denver, Colo., and Washington, D. C.

SAN DIEGO, Cal.—Geo. Hess, 434 S. Westmoreland Ave., Los Angeles, at \$0.72 per cu. yd., total \$46,800, submitted low bid to the Public Works Officer, Naval Operating Base, 11th Naval District, San Diego, Nov. 7, for dredging for floating dry dock at the Navy Operating Base (Destroyer Base), San Diego. Spec. No. 6309. The work includes the dredging of areas (approximately 65,000 cu. yds.) and the construction of a timber bulkhead (approx. 865 ft. long); all to provide and maintain a berth for a floating dry dock. The other bids were:

Standard Dredging Co., \$0.724 per cu. yd.
Sparkes & McClellan, \$.090 per cu. yd.
San Francisco Bridge Co., \$1.25 per cu. yd.

SAN RAFAEL, Cal.—Bids received October 23, by the Constructing Quartermaster, Hamilton Field, San Rafael, for dredging a channel from the bay to the boat-house site have been rejected. The work will be readvertised shortly under Specifications, including an alternate bid for use of clam shell equipment.

SACRAMENTO, Calif.—Daniel Contracting Co., 503 Market Street, San Francisco, at \$1.60 per ton, total \$48,000 submitted low bid to the District Engineer, U. S. Engineer Office, Sacramento, for furnishing and placing approximately 30,000 tons of rip-rap stone along the banks of the Sacramento river at various points between Cache Slough and Collinsville, Spec. No. 5574. Complete bids follow:

Daniel Contr. Co., San Francisco, per ton \$1.60; total, \$48,000.
Hutchinson Co., Oakland, \$1.62; \$48,600.00.
Blake Bros. Co., San Francisco, \$1.68 \$50,400.
Healy-Tibbitts Const. Co. San Francisco, \$1.70; \$51,000.
Basalt Rock Co., Napa, \$1.75; \$52,500.00.
Government estimate, \$1.6287; \$48,860.00.

WRANGELL NARROWS, Alaska.—Puget Sound Bridge & Dredging Co., 2929 16th St. SW, Seattle, Wash., at \$131,539 awarded contract by the U. S. Engineer, Seattle, for dredging and rock removal in Wrangell Narrows.

23—IRRIGATION PROJ.

GRIMES, Colusa Co., Cal.—Reclamation District No. 108, Jease Poundstone, President, has applied to the Federal Public Works Administration for a loan of \$25,000 and a grant of \$7500 to finance the construction and repairs of 199,968 lin. ft. canal ditches and structures. Estimated cost, \$33,000.

SACRAMENTO, Calif.—Permits to appropriate water issued by the Department of Public Works, Division of Water Resources during the month of October, 1933, follow:

Permit 4196, Application 7173 (Humboldt County) issued to Bennie Kimsey, Sayler, Oct. 3, for 50 cu. ft. per sec. from Spike creek, Bee Tree creek Big Lake, Ammon creek, White Sides and Bear Trap creek, for mining and domestic purposes. Estimated cost, \$50,000.

Per. 4197, App. 7554 (Trinity Co.) Wm. Clarke and J. A. Tyson, Weaver-ville, Oct. 3, for 3.0 cu. ft. per sec. from Bear Gulch, for mining and domestic purposes.

Per. 4198, App. 7284 (Tehama Co.) H. H. Hammer, Red Bluff, Oct. 3, for 3 c.f.s. from South Fork of Cottonwood creek, for power purposes. Est. cost, \$100.

Per. 4199, App. 7591 (Eldorado Co.) W. M. Miller and L. Huntley, Auburn, Oct. 3, for 6.001 cu. ft. per sec. from Lake Tahoe, for use for domestic purposes.

Per. 4200, App. 7563 (Plumas Co.) B. F. Johnston, Strawberry Valley, Oct. 6, for 2 c.f.s. from an unnamed stream, for mining purposes.

Per. 4201, App. 7514 (San Diego Co.) A. M. Proctor and Mary Moore, Proctor, Chula Vista, Oct. 6, for 1 c.f.s. from two wells in Pringle Canyon, for power purposes. Est. cost, \$2500.

Per. 4202, App. 7643 (Siskiyou Co.) Wells Fargo Bank & Union Trust Co.,

San Francisco, Oct. 10, for 0.012 cu. ft. per sec. from unnamed spring, for domestic purposes. Est. cost, \$400.

Per. 4203, App. 7618 (San Diego Co.) Arthur Blakeboro, Whittier, Oct. 10, for 0.5 c.f.s. from Buena creek, for irrigation and domestic purposes. Est. cost, \$200.

Per. 4204, App. 7645 (Eldorado Co.) E. C. Harlin, Placerville, Oct. 17, for 3 c.f.s. from Camp creek, for mining and domestic purposes.

Per. 4205, App. 7576 (San Bernardino Co.) J. P. Johnson, Cajon, Oct. 20, for 0.05 c.f.s. from an unnamed spring, for domestic purposes. Est. cost, \$235.

Per. 4206, App. 7596 (Siskiyou Co.) Silas S. Clark, Happy Camp, Oct. 26, for 1.0 c.f.s. from Buck Horn creek, for mining purposes.

Per. 4207, App. 7647 (Eldorado Co.) Fred H. Abbott, et al. Davis, Oct. 26, for 1600 gals. per day from Rocky Canyon, for domestic purposes.

Per. 4208, App. 7282 (Siskiyou Co.) Willis W. Quigley, Walker, Oct. 26, for 1.0 c.f.s. from Beaver Creek, for power purposes.

Per. 4209, App. 7629 (Eldorado Co.) W. D. Wright, Sacramento, Oct. 27, 200 gals. per day from an unnamed stream, for domestic purposes. Est. cost, \$150.

Per. 4210, App. 7632 (Trinity Co.) Jas. C. Parker, Del Loma, Oct. 27, for 0.12 c.f.s. from Lower Sandy Bar creek, for irrigation and domestic purposes.

Per. 4211, App. 7667 (San Joaquin Co.) B. L. Ratto, Stockton, Oct. 27, for 1.60 c.f.s. from Middle river, for irrigation purposes. Est. cost \$2500.

Per. 4212, App. 7604 (Siskiyou Co.) Steve S. Greenhalgh, Happy Camp, Oct. 27, for 3.0 c.f.s. from Wilson creek for mining purposes.

Per. 4213, App. 7526 (Plumas Co.) University of California, Berkeley, October 27, for 5000 gals. per day from Schneider creek, for domestic and fire protection purposes. Est. cost, \$250.

IMPERIAL COUNTY, Calif.—Commissioner Elwood Mead, Bureau of Reclamation, has announced that the department expects to have plans for the All-American Canal ready so that bids may be advertised prior to Dec. 1. The first section to be built under the \$6,000,000 federal allotment will be a total of 20 miles, about 15 miles to be built between the site of the proposed diversion dam, 18 miles up the Colorado river from Yuma and Pilot Knob and 5 miles from that point toward the Imperial Valley. Work on this section will probably be under way by January 1. Construction of the diversion dam, six miles above Laguna reservoir, will be started in about one year. This phase of the project will be delayed until Hoover Dam has reached a height of about 350 ft., which will permit storing of water and simplify the downstream work. Building of a desilting basin, necessary to prevent fouling of ditches and eliminate highly expensive silt removal throughout the system, probably will be delayed about a year. This feature of the project, still under examination by reclamation engineers, who are studying various means of removing waterborne mud and dirt, will be situated adjacent to the dam.

VERDE RIVER PROJECT, Ariz.—An initial allotment of \$4,000,000 with which to start construction of the Verde River Irrigation & Power Project in Arizona was announced Nov. 3 by the Federal Public Works Administration at Washington.

The project, which was originally estimated to cost \$18,912,000, involves construction of several dams, canals and other works designated to put un-

der cultivation about 80,000 acres of land. The project is self-liquidating. The completed project will require power plants, sewers, street improvements, bridges, hospitals and miscellaneous buildings.

A contract for the construction of a dam 265 ft. high across the Verde River at Camp Verde was awarded to Foley Bros., Inc., St. Paul, Minn., last May at \$3,190,591. The contract was contingent upon receiving government funds to finance the work.

The office of the Verde River Irrigation and Power District is located at 802 Security Bldg., Phoenix, Burt C. Clingan, President; W. H. Bartlett, Secretary.

ONTARIO, Ore.—Following are the low bids submitted to the Bureau of Reclamation, Ontario, Ore., Elwood Mead, Commissioner, for the construction of canal lining, Tunnel No. 4, and structures, North Canal, Station 0 (Tunnel Canyon) to Sta. 513 (Mitchell Butte) Mitchell Butte Division, Cwy-see Project, Oregon-Idaho:

Schedules 1 and 2: Morrison-Knudsen Co., Boise, Ida., at \$106,885.

Schedules 3 and 5: John Klug, Nyssa Ore., at \$31,766.

Schedule 4: General Const. Co., Seattle, at \$98,007.

R. J. Newell, project engineer.

APPLICATIONS FILED

SACRAMENTO—Applications for permit to appropriate water filed with the Department of Public Works, Division of Water Resources, during the month of October, 1933, follow:

7696 (Sutter County) California Trust & Savings Bank, Sacramento, Calif., for 18 c.f.s. from Sacramento River tributary to Suisun Bay, for irrigation purposes. (1420 acres. Estimated cost \$1000.

7697 (Humboldt County) Daniel E. Young, Willow Creek, Calif., for 40 c.f.s. from China Creek tributary to Trinity River for mining purposes. Estimated cost, \$8000.

7698 (Trinity County) John A. Wellensgard, Hayfork, Calif., for 12 c.f.s. from Bear Creek, tributary to Trinity River for mining purposes. Estimated cost \$350.

7699 (Tehama County) C. W. Griffin, Bend, Calif., for 1.75 c.f.s. from Sacramento River, tributary to Suisun Bay for irrigation and domestic purposes. 140 acres).

7700 (El Dorado County) Arthur Argiewicz, Mill Valley, Calif., for 400 gallons per day from unnamed spring, tributary to South Fork American River for domestic purposes. Estimated cost \$140.

7701 (San Bernardino County) Bert Bernard and E. R. Richardson, % Isaac Jones, Attorney, Ontario, Calif., for 1 c.f.s. and 1 ac. ft. per annum from spring in Alder Canyon, tributary to Saw-Pit Canyon for industrial and domestic purposes. Estimated cost \$500.

7702 (Santa Clara County) Pacheco Pass Water District, Hollister, Calif., for 50 c.f.s. from Dos Picachos Creek and 5000 ac. ft. per annum from North and South Forks of Pacheco Creek, tributary to Pajaro River for irrigation and domestic purposes. (9614 acres). Estimated cost, \$175,000.

7703 (Humboldt County) Anna M. Sullivan, Manx Hotel, San Francisco, Calif., for 1 c.f.s. from two creeks tributary to Pacific Ocean for municipal purposes. Estimated cost \$1500.

7704 (Nevada County) Harmon M. Stark, Vallejo, Calif., for 3 c.f.s. from unnamed stream, tributary to Spring Creek for mining and domestic purposes.

7705 (Sierra County) George N. MacRae, 2307 26th Ave., San Francisco, Calif., for 15 c.f.s. from right and

left branches of Cole's Mill Creek, tributary to Oregon Creek for mining purposes.

7706 (Trinity County) Frank Reed and Brent Clark, Minersville, Calif., for 3 c. f. s. from Mule Creek, tributary to Stewarts Fork of Trinity River for mining and domestic purposes.

7707 (Mono County) John R. Lang et al, Reno, Nevada, for 1000 gals. per day from Tamarack Creek, tributary to Lower Twin Laks.

7708 (Sacramento County) Mentor Ebyre, Johnsville, Calif., for 3 c.f.s. from American River, for mining purposes. Estimated cost \$3000.

7709 (Sierra County) W. R. MacKenzie, 233 So. Poinsettia Place, Los Angeles, Calif., for 25 c.f.s. from Good-year Creek, tributary to North Fork Yuba River for mining and domestic purposes.

7710 (Sierra County) W. R. MacKenzie, 328 So. Poinsettia Place, Los Angeles, Calif., for 30 c.f.s. from Sawmill Ravine and a tunnel, tributary to North Fork Yuba River for mining and domestic purposes.

7711 (Butte County) Division of Highways, Sacramento, Calif., for 1000 gallons per day from a spring tributary to Dark Canyon for recreational purposes.

7712 (Sierra County) Chas. G. Johnson, Downieville, Calif., for 3 c.f.s. from Canyon Creek, tributary to Yuba River for power purposes (27.2 T.H.P. to be delivered). Estimated cost, \$500.

7713 (Humboldt County) Mary Pieferini et al, Arcata, Calif., for 2 c.f.s. from Mad River, tributary to Pacific Ocean for irrigation purposes (50 acres.)

7714 (El Dorado County) B. W. Stone, San Francisco, Calif., for 500 c.f.s. and 125,000 ac. ft. per annum from Rubicon River and other sources for municipal purposes.

7715 (Riverside County) W. H. Wall, San Jacinto, Calif., for 2 c.f.s. and 1 ac. ft. per annum from unnamed spring tributary to Glenoak Valley for irrigation and domestic purposes. (12 acres). Estimated cost \$250.

7716 (Sierra County) L. D. Sweet, Monterey, Calif., for 2½ c.f.s. from Nigger Creek Tributary to South Fork North Fork Yuba River for mining and domestic purposes. Estimated cost \$300.

7717 (Mariposa County) Karl M. Ladewig, Mariposa, Calif., for 3 c.f.s. from seven unnamed gulches tributary to Lyons Gulch for mining and domestic purposes.

7718 (Mariposa County) George F. Cuthbert, 900 Victoria Ave., Los Angeles, Calif., for 80 c.f.s. from South Fork Merced River, tributary to Merced River for power purposes. Estimated cost \$6000.

7719 (Placer County) J. H. Stevens, Sacramento, Calif., for 115 c.f.s. and 16,000 ac ft. per annum from streams tributary to North Fork of North Fork of American River for mining purposes.

7720 (San Benito and Santa Clara Counties) Pacheco Pass Water Dist., Hollister, Calif., for 50 c.f.s. and 16,000 ac. ft. per annum from Dos Pichachos Creek and North and South Forks Pacheco Creeks(tributary to Pajaro River for irrigation and domestic purposes. (9614 acres). Estimated cost \$200,000.

7721 (Mono County) Sierra Land and Water Company, Los Angeles, Calif., for 150 c.f.s. and 15,000 ac ft. per annum from Leving and Rush Creeks, tributary to Mono Lake for irrigation and domestic purposes (12,000 acres).

7722 (Modoc County) Big Valley Irrigation District, Bieber, Calif., for 15,300 ac. ft. per annum from Pit River, tributary to Sacramento River

for irrigation purposes. (12,430 acres). Estimated cost \$251,000.

7723 (Placer County) Frank O'Brien, 2600 Montana St., Oakland, Calif., for 500 c.f.s. and 400,000 ac. ft. per annum from North Fork American River, tributary to Sacramento River for irrigation purposes (175,000 acres).

7724 (Placer County) L. Frank O'Brien, Oakland, Calif., for 500 c.f.s. and 400,000 ac. ft. per annum from North Fork of American River, tributary to Sacramento River, for municipal purposes in various cities and towns in Butte, Colusa, Contra Costa, Glenn, Napa, Placer, San Joaquin, Sacramento, Solano, Sutter, Yolo and Yuba Counties.

7725 (Placer County) L. Frank O'Brien, Oakland, Calif., for 200 c.f.s. and 150,000 ac. ft. per annum from Mid Fork American River, tributary to Sacramento River for power purposes.

7726 (El Dorado County), L. Frank O'Brien, Oakland, Calif., for 500 c.f.s. and 125,000 ac ft. per annum from Rubicon River and other tributaries to American River for power purposes.

7727 (Siskiyou County) J. J. Suggs and Henry F. Swanson, Gottleville, Calif., for 1 c.f.s. from Beaver Creek, tributary to Klamath River for mining purposes.

7728 (Amador County) Paul H. Norboe, Sacramento, Calif., for 225,000 ac. ft. per annum from Cosumnes River, tributary to Mokelumne River for power purposes (11,930 T.H.P. to be developed). Estimated cost, \$3375.

7729 (Amador County) Paul H. Norboe, Sacramento, Calif., for 225,000 ac. per annum from Cosumnes River, tributary to Mokelumne River for municipal purposes in Sacramento Municipal Utility District. Estimated cost, \$5,270,000.

SACRAMENTO, Cal.—J. W. Hoopes 5140 14th Ave., Rt. 4, Box 421, Sacramento, at \$11,265 awarded contract by District Engineer, Dept. of Public Works, Division of Highways, Marysville, for excavating and lining with gunite, 0.7 miles of irrigation ditch.

24—STREET LIGHTING SYSTEMS

LOS ANGELES, Calif.—Walker and Martin, 1241 E Florence, Los Angeles, at \$14,722 were awarded contract by Los Angeles Board of Public Works November 1 for constructing an ornamental lighting system in streets in the 32nd St. and University Ave. Imp. Dist., consisting of 51 Union Metal No. 8705 posts of pressed steel ornamental lighting, equipped with G. E. 124 lighting units, as per special plan No. B-1724 and standard plan No. B-1723. Bids were opened Oct. 25.

HAMILTON FIELD, Marh Co., Cal.—Until Nov. 22, 11 A. M., bids will be received by Constructing Quartermaster, Hamilton Field, for construction of extensions to electrical distribution and street lighting system at Hamilton Field. Plans and specifications obtainable from above office upon deposit of \$5.00. Copy of plans and specifications may be seen at the Builders' Exchange, 666 Mission St., San Francisco, or at the office of the Constructing Quartermaster, Ft. Mason, San Francisco.

25—MACHINERY AND EQUIPMENT

BIDS WANTED—All bid calls formerly published under this heading now appear under the special heading "Machinery and Materials."

SAN FRANCISCO—Following bids received by the U. S. Forest Service, Ferry Bldg., for the rental of one gasoline engine-powered double drum

holst, to be delivered f.o.b. Government Island, Oakland.

(All bids on a monthly basis).
E. R. Bacon Co., San Francisco, (used) \$60; Alt. (20 hp.) (new), \$120.
Kratz & McClelland, Inc., 1st 4 mo., \$85; additional months (new), \$80.
Western Machinery Co., San Francisco (new), \$125.
Harron, Rickard & McCone, San Francisco (new), \$145.
Tieslau Bros., Berkeley, \$165.
All bids held under advisement.

BAKERSFIELD, Cal.—The City Council of Bakersfield, will call for bids shortly on a new sedan for the police department. 25

WASHOE COUNTY, Nevada—Collier Tractor & Equipment Co., at \$2724 awarded contract for furnishing a Caterpillar tractor to the Washoe County road department. Complete bids follow:

R. D. Jenkins, Reno, McCormick-Deering Tractor, \$2685.
R. E. Powell, Sacramento, Cletrac Tractor, \$2500.
Durham Chevrolet Co., Allis-Chalmers Tractor, \$2620.
Collier Tractor & Equipment Co., Caterpillar Tractor, \$2724.

LOS ANGELES, Cal.—The Los Angeles Water & Power Commission has authorized A. J. Holm, Los Angeles Purchasing Agent, to award a contract to the Pelton Water Wheel Co., 2929 19th St., San Francisco, at an estimated total of \$7272, for furnishing one testing machine under Spec. No. 3237. Bids were opened October 24.

PASADENA, Calif.—Contracts for valves, wyes, manifolds, etc., for use on the Pine Canyon Dam were awarded by the Pasadena City Directors Oct. 31, as follows:

Schedule No. 1 to Southwest Welding & Mfg. Co., at \$1184.36 for steel plate manifold and wye.

Schedule No. 2 to Chapman Valve Mfg. Co., Los Angeles, at \$2424, for two 30-in. extra heavy gate valves.

Schedule No. 3 to Pelton Water Wheel Co., San Francisco, at \$6454 for two 30x24-in. needle valves.

Schedule No. 4 to Chapman Valve Mfg. Co., at \$3244 for two 24-in. heavy gate valves with ring followers.

Schedule No. 5 to the Vernon Tool Co., Los Angeles at \$1335 for cast steel fittings and bolts.

The bids were opened October 24.

LOS ANGELES, Cal.—Bids for furnishing rental of one 1½-cu. yd. dipper type gas shovel capable of operating through ¾ or full circle, were received by the U. S. Forest Service, 751 S Figueroa St., Nov. 4. Bidders to quote on monthly rentals as follows:

Kuhn Bros., \$285 per month, Fordson model.

Garlinghouse Bros., (a) \$350; (b) \$300, type C Insley.

Leigh M. Railsbach, (a) \$625; (h) \$625, single shift model, and \$150 per month for double shift.

Request No. M.J.P. 106.

LOS ANGELES, Cal.—Pelton Water Wheel Co., 2929 19th St., San Francisco, at \$7272 awarded contract by A. J. Holm, City Purchasing Agent, for furnishing Water & Power Dept. with one Universal hydraulic testing machine under Spec. No. 3237. Bids were opened Oct. 24.

SAN FRANCISCO.—Seven identical bids at \$190 each for 60 rock air drills were received by the U. S. Forest Service, Ferry Bldg., from the following: Gardner-Denver Co., Sullivan Machinery Co., Rlx Co., Edward R. Bacon Co., Chicago Pneumatic Tool Co., and Ingersoll-Rand Co.

PUGET SOUND, Wash.—Following bids received by the Bureau of Yards & Docks, Navy Dept., Washington, D. C., for furnishing generator for the Navy Yard, Puget Sound, under Spec. 7485. Bids were taken as follows:

- (1) work complete;
 - (2) per day for engineer's services.
- The bids follow:
- General Electric Co., Schenectady, N. Y., (1) \$23,080; (2) \$25.
- Electric Machy. Mfg. Co., Minneapolis, Minn., (1) \$24,630; (2) \$25.
- Allis-Chalmers Mfg. Co., Milwaukee Wis., (1) \$24,630; (2) \$25.
- Crocker-Wheeler Electric Mfg. Co., Ampere, N. J., (1) \$24,630; (2) \$25.
- Ideal Elec. & Mfg. Co., Mansfield, Ohio, (1) \$21,975; (2) \$10.
- Elliott Co., Washington, (1) \$24,630; (2) \$25.
- Westinghouse Electric & Mfg. Co., Washington, (1) \$23,305; (2) \$25.

BERKELEY, Alameda Co., Calif.—Graham-Paige Motor Corp., 2471 Shattuck Ave., Berkeley, at \$1792.76 were awarded contract by the Berkeley city council for furnishing two coupes for the Assistant Fire Chiefs of the city of Berkeley. Complete bids follow:

J. E. French, Berkeley.....\$1885
 Chester N. Weaver, Berkeley..... 2060
 Hupmobile Co. 2552

SAN MATEO, Cal.—H. E. Casey, Woodside Way and Peninsula Ave., San Mateo, at \$53.50 per day awarded contract by County Supervisors for rental of one steam shovel for use on mile and one-quarter development of the county highway through Memorial Park.

SAN FRANCISCO — Air & Water Conditioning Co., 538 Howard Street, San Francisco, at \$8.00 each, submitted low bid to the U. S. Forest Service, Ferry Bldg., for furnishing 75 lubricators, air line, complete, for servicing jack hammers. Following is a complete list of bidders:

Air & Water Conditioning Co., San Francisco, \$8.00 each.
 Gardner-Denver Co., San Francisco, \$8.75 each.
 Edward P. Bacon Co., San Francisco, \$8.75 each.
 Ingersoll-Rand Co., San Francisco, \$8.75 each.
 Arnold Lubricator, Berkeley, \$9.00 each
 All bids held under advisement.

SACRAMENTO, Calif.—Union Machine Co., 934 Brannan St., San Francisco, at \$898.50 submitted low bid to the U. S. District Engineer, Capt. J. G. Drinkwater, Sacramento, for furnishing one suction pipe gate valve with rubber seats. Complete bids follow:

Union Machine Co., S. F.....\$ 898.50
 General Engr. & Drydock Co., San Francisco 1086.00
 T. H. Smith Mach Co., S. F..... 1450.00
 Neptune Machine Co., S. F..... 1773.00

26—RAILROADS

FORT MASON, Cal.—Eaton & Smith 715 Ocean Ave., at \$30,163 submitted low bid to the Constructing Quartermaster, Fort Mason, for relaying and reconditioning railroad tracks in the transport dock area in Fort Mason. Only other bid submitted, that of Fay Improvement Co., at \$30,200. Complete bids follow:

- (1) project complete;
- (2) If installation of guard rail for track on east apron is omitted, deduct;
- (3) If work for section of trackage between points "D" and "G" is omitted, deduct;
- (4) If work for section of trackage between points "B" and "N" is omitted, deduct.

(A) Eaton & Smith.				
(B) Fay Improvement Co.				
	(1)	(2)	(3)	(4)
(A).....	\$30,163	\$ 987	\$4958	\$5871
(B).....	30,200	1565	4890	5380

28—FIRE EQUIPMENT

GUSTINE, Calif.—Seagrave Corp., Chronicle Bldg., San Francisco, at \$6-230 awarded contract by the Board of Trustees, Gustine, for furnishing one 500-gallon capacity combination pumping engine and hose car, with 100-gallon capacity water tank, and equipment for the Fire Dept. of Gustine.

Complete bids published Nov. 1.

SANTA CRUZ, Cal.—Santa Cruz City Council plans a special election to permit transfer of \$10,000 from the Water Dept. Fund for use in purchasing new equipment and erecting a new fire station. R. S. Tait, Chief of the Fire Dept. and Superintendent of the Water Dept.

30—RESERVOIRS & DAMS

EUREKA, Humboldt Co., Cal.—Eureka City Council has set Dec. 19 as the date for a special election to vote on a proposal for issuing \$925,000 in revenue bonds to finance a proposed water supply system. The estimated cost of the project is \$1,134,000. It is planned to ask a Federal grant to make up the difference between the cost and the amount of the bond issue. The project involves construction of a dam on the Mad River, a conduit system and terminal reservoir. C. C. Kennedy, Call Bldg., San Francisco, consulting engineer.

SPOKANE, Wash.—Until November 20, 10 A. M., bids will be received by the Bureau of Reclamation, % Columbia Basin Commission, Civic Bldg., Spokane, Wash., for excavation of overburden at the Columbia River dam site, Columbia Basin Project, Wash., involving:

- (1) 2,000,000 cu. yds. common excav.;
- (2) 40,000 cu. yds. rock excavation;
- (3) 1,000,000 sta. yds. overhaul.

The work is located about 20 miles northwest of Almira, Wash. Specifications No. 557 and plans obtainable from the Bureau of Reclamation at Almira, Wash., Denver, Colo., and Washington, D. C., with out charge to prospective bidders. To others, \$1. not returnable. Elwood Mead, Commissioner.

SAN FRANCISCO — A bond issue providing \$3,500,000 for increasing the height of O'Shaughnessy Dam 85.5 ft. to increase the storage capacity in the Hetch Hetchy Reservoir was carried at the municipal election Nov. 7, by a vote of 101,548 to 44,842.

BONNEVILLE, Ore.—General Construction Co., 3840 Iowa St., Seattle, at \$668,500.00 (as previously reported) awarded contract by U. S. District Engineer, 306 Customhouse, Portland, for excavation at the Bonneville Dam site. Complete bids follow:

- (A) General Const. Co., Seattle, \$668,500.00
- (B) Utah Const. Co., and Morrison-Knudsen Co., Boise, Ida., \$773,500.
- (C) Guy F. Atkinson Co., Portland, \$1,228,500.

Unit quantities follow:

- Inside Cofferdam**
- (1) 180,000 cu. yds. class 1 common excavation;
 - (2) 60,000 cu. yds. Class 2 rock excavation;
 - (3) 30,000 cu. yds. Class 1 common excavation;
 - (4) 20,000 cu. yds. Class 2 rock excavation;
 - (5) 40,000 cu. yds. Class 1 common excavation;

- (6) 40,000 cu. yds. Class 2 rock excavation;
- (7) 20,000 cu. yds. Class 1 common excavation;
- (8) 10,000 cu. yds. Class 2 rock excavation;
- (9) 15,000 cu. yds. Class 2 rock excavation;

Outside Cofferdam

- (10) 40,000 cu. yds. Class 1 common excavation;
- (11) 30,000 cu. yds. Class 2 rock excavation;
- (12) 10,000 cu. yds. Class 1 common excavation;
- (13) 25,000 cu. yds. Class 2 rock excavation;

Other Work

- (14) 20,000 cu. yds. borrow for coffer dam;
- (15) 130,000 cu. yds. fill for coffer dam
- (16) 100,000 cu. yds. fill in levee;
- (17) 10 acres clear and gurb;
- (18) 2,000 acre-ft. pump from foundation excav.;
- (19) 10,000 acre-ft. pump from coffer dam;
- (20) 2,000,000 sta. yds. ovbrhaul.

	(A)	(B)	(C)
(1).....	\$.60	\$.70	\$ 1.00
(2).....	1.00	1.20	1.25
(3).....	.60	.70	1.00
(4).....	1.00	1.20	1.25
(5).....	1.00	.90	2.00
(6).....	1.50	2.50	2.00
(7).....	1.00	.70	1.25
(8).....	1.50	1.20	1.50
(9).....	5.00	6.00	10.00
(10).....	.60	.70	1.00
(11).....	1.00	1.20	1.25
(12).....	1.00	.70	3.00
(13).....	2.00	2.50	5.00
(14).....	.75	.50	1.00
(15).....	.15	.30	1.00
(16).....	.30	.20	.25
(17).....	200.00	400.00	100.00
(18).....	6.00	6.00	15.00
(19).....	4.00	3.00	10.00
(20).....	.01	.015	.015

SACRAMENTO, Cal.—Sierra Mountain Water Corp., 892 Mills Bldg., San Francisco, has applied to the Federal Administration of Public Works for a loan of \$7,420,000 to construct a water supply system for Sacramento and vicinity. The corporation proposes to construct a dam 200 ft. high (gravity pipe) on the Consummes river, 38 mi. east of Sacramento on the Amador-Placer county line. The dam would submerge 2500 acres and impound 225-000 ac. ft. of water. Preliminary estimates of construction and material items follow:

- (1) 190,000 cu. yds. concrete dam;
- (2) 65,000 cu. yds. excavation;
- (3) change 3 mi. state road;
- (4) 2,500 acres clearing;
- (5) 10 miles fencing;
- (6) gates, valves and housing;
- (7) 2,450 ft. tunnel;

Pipe and Other Work

- (8) 175,000 ft. 54-in. welded steel pipe
- (9) 31,680 ft. 78-in. do;
- (10) 3,100 ft. 78-in. do;
- (11) forebay, surge tank and conn.;
- (12) power house and equipment;
- (13) tailrace and pipe connection;
- (14) chlorination plant and mechanical fitters;
- (15) standby equip. at power house;
- (16) 6 miles excav. hillside for pipe lines;
- (17) 11 miles excav. along river;
- (18) 21.8 miles open country;
- (19) 491,000 cu. yds. material.

Officers of the corporation are: Robt. Dixon, president; N. B. Ellory, vice-president and engineer; H. W. Johnson, Jr., vice-president; C. Loomis Ward, secretary, Roscoe E. Jordan, treasurer.

SAN FRANCISCO — A bond issue providing \$12,095,000 for additions to the municipal water supply and distribution system was carried at the

municipal election Nov. 7, by a vote of 103,752 to 43,067.

(1) An additional pipe line crossing San Francisco Bay from the Irvington Portal of the Hetch Hetchy aqueduct to the easterly portal of the Puglas tunnel and thence discharging into the Crystal Springs reservoir, including the necessary valves, auxiliary fittings, pipe lines and appurtenances.

(2) A new pipe line and necessary appurtenances connecting the Crystal Springs reservoir with the University Mound reservoir for the purpose of adding to the storage facilities of the University Mound reservoir.

(3) The construction of a new reservoir basin adjacent to the present University Mound reservoir providing an additional storage capacity of approximately 100,000,000 gallons of water, the said basin to be roofed, and for all necessary valves, appurtenances and pipes pertinent thereto.

(4) The construction of a new reservoir in the Sunset Heights District located between Twenty-second and Twenty-eighth Avenues and Ortega and Rivera Sts., with the necessary appurtenances, pipe lines to connect the same with the San Andres pipe line and with the distributing main from the Lake Honda reservoir, the said reservoir to be of similar construction to that of the University Mound reservoir above described.

(5) The construction of a pipe line and appurtenances connecting the San Andres pipe line and the University Mound reservoir providing the means of supplying water in an emergency to the University Mound District in the event of breakage of the Crystal Springs Line.

(6) The extension of a pipe line, and appurtenances, from 25th and Potrero Avenue through the South of Market Industrial Area and the Down Town Business District to Battery and Broadway necessary to meet the growing demands.

(7) The construction of a new main extending from College Hill reservoir along Guerrero or adjoining streets to Market St. and thence to the vicinity of Buchanan and O'Farrell Sts. to augment the capacity of the present main.

(8) The construction of a small reservoir adjacent to the central pump station which would serve the district between 40th Avenue and the Great Highway and extending from Balboa St. to Sloat Blvd., which reservoir would also regulate the capacity for the supply of water used at the central pumps.

(9) The replacing of 6- and 8-inch mains located throughout the city which are sufficient for domestic demands but insufficient for fire protection, and the installation of 12- and 16-inch mains with secondary feeder pipes connecting with the primary supply of water from the distributing reservoirs.

(10) The replacing of 2-inch wrought iron steel pipes with 6- and 8-inch cast iron pipe throughout the city where the present pipe is deemed insufficient for fire protection purposes, and the installation of gate valves throughout the distributing system, and appurtenances, to permit shutting down of the water supply at one point without interfering with the service in adjacent blocks.

The Federal Public Works Administration has approved a grant to the city of San Francisco of \$2,695,000 for financing the above work contingent upon approval of the bonds.

\$1563.90 awarded contract by Alameda City Council for boring a 10-in. well and construction of a pump plant at Franklin Park, Alameda. 31

PEARL HARBOR, T. H.—Following have procured plans for the purpose of submitting bids to the Bureau of Yards and Docks, Navy Department, Washington, D. C., on November 22 in connection with the improvements to fuel oil system at Pearl Harbor Navy Yard. Specification No. 7136:

Honolulu Iron Wks, Honolulu, T. H. Crane Co., 301 Brannan St., San Francisco.

Baldwin & Butler, 620 Cragmont Ave., Berkeley.

F. J. Hearty, 74 New Montgomery St., San Francisco.

Soule Steel Co., 1750 Army St., San Francisco.

Theo. H. Davies, Matson Bldg., San Francisco.

Stuart Mannell, Seattle, Wash.

Hermion Lawson, 465 Tehama St., San Francisco.

George Hess, 434 S. Westmoreland Ave., Los Angeles.

C. C. Moore, 450 Mission St., San Francisco.

American Factors, Matson Bldg., San Francisco.

P. S. Pipe & Foundry Co., Monadnock Bldg., San Francisco.

Pacific Coast Steel Co., 20th and Illinois Sts., San Francisco.

E. T. Thurston, Honolulu, T. H. Grinnell Co. of the Pacific, Fifth and Brannan Sts., San Francisco.

32—SEWERS & SEWAGE DISPOSAL PLANTS

VENTURA COUNTY, Cal.—Fowler & Myers, Semis, at \$1998.20 awarded the contract by the Ventura County Supervisors Nov. 3 for constructing the Magnolia Ave. Storm Water Drain at Moorpark under Contract No. 853.

MODESTO, Stanislaus Co., Calif.—The City of Modesto has applied to the Federal Administration of Public Works for a grant of \$2100 towards the cost of constructing an extension of sanitary sewers in 19th St. The work involves:

- (1) 400 ft. 8-in. vit. clay sewer pipe;
- (2) 865 ft. 6-in. do;
- (3) 1320 ft. 6-in. cast iron pipe;
- (4) 1 pump and auxiliary pump.

Total cost \$7000. J. Rossi, 610 10th St., Modesto, consulting engineer.

SANTA CLARA COUNTY, Calif.—Basich Bros., 20550 Normandie Ave., Torrance, at \$213,461 awarded contract by the State Highway Commission to grade and pave 2.7 miles with Port. cem. conc. bet. Lawrence Station Rd. and Alviso-Santa Clara Rd., Santa Clara County.

SAN FRANCISCO — A bond issue providing \$2,625,000 for improvements consisting of reconditioning and rebuilding existing sewers, etc., was carried at the municipal election, Nov. 7, by a vote of 101,731 to 42,409.

(1) Reconditioning and rebuilding existing sewers on 15th, Brannan, 6th, 16th, and 18th Streets, the Merced Land Sewer, and the Lake St. Outfall Sewer.

(2) Construction of sewage treating plants at Baker's Beach, and the Marina District.

(3) Extension of the North Point main sewer at the foot of Sansome St.

(4) New pumping equipment at the Commercial St. pumping station.

(5) Additional sewerage disposal plants and pumping equipment where necessary.

(6) Construction of new adequate sewers on Third St., Yosemite Ave., Visitation Valley, Golden Gate Hgts.

(7) Sanitary relief sewer in the Lake Merced District.

(8) Sanitary sewer at 44th Avenue and Sloat Blvd.

(9) Extension of the Laguna Street storm sewer to Lewis St.

(10) New sewer on Hyde and Jefferson Streets or other and adjacent streets.

The Federal Public Works Administration has approved a grant to the city of San Francisco of \$545,000 to finance the above work contingent upon approval of the bonds.

SAN FRANCISCO.—Fay Imp. Co., Phelan Bldg., at \$1179.40 awarded contract by the Department of Public Works for the reconstruction of the sewer on Evans Ave. between Newhall and Third Streets. Complete bids reported November 2.

33— WATERWORKS

MORGAN HILL, Santa Clara Co., Calif.—The town of Morgan Hill has applied to the Federal Administration of Public Works for a loan of \$34,000 and a grant of \$10,740, to finance the reconstruction of a water system and replacing of small mains with cast iron pipe and an additional distributing tank, involving:

- (1) 5,600 ft. 8-in. cast iron pipe;
- (2) 11,400 ft. 8-in. do;
- (3) 12,450 ft. 4-in. cast iron pipe;
- (4) 12 8-in. valves;
- (5) 20 6-in. valves;
- (6) 20 4-in. valves;
- (7) 74 hydrants;
- (8) 19,000 lbs. cast iron fittings;
- (9) 1 200-gpm. deep well pump with 10-hp. motor;
- (10) 1 200-gpm. booster pump with 10-hp. motor;
- (11) 1 power recording meter;
- (12) 1 water meter;
- (13) 2,810 cu. ft. concrete;
- (14) 200,000 gals. capacity reservoir;
- (15) 1,040 cu. yds. excavation;
- (16) 12,000 lbs. reinf. steel;
- (17) 2,300 sq. ft. roof;
- (18) pipe, valves and expansion joints, etc.

PEARL HARBOR, T. H.—R. E. Finlayson, 430 Lowers Road, Honolulu, at \$14,920 awarded contract by the Bureau of Yards & Docks, Navy Dept. Washington, D. C., for improvement to rifle range water supply at Pearl Harbor, under Spec. No. 7446.

Complete bids follow:
R. E. Finlayson, Honolulu.....\$14,920
Walker & Olund, Honolulu..... 15,328
John Hansen15,870

LOVELOCK, Nev.—An allotment of \$106,000 has been made by the Public Works Administration to the city of Lovelock for water system extensions. The work to be done includes replacement of about 14 miles of wood-stave pipe with wrapped steel pipe in the existing system, the drilling of a well, and the installation of a Diesel engine-operated pump.

SAN FRANCISCO.—Bids Wanted—See Item Under "29—Highways and Streets."

PORTLAND, Oregon—The Maplewood Water District has been allotted the sum of \$15,435 by the Federal Administration of Public Works toward the cost of constructing new water mains.

GILROY, Santa Clara Co., Cal.—The City of Gilroy has applied to the Federal Administrator of Public Works for a loan of \$24,923, and a grant of \$10,125.54 for constructing a new cast iron water main between the reservoir and the city to replace old steel main, involving:
13,000 ft. 16-in. class 100 cast iron pipe.

31—PIPE LINES & WELLS

November 9, 1933
CONTRACT AWARDED
ALAMEDA, Cal. — Robert Garcia, 2045 University Ave., Palo Alto, at

SAN FRANCISCO — A bond issue providing \$2,000,000 for extensions to the existing high pressure system throughout the city, and the construction of underground fire cisterns was carried at the municipal election, Nov. 7, by a vote of 95,562 to 47,072.

(1) Extensions to the existing high-pressure system throughout the Potrero, Mission, South of Market, Clay Street Hill, North Beach, Marina, Golden Gate Valley, Hayes Valley, Park-Presidio, Sunset, and other districts.

(2) Construction of twenty interconnecting underground fire cisterns along Van Ness Ave., Market, Dolores or other streets.

The Federal Public Works Administration has approved a grant to the city of San Francisco of \$460,000 for financing the above work contingent upon the approval of the bonds.

SAN DIEGO, Cal.—Chas. and F. W. Steffen, 2015 Bay Front St., San Diego, at \$10,100.25 were awarded the contract by Bureau of Yards & Docks, Washington, D. C., Nov. 7 for improvements to the water system at the Naval Operating Base (Air Station), San Diego. Spec. No. 7424.

29—STREETS AND HIGHWAYS

ARIZONA STATE.—Pearson and Dickerson, Contractors, Inc., 202 N. Central Ave., Phoenix, at \$119,111.21 submitted low bid to Arizona State Highway Commission, Phoenix, for highway construction on the Ashfork-Kingman Highway NRA 80-J. The work, which is to begin at a point about 7½ miles west of the town of Peach Springs and is to extend south-easterly about 6.2 miles, consists of grading, draining and placing aggregate base course and is to be completed on or before April 30, 1934. The bid on the alternate was the same as above, \$119,111.21.

Olds Bros., and All-Arizona Engineering & Const. Co., at \$119,944.39 submitted second low bid; alternate, \$120,448.30.

LINN CO., Ore.—Kern & Kibbe, 290 E. Salmon St., Portland, at \$184,802 submitted low bid (Alternate metal pipe) and \$185,368 (concrete pipe) to W. H. Lynch, District Engineer, U. S. Bureau of Public Roads, 316 New Postoffice Bldg., Portland, for clearing 7.8 miles and grading 5.3 miles of the Santiam Highway, Project NR-23-H, in Linn County.

Complete bids follow:

(A) Kern & Kibbe, Portland, metal pipe (Alt.) \$184,802; concrete pipe, \$185,368.00.

(B) Earl McNutt, Eugene, \$189,387; \$189,837.

(C) P. L. Crooks & Co., Portland, \$200,303; \$200,303.

JACKSON & DOUGLAS COS., Ore.—The surfacing with crushed rock or crushed gravel of the Diamond Lake National Forest Highway will be advertised for bids to be received by the Bureau of Public Roads, Portland, during the spring of 1934. Snow conditions at that time may preclude interested contractors from viewing the work. It is therefore recommended that prospective bidders go over the project immediately to insure that when advertisement of bids is issued, they will be informed and in a position to submit bids. The project, approximately 23.7 miles in length, extends from the junction with the Crater Lake Highway near Union Creek to Diamond Lake. It is located in Jackson and Douglas counties in Oregon and is in the Umpqua and Crater National Forests. Contractors should contact Mr. John Sargent, res-

ident engineer, whose headquarters will be found either at Union Creek or at Government Camp in Crater Lake National Park.

W. H. Lynch, District Engineer.

PIERCE COUNTY, Wash.—Joseph Warter, Sr., Tacoma, at \$380 awarded contract for paving 0.2 miles, Puyallup Main avenue east to Stewart St., National Park Highway, Pierce County. H. J. Adler Co., Tacoma, at \$4020 submitted second low bid and Albertson & Cornell, Inc., Tacoma, at \$4185, submitted third low bid.

YAKIMA COUNTY, Wash.—Albertson & Cornell Bros., Inc., Tacoma, at \$66,276 awarded contract by the State Highway Commission for paving 2.7 miles of the Inland Empire Highway, Yakima County, from Yakima to Ah-tanum Creek. Midstate Contract Co., Yakima, at \$66,834 submitted second low bid, and J. H. Collins & Co., Walla Walla, at \$78,313, submitted third low.

WASHINGTON STATE.—Until November 21, 10 A. M., bids will be received at the office of the Director of Highways, L. V. Murrow, Olympia, for the following highway improvements:

Pend Oreille County

Grading about 0.2 miles of approaches to and constructing treated timber pile and frame trestle 135 ft. long over Ruby Creek on State Road No. 6, Unit 1 of National Recovery Secondary Highway Project No. NRS 193-B in Pend Oreille County, involving about 13,040 cu. yds. excavation, pile trestle and other items.

Asotin County

Grading about 2.8 miles of the Asotin-Oregon State Line Road, Anatone South-Section 5, Unit 1 of National Recovery Secondary Highway Project No. NRS 199-A in Asotin County, involving about 12 acres of clearing, 90,850 cu. yds. excavation, 948 lin. ft. of pipe culverts, 46-ft. long bridge and other items.

Surfacing about 9.4 miles of the Asotin-Oregon State Line Road, Anatone South, Unit 2 of National Recovery Secondary Highway Project No. NRS 199-A in Asotin County, involving about 6,720 cu. yds. excavation, 3,600 cu. yds. backfill and ballast, 11,420 cu. yds. crushed stone surfacing and other items.

Plans and specifications obtainable from the above office upon deposit of \$2.00 per set.

LOS ANGELES, Cal.—Griffith Co., 502 Los Angeles Railway Bldg., Los Angeles, awarded contract at \$20,366.36 by the Los Angeles Board of Public Works for improving McKinley Ave. from 48th St. to 54th St., Los Angeles.

MONTEREY COUNTY, Cal.—Until Nov. 17, 2 P. M., bids will be received by the Dept. of Public Works, Division of Highways, L. H. Gibson, District Engineer, Highway Building, 50 Higuera St., San Luis Obispo, for constructing 7.2 miles of property fence in Monterey county between Gonzales and Soledad. Specifications obtainable at the above office.

SANTA CLARA COUNTY, Calif.—Until Nov. 20, 11 A. M., bids will be received by Board of Supervisors of Santa Clara County, Court House, San Jose, for resurfacing 3.16 miles of the Santa Clara-Alviso road, north from the Santa Clara city limits, involving: (1) 323,300 sq. ft. surf. asph. conc.; (2) 6400 tons asph. conc. base material.

Plans and specifications obtainable from County Surveyor, Court House, San Jose, charge of \$1 for plans.

SAN FRANCISCO.—M. J. Lynch, 1435 Church St., at \$177.50 awarded contract by the Department of Public Works for the construction of 1730 sq. ft. of one-course concrete sidewalk on Elk St., Bosworth and Chenery Sts. Complete bids published Nov. 2.

BAKERSFIELD, Cal.—Opening date for the resurfacing of the Bakersfield and Kern Electric Railway right-of-way between 19th St. and 34th St. on Chester Ave., and between F and Oak Sts. on 19th St. has been postponed until November 13 (previously advertised for November 6) by the Bakersfield City Council.

ARIZONA STATE—Until November 24, 2 P. M., bids will be received by the Arizona State Highway Commission, Phoenix, Arizona, for highway construction on the Casa Grande-Gila Bend Highway (N.R.S. 100-A A. F. E. 9406). The work, which is to begin at the Maricopa-Pinal County Line and extend easterly approximately 25.8 miles to the town of Casa Grande, consists of grading, draining, placing base course and mineral aggregate, and oil processing by the road mix method, and is to be completed on or before October 31, 1934. The principal items are:

- (1) 325,000 cu. yds. grading;
- (2) 458,000 cu. yds. ml. haul on grading;
- (3) 500 cu. yds. concrete;
- (4) 3300 lin. ft. C.M.P. (various sizes)
- (5) 65 M.B.M. timber (various kinds);
- (6) 33,300 cu. yds. mineral aggregate
- (7) 308,500 cu. yds. ml. mineral aggregate haul;
- (8) 665,000 gals. asph. road oil;
- (9) 1 ton cutback asphalt;
- (10) 25.8 miles processing road mix;
- (11) other incidental items.

Plans and specifications obtainable from above office. T. S. O'Connell, State Highway Engineer.

SAN FRANCISCO—Until Nov. 15, 10 A. M., bids will be received by the Constructing Quartermaster, Fort Mason, for grading and constructing concrete roads with curbs in parking area in rear of building No. 220; binding coat in rear of old area of main building; section of parade grounds to be plowed and rolled and furnished with lawn sprinkler system, at the Presidio, San Francisco. Plans and specifications obtainable from above office upon deposit of \$5.00.

HAMILTON FIELD, Cal.—N. M. Ball, 1889 Yosemite Road, Berkeley, at \$106,500 awarded contract by War Department for construction of paved aprons at Hamilton Field, San Rafael. Complete bids reported October 30.

PIERCE CO., Wash.—A. C. Greenwood & Co., Portland, at \$177,475.90 (metal pipe alternate) and at \$177,735 (concrete pipe) submitted low bid to W. H. Lynch, District Engineer, U. S. Bureau of Public Roads, 316 New Postoffice Bldg., Portland, for grading 2.94 miles of the West Side Highway, Mt. Rainier National Park Road in Pierce county. Complete bids follow:

(A) A. C. Greenwood & Co., Portland, metal pipe (Alt.) \$177,475; concrete pipe, \$177,735.00.

(B) Halleran Bros. & Coyle, Seattle, \$178,373.00; \$178,633.00.

(C) Colonial Bldg. Co., Spokane, \$196,665.00; \$196,925.00.

(D) Morrison-Knudsen, Boise, \$198,828.00; \$199,972.00.

EL DORADO CO., Cal.—All bids received by the Bureau of Public Roads, San Francisco, for grading 2.139 mi. of Section G of Route 32, Placerville-Lake Tahoe National Forest Highway, El Dorado National Forest, El Dorado

County, have been rejected. The Bureau will proceed with clearing by day labor under supervision of M. D. Bradshaw; other items in the contract will be re-advertised next spring. Hemstreet & Bell, Marysville, submitted low bid at \$144,783.05, Oct. 31.

KITSAP CO., Wash.—Tony Itomano, Seattle, at \$5,636 awarded contract by the State Highway Commission, for paving 0.2 mile in the city of Port Orchard, Kitsap Co. Albertson & Cornell Bros., Inc., Tacoma, at \$7,943 submitted second low bid and Goetz and Brennan, Seattle, at \$8114 submitted third low bid.

KITTITAS CO., Wash.—H. P. Dorsey Co., Bellingham, at \$53,979 awarded contract by State Highway Commission for paving 16 miles in the City of Port Angeles, Olympic Highway, Kittitas Co. N. Fiorite, Seattle, at \$56,006 submitted second low and F. J. Templeton Co., Everett, at \$57,177 submitted third low bid.

PRELIMINARY NOTICE TO CONTRACTORS

CALIFORNIA & NEVADA STATES
The following work in National Forests and National Parks in the States of California and Nevada will be advertised for bids to be received early in the spring of 1934 as soon as plans and specifications can be prepared. Snow conditions at that time make it impossible for bidders to properly view the work. It is recommended that interested contractors go over the projects immediately to obtain information on which to base bids. The projects will again be advertised approximately two weeks prior to the opening of bids.

MT. CHARLESTON, NEVADA FEDERAL LANDS PROJECT NR 7-A and FOREST HIGHWAY PROJECT NR 11.

This improvement located between the Las Vegas-Tonopah State Highway and Charleston Park in Dixie National Forest will consist of grading approximately 21.6 miles and a gravel or crushed gravel surface for approximately 17 miles to which a dust palliative of oil will be applied. \$270,000 is available for this work. Survey and plans are now being made. Interested contractors will be shown over the line by Bureau Engineer, Carl Schubert, who may be found at the Beghley Building in Las Vegas, Nevada, or on the survey.

SIERRAVILLE - HOBART FOREST HIGHWAY, CALIF. PROJECT NR 27-A.

This improvement located from Sierraville to a point 9 miles south on the road to Truckee in Tahoe National Forest will consist of grading. \$125,000 is available for the work. Survey and plans are now being made. Interested contractors should call at this office before visiting the project.

MANZANITA LAKE FOREST HIGHWAY, CALIF. PROJECT NR 75-A1

This improvement in Lassen National Forest, starting at the west boundary of Lassen Volcanic National Park and extending 4.5 miles west, consists of placing a subgrade reinforcement of crushed rock and applying a dust palliative of oil thereto. \$32,000 is available for this work. Interested contractors should call at this office prior to visiting the project.

DEER CREEK MEADOWS FOREST HIGHWAY, CALIFORNIA PROJECT NR 21-F.
This improvement will consist of grading and structures from Lome to Soda Springs, a distance of approximately 4.5 miles. \$165,000 is available for this work. Survey is complete and design is now being made. Interested contractors should call at this office

DEER CREEK MEADOWS FOREST, HIGHWAY CALIFORNIA PROJECT NR 21-E.

The improvement will start at the north end of Section B of the route and extend north approximately 2 miles, to a connection with the Rede Bluff-Susanville State Highway, 17 miles east of Mineral Post Office. The work will consist of grading, structures and subgrade reinforcing. \$25,000 is available for this work and for other work on Sections A, B, C, and D of this route.

MT. SHASTA-MT. LASSEN FOREST HIGHWAY, CALIFORNIA PROJECT NR 77-D1, E1.

This improvement will consist of placing a subgrade reinforcing of crushed rock to which will be applied an oil dust palliative for 21.39 miles extending easterly from a point 13 miles east of McCloud. \$80,000 is available for this work. Interested contractors should call at this office before visiting the project.

SWARTOUT FOREST HIGHWAY CALIFORNIA PROJECT NR 63-B.

This improvement will consist of grading approximately 5 miles extending from Dawson Saddle in vicinity of Big Pines County Park toward Vincent Gulch Divide. \$150,000 is available for this work. Survey will be finished on November 15 and interested contractors may view the work up to that time. Engineer Henry Garber will conduct contractors over the survey on November 10 and 13. Those interested should get in touch with Mr. Garber at 9:00 A. M., at Big Pines County Park Headquarters on either of the mentioned dates.

GENERALS HIGHWAY SEQUOIA NATIONAL PARK CALIFORNIA. SECTIONS C1, C2, D1 and D2 Rt.

This improvement will consist of a bituminous treated base course 9.287 miles in length. \$109,000 will be available for this work. Interested persons should call at this office prior to visiting the project. C. H. SWEETSER, District Engineer, U. S. Bureau of Public Roads, San Francisco, Calif.

LOS ANGELES and Kern Counties, Cal.—Dimmitt & Taylor, 815 E 59th St., Los Angeles, at \$45,617.05 awarded contract by State Highway Commission, Sacramento, for widening 24.4 miles of existing roadbed and oil treating earth shoulders on each side of existing pavement for a distance of about 11.2 miles between Lancaster and Mojave in Los Angeles and Kern counties.

LAKE COUNTY, Calif.—Until Nov. 29, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for grading and surfacing with crusher run base and bituminous treated crushed gravel or stone surfacing about 4.6 miles in Lake County, between Middletown and Putah Creek, involving:

- (1) 33 acres clear and grub right of way;
- (2) 141,600 cu. yds. rdwy. excav., unclassified;
- (3) 740,900 sta. yds. overhaul;
- (4) 7,900 cu. yds. imported borrow;
- (5) 2,310 cu. yds. struc. excav.;
- (6) 18,550 tons crusher run base;
- (7) 10,570 tons crushed gravel or stone bit. treated surfacing;
- (8) 565 tons cut-back asphalt;
- (9) 550 bbls. light fuel oil;
- (10) 4,560 tons untreated crush. stone or gravel surf.;
- (11) 420 tons screenings;
- (12) 390 M. gals. water;
- (13) 150 cu. yds. Class A Port. cem. conc. struc.;
- (14) 26 cu. yds. Class B do, footings and deadmen;
- (15) 4,000 lbs. bar reinf. steel struc.;
- (16) 80 lin. ft. 8-in. CMP;

- (17) 1,840 lin. ft. 18-in. do;
- (18) 350 lin. ft. 24-in. do;
- (19) 80 lin. ft. 36-in. do;
- (20) 52 lin. ft. 48-in. do;
- (21) 38 lin. ft. 60-in. do;
- (22) 500 lin. ft. 8-in. perf. metal pipe underdrains;
- (23) 32 lin. ft. CMP clean and relay;
- (24) 5 each spillway assemblies CIP;
- (25) 220 each timber guide posts and culvert markers CIP;
- (26) 23 MFBM dense select all-heart struc. grade redwood timber;
- (27) 24 MFBM select all-heart struc. redwood timber;
- (28) 5.0 ml. new property fence, type A;
- (29) 2.0 miles do, type B;
- (30) 16 each gates CIP;
- (31) 244 sta. yds. finish rdwy.;
- (32) 65 each monuments CIP.

Plans and specifications obtainable at above office and are on file at the offices of the District Engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

29

SANTA CRUZ COUNTY, Cal.—Until November 29, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for grading and surfacing with crusher run base and bituminous surfacing, about 0.6 miles between the north city limits and Ocean street in Santa Cruz, involving:

- (1) 52,500 cu. yds. rdwy. excav. unclassified;
- (2) 197,000 sta. yds. overhaul;
- (3) 510 M. gals water;
- (4) 2110 cu. yds. struc. excav.;
- (5) 167 cu. yds. Class A Port. cement conc. struc.;
- (6) 15 cu. yds. Class A Port. cement conc. curbs and gutters;
- (7) 14,200 lbs. bar reinf. steel struc.;
- (8) 5800 tons crusher run base;
- (9) 17 tons emuls. asph. road oil;
- (10) 1290 tons natural rock asphalt;
- (11) 300 bbls. fuel oil;
- (12) 0.64 mille mlx. oil and shouldere material;
- (13) 160 lin. ft. 8-in. CMP;
- (14) 1310 lin. ft. 12-in. CMP;
- (15) 786 lin. ft. 18-in. CMP;
- (16) 26 lin. ft. 24-in. CMP;
- (17) 140 lin. ft. 72-in. CMP;
- (18) 5 each spillway assemblies complete in place;
- (19) 50 cu. yds. conc. removed from exist. pavement, curbs, sidewalks and structures;
- (20) 45 cu. yds. rubble masonry walls and slope paving;
- (21) 0.56 M.F.B.M. redwood timber dense select, allheart struc., grade;
- (22) 2.32 M.F.B.M. redwood timber select, allheart structural grade;
- (23) 1 only special catchbasin;
- (24) 0.43 mile new property fence;
- (25) 2 each gates complete in place;
- (26) 8 each culverts markers;
- (27) 34 stations finish roadway;
- (28) 24 each monuments, complete in place.

Plans and specifications obtainable from above office, and are on file at the offices of the District Engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

29

SAN FRANCISCO — A bond issue providing \$260,000 for improvements at the San Francisco Municipal Airport carried at the municipal election, November 7 by a vote of 105,102 to 41,248.

- (1) extension of east-west runway of the airport;
- (2) filling in of tideland to the east of the present airport;
- (3) filling, grading, surfacing, draining same;
- (4) lighting facilities of said runway.

The Federal Public Works Administration has approved a grant to the city of San Francisco of \$53,000 to finance the above work, contingent upon approval of the bonds.

WASHOE COUNTY, Nevada—Until November 22, 2 P. M., bids will be received by the Directors of the Department of Highways of the State of Nevada at their office in the Heroes Memorial Bldg., Carson City, Nevada, for reconstructing approximately 13.51 miles of the State Highway in Washoe County, between Vista and Clark, Route 1, Section B2 and C1, involving:

- (1) 217,100 cu. yds. rdwy. excav.;
- (2) 2150 cu. yds. struc. excav.;
- (3) 7490 cu. yds. select borrow;
- (4) 389,426 sta. yds. overhaul;
- (5) 13.51 mi. subgrade;
- (6) 13.51 mi. shoulders;
- (7) 41,300 cu. yds. crushed gravel or stone surf.;
- (8) 42,650 tons plant mix do. base;
- (9) 24,230 tons plant mix asph. surf.;
- (10) 19,825 gal. asph. road material, type MC-2;
- (11) 52,800 gal. asph. road material, type SC-2;
- (12) 57,927 gal. asph. road material, type SC-1-A;
- (13) 16,377 lin. ft. remove fence;
- (14) 10,177 lin. ft. construct fence;
- (15) 16,377 lin. ft. reconstr. fence;
- (16) 50 each move pipe culvert head-walls;
- (17) 20 each remove do;
- (18) 4326 M. gal. water;
- (19) 178 cu. yds. Class A concrete;
- (20) 38 cu. yds. Class B concrete;
- (21) 18,000 lbs. relinf. steel;
- (22) 394 lin. ft. 15-in. C.M.P.;
- (23) 1178 lin. ft. 18-in. do;
- (24) 466 lin. ft. 24-in. do;
- (25) 18 lin. ft. 30-in. do;
- (26) 170 lin. ft. 36-in. do;
- (27) 118 lin. ft. 48-in. do;
- (28) 221 lin. ft. remove pipe culverts;
- (29) 136 lin. ft. relay pipe culverts;
- (30) 430 cu. yds. cem. rubble masonry;
- (31) 225 each monuments;
- (32) 2.0 miles traffic stripe;
- (33) 19 cu. yds. remove cement rubble masonry;
- (34) 9500 lbs. castings;
- (35) lump sum construct cellar;
- (36) 13.51 miles finish roadway.

Plans and specifications obtainable from above office upon deposit of \$5; \$2.50 returnable, and on file at the office of the Bureau of Public Roads, 461 Market St., San Francisco. S. C. Durkee, State Highway Engineer.

LOS ANGELES COUNTY, Cal.—Until November 29, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for grading and paving with Portland cement concrete about 3.5 miles between Olive View and Tunnel Station in Los Angeles, involving:

- (1) 150 sta. clear and grub right-of-way;
- (2) 275,000 cu. yds. rdwy. excav. unclass.;
- (3) 2,600,000 sta. yds. overhaul;
- (4) 6400 cu. yds. struc. excav.;
- (5) 28,500 sq. yds. subgrade for pave.;
- (6) 8100 cu. yds. Class A Portland cement concrete pavement;
- (7) 1450 cu. yds. Class A Portland cement concrete struc.;
- (8) 206,500 lbs. bar relinf. steel pave and struc.;
- (9) 1800 lbs. misc. iron and steel strucs.;
- (10) 500 tons asph. concrete;
- (11) 1500 tons cru. gravel or stone bit. treated surfacing;
- (12) 80 tons cutback asphalt;
- (13) 5000 M. gals. water;
- (14) 650 lin. ft. 18-in. CMP;
- (15) 370 lin. ft. 24-in. CMP;
- (16) 80 lin. ft. 30-in. CMP;
- (17) 70 lin. ft. 36-in. CMP;
- (18) 160 lin. ft. 60-in. CMP;
- (19) 360 lin. ft. 72-in. CMP, 8 gauge;

- (20) 80 lin. ft. 84-in. CMP 8 gauge;
- (21) 270 lin. ft. 105-in. multiplate metal pipe, 5 gauge;
- (22) 120 lin. ft. 180-in. multiplate pipe, 1 gauge;
- (23) 100 lin. ft. 150-in. multiplate metal arch, 3 gauge;
- (24) 140 lin. ft. 180-in. multiplate metal arch 1 gauge;
- (25) 1650 bbls. fuel oil;
- (26) 3.5 miles preparing and shaping shoulders;
- (27) 50 each guldestos;
- (28) 200 lin. ft. laminated timber guard rail;
- (29) 3 miles new property fence;
- (30) 6 each gates complete in place;
- (31) 190 stations finishing roadway.

Plans and specifications obtainable from above office, and are on file at the offices of the District Engineers at Los Angeles and San Francisco, and at the district in which the work is situated. 29

YOLO COUNTY, Cal.—Young & Sons, Ltd., 599 Colusa Ave., Berkeley, at \$140,708 awarded contract by State Highway Commission, Sacramento, to grade about 3.7 miles between Rumsey and the northerly boundary of Yolo County. 29

SACRAMENTO, Calif.—A blue line print of the title sheet of the plans showing the general location of work will be furnished free with the Special Provisions. Blue line prints of the layout and bridge detail sheets will be furnished at cost and become the property of the purchaser.

The following table shows the cost of such blue line prints for the work now advertised, bids to be opened on Nov. 22:

VII-L.A.-9-A, Sunland to Tujunga, (Plans) No. of sheets, 27; Cost, \$2.70; (Cross-Sections) No. of Sheets 37; Cost, \$3.70; Total, \$6.40.

VIII-SBD-9-C, In San Bernardino between west city limits and Mt. Vernon Ave., (Plans), No. of Sheets, 6; Cost, \$0.60; (Cross-Sections) No. of Sheets, 6; Cost, \$0.60; Total, \$1.60.

X-S-J-24-B, Lodi to 4½ miles east, (Plans) No. of Sheets, 15; Cost, \$1.50; (Cross-Sections) No. of Sheets, 153; Cost, \$15.30; Total \$16.80.

Checks for the above should be made payable to the Department of Public Works, Division of Highways, and should accompany the order to this office. 29

OREGON STATE—Until November 15, 10 a. m., bids will be received by the Oregon State Highway Commission, R. H. Baldock, State Highway Engineer, Multnomah Hotel, Portland, Oregon, for highway construction, grading and surfacing, as follows:

CURRY COUNTY—Sixes River Section of Cape Blanco Secondary Highway; Project No. NRS 210; 0.59 miles grading, requiring approximately:

- (1) 17,500 cu. yds. excavation;
- (2) 600 cu. yds. pit run gravel topping.

Rice Hill Section of Pacific Highway; Project No. NRH 189-A; 1.06 miles portland cement concrete pavement; and 0.12 miles crushed rock or gravel surfacing.

DOUGLAS COUNTY—Winston Bridge Section of Pacific Highway; Project No. NRH 78-A; 0.95 miles grading work, requires approximately 43,000 cu. yds. embankment, and construction of 0.95 miles portland cement concrete pavement.

LINN COUNTY—Albany-Tangent Section of Pacific Highway; Project No. 56-B; 6.4 miles widening and resurfacing asphaltic concrete pavement with penetration type bituminous macadam; also, construction of 0.9 miles bituminous macadam wearing surface.

MALHEUR COUNTY—Jackson Creek-McDermitt Section of I. O. N.

Highway; Federal Lands Highway Project No. 3-A; 14.0 miles grading, involving:

- (1) 142,000 cu. yds. excavation;
- (2) 18,000 cu. yds. gravel or talus topping.

MALHEUR COUNTY—Grading and surfacing 1.18 miles of approaches to the bridge over Owyhee River on Jordan Valley Secondary Highway near Nyssa; Project No. NRS 211.

MARION COUNTY—North Salem Section of Pacific Highway; Project No. NRM 176-B; pavement widening and resurfacing, involving:

- (1) 8,000 lin. ft. concrete curbs;
- (2) 1,150 sq. yds. concrete sidewalks and driveways;
- (3) 7,000 sq. yds. portland cement concrete pavement;
- (4) 18,000 sq. yds. asph. concrete pave.

MORROW COUNTY—Hardman-Rock Creek Section of Heppmer-Sprey Secondary Highway; Project No. NRS 218; 3.1 miles grading, requires approximately 67,000 cu. yds. excavation.

MULTNOMAH COUNTY—Eighty-second Ave.-East City Limits Section of Base Line Highway (East Stark St.); Project No. NRM 200; construction of approximately 5,000 lin. ft. concrete curbs and 14,000 sq. yds. 7-in. portland cement concrete pavement.

POLK COUNTY—Buell-Salt Creek Section of The Dalles-Coast Secondary Highway; Project No. NRS 215-A; 3.35 miles grading and surfacing, involving:

- (1) 118,000 cu. yds. excavation;
- (2) 18,000 cu. yds. pit run gravel topping;
- (3) 5,000 cu. yds. crushed gravel surf.

The work also involves the construction of a bridge over Salt Creek and a concrete stock pass, requiring approximately:

- (1) 87 cu. yds. concrete;
- (2) 10,400 lbs. metal reinforcement;
- (3) 19 MFBM treated lumber;
- (4) 113 lin. ft. composite hand rail.

Plans and specifications obtainable upon deposit of \$5 per set at the office of the State Highway Commission, Room 322, State Office Bldg., Salem, Oregon.

BONNEVILLE, Oregon—Until Nov. 13, 3 P. M., bids will be received by the U. S. Engineer Office, 306 Customhouse, Portland, Ore., Major C. F. Williams, District Engineer, under Bid No. 34-198, for the construction and surfacing of a roadway from a point on the Columbia River Highway near Bonneville, to the site of the locks of the Bonneville Dam, approximately 2500 ft. in length, and a branch road to serve camps and material yds., 800 ft. more or less in length, involving:

- (1) 3 acres clearing;
- (2) 2000 cu. yds. excav., solid rock;
- (3) 1500 cu. yds. excav., unclass.;
- (4) 100 cu. yds. borrow, solid rock;
- (5) 1000 cu. yds. borrow, unclass.;
- (6) 4500 cu. yds. borrow, river or bank run gravel;
- (7) 15,000 sta. yds. overhaul, center of volume under 1000 ft.;
- (8) 70,000 sta. yds. overhaul, do over 1000 ft.;

TWO COURSE MACADAM SURF.

- (9) 1250 cu. yds. gravel, top crs., river bank run;
- (10) 1250 cu. yds. grav bottom course, do;
- (11) 300 cu. yds. gravel deposited in piles, do;
- (12) 50 M. gals. watering, macadam course;
- (13) 10 days rolling.

DRAINAGE OPENINGS
Furnishing and placing C.G.M.P.

- (14) 50 lin. ft. U. S. Std. 14-ga. 24-in. diameter;
- (15) 60 lin. ft. U. S. Std. 12-ga. 42-in. diameter;

Plans and specifications obtainable from above office.

SAN FRANCISCO.—Golden Gate Bridge & Highway Dist., 111 Sutter Bldg., (Jos. B. Strauss, chief engineer) has applied to the Federal Administrator of Public Works for a loan of \$1,750,000 and a grant of \$750,000 to finance the construction of approach spans, paving, lighting system and other work in connection with the new Golden Gate bridge under construction. The projects will involve: Road work, concrete structures, grading and paving Presidio approach road to the Marina, \$700,000. Steel structures, railings, fencing and lighting for above, \$300,000. Bridge approach (Sausalito lateral) including underpass, \$350,000. Approach spans, \$1,000,000. Lyon Street approach south of the Palace of Fine Arts, \$150,000.

COCHISE COUNTY, Ariz.—W. A. Rawls, El Paso, Texas, at \$114,735 awarded contract by the Bureau of Public Roads, Phoenix, for grading 2.445 miles of Section D of Route 32, Chiricahua Monument National Forest Highway, Coronado National Forest, Cochise County, Ariz.

SAN FRANCISCO.—Eaton & Smith, 715 Ocean Ave., at \$3,330 awarded the contract by the Department of Public Works for improving Ortega St. between 20th and 21st Avenues.

LINN CO., Ore.—Kern & Kibbe, 290 E Salmon St., Portland, at \$104,579.00 awarded contract by U. S. Bureau of Public Roads, Portland, for grading 3.9 miles of the North Santiam Highway in Linn County, near Lost Lake. Project No. NR-24-EL.

SACRAMENTO, Calif.—A blue line print of the title sheet of the plans showing the general location of work will be furnished free, with the Special Provisions. Blue line prints of the layout and bridge detail sheets will be furnished at cost and become the property of the purchaser.

The following table shows the cost of such blue line prints for the work now advertised, bids to be opened Nov. 15, 1933:

- (1) I-Tri-20-C, D bet. 1.8 mile west of Burnt Ranch and McDonald Creek
- (2) III-But-3-D, R. C. Bridge across Pine Creek;
- (3) V-Mon-56-H bet. Carmel river and Carmel;
- (4) VI-Ker-57-A bet. west Broadway and 2.4 miles south of Maricopa;
- (5) VIII-SBd-43-A bet. Arrowhead Springs and San Bernardino.

Plans		Cross-Sections		
No. of Sheets	Cost	No. of Sheets	Cost	Total
(1).....	10 \$1.00	110	\$11.00	\$12.50
(2).....	4 .40			
(3).....	9 .90	25	2.50	3.40
(4).....	22 2.20	145	14.50	16.70
(5).....	4 .40	33	3.30	3.70

Checks for the above should be made payable to the Department of Public Works, Division of Highways, and should accompany the order to this office.

COCONINO COUNTY, Ariz.—Skousen Bros., Albuquerque, N. M., at \$41,860 submitted low bid to C. H. Sweetser, District Engineer, Bureau of Public Roads, Phoenix, for placing subgrade reinforcement on Grand Canyon Route 10 and Sections A, B and C of the Cameron-Desert View Approach to Grand Canyon National Park, Coconino County, Ariz. Hedgman and MacVicar, Flagstaff, Ariz., at \$47,454 submitted second low and O. F. Fisher, Phoenix, at \$56,800 submitted third low bid. Award is recommended to Skousen Bros.

CLARK COUNTY, Nev.—Until Nov. 22, 2:30 P. M., bids will be received by S. C. Durkee, State Highway Engineer, Heroes Memorial Bldg., Carson City, Nev., for reconstructing 11.90 mi. of the State Highway in Clark County between Bard and Las Vegas, Rt. 6, Section C2, involving:

- (1) 40,800 cu. yds. rdwy. excav;
- (2) 3,400 cu. yds. struc. excav;
- (3) 84,100 cu. yds. select borrow;
- (4) 7,428 sta. yds. overhaul;
- (5) 11.85 miles subgrade;
- (6) 55,600 cu. yds. crushed gravel or stone subbase;
- (7) 37,000 tons plant mix crushed gravel or stone base;
- (8) 24,100 tons plant mix asph. surf.;
- (9) 27,832 gals. asph. road material, type MC-2;
- (10) 74,000 gals. do, type SC-2;
- (11) 51,404 gals. do, type SC-1A;
- (12) 11.85 miles shoulders;
- (13) 5,129 M. gals. water;
- (14) 480 cu. yds. Class A conc.;
- (15) 162 cu. yds. Class B concrete;
- (16) 53,800 lbs. reinf. steel;
- (17) 166 lin. ft. 18-in. CMP;
- (18) 1,004 lin. ft. 24-in. do;
- (19) 332 lin. ft. 30-in. do;
- (20) 146 lin. ft. 36-in. do;
- (21) 735 lin. ft. 24-in. vit. pipe;
- (22) 26 each move pipe culvert headwalls;
- (24) 1,028 lin. ft. remove pipe culverts;
- (25) 116 lin. ft. relay pipe culverts;
- (26) 188.5 MFBM redwood;
- (27) 11.90 miles finish rdwy.

Plans and specifications obtainable from above office upon deposit of \$5; \$2.50 returnable.

SOLANO COUNTY, Cal.—Until Nov. 29, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for grading and paving with asphalt concrete about 3.3 miles between 4.2 miles north of Fairfield and 0.6 miles south of Vacaville, in Solano County, involving:

- (1) 2,443 each trees to be removed & disposed of;
- (2) 76,000 cu. yds. rdwy. excav., unclassified;
- (3) 170,000 sta. yds. overhaul;
- (4) 43,500 cu. yds. imported borrow;
- (5) 2,230 cu. yds. struc. excav.;
- (6) 35,440 sq. yds. subgrade for pave.;
- (7) 500 sq. yds. asph. paint binder;
- (8) 15,010 tons asph. concrete;
- (9) 1,108 lin. ft. 18-in. CMP;
- (10) 68 lin. ft. 24-in. do;
- (11) 252 lin. ft. 30-in. do;
- (12) 248 lin. ft. 36-in. CMP close riveted and soldered;
- (13) 94 lin. ft. 66-in. CMP;
- (14) 312 lin. ft. 84-in. CMP;
- (15) 42 lin. ft. salvaging exist. culverts
- (16) 40 lin. ft. CMP clean and relay;
- (17) 1 only cast steel frame and cover for drop inlet;
- (18) 616 cu. yds. Class A port. cem. conc. struc.;
- (19) 59,600 lbs. bar reinf. steel struc.;
- (20) 520 cu. yds. salvaged mac. base;
- (21) 200 tons untreated crushed gravel or stone surf.;
- (22) 230 tons crushed gravel or stone bit. treated surfacing;
- (23) 12 tons cutback asphalt;
- (24) 1,030 bbls. heavy fuel oil;
- (25) 319 sta. mix fuel oil and earth shoulders;
- (26) 420 cu. yds. remove and dispose of conc. in exist. pave. & struc.;
- (27) 2 each culvert headwalls to be removed and reset;
- (28) 0.1 mile remove and reset exist. property fences;
- (29) 1.0 mile new property fence;
- (30) 7 each fence gates;
- (31) 16 each conc. joint pipe culvert;
- (32) 2,000 M. gals. water;
- (33) remove and dispose of exis. conc. bridge;
- (34) 732 lin. ft. furnish steel piles, including test piles;
- (35) 28 each drive steel piles including test piles;

- (36) 7 cu. yds. Class A port. cem. concrete bridge railing;
- (37) 516 lbs. bronze expansion plates;
- (38) 176 sta. finish roadway;
- (39) 68 each monuments complete in place.

Plans and specifications obtainable at above office, and are on file at the offices of the district engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

SKAMANIA COUNTY, Wash.—Until Nov. 15, 10 A. M., bids will be received by the U. S. Bureau of Public Roads, W. H. Lynch, District Engineer, 316 New Postoffice Bldg., Portland, Ore., for grading 1.795 miles of the Wind River Highway, Project NH-30-A3, National Forest Road Project, located within the Columbia National Forest, Skamania County, Washington involving:

- (1) 9 acres grubbing;
- (2) 49,980 cu. yds. unclass. excav.;
- (3) 160,000 sta. yds. overhaul;
- (4) 1.795 miles finish earth graded rd.
- (5) 84 lin. ft. reinf. concrete pipe;
- (6) 670 lin. ft. culverts (Alt.);
- (7) 6,800 lin. ft. flattening and rounding out slopes.

Plans and specifications obtainable at the above office upon deposit of \$10.

NAVY DEPARTMENT

(Continued from Page 17)

- FORGINGS, steel, Sch. 996-R. Bids postponed from Nov. 3 to Nov. 10.
- SURFACER, table, for Puget Sound. Sch. 1014; Nov. 14.
- PRESS, motor-driven deep gas punching for Puget Sound. Sch. 1013; Nov. 14.
- PRESESSES, laundry, 3, for Puget Sound Sch. 968; Nov. 14.
- MACHINE, motor-driven pipe-threading and cutting machine, for Mare Island. Sch. 1020; Nov. 14.
- LATHES, motor-driven turret, and equipment, 5, for Mare Island. Sch. 1027; Nov. 14.
- PLANER, Sch. 919. Postponed from Oct. 31 to Nov. 14.
- TRUCK, platform type electric, 6000 lb. capacity, and 10 skids, for Puget Sound. Sch. 1002; Nov. 14.
- LATHES, motor-driven engine, and spares, 10, for San Diego, and 5 for East or West Yards. Sch. 1025 Nov. 14.
- LATHES, motor-driven engine, 9 for Mare Island, 8 for San Pedro, 1 for East or West Yards. Sch. 1030; Nov. 14.
- DRILL, motor-driven radial and spares, for San Pedro. Sch. 1031; Nov. 14.
- SHAPER, table, motor-driven, for Mare Island. Sch. 1037; Nov. 14.
- TRUCK, motor, for Puget Sound. Sch. 1038; Nov. 14.
- MACHINE, spot-welding, for Puget Sound. Sch. 1041-R; Nov. 14.
- ROLL, motor-driven bending, for Puget Sound. Sch. 1050; Nov. 14.
- METER, combined heterodyne frequency and crystal controlled calibrator equipments and spares, for Eastern Yards. Sch. 1029; Nov. 14.
- SHEAR, motor-driven rotary, for East or West Yards. Sch. 1044; Nov. 14.
- FURNACES, pit type electric, 3 for Mare Island. Sch. 1045; Nov. 14.
- MACHINE, motor-driven bolt-threading, for Mare Island. Sch. 1046; Nov. 14.
- COMPRESSOR, gasoline engine driven air, for San Diego. Sch. 1048; Nov. 14.
- BORING MILL, motor-driven, Mare Island. Sch. 1049; Nov. 14.
- WELDING SETS, electric arc, for Eastern and Western Yards, 75. Sch. 1058; Nov. 14.

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

APACHE COUNTY, ARIZ.—GRADING 18.2 MI.—STATE

APACHE COUNTY, Arizona—Hodgman, MacVicar & Royden, Flagstaff, Ariz., at \$163,868.69 were awarded the contract by the Arizona State Highway Commission, Phoenix, Oct. 28, for Improving Holbrook-Lupton Highway Project NRH 83-D. The work which begins at the Navajo-Apache County line and extends easterly about 18.2 mi., consists of grading and draining the roadway and placing base course, and is to be completed on or before August 31, 1934. Award was made on the basis of steel plate road guard (CIP). The bid for using cable road guard type A (CIP) was \$162,877.19. The work involves:

- ROADWAY
(1) 136,579 cu. yds. unclass. roadway excavation;
(2) 8330 cu. yds. drainage excav. unclass.;
(3) 17,350 lin. ft. grader ditches;
(4) 879 cu. yds. struc. excav. unclass.;
(5) 13,595 cu. yds. borrow excav. unclass.;
(6) 60,679 sta. yds. earthwork overhaul;
(7) 11,500 cu. yds. stripping plts;
(8) 48,228 cu. yds. aggregate base course;
(9) 188,645 cu. yds. ml., do, haul;
(10) 340 cu. yds. class A conc. (incl. cement);
(11) 11 cu. yds. class B conc. (incl. cement);
(12) 23,990 lbs. reinf. steel (bars) (CIP);
(13) 118 lin. ft. 18-in. C.M.P.;
(14) 586 lin. ft. 24-in. C.M.P.;
(15) 468 lin. ft. 30-in. C.M.P.;
(16) 452 lin. ft. 36-in. C.M.P.;
(17) 3 each cattle guards, type A;
(18) 99 each R/W markers;
(19) 6610 lin. ft. cable road guard type A;
(20) 178 480 lin. ft. std. line fence (CIP);
(21) 2 each metal fence gates (CIP);

STRUCTURES OVER 20-FT. CLEAR SPAN

- (22) 12,855 cu. yds. drainage excav., unclass.;
(23) 780 cu. yds. struc. excav. unclass.;
(24) 13 cu. yds. AA conc. (incl. cem.);
(25) 431 cu. yds. class A conc. (incl. cement);
(26) 87 cu. yds. class B conc. (incl. cement);
(27) 43,440 lbs. reinf. steel (bare) (CIP);
(28) 58,630 lbs. struc. steel (CIP);
(29) 53 M.B.M. treated timber (CIP);
(30) 4 M.B.M. untreated timber (CIP);
(31) 1750 lin. ft. treated timber piles (CIP);
(32) 100 lin. ft., do, cutoff;
(33) 50 each pile points (CIP);
(34) 150 cu. yds. plain riprap (CIP);
(35) 4 each water barrels (CIP);
(36) 3 cu. yds. screenings (bridge fl. coat);
(37) 1 ton cutback asph. (do);
(38) 6610 lin. ft. steel plate road guard (Alt.);
Complete bids follow:
(A) Hodgman & MacVicar & Royden, Flagstaff, Ariz., \$162,877.19, (alt.) \$163,868.69.
(B) Heuser & Garnett & Fleming, Glendale, Cal., \$171,638.45; \$172,960.46.
(C) Pearson & Dickerson, Phoenix, Ariz., \$172,504.20; \$173,495.70.
(D) New Mexico Constr. Co., Albuquerque, N. M., \$193,467.46; \$194,789.46.
(E) Armstrong & Armstrong, Roswell, N. M., \$194,401.18; \$195,392.68.
(F) Heafey-Moors Co., and Casson, Phoenix, Ariz., \$203,280.28; \$203,280.28.
(G) Skousen Bros., Albuquerque, N. M., \$207,766.66; \$208,427.66.
Unit bids follow:

Table with 7 columns (A) through (G) and 35 rows of bid amounts for various items.

BIDS OPENED

SANTA BARBARA COUNTY, Cal.—P. J. Akmadzich, 3028 Gilroy St., Los Angeles, at \$36,725.40 submitted low bid to State Highway Commission, Sacramento, to grade and pave 0.8 mi. with asphalt concrete between Olive Mill Road and Santa Barbara in Santa Barbara County, involving:

- (1) 8,000 cu. yds. rdwy. excav., unclassified;
(2) 12,000 ata. yds. overhaul;
(3) 375 cu. yds. structure excav.;
(4) 7,600 sq. yds. subgrade for pave.;
(5) 12,000 sq. yds. asph. paint binder;
(6) 6,800 tons asphalt concrete;
(7) 102 lin. ft. 18-in. CMP;
(8) 220 lin. ft. 18-in. CMP;
(9) 220 lin. ft. 24-in. CMP;
(10) 38 lin. ft. 36-in. CMP;
(11) 148 lin. ft. corrugated metal pipe, clean and relay;
(12) 30 cu. yds. concrete, remove from existing structures;
(13) 17 cu. yds. Class A Port. cement concrete structures;
(14) 6 cu. yds. do, curbs;
(15) 900 lbs. bar reinf. steel struc.;
(16) 610 bbis. fuel oil;
(17) 75 sta. mixing fuel oil and earth shouldrs;
(18) 300 M. gals. water;
(19) 5 each cast steel frames and covers for drop inlets;
(20) .25 mile new property fence;
(21) .04 mile move and reset existing property fences;
(22) 7 each move and reset culvert markers;
(23) 38 each remove trees, size 1;
(24) 42 each, remove trees, size 2;
(25) 29 each, remove trees, size 3;
(26) 40 stations finish roadway;
(27) 53 each monuments complete in place.

Complete bids follow:

- (A) P. J. Akmadzich, Los Angeles, \$36,725.40.
(B) Griffith Co., Los Angeles, \$48,627.25.
(C) Western Motor Transport, Inc., Santa Barbara, \$45,657.70.
(D) United Concrete Pipe Corp., Los Angeles, \$53,267.50.

Unit bids follow:

Table with 4 columns (A) through (D) and 27 rows of bid amounts for various items.

FEDERAL BUILDING — SAN FRANCISCO

SAN FRANCISCO—Great Lakes Construction Co., 333 N. Michigan Ave., Chicago, at \$2,647,800 submitted low bid to the Supervising Architect, Treasury Department, Washington, D. C., for the construction of a five-story, basement and attic reinforced concrete Federal Building in the Civic Center, San Francisco. The contract is for the building complete, excepting elevators and lighting fixtures. Bids were received as follows:

ITEM I: Five-story, basement and attic building.

ITEM II: Five-story, basement and attic building, omitting attic on McAllister St. front.

Alt. 1: (Deduct from Item I) If face brick is substituted for terra cotta in connection with exterior facing of court.

Alt. 2: (Deduct from Item II) If face brick is substituted for terra cotta in connection with exterior facing of court.

Table with 7 columns: Item I, Item II, Alt. 1, Alt. 2, Alt. 3, Alt. 4. Rows (A) through (G) showing bid amounts.

Appropriation for the building, authorized by the Federal Public Works Administration, is \$2,689,000.

Following are the bids received February 28, 1933, when the contract was originally advertised:

Table listing bid amounts for N. P. Severin, Chicago (\$2,548,000) and Great Lakes Constr. Co., Chicago (2,597,952).

Alt. 3: (Add to Item I) If all roof surfaces of enclosed spaces are insulated.

Alt. 4: (Add to Item II) If all roof surfaces of enclosed spaces are insulated.

The bidders were:

- (A) Great Lakes Constr. Co., 333 N. Michigan Ave., Chicago.
(B) Jacobsen Bros., 19 South La Salle St., Chicago.
(C) Lindgren & Swinerton, 225 Bush St., San Francisco.
(D) George Wagner and K. E. Parker, 135 South Park, San Francisco.
(E) Clinton Constr. Co., 923 Folsom St., San Francisco.
(F) Ring Constr. Co. and Fleisher Engineering & Constr. Co., Minneapolis.
(G) MacDonald & Kahn, Financial Center Bldg., San Francisco.

Complete bids follow:

Table listing complete bids for Jacobsen Constr. Co., Geo. Wagner, Lindgren & Swinerton, Clinton Constr. Co., Pike & Cook Co., Inc., Schuler & McDonald, R. E. McKee, H. M. Baruch Corp., and Coath & Goss, Inc.

- (3) 854 cu. yds. struc. excav. unclass.;
(4) 8366 cu. yds. borrow excav., unclass.;
(5) 100 cu. yds. slides and overbreakage;
(6) 20,845 sta. yds. earthwork over-haul;
(7) 908 cu. yd. ml. earthwork haul;
(8) 9393 cu. yds. aggregate base course;
(9) 24,040 cu. yd. ml. aggregate base course haul;
(10) 535 cu. yds. Class A conc. (incl. cement);
(11) 18 cu. yds. Class B conc. (incl. cement);
(12) 46,257 lbs. reinf. steel bars CIP;
(13) 66 lin. ft. 18-in. CMP (inc. bands) CIP;
(14) 70 lin. ft. 24-in. CMP (inc. bands) CIP;
(15) 54 lin. ft. 30-in. CMP (inc. bands) CIP;
(16) 106 lin. ft. 36-in. CMP (inc. bands) CIP;
(17) 5040 lin. ft. cable road guard type A CIP;
(18) 200 lin. ft. rail bank protection type B CIP;
(19) 100 hours rolling;
(20) 100 M. gals. sprinkling CIP;
(21) 8200 lin. ft. grader ditches;
(22) 63 each right-of-way posts CIP;
(23) 4697 cu. yds. stripping pits;

STRUCTURES OVER 20-FT. CLEAR SPAN

- (24) 7265 cu. yds. drainage excav. unclass.;
(25) 1125 cu. yds. struc. excav. unclass.;
(26) 23 cu. yds. aggregate base course;
(27) 20 cu. yd. ml. aggregate base course haul;
(28) 29 cu. yds. Class AA concrete (inc. cement);
(29) 827 cu. yds. Class A conc. (inc. cement);
(30) 217 cu. yds. Class B conc. (inc. cement);
(31) 88,580 lbs. reinf. steel bars CIP;
(32) 111,330 lbs. struc. steel CIP;
ALTERNATE (In lieu of Item 17)
(17-A) 5040 lin. ft. steel plate road guard CIP;
Complete bids follow:
(A) Pearson & Dickerson, Contractors, Inc., Phoenix, \$119,111.21; (Alt.) \$119,111.21.
(B) Olds Bros. Lumber Co. and All Arizona Engr. & Constr. Co., Clifton, \$111,944.30; \$120,448.30.
(C) Martin Bros. Trucking Co., Long Beach, \$129,188.14; \$129,692.14.

Unit bids follow:

Table with 4 columns: (A), (B), (C). Rows (1) through (32) and (17-A) showing unit bid prices.

SANTA CRUZ COUNTY — BRIDGE — COUNTY

CAPITOLA, Santa Cruz Co., Calif.—Leo Cardwell Const. Co., 530 Pacific Ave., Santa Cruz, at \$23,051.25 awarded contract by Santa Cruz Co. Board of Supervisors, for the construction of a reinforced concrete girder bridge over Soquel Creek at Capitola. Bridge will be 135 ft. in length, with a 30-ft. roadbed, and a 6-ft. sidewalk on each side, involving:

- (1) 272 cu. yds. dry excav., unclass.;
(2) 353 cu. yds. wet excav., unclass.;
(3) 373 cu. yds. Class A conc. abutments and pier;
(4) 447 cu. yds. Class A superstructure concrete;
(5) 22 cu. yds. Class S conc. (railing)
(6) 94,000 lbs. reinf. steel;
(7) 2,825 lin. ft. fl redwood timber piles delivered;
(8) 113 piles driven;
(9) lump sum, electric lighting system, complete.

tem, complete.

Complete bids follow:

- (A) Leo Cardwell Const. Co., Santa Cruz, \$23,051.25.
(B) Sam Sciarrino, San Jose, \$23,443.25.
(C) Frank Bryant, San Francisco, \$24,004.70.
(D) Carl Swanson, San Francisco, \$24,782.00.
(E) Earl W. Heple, San Jose, \$24,830.60.
(F) Merritt, Chapman & Scott, San Pedro, \$26,904.43.
(G) M. B. McGowan, San Francisco, \$26,937.00.
(H) Bodenhamer Const. Co., Oakland, \$26,989.75.
(I) Nevis & Harp, Santa Clara, \$29,110.00.
Lloyd Bowman, county engineer.

Unit bids follow:

Table with 9 columns: (A) through (I). Rows (1) through (9) showing unit bid prices for bridge construction items.

BIDS OPENED

ARIZONA STATE—Pearson & Dickerson, Contractors, Inc., 202 N. Central Ave., Phoenix, at \$119,111.21 (type A cable guard rail), submitted low bid to the Arizona State Highway Commission, Phoenix, for highway construction of the Ashfork-Kingman Highway, NRH 80-J. The work, which is to begin at a point about 7 1/2

miles west of the town of Peach Springs and is to extend southwestwardly about 6.2 miles, consists of grading, draining and placing aggregate base course and is to be completed on or before April 30, 1934, involves:

ROADWAY

- (1) 57,710 cu. yds. excav. unclass.;
(2) 5769 cu. yds. drainage excav., unclass;

APACHE CO., ARIZ — GRADING 12.6 M. — STATE

APACHE COUNTY, Ariz. — Heuser & Garnett & Fleming, 816 Allen Ave., Glendale, Calif., at \$160,368.06 (steel plate road guard CIP) awarded contract by Arizona State Highway Commission, Phoenix, for highway construction on Holbrook-Lupton Highway, Project No. N.R.H. 83-E. The work begins at the east end of N.R.H. 83-D and extends easterly about 12.66 miles, and consists of grading and draining the roadway and placing a base course. Complete bids follow:

- (A) Heuser & Garnett & Fleming, Glendale, \$159,094.06; Alt. \$160,368.06.
- (B) Pearson & Dickerson, Contractors Inc., Phoenix, \$161,380.85; \$161,336.35.
- (C) Skousen Bros., Albuquerque, N. M., \$170,311.08; \$171,266.58.
- (D) New Mexico Const. Co., Albuquerque, \$170,880.78; \$172,163.78.
- (E) F. D. Shufflebarger, Albuquerque, \$183,060.91; \$183,379.41.
- (F) Heafey - Moore Co. and Casson, Phoenix, \$185,353.49; \$185,353.49.
- (G) Hodgman & MacVicar & Royden, Flagstaff, Ariz., \$199,760.52; \$200,716.32.

Unit quantities follow:

- (1) 80,298 cu. yds. rdwy. excav., unclass.;
- (2) 11,312 cu. yds. drainage excav. do
- (3) 1403 cu. yds. struc. excav., unclass.;
- (4) 7754 cu. yds. borrow excav., unclass.;
- (5) 43,220 sta. yds. earthwork, over-haul;
- (6) 1294 cu. yds. mi. earthwork, haul;
- (7) 34,713 cu. yds. selected borrow;
- (8) 19,161 cu. yds. mi. do, haul;

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
(1).....	.25	.30	.80	.40	.42	.85	.45
(2).....	.25	.30	.40	.25	.30	.35	.30
(3).....	1.25	.60	1.00	.75	.90	1.00	1.00
(4).....	.25	.30	.30	.30	.30	.25	.40
(5).....	.05	.03	.05	.02	.04	.05	.02
(6).....	.50	.28	.40	.20	.20	.30	.80
(7).....	.33	.15	.25	.20	.30	.25	.30
(8).....	.10	.28	.30	.20	.20	.20	.50
(9).....	5.00	6.00	3.00	3.00	4.00	6.00	4.00
(10).....	2.50	3.75	3.00	2.50	5.00	8.00	3.00
(11).....	.60	.80	.90	.90	.80	.90	1.15
(12).....	.10	.10	.10	.10	.12	.12	.10
(13).....	26.00	25.00	25.00	26.00	26.50	26.00	28.00
(14).....	.06	.05	.055	.055	.055	.06	.06
(15).....	1.70	2.00	2.00	1.70	2.00	2.00	2.00
(16).....	2.70	3.00	3.00	2.60	3.00	3.00	3.00
(17).....	3.30	4.00	4.00	3.50	3.50	3.50	4.00
(18).....	5.40	5.50	5.50	5.50	5.50	5.00	6.00
(19).....	6.50	7.00	7.00	8.00	10.00	6.00	7.00
(20).....	3.00	3.00	2.00	3.00	3.00	2.00	3.00
(21).....	.80	.70	.75	.70	.80	1.00	.80
(22).....	.06	.06	.05	.05	.06	.06	.06
(23).....	.07	.07	.10	.20	.07	.065	.07
(24).....	18.00	15.00	20.00	25.00	20.00	25.00	20.00
(25).....	.18	.06	.05	.10	.06	.05	.04
(26).....	.25	.30	.40	.25	.30	1.00	.30
(27).....	1.30	.60	1.00	.80	1.00	1.00	1.00
(28).....	.60	.80	1.10	.90	1.00	1.00	1.15
(29).....	.10	.10	.11	.10	.12	.12	.10
(30).....	26.00	25.00	25.00	26.00	26.50	26.00	28.00
(31).....	.06	.05	.055	.055	.055	.06	.06
(32).....	115.00	100.00	90.00	100.00	110.00	100.00	100.00
(33).....	115.00	80.00	90.00	.70	100.00	100.00	90.00
(34).....	2.00	1.25	1.50	1.20	1.30	1.50	1.20
(35).....	1.50	.9375	1.125	.90	.975	1.125	.90
(36).....	10.00	8.00	15.00	3.00	12.00	10.00	.15
(37).....	50.00	40.00	40.00	50.00	62.00	50.00	175.00
(38).....	4.00	6.00	10.00	6.00	5.00	5.00	5.00
(39).....	1.00	.85	.90	.90	.85	1.00	.95

SACRAMENTO, Cal.—The following bids received by the U. S. Engineer Office, Capt. J. G. Drinkwater, District Engineer, Sacramento, for furnishing one or two draglines and performing all work as directed by the engineer for shaping the banks and removing logs, etc., from the banks of the Sacramento river at various locations. Bids were taken as follows:
 (1) furnishing and operating 1 large dragline; 320 hours.
 (2) furnishing and operating all the

necessary plant for moving the large dragline between sites of the work. (This shall include the cost per hour of the dragline itself); 30 hours.
 (3) furnishing and operating 1 small dragline; 240 hours.
 (4) furnishing and operating all the necessary plant for moving the small dragline between sites of the work. (This shall include the cost per hour of the dragline itself); 30 hours.
 The bidders and their bids were:
 Smith & Swinyer, Southgate, (1) per

hour; \$9, total \$2880; (2) per hour \$9, total \$270; (3) per hour, \$8.50, total \$2040; (4) per hour \$8.50, total \$255.
 Lord & Bishop, Sacramento, (1) \$7, \$2240; (2) \$7, \$210; (3) \$4.67, \$1104; (4) \$4.67, \$1188.
 Chas. W. Rawson, Berkeley, (3) \$7.95, \$1908; (4) \$12.50, \$3375.
 Delta Dredging Co., Pittsburg, (3) \$6, \$1440; (4) \$9, \$270.
 Cloud & Sherman, Woodland, (3) \$20, \$1488; (4) \$6.20, \$186.

CLOVERDALE, Sonoma Co., Cal.—Frank Bryant, 2911 23rd Street, San Francisco, at \$4,427.80 submitted low bid to the Cloverdale City Council, A. Jos. Giovannetti, city clerk, for the construction of an Imhoff tank and 12 in. discharge pipe line. Complete bids follow:
 (A) Frank Bryant, San Francisco, \$4427.80.
 (B) F. J. Main and J. J. Ongaro, Fairfax, \$4734.50.
 (C) R. N. Nikceovich, Long Beach, \$4850.40.
 (D) B. A. Howkins & Co., San Francisco, \$5387.00.

The work involves:
 (1) 370 cu. yds. struc. excav.;
 (2) 230 cu. yds. excav. (pipe lines);
 (3) 102 cu. yds. concrete;
 (4) 24,000 lbs. reinf. steel;
 (5) 40 ft. 8-in. cast iron pipe;
 (6) 1650 ft. 12-in. clay or conc. pipe;
 (7) 56 ft. 18-in. clay or conc. pipe;
 (8) 1200 bd. ft. redwood lumber;
 (9) 17 cu. yds. sand (drying beds).

Unit bids follow:

	(A)	(B)	(C)	(D)
(1).....	.50	1.00	1.25	2.00
(2).....	.50	1.45	1.00	1.00
(3).....	16.00	18.50	14.50	21.00
(4).....	.05	.045	.05	.045
(5).....	2.00	3.75	4.00	4.00
(6).....	.58	.45	.65	.50
(7).....	2.30	1.00	.80	1.00
(8).....	80.00	75.00	100.00	100.00
(9).....	2.00	1.50	2.00	2.00

Seventeen hundred dollars has been granted to the city of Cloverdale by the Federal Public Works Administration for the work. Walter F. Adams, P. O. Box 331, Santa Rosa, engineer.

BIDS OPENED
 SAN DIEGO COUNTY, Cal.—Contracting Engineers, Inc., 2310 1/2 West Vernon Ave., Los Angeles, at \$12,743.25 submitted low bid to the State Highway Commission, Sacramento, for widening two reinforced concrete girder bridges each having a span of approx. 32 ft. between Ocean side and Carlsbad, in San Diego County, involving:
 (1) 450 cu. yds. struc. excavation;
 (2) 32 cu. yds. existing concrete to be removed and disposed of;
 (3) 1,576 lin. ft. furnish Douglas fir piles, including test piles;
 (4) 54 each driving Douglas fir piles, including test piles;
 (5) 150 cu. yds. Class A Port. cement concrete footing blocks;
 (6) 220 cu. yds. Class A Port. cement concrete, structures;
 (7) 30,250 lbs. bar reinf. steel;
 (8) 224 lin. ft. solid timber railing;
 (10) 1 lot misc. items of work.

Complete bids follow:
 (A) Contracting Engineers, Inc., Los Angeles, \$12,743.25.
 (B) Byerts & Dunn, Los Angeles, \$18,162.72.
 (C) Miracle Co., San Diego, \$19,351.

	(A)	(B)	(C)
(1).....	\$ 2.00	\$ 5.00	\$ 5.50
(2).....	5.00	7.00	10.00
(3).....	.25	.22	1.00
(4).....	28.00	25.00	20.00
(5).....	17.00	11.00	16.00
(6).....	20.00	20.00	35.00
(7).....	.045	.04	.06
(8).....	1.50	1.00	2.50
(9).....	3.00	6.00	3.00
(10).....	500.00	5248.00	750.00

BIDS OPENED

MONTEREY COUNTY, Cal.—Jones & King, Jackson St., Hayward, at \$103,897.10 submitted low bid to the State Highway Commission, Sacramento, to grade and surface 8.9 miles between King City and two miles south of Greenfield in Monterey County (bituminous surface treatment) involving:

- (1) 47,500 cu. yds. rdwy. excav. unclass;
- (2) 566,000 sta. yds. overhaul;
- (3) 6350 tons crusher run base;
- (4) 590 cu. yds. struc. excav.;
- (5) 13,220 tons screenings;
- (6) 685 tons emulsified asph. road oil
- (7) 61 cu. yds. class A Port. cem. conc. structures;
- (8) 4800 lbs. bar reinf. steel struc.;
- (9) 210 lin. ft. 12-in. CMP.;
- (10) 54 lin. ft. 15-in. CMP.;
- (11) 82 lin. ft. 18-in. CMP.;
- (12) 108 lin. ft. 24-in. CMP.;
- (13) 110 lin. ft. CMP clean and relay.;
- (14) 97 cu. yds. conc. removed from exlst. pavement and struc.;
- (15) 750 M. gals. water.;
- (16) 6210 bbls. fuel oil.;
- (17) 8.9 mi. mix fuel oil and shoulder material.;
- (18) 1320 lin. ft. laminated timber gd. rall.;
- (19) 800 lin. ft. move and reset exlat. gd. rall.;
- (20) 80 each guide posts.;
- (21) 37 each culvert markers.;
- (22) 16 mi. new property fence.;
- (23) 29 each fence gates.;
- (24) 471 sta. finish roadway.;

(25) 99 each monuments complete in place.

- Complete bids follow:
- (A) Jones & King, Jackson St., Hayward, \$103,897.10.
 - (B) Granite Const. Co., Watsonville, \$117,514.05.
 - (C) Heafey-Moore Co., Oakland, \$117,859.00.
 - (D) Tiffany Const. Co., San Jose, \$123,986.10.
 - (E) T. C. Rogers, Inc., Los Angeles, \$144,276.50.

Unit prices follow:

	(A)	(B)	(C)	(D)	(E)
(1)....	\$.22	\$.25	\$.28	\$.402	\$.42
(2)....	.005	.005	.005	.007	.02
(3)....	2.10	2.50	2.35	2.30	3.20
(4)....	.75	1.00	1.00	.60	.60
(5)....	2.80	3.25	3.15	3.18	3.20
(6)....	22.50	23.00	22.00	20.50	22.00
(7)....	20.00	18.00	20.00	22.00	20.00
(8)....	.045	.05	.05	.06	.05
(9)....	1.25	1.10	1.25	1.25	1.50
(10)....	1.40	1.35	1.50	1.50	2.00
(11)....	1.50	1.50	1.75	1.85	2.00
(12)....	2.25	2.30	2.50	2.40	2.50
(13)....	.75	.40	.50	.80	1.00
(14)....	3.00	1.25	2.50	3.00	4.00
(15)....	.50	1.50	1.35	1.50	2.00
(16)....	1.65	1.60	2.00	1.85	2.50
(17)....	100.00	360.00	350.00	375.00	460.00
(18)....	.80	.80	1.00	1.00	1.00
(19)....	.50	.50	.50	.60	1.00
(20)....	2.50	2.50	2.25	2.50	2.50
(21)....	2.50	2.00	2.00	2.00	2.50
(22)....	350.00	375.00	375.00	400.00	375.00
(23)....	15.00	13.00	15.00	15.00	15.00
(24)....	5.00	6.00	4.00	4.00	4.00
(25)....	2.50	2.50	1.50	3.00	3.00

CITY — RESURFACING — THIRD STREET

SAN FRANCISCO. — Fay Imp. Co., 760 Market St., at \$4950.85 submitted low bid to the Department of Public Works, S. J. Hester, Deputy Director, for resurfacing Third St. bet. Mariposa and Alameda Sts. Complete bids follow:

- (A) Fay Imp. Co., \$4950.85.
- (B) Dept. of Public Works, \$4970.33.
- (C) Eaton & Smith, \$5053.65.
- (D) A. G. Raisch, \$5156.14.
- (E) Pacific Pavement Co., Ltd., \$5,490.80.
- (F) Theo. Cohn, \$6083.25.
- (G) C. L. Harney, \$8601.75.

Quantities follow:

- (1) 571 lin. ft. unarmored conc. curb;
- (2) 900 lin. ft. granite curb re-dressed and reset.;
- (3) 4,000 sq. ft. basalt blocks, reset.;

- (4) 400 tons asph. conc. binder.;
- (5) 400 tons asph. conc. wearing surf. 1½-in. thick, in place.;
- (6) 3,600 sq. ft. asph. conc. pave.;
- (7) 1,725 sq. ft. asph. conc. pave. consisting of 3½-in. asph. conc. surf. base and 1½-in. asphalt wearing surf.;
- (8) 600 sq. ft. 4-in. mac. sidewalk with 1-in. asph. conc. wearing surface.;
- (9) 1 9-unit reflector sign with two ¼x½-in. straps as attached to a trolley pole.;
- (10) 1 9-unit reflector on standard 2-in. pipe post complete.;
- (11) 110 ft. 3x12-in. redwood curb in place.

Unit prices follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
(1).....	\$.60	\$.45	\$.40	\$.44	\$.50	\$.50	\$.70
(2).....	.22	.10	.20	.20	.35	.33	.50
(3).....	.065	.04	.10	.06	.11	.075	.60
(4).....	3.73	3.80	3.50	3.90	3.73	4.58	4.00
(5).....	3.54	4.00	3.68	3.90	4.08	4.58	4.75
(6).....	.06	.06	.07	.07	.05	.07	.10
(7).....	.13	.135	.17	.14	.14	.15	.25
(8).....	.07	.08	.05	.08	.06	.08	.10
(9).....	15.00	15.00	20.00	12.00	16.50	20.00	10.00
(10).....	15.00	15.00	20.00	15.00	16.50	20.00	10.00
(11).....	.20	.15	.20	.14	.18	.20	.23

20—MISC. SUPPLIES AND MATERIALS

BIDS WANTED—All bid calls formerly published under this heading now appear under the special heading "Machinery and Materials."

UNDER ADVICEMENT

SIGNAL HILL, Los Angeles Co., Cal.—The Signal Hill city council has taken under further consideration, the bid of L. W. Odell for a reinforced concrete tank on Signal Hill, and the bid of Chicago Bridge & Iron Works on an all-steel tank. All other bids were rejected.

The award may be made Nov. 13.

BIDS OPENED

LOS ANGELES, Cal.—The following bids were received by the U. S. Forest Service, 751 S Figueroa St., Los Angeles, for tractor rental on monthly basis as follows:

- (1) one 35-40 tractor.;
- (2) one 50 tractor.;
- (3) one 60 tractor.

Smith, Booth, Usher Co., Los Angeles, (1) \$325 each per month; no bid on (2) and (3).

Crook Co., Los Angeles, (1) \$250.;

Mack Woodbridge Co., Los Angeles, (1) \$350.;

Robinson-Roberts Co., (1) and (2) no bid.;

(3) \$570. Caterpillar "60."

19—MISC. CONSTRUCTION

BIDS OPENED

HAMILTON FIELD, Marin Co., Cal.—Frank J. Reilly, 6350 Fulton St., San Francisco, at \$9091 submitted low bid to Constructing Quartermaster, Hamilton Field, to construct a five-ton natural draft type incinerator. Only other bid was submitted by William Spivock, San Francisco, at \$10,000. Complete bids with unit prices follow:

- (A) Frank J. Reilly, San Francisco, \$9091.
- (B) William Spivock, San Francisco, \$10,000.
- (1) Excavation (earth) per cu. yd.;
- (2) Excavation (rock) per cu. yd.;
- (3) Mass concrete (forms in place) per cu. yd.;
- (4) Reinf. concrete (forms in place) per cu. yd.;
- (5) 8-in. terra cotta pipe (in place) per lin. ft.;
- (6) 1½-in. gal. W. I. water pipe (in place) per lin. ft.;
- (7) If brick building, above concrete changing floor and can wash equipment is omitted, deduct.

	(A)	(B)
(1).....	\$ 1.50	\$ 1.50
(2).....	4.00	4.00
(3).....	14.00	16.00
(4).....	16.00	17.00
(5).....	1.00	1.00
(6).....	.75	.80
(7).....	1500.00	1800.00

(2935) 1st report Oct. 27; 2nd Nov. 2, 1933.

ELECTION

SAN BERNARDINO, Cal.—An election will be held December 19 to vote on a \$133,000 bond issue to finance a program of civic improvements for emergency unemployment relief work. The projects include: \$33,000 for storm drains; \$10,000 for improvements in Pioneer Cemetery, and \$90,000 for park developments, including plunge.

TO ASK BIDS SHORTLY

SAN FRANCISCO—The Superintendent of Lighthouses, San Francisco, will call for bids shortly for furnishing and installing water tube boilers, fuel oil tanks and oil burning equipment on Lightship No. 83.

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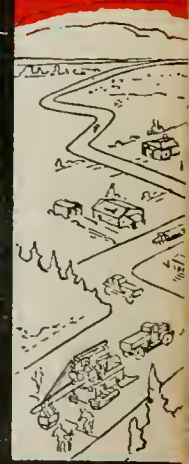
Ickes States New Building Policy

Employment Gains In October

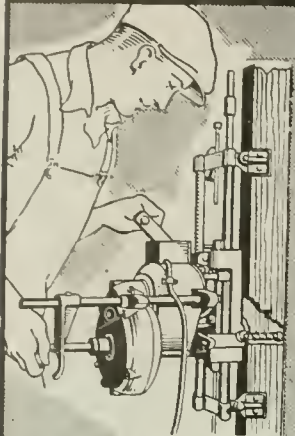
Review of Construction Awards

**Building Permits, Advance Reports of
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Unit Price Review



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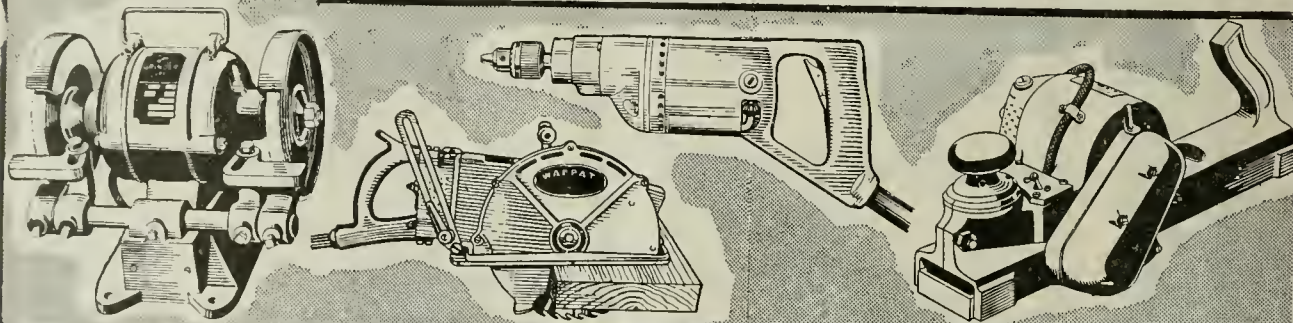
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SAN FRANCISCO, CALIF., NOVEMBER 18, 1933

No. 44

ICKES STATES NEW POLICY ON U. S. BUILDING

**To Allow PWA Money For
Necessities Only, Admin-
istrator Declares**

A new policy in the construction of public buildings is announced by Public Works Administrator Harold L. Ickes in an official statement accompanying release of \$16,678,675 for 237 buildings.

The statement of policy declares the appropriations "embrace erection of needed post offices of a sensible utilitarian character instead of the monumental edifices which have been built in past years."

The statement continues:

"All the buildings provided for in the allotment represent the result of re-studies of previous post office projects which brought wholesale revisions downward in expense without loss of efficiency.

"The allotment raised the total of Federal structures to be erected under supervision of the Treasury only from PWA funds to 389 at a cost of \$53,935,944. Additional similar buildings are now under study.

"Application of this rule of reason by PWA has made possible justification of the new post office structures at a greatly reduced cost giving the communities affected all the widespread regenerative benefits of over 160,000 man-months of employment during construction.

"In the place of the characteristic elaborately ornamented conspicuous stone structures frequently produced as new post offices, more modest and fitting buildings which will save the Government millions of dollars will be built. The supervising architect of the Treasury has completed an extensive study of the possibility of this type of structure in many towns and cities and reported such construction advisable and practicable.

"Without sacrifice of space or working conditions the new type of structures will be fashioned to fit into their surroundings and provide Government workers the facilities required to give good postal service.

"Suitable sites will be selected in localities picked with a view to improving the service. These sites will not necessarily be the most prominent and expensive corners

EXPECT FEDERAL BUILDING AWARD

Although official confirmation was lacking it was reliably reported yesterday that Public Works Administrator Harold L. Ickes had approved an additional appropriation of \$58,000 for the San Francisco Federal office building. This action would permit award of a contract immediately to the Great Lakes Construction Company, low bidder. An award this week has been anticipated by local authorities on the Great Lakes company's bid of \$2,566,800 on Alternate II, with minor deductions, but it will be necessary to obtain PWA approval of a slight increase in the original appropriation of \$2,689,000 in order to complete the building at this figure and allow for the estimated costs of lighting fixtures and elevators which are being let under separate contracts.

but will suit the convenience of both post office workers and users.

"Realizing the changes recent years have made in the use of the post offices and that in sizable communities the post office no longer serves as the town meeting place, and citizens rely on delivery service, special attention will be given to delivery facilities in connection with the new structures.

"Local materials of a suitable nature will be used wherever feasible in the buildings instead of expensive stones transported a long distance.

"Sites will be secured by the Government in the regular manner and the post office contracts and construction will be supervised as heretofore.

"The post offices provided for by the allotment will take the place of buildings where inadequate space is leased by the Government at large expense or where the physical condition of the building and working conditions are poor.

"The allotments cover the Treasury estimate of the cost of buildings, land, administration expense, furniture, fixtures, etc., for delivery of a complete post office ready for operation and in each instance current construction costs and reasonable changes in construction expenses have been taken into consideration."

OCTOBER GAIN IN CONSTRUCTION EMPLOYMENT 8.3%

**State Average Improves De-
spite Decrease in San
Francisco Vicinity**

An increase of 8.3 percent in number of employes and .6 percent in amount of weekly payrolls in October compared with September is reported for the construction industry by State Labor Commissioner Frank C. MacDonald.

The San Francisco-Alameda region reported a decrease of 11.9 percent in number of employes and a decrease of 13.9 in payrolls. Los Angeles firms reported an increase of 18.3 percent in employes and 14 percent increase in payrolls. The remainder of the state reported an increase of 18.2 percent in employes and decrease of 6.9 percent in payrolls.

Compared with October, 1932, the month showed a gain of 9.6 percent in employes and a decline of 4.4 percent in weekly payrolls. The San Francisco-Alameda area gain was 16.2 percent in number of employes and 10.4 percent in payroll totals. Los Angeles reported 27.1 percent gain in employes and 5.8 gain in payrolls. The remainder of the state showed a decline of 30.3 percent in employes and 42.7 percent in payrolls.

Sixty-five firms in San Francisco and vicinity reported 1,896 men employed with a total weekly payroll of \$39,894. Sixty-eight firms in Los Angeles and vicinity reported 3,988 employes with a weekly payroll of \$69,913.

CONTRACTORS TO HIRE DAM LABOR

Ninety-nine per cent of men employed in construction of Bonneville dam will be hired by private contractors, according to Major C. F. Williams, army engineer in charge.

The few governmental employes to get jobs will be hired from civil service lists, Major Williams said. Contractors working on the dam will be required to select their employes, except those in an executive capacity, from lists furnished by federal employment bureaus.

MARIN TOWER SECTIONS AT PIER SITE

Gate Bridge Manager Predicts
Favorable Action on
Approach Funds

Approximately 534 tons of massive column sections, to be used in construction of the Marin tower of the Golden Gate Bridge, have been barged to Lime Point from Alameda and landed on the cofferdam surrounding the Marin pier, which has been transformed into a material wharf with giant lifting machinery formerly used on the George Washington Bridge at New York in place.

The the same time General Manager James Reed arrived in San Francisco following an eastern trip of three weeks, upon which he presented the application of the Golden Gate Bridge and Highway District for N.R.A. construction funds.

In his presentation he was supported by Congressman Clarence F. Lea, of the first district of California. Mr. Reed left Washington to visit the eastern shops were materials for the Golden Gate Bridge are being fabricated, after having received assurance that the district's request was favorably received by the federal works administration and will be followed through by Congressman Lea. He stated that a definite commitment upon the part of the government agency may be expected within a few days.

However, he said, there is some eastern opposition due to the fact that it is felt that California projects already have been well taken care of. This, he pointed out, was overcome to a considerable degree when he called attention to the fact that a large proportion of the materials for the bridge is being fabricated in the east.

In visiting the eastern shops Mr. Reed found large numbers of men working on the various structural units. He declared that counting the men employed in the various plants producing materials for the bridge, the project is furnishing employment today for approximately 1400 workers. The proportion of these working on the bridge proper during the past week averaged 300 a day.

At the John A. Roehlings Sons plant at Trenton, New Jersey, 1600 tons of steel cable wire has been drawn, tested and accepted by the district's inspection force. Concrete poured during the past week on the Marin and San Francisco cable anchorages was 7600 cu. yds.

Leon S. Moisseff, bridge consultant, is in San Francisco and will attend Wednesday's meeting of the board of directors.

CLARIFY LABOR PROVISIONS OF PWA CONTRACTS

A bulletin has been issued to supervising architects and contractors on public works projects in the state of Utah by Geo. A. Yager, Utah state director of the National Reemployment Service, for the purpose of clarifying labor provisions on NRA projects.

The text of the bulletin follows:

"Circular No. 1 of the Federal Emergency Administration of Public Works (July 31) indicated some adjustment in and additions to, the Labor Policy as related to placement service. Under sub-section (5) of Section 1 of Article II, provision was made that 'Highly skilled or organized labor shall not be required to register for work at such local employment agencies, but shall be secured in the customary ways through recognized trade unions locals.' (Later it was explained that the inclusion of the word 'or' was a typographical error.)

"In the Contract Form later issued (P. W. A. 51), this matter was made even more specific. Since the changes this made seemed to cause the statement to be subject to conflicting interpretations, on Sept. 12, 1933, a statement of interpretation was secured from Col. H. M. Waite, Deputy Administrator of the P. W. A. This statement, in substance, declared that the contractor must request organized labor through recognized trade union locals; that such local shall furnish workers within 48 hours after receiving the request; that on failure of the trade union local to do so, the contractor might elect to allow an extension of the time, but that otherwise he must secure his qualified workers from agencies designated by the United States Employment Service."

APPROVE COPPER NAIL STANDARD

Simplified Practice Recommendation R150-33, Copper Wire Nails, has been accorded the required degree of written approval by the industry, and is to become effective December 1, 1933, according to an announcement by the Division of Simplified Practice, Bureau of Standards.

This recommendation, which was proposed and developed by the industry, covers the length and gauge of common copper wire nails with flat heads and copper wire slating nails.

The recommendation represents a substantial reduction in the variety heretofore listed for regular stock

WEBB RULES ON CITY ENGINEER QUALIFICATION

State Board Cannot Require
Registered Appointee in
Municipal Position

The office of city engineer in California municipalities may be held by an individual who is not a registered civil engineer, according to an opinion rendered by Attorney General U. S. Webb.

The opinion was given in answer to an inquiry from Pecos H. Callahan, assistant secretary of the State Board of Registration for Civil Engineers. In reply to the query Mr. Webb said:

"The same reasoning which we used in Opinion No. 8841 addressed to you under date of October 9, 1933, relative to qualifications of county engineers applies to this question.

"In general I will say that in the absence of a provision of general law or of a charter of a particular city requiring registration under the Civil Engineers Registration Act, Chapter 801, Statutes of 1929, as amended, as a qualification for the position of city engineer of a city, town or municipality, it is permissible for a person to occupy such position without registration and to hold the title and perform the duties of such position.

"We find nothing in the Municipal Corporation Bill (California Statutes 1889, page 930, as amended) laying down such a qualification for a city engineer. In the case of a city operating under a charter the provisions of the particular charter would have to be consulted to determine whether the city engineer of such city must be so registered."

LABOR PUBLICATION REVIEWS NRA CODES

One of the articles in the October Monthly Labor Review, published by the U. S. Bureau of Labor Statistics, summarizes permanent industrial codes adopted during September, 1933. It describes the provisions of the codes for the following industries:

Cast-iron soil pipe, leather, motion picture laboratories, salt production, wall paper, artificial flower and feather, bituminous coal mining, gasoline pump manufacturing, liboleum and felt base manufacturing, oil burner, textile bag, transit, and manufacture of underwear and allied products.

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LICENSES OF 7 CONTRACTORS ARE SUSPENDED

Registrar Revokes Permits After Hearings on Complaints

SACRAMENTO, Nov. 14. — Suspension of the state licenses of seven contractors found guilty of diversion of funds and other illegal practices, in violation of the California Contractors' Act, was announced here today by Col. Carlos W. Huntington, registrar of contractors.

Under the terms of the suspension orders, the contractors will be unable to engage again in the construction business during the period of suspension, and until such time as the complaint has been settled to the satisfaction of the registrar and the complaining witness.

Action of the registrar follows exhaustive investigation of charges filed against the contractors, and formal hearings conducted under the direction of Glen V. Slater, assistant registrar.

"We have suspended the licenses of these contractors," declared Registrar Huntington, "in keeping with our policy of taking punitive action against any builder whom we find to be guilty of illegal practices. We are relentlessly enforcing this law as a means of ridding the state of the unethical, unscrupulous and fly-by-night builder, who preys upon the gullible public."

The license of Bernard Kressfield, operating under the name of Interstate Bronze and Manufacturing Company, Culver City, was indefinitely suspended for abandonment of contract for the brass and ornamental work on the new federal post office in Sacramento.

Fred J. Rich, inspector, was the complaining witness, and N. P. Severin Company, Chicago, Illinois, general contractors on the \$1,000,000 project. The suspension followed the recommendation of Referee Ralph S. Bowdle.

Paul Wetzel of Bell, was found guilty of diversion of funds and abandonment of a contract. His license was ordered suspended for 60 days and until such time as restitution is made to Mrs. Natividad Servin, 218½ West 18th Street, Los Angeles, complaining witness. Wetzel was charged with accepting \$290 from Mrs. Servin for construction of a building, and diverting the money to his own use. He pleaded guilty, and has repaid \$130 through the registrar, with a promise to reimburse Mrs. Servin for the remainder.

Charged with diversion of funds, Allan MacDonald, 4016 Rhoda St., Oakland, has been ordered to surrender his license for 90 days. Albert C. Moe, Foot of 7th St., Oakland, charged that MacDonald purchased materials from him for a building at Lee and Bergier Sts., San Leandro, but failed to pay for the materials, defeating Moe's claim

U. S. Chamber Review Says Code Wage Dispute Delaying Building

The semi-monthly publication, "Washington Review," published this week by the Chamber of Commerce of the United States has the following to say of the dispute that has arisen over pay scales in the construction code:

"Serious obstacles to the speeding up of private building operations on a wide scale are beginning to appear in difficulties that have arisen over code provisions for the construction industry.

"It has been generally recognized that private, as well as public, construction should go ahead as rapidly as possible. However, any large or immediate expansion of private building appears impossible if wage rate proposals now before the National Recovery Administration are to prevail.

"Codes generally have confined themselves to maximum hours of labor and to a minimum wage for any employee in an industry. After conclusion of hearings on the general construction code, and after the document had been revised and was approaching final form proposals earlier made by representatives of labor came forward within the Recovery Administration that to the usual provision fixing minimum wages for all employees there should be added provision for fixing higher minimum pay for skilled workers.

"As evidenced by some documents already filed, the next apparent step is to be a proposal that in supplemental codes to be prepared for branches of the industry, and to be coordinated with the general code, there should be inserted provisions fixing the rates of compensation for each craft and each occupation throughout the country. For carpenters, cement workers, masons and all the other workers in the building trades,

there would be nation-wide rates of wage below which no worker might be employed, the rate being the same, for example, in Montana, Arizona, Maine, most of Texas, and Wisconsin, outside of Milwaukee.

"Obviously, these proposals, if made effective in the codes, offer an obstacle to resumption of building in many parts of the country.

"President Harriman, in a special communication, has called the attention of the Chamber's membership to the gravity of the situation. His letter says:

"An issue has arisen with respect to the general code for the construction industry. This issue is of direct interest to every community which desires to have private construction go forward.

"The general code contains the customary provision for a minimum wage for all workers in construction. Since the code has reached an advanced state in its preparation for approval, proposals have been insistently urged in the labor interest that to the usual provision for a minimum wage in the industry there should be added a minimum for skilled workers. Acceptance of these proposals would undoubtedly mean that there will be proposals that in supplementary codes for the different branches of the construction industry there should be inserted rates of wage for every craft and occupation.

"Industries having no relation to construction will be interested in the new departure which is being urged in the labor provisions of codes. Communities which have been looking forward to revival of private construction, and which would find in these proposals with respect to wages such increases that construction could not proceed, will be immediately concerned."

by assigning to a third party sums due him from the owner.

Because John W. Marshall, subcontractor, 260 Bennett Ave., Long Beach, allegedly failed to complete a building for the price and conditions specified in his contract with Eric Flodine, 2021 Wellington Road, Los Angeles, general contractor, his license was suspended for 30 days. His attorney-in-fact, John Hutchinson, was named a co-defendant in the action, and Marshall was instructed by Registrar Huntington to handle all contracts in his own name, when, and if, his license is reinstated.

Acting on the recommendation of District Supervisor I. L. Swearingen, Los Angeles, Registrar Huntington ordered suspension of the license of Robert J. Moorhead, 1649 Longwood Avenue, Los Angeles, for 60 days, and until adequate restitution of damages is made to Abe Friendly, 453 South Spring Street,

Los Angeles, complaining witness. Moorhead was found guilty of diversion of funds in connection with a building project at 5749 South Western Avenue, Los Angeles.

The license of O. J. Fisher, Laguna Beach, was also ordered suspended following introduction of evidence to show that he allegedly failed to pay E. R. Jones, Laguna Beach, complaining witness, his wages in full. It was charged that Fisher paid only \$492 on a labor bill totaling \$756, leaving a balance of \$263.

Acting on recommendation of Orman Lutz, district supervisor, Registrar Huntington ordered the license of Matt H. Fugina, 769 Rhode Island Street, San Francisco, suspended for 30 days on charges of diversion of funds in connection with a construction job for Mrs. Rose Bio, 1339 38th Ave., San Francisco. Harry Apte, 287 Arleta St., San Francisco, was the complaining witness.

NEVADA HIGHWAY AWARDS

Following is a tabulation to date of contracts (exceeding \$10,000) awarded by the Nevada State Highway Directors since September 14, 1933:

Constructing Authority	Contract	Contractor	Bid	Date Awarded
Nevada Highway Commission.	10.92 mi. highway const., Nye County	Dodge Const. Co., Inc. Fallon, Nev.	\$ 43,068.80	Sept. 21
Nevada Highway Commission.	12.10 mi. highway reconst., Lyon and Churchill Cos.	Union Paving Co., San Francisco	\$ 68,286.16	Oct. 11
Nevada Highway Commission.	13.5 mi. highway reconst., Lincoln County	N. M. Ball, Berkeley, California	\$ 99,121.11	Oct. 11
Nevada Highway Commission.	21.69 mi. surf., White Pine and Elko Counties	Utah Const. Co. Ogden	\$138,084.90	Oct. 25
Nevada Highway Commission.	22.28 mi. surf., Mineral and Esmeralda Counties	Geo. Pollock Co., Sacramento	\$193,792.12	Oct. 25
Nevada Highway Commission.	14.87 mi. highway const., Clark County	Gibbons & Reed Co., Salt Lake City	\$130,086.22	Oct. 25
Nevada Highway Commission.	15.04 mi. highway const., Humboldt County	George French, Jr., Stockton, Calif.	\$ 94,574.72	Oct. 25
Nevada Highway Commission.	11.73 mi. highway reconst., Lander County	Wheelwright Constr. Co., Ogden, Utah	\$ 89,886.67	Oct. 4
Nevada Highway Commission.	18.7 mi. highway reconst., Lander and Eureka Counties	N. M. Ball, Berkeley, California	\$ 91,317.90	Oct. 4

U. S. PUBLIC ROADS AWARDS

Following is a tabulation to date of contracts (exceeding \$10,000) awarded by the U. S. Bureau of Public Roads in California, Arizona and Oregon since September 14, 1933:

Constructing Authority	Contract	Contractor	Bids	Date Awarded
Bur. Public Roads, S. F.	Two bridges, Trinity County	Rolla Arbuckle, Anderson	\$ 12,802.50	Sept. 22
U. S. Bur. Public Roads, S. F.	6.237 mi. grading, Tuolumne Co.	Geo. Pollock, Sacto.	\$143,829.00	Sept. 22
U. S. Bur. Public Roads, S. F.	2.655 mi. grading, Trinity Co.	Granfield, Farrar and Carlin, S. F.	\$ 27,607.50	Sept. 22
U. S. Bur. Public Roads, S. F.	1.513 mi. grading, Trinity Co.	Granfield, Farrar and Carlin, S. F.	\$ 67,918.80	Sept. 25
U. S. Bur. Public Roads, S. F.	Grading, Lava Beds, Modoc Co.	Larsen Bros., Sacto.	\$ 64,070.60	Oct. 3
U. S. Bur. Public Roads, S. F.	Base course, Coconino Co.	Jac., Albuquerque	\$124,118.00	Oct. 13
U. S. Bur. Public Roads, S. F.	3.367 mi. grading, Tulare Co.	Mittry Bros., L. A.	\$222,711.25	Oct. 13
U. S. Bur. Public Roads, S. F.	Surfacing, Mariposa County	Granite Const. Co., Watsonville	\$ 71,482.45	Oct. 27
U. S. Bur. Public Roads, S. F.	Surf., Wawona Rd.-Glacier Pt. Yosemite Pk., Mariposa Co.	Granite Construction Co., Watsonville	\$ 71,482.45	Nov. 1
U. S. Bur. Pub. Roads, Phoenix	9.688 miles grading	Haddock & Lindberg, Pasadena, Cal.	\$168,495.00	Sept. 15
U. S. Bur. Pub. Roads, Phoenix	Bridge, Dead Indian Canyon	Vinson & Pringle, Phoenix	\$ 44,938.00	Sept. 29
U. S. Bur. Pub. Roads, Phoenix	9.688 mi. grading, Coconino Co.	Haddock & Lindberg, Pasadena, Cal.	\$168,495.00	Oct. 5
U. S. Bur. Pub. Roads, Phoenix	Railway overpass, Apache and Navajo Counties, Ariz.	D. E. Webb Const. Co. Phoenix	\$ 15,367.00	Oct. 13
U. S. Bur. Pub. Roads, Phoenix	Two bridges, Apache and Navajo Counties, Ariz.	Whiting Brothers, St. Johns, Ariz.	\$ 37,202.00	Oct. 13
U. S. Bur. Pub. Roads, Phoenix	2.947 mi. grading, Coconino Co.	Haddock & Lindberg, Pasadena, Cal.	\$ 42,447.50	Oct. 14
U. S. Bur. Pub. Roads, Phoenix	5.247 mi. grading, Gila Co.	Geo. Rowland, L. A.	\$ 42,782.45	Oct. 14
U. S. Bur. Pub. Roads, Phoenix	6.78 mi., Coconino & Gila Cos.	H. J. Hagen, Globe, Arizona	\$110,079.50	Oct. 28
U. S. Bur. Pub. Roads, Phoenix	10.938 mi. grading, Sec. D, Cameron-Desert View App. road	Morrison & Kundsén, Boise, Idaho	\$216,866.90	Oct. 31
U. S. Bur. Pub. Roads, Phoenix	Grade 2.445 mi. Chiricahua National For. Hiway, Cochise Co.	W. A. Rawls, El Paso, Texas	\$114,735.00	Nov. 3
U. S. Bur. Public Roads, S. F.	Grading, Sec. A, Fed. Lands Hiway, Mohave Co., Ariz.	Weymouth Crowell Co. Los Angeles	\$176,399.00	Nov. 10
U. S. Bur. Pub. Roads, Portland	Bridges, Lane Co., Oregon	Kuckenberg and Wittman, Portland	\$ 68,373.00	Sept. 25
U. S. Bur. Pub. Roads, Portland	Conc. approach, Douglas Co., Oregon	J. G. Johnston, Newberg, Ore.	\$ 21,793.00	Sept. 25
U. S. Bur. Pub. Roads, Portland	6.337 mi. hiway const., Linn Co., Oregon	Beck & Grinrod, Portland	\$ 24,124.00	Sept. 26
U. S. Bur. Pub. Roads, Portland	Hiway const., Pendleton - John Day, Grant Co., Oregon	Von der Hellen & Pierson, Medford, Ore.	\$ 90,120.00	Oct. 3
U. S. Bur. Pub. Roads, Portland	Hiway const., Weston Elgin Hiway, Union Co., Oregon	Geo. F. Price, Dayton, Oregon	\$ 47,539.90	Oct. 3
U. S. Bur. Pub. Roads, Portland	Three bridges, North Santiam Hiway, Linn Co., Ore.	Tom Lillebo, Reedsport, Ore.	\$ 42,970.50	Oct. 3
U. S. Bur. Pub. Roads, Portland	Construct Rim Road grading Proj., Klamath Co., Ore.	Von der Hellen & Pierson, Medford, Ore.	\$308,780.00	Oct. 3
U. S. Bur. Pub. Roads, Portland	Road rolling, Canyon City-Burns Hiway, Grand & Harney Cos.	Newport Const. Co., Portland	\$ 39,837.00	Oct. 5
U. S. Bur. Pub. Roads, Portland	Grade & dralng, 3.9 mi., North Santiam Hiway, Linn Co. Ore.	Kern & Kibbe, Portland	\$104,579.00	Nov. 4

U. S. WAR DEPARTMENT AWARDS

Following is a tabulation to date of principal contracts awarded by the War Department for improvements at Pacific Coast Army posts since October 25, 1933:

Constructing Authority	Contract	Contractor	Bids	Date Awarded
U. S. War Dept., Const. Q. M.	Post Road Sys., Hamilton Field	Pacific States Const. Co., San Francisco...	\$ 89,540.00	Oct. 25
U. S. War Dept., Const. Q. M.	Sewer Exten., Hamilton Field	Oakland Sewer Const. Co., Oakland	\$ 14,288.00	Oct. 25
U. S. War Dept., Const. Q. M.	Water System Exten., Hamilton Field	George C. DeGolyer, Oakland	\$ 21,000.00	Oct. 25
U. S. War Dept., Const. Q. M.	Gas Distrib. Exten., Hamilton Field	P. L. Burr, S. F.	\$ 10,838.00	Oct. 25
U. S. War Dept., Const. Q. M.	Guard House & Fire Station, Hamilton Field	Frank J. Reilly, San Francisco	\$ 38,230.00	Oct. 30
U. S. War Dept., Const. Q. M.	Garage, Hamilton Field	Frank J. Reilly, San Francisco	\$ 16,341.00	Oct. 30
U. S. War Dept., Const. Q. M.	Fencing, Hamilton Field	Trusk and Squier Co., San Francisco	\$ 16,219.00	Oct. 31
U. S. War Dept., Const. Q. M.	Roads & Walks, Fort Mason.....	Pacific States Const. Co., San Francisco...	\$ 12,407.50	Oct. 28
U. S. War Dept., Const. Q. M.	Barracks Building, Fort Lewis, Washington	MacDonald Const. Co., Tacoma, Wash.	\$347,527.00	Oct. 31
U. S. War Dept., Const. Q. M.	Officers' Qtrs., Hamilton Field ..	Meyer Const. Co., S.F.	\$323,230.00	Nov. 3
U. S. War Dept., Const. Q. M.	Barracks, Hamilton Field	K. E. Parker Co., S. F.	\$452,900.00	Nov. 3
U. S. War Dept., Const. Q. M.	Officers' Qtrs. (six double sets) Hamilton Field	Frank J. Reilly, San Francisco	\$268,731.00	Nov. 3
U. S. War Dept., Const. Q. M.	Paved Aprons, Hamilton Field	N. M. Ball, Berkeley..	\$106,500.00	Nov. 8
U. S. War Dept., Const. Q. M.	Wood dock, Hamilton Field.....	Bundesen & Lauritzen Pittsburg, Cal.	\$ 13,996.00	Nov. 8
U. S. War Dept., Const. Q. M.	Maintenance Building, Hamilton Field	San Francisco Const. Co., Inc., S. F.	\$ 30,977.00	Nov. 8
U. S. War Dept., Const. Q. M.	Dredging, U. S. Army Transport Docks, Fort Mason.....	Ben C. Gerwick, Inc., San Francisco	\$ 46,117.00	Nov. 9
U. S. War Dept., Const. Q. M.	Hangars, Hamilton Field.....	R. E. McKee, L. A.	\$945,650.00	Nov. 13

ARIZONA HIGHWAY AWARDS

Following is a tabulation to date of contracts (exceeding \$10,000) awarded by the Arizona State Highway Commission since September 14, 1933:

Constructing Authority	Contract	Contractor	Bids	Date Awarded
Arizona Highway Commission.	3.7 mi. grading, Flagstaff-Fredonia	Hodgman & McVicar, Flagstaff, Ariz.	\$107,017.47	Sept. 19
Arizona Highway Commission.	Highway const., Flagstaff-Williams	New Mexico Const. Co. Hodgman & McVicar, San Marino & Packard & Tanner, Flagstaff, Ariz.	\$128,641.33	Sept. 19
Arizona Highway Commission	Highway const., Flagstaff-Williams	Pearson & Dickerson, Riverside, Cal., and Rogers Bros., Phoenix, Ariz.	\$206,851.28	Sept. 19
Arizona Highway Commission.	Highway const., Holbrook-Lupton Highway	Packard and Tanner, Phoenix, Ariz.	\$ 23,587.64	Sept. 20
Arizona Highway Commission..	Highway const., Blythe-Wickenburg Highway	Packard and Tanner, Phoenix, Ariz.	\$119,252.22	Sept. 28
Arizona Highway Commission.	Surf., Ashfork-Kingman Hiway	Packard and Tanner, Phoenix, Ariz.	\$180,130.87	Sept. 28
Arizona Highway Commission	Grading, Blythe - Wickenburg Highway	Packard and Tanner, Phoenix, Ariz.	\$247,238.51	Sept. 28
Arizona Highway Commission..	Bridge, Globe-Showlow Hiway...	Lee Moor Contr. Co., El Paso, Texas	\$ 98,631.91	Sept. 28
Arizona Highway Commission..	Highway const., Arizona State.	Orr & Rawls and L. C. Lashmet, Phoenix ...	\$ 88,990.76	Sept. 28
Arizona Highway Commission..	Grading, Benson-Douglas hiway	Pleasant-Hasler Const Co., Phoenix	\$ 75,415.96	Sept. 28
Arizona Highway Commission..	Overpass, Benson-Vail Highway	Phoenix-Tempe Stone Co., Phoenix	\$ 41,668.65	Oct. 17
Arizona Highway Commission	Highway const., Benson-Vail ...	Phoenix-Tempe Stone Co., Phoenix	\$102,908.21	Oct. 17
Arizona Highway Commission	Grading, Prescott - Phoenix Highway	Phoenix-Tempe Stone Co., Phoenix	\$220,567.62	Oct. 31
Arizona Highway Commission ..	Grading & draining, Holbrook-Lupton Hiway-83-D, Apache County, Ariz.	Hedgman, MacVicar & Royden, Flagstaff ...	\$163,868.69	Nov. 1
Arizona Highway Commission..	Grading & draining, Holbrook-Lupton Hiway-83-E, Apache County, Ariz.	Heuser & Garnett & Fleming, Glendale, California	\$160,368.00	Nov. 1
Arizona Highway Commission	Grade & drain, Ashfork-Kingman Hiway NRH 80-J.....	Pearson & Dickerson, Contractors, Inc., Phoenix, Ariz.	\$119,111.21	Nov. 9

PERMITS AND CONTRACTS

SAN FRANCISCO COUNTY

814	S F Society	Owner	1500
815	Sessien	McCarthy	1000
816	Tobias	Salomon	1488
817	Wallace	Malloch	8000
818	Satchell	Hannah	6000
821	Western	Cement	1959
822	Pissus	Salomon	2250
823	Beardsley	Duncanson	1000
824	Gilmore	Owner	7500
819	Amalgamated	Barrett	10000
820	Kambic	Kambic	2500

WALL, ETC.

814) NW SIXTEENTH AND ALABAMA STS. Class B concrete boundary wall and yard.
Owner—S. F. Society for Prevention of Cruelty to Animals.
Engineer—C. Heller, III Sutter St., San Francisco. \$1500

ALTERATIONS

(815) 511 DUBOCE AVE.; alter flats.
Owner—T. Sessien, % contractor.
Plans by E. E. Young.
Contractor—Robt. McCarthy, 1363 14th Avenue. \$1000

REPAIRS

(816) NO. 525 CONNECTICUT ST. Repair fire damage to dwelling.
Owner—Mr. Tobias, % 1734 Broderick St., San Francisco.
Architect—Not Given.
Contractor—L. Salomon, 1734 Broderick St., S. F. \$1488

STORE

(817) N SUTTER 37-6 E Hyde St. One-story brick store.
Owner—J. P. Wallace, Bohemian Club, San Francisco.
Engineers—Ellison & Russell, Pacific Bldg., San Francisco.
Contractor—J. S. Malloch, 666 Mission St., San Francisco. \$8000

DWELLING

(818) E FORTY-EIGHTH AVE 101 N Sutro Heights Ave. Two-story and basement frame dwelling.
Owner—G. E. H. Satchell, Exchange Bldg., Pine St., San Francisco.
Architect—A. A. Cantin, 557 Market St., San Francisco.
Contractor—Hannah & Wooldridge, 268 Market St., S. F. \$6000

SHOP BLDG

(819) W RUSS ST. 100 S Howard St. One-story and mezzanine Class C shop building.
Owner—Amalgamated Laundries, 385 Eighth St., San Francisco.
Architect—E. A. Eames, 353 Sacramento St., San Francisco.
Engineer—Ellison & Russell, Pacific Bldg., San Francisco.
Contractor—Barrett & Hillp, 918 Harrison St., San Francisco. \$10,000

STORE

(820) SE POTRERO AVE. & MARIPOSA. One-story frame store.
Owner—J. Kambic, 500 San Bruno Ave. and F. Doherty, 465 Utah St.
Architect—Not Given.
Contractor—J. Kambic, 500 San Bruno Ave., San Francisco. \$2500

ALTERATIONS

(821) NINTH AND BRANNAN STS. Alter warehouse.
Owner—Western Pacific R. R. Co., Mills Bldg., San Francisco.
Architect—Not Given.
Contractor—Cement Gun Constr. Co., 85 Second St., S. F. \$1959

REPAIRS

(822) NW PLEASANT AND TAYLOR STS. Repair fire damage to flats.
Owner—Mr. Pissus, 1734 Broderick St., San Francisco.
Architect—Not Given.
Contractor—L. Salomon, 1734 Broderick St., San Francisco. \$2250

UNDERPINNING

(823) NO. 448 TENTH ST. Concrete underpinning.
Owner—Emma L. Beardsley, Hotel Cecil, San Francisco.
Architect—Not Given.
Contractor—Duncanson Harrelson Co. DeYoung Bldg., S. F. \$1000

ADDITION

(824) NE THIRD and 18th Sts.; addition to office building.
Owner—Gilmore Oil Co., 3rd and 18th Streets.
Architect—Hibbard, Gerity & Kerton, 816 W 5th St., Los Angeles. \$7500

ALAMEDA COUNTY

493	Ohanneson	Henderson	1500
No.	Owner	Contractor	Amt
494	Pacific	Owner	3000
495	Wolfe	Urch	9000
496	Chevrolet	Owner	8000
497	Grayson	Owner	1000
498	Whitthorne	Owner	1000
499	Norton	Beckett	7000
500	Veale	Lundgren	2450
501	Veale	Lundgren	2450
502	Fisher	Owner	8000
503	Sardell	Peterson	1200

ALTERATIONS

(493) NO. 1346 REGENT ST. ALAMEDA. Alter to frame building (install partitions).
Owner—Dr. John Ohanneson, Prem.
Architect—Not Given.
Contractor—E. F. Henderson, 6100 Chabot Road, Oakland. \$1500

STOREHOUSE

(494) NO. 701½ CEDAR ST., BERKELEY. One-story storehouse.
Owner—Pacific Paint & Varnish Co., Fourth and Cedar Sts., Berkeley.
Engineer—J. E. Davies, 50 Hawthorne St., San Francisco. \$3000

DWELLING

(495) 171 ALVARADO ROAD, BERKELEY; 3-story 11-room frame dwelling and garage.
Owner—R. E. Wolfe, 6436 Hillegass, Berkeley.
Architect—Edwin L. Snyder, 2101 Shattuck Ave., Berkeley.
Contractor—Erner W. Urch, 1924 50th Ave., Oakland. \$9000

ADDITION

(496) 69th AVE. and Foothill Blvd., OAKLAND; addition on roof.
Owner and builder—Chevrolet Motor Co., 69th Ave. and Foothill Blvd., Oakland.
Architect—Not Given. \$8000

ALTERATIONS

(497) NO. 2317 SANTA CLARA AVE. ALAMEDA. Alterations to frame building.
Owner—Grayson Owen Co., Prem.
Architect—Not Given. \$1000

ALTERATIONS

(498) W WASHINGTON ST. 96 S 11th St., OAKLAND. Alterations.
Owner—Whitthorne & Swan, Prem.
Architect—Wm. Knowles, 429 20th St., Oakland. \$1000

REPAIRS

(499) NO. 3898 E-TENTH ST., OAKLAND. Fire repairs to factory.
Owner—B. W. Norton, 3898 E-10th St., Oakland.
Architect—Ray Keefer, 740 Wesley Ave., Oakland.
Contractor—A. T. Beckett, 224 Scenic Ave., Piedmont. \$7000

DWELLING

(500) NO. 1712 NINTH ST., BERKELEY. One-story 4-room frame dwelling and garage.
Owner—Mr. Veale.
Architect—Not Given.
Contractor—Andrew Lundgren, 2334 Curtis St., Berkeley. \$2450

DWELLING

(501) NO. 1710 NINTH ST., BERKELEY. One-story 4-room frame dwelling and garage.
Owner—E. Veale.
Architect—Not Given.
Contractor—Andrew Lundgren, 2334 Curtis St., Berkeley. \$2450

ADDITION

(502) W SEVENTY-THIRD AVE 300 S Hillside St., OAKLAND. Brick and concrete addition.
Owner—Fisher Body St. Louls Co., 7201 Hillside St., Oakland.
Architect—Alben Froberg, 1955 Webster St., Oakland. \$8000

REPAIRS

(503) 236 WAYNE AVE., OAKLAND; fire repairs.
Owner—John Sardell, 236 Wayne Ave. Oakland.
Architect—Not Given.
Contractor—Wallace Peterson, 7127 Weld St., Oakland. \$1200

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

170	Flood	NePage	40608
171	Giannone	Newsom	21650
172	St. Francis	Mattoch	7863
173	Satchell	Hannah	6698
174	Goodyear	MacDonald	5568

ALTERATIONS

(170) E POWELL ST., bet. Market and Ellis Sts., Flood Bldg. All work for alterations to electrical distribution system.
Owner—Flood Realty Co., Flood Bldg., San Francisco.
Engineers—Hunter & Hudson, 41 Sutter St., San Francisco.
Contractor—NePage-McKenny Co., 7 Front St., San Francisco.
Filed Nov. 9, '33. Dated Nov. 9, '33.
On 1st of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, \$40,608
Bond, none. Limit, 90 days. Forfeit, none. Plans and specifications filed

CLASS C BLDG.

(171) W STOCKTON 70-11¼ S Green S 61-10 to N Card Alley x W 77-6. All work except general grading, wrecking, glass and glazing, chromium work, sani-onyx, elevator, steam boiler, breeching and flue for two-story, basement and mezzanine Class C concrete and reinforced steel building.
Owner—Luigi Giannone, % A. Cavalli, 255 Columbus Ave., San Francisco.
Architect—William Mooser, Monadnock Bldg., San Francisco.
Engineer—L. H. Nisklian.
Contractor—William A. Newsom Jr., 3730 Fillmore St., San Francisco.

Filed Nov. 9, '33. Dated Nov. 2, '33.
 1st floor concrete work completed\$4330
 Roof sheeting on..... 4330
 Brown coat plaster on..... 4330
 When completed 4330
 Usual 35 days..... 4330
TOTAL COST, \$21,650
 Bond, \$10,825. Surety, Fidelity & Deposit Co. of Maryland. Limit, 90 days. Forfeit, none. Plans and specifications filed.

ALTERATIONS

(172) COMG. AT PT OF INTER OF the N line of that certain tract of land conveyed by the Panama Pacific International Exposition Co. to the City and County of S. F. for park purposes and the W line Broderick St., if extended N. W 300xN 200. All work for alterations and construct additions and changes to St. Francis Yacht Club
 Owner—St. Francis Yacht Club, Yacht Harbor, San Francisco.
 Architect — Angus McSweeney, 277 Pine St., San Francisco.
 Contractor—A. F. Mattock, 212 Clara St., San Francisco.

Filed Nov. 14, '33. Dated Nov. 10, '33
 On or before 15th of ea month 75%
 Usual 35 days..... 25%
TOTAL COST, \$7863
 Bond, \$7863. Surety, United States Guaranty Co. Limit, 75 days. Forfeit, none. Plans and specifications filed.

RESIDENCE

(173) E FORTY-EIGHTH AVE 101-6 N Sutro Heights Ave N 33xE 120 OL 330. All work for two-story and basement frame residence.
 Owner—George E. H. Satchell, Exchange Bldg., Pine St., S. F.
 Architect—A. A. Cantin, 557 Market St., San Francisco.
 Contractor—J. S. Hannah and L. C. Woodbridge (as Hannah & Woodbridge), 268 Market St., San Francisco.

Filed Nov. 14, '33. Dated Nov. 9, '33.
 1st floor joists in place.....\$1255.85
 Frame up 1256.00
 Brown coat plaster on..... 1256.00
 When completed 1256.00
 Usual 35 days..... 1674.65
TOTAL COST \$6698.50
 Bond, \$6698.50. Sureties, Louis P. Dunkley, J. P. Gilsinan and Robt. F. Morris. Limit, 80 days. Forfeit, none Plans and specifications filed.

ALTERATIONS

(174) E MISSION AND ELEVENTH NE 133-4xE 160 to NW Minna St. MB 6. All work for alterations, additions and replacements in office of building.
 Owner—Goodyear Tire & Rubber Co. of Calif., Inc., Los Angeles.
 Architect—Not Given.
 Contractor—MacDonald & Kahn Co., Ltd., Financial Center Bldg., San Francisco.

Filed Nov. 15, '33. Dated Nov. 13, '33.
 Upon completion\$4176
 Usual 35 days..... 1392
TOTAL COST, \$5568
 Bond, \$5568. Surety, Fidelity & Deposit Co. of Maryland. Limit, 25 days. Forfeit, none. Plans and specification filed.

ALAMEDA COUNTY

67 Brown	Cone	\$628
68 Brown	Duval	10950
69 Regents	Clinton	17579
70 Regents	Immell	2579

ALTERATIONS

(67) THIRTEENTH ST. & BROADWAY, Oakland. All work for remodeling store and office building.
 Owner — Matilda E and Everett J. Brown, etal, 600 29th St., Oakland
 Architect—Edw. T. Foulkes, 357 12th St., Oakland.

Contractor — Wilbur C. Cone, 1744 Broadway, Oakland.
 Filed Nov. 14, '33. Dated Nov. 13, '33.
 On of before 5th of month... 75%
 Usual 35 days..... 25%
TOTAL COST, \$8628
 Bond, \$8628. Surety, Massachusetts Bonding & Insurance Co. Limit, forfeit, none. Plans and specifications filed.

ALTERATIONS

(68) NW THIRTEENTH & BROADWAY, Oakland. All work for alterations to first floor and basement of store building.
 Owner—Matilda E. and Everett J. Brown, etal, 600 29th St., Oakland
 Architect—Edwin A. Duval, Broadway Bldg., Oakland.
 Contractor—Edwin A. Duval, Broadway Bldg., Oakland.

Filed Nov. 14, '33. Dated Nov. 13, '33.
 Rough plumbing and electrical work installed\$3600
 When completed 3600
 Usual 35 days..... 2750
TOTAL COST, \$10,950
 Bond, \$10,950. Surety, Hartford Accident & Indemnity Co. Limit, forfeit, none. Plans and specifications filed.

FIELD LABORATORY

(69) STRAWBERRY CANYON, University of California; general construction of a field laboratory.
 Owner—Regents of the University of California, Berkeley.
 Architect—W. P. Stephenson, University of California.
 Contractor—Clinton Stephenson Const. Co., 550 Montgomery Street, San Francisco.

Filed Nov. 15, '33. Dated Nov. 13, '33.
 1st of each month.....75%
 Usual 35 days..... 25%
TOTAL COST, \$17,579.00
 Bond: Labor and material, \$9000; Performance, \$9000. Sureties, Glens-Falls Indemnity Co. Forfeit, \$15 per day. Limit, 68 days. Plans and Spec. filed.

GRADING

(70) STRAWBERRY CANYON, University of California; grading site for Veterinary Science Development.
 Owner—Regents of the University of California, Berkeley.
 Architect—Herbert B. Foster, University of California.
 Contractor—Lee J. Immell, 1031 Evelyn St., Berkeley.

Filed Nov. 15, '33. Dated Nov. 13, '33.
 On completion75%
 Usual 25 days..... 25%
TOTAL COST, \$2579
 Bond: Performance, \$1500; Labor and material, \$1500. Sureties, Maryland Casualty Co. Forfeit, \$25 per day. Limit, 45 days. Plans and Spec. filed.

SAN FRANCISCO UNDER \$1000

ADD to store, \$250; 837 Howard St.; owner, E. H. Dettner, 835 Howard Street.
 BRACE roof tanks, \$319.30; Monadnock Bldg.; owner, Lauriston Investment Co., Monadnock Bldg.; architect, E. T. Bolles, Monadnock Bldg., contractor, Schrader Iron Works, 1247 Harrison St.; engineer, J. A. Cole, 1247 Harrison St.
 SIGN, electric, \$25; 1041 Market St.; owner, Key Shop, 1041 Market St.; contractor, Arc Electric Co., 4792 Mission St.
 ALTER apts., \$200; 483 7th Ave.; owner, Mrs. M. Mikkelsen, 608 Anza; contractor, P. E. Bilderback, 532 Anza St.
 ALTER flats, \$75; 554 Natoma; owner, Mrs. R. Tobin, 2608 Fulton St.; contractor, Mayer Bros. & Sons, 1359 4th Ave.
 SIGN, electric, \$300; Junipero Serra and Ocean Ave.; owner, Associat-

ed Oil Co., Junipero Serra & Ocean Ave.; contractor, QRS Neon Corp. Ltd., 690 Potrero.
 BILLBOARD, \$6.25; E Franklin 87 S Jackson St.; owner Foster & Kleiser, 1675 Eddy St.
 ALTER offices, \$300; NE Post St. and Montgomery; owner, Wells Fargo Bank & Union Trust Co., NE Post and Montgomery; engineer, T. Ronneberg, Crocker Bldg.; contractor, McDonald & Kahn.
 ALTER store, \$500; 533 Pacific Ave.; owner, A. Williams, Premises.
 ALTER restaurant, \$200; 1423 Fillmore St.; owner, M. Hartmann, 1423 Fillmore St.; contractor, The Unit Built Fixture Co., 963 Harrison St.
 SIGN, electric, \$50; 5616 Geary St.; owner, Kelly's Tavern, Premises; contractor, Laib Sign Co., 7th and Folsom Sts.
 BILLBOARD, \$6.25; SW Seventh and Jessie Sts.; owner, Foster & Kleiser Co., 1675 Eddy St.
 SERVICE station, Class A, \$900; NW Gilman and Third Sts.; owner, Maninan & Christian, 1112 Fitzgerald St.
 ALTER dwelling, \$400; 1096 Ashbury St.; owner, F. Lehnert, 1096 Ashbury St.
 REPAIR fire damage to dwelling; \$150; 39 Wanda St.; owner Mrs. R. M. Yurelich, 1734 Broderick St.; contractor, L. Salomon, 1734 Broderick St.
 BILLBOARD, \$6.25; SE Bay Shore & Thorton St.; owner, Foster & Kleiser Co., 1675 Eddy St.

ALAMEDA COUNTY UNDER 1000

RESHINGLE, \$140; 307 S 12th Street, Oakland; owner and contractor, Geo. Baljevick, 307 E 12th St., Oakland.
 SIGN, electric, \$150; 480 13th St., Oakland; owner, Gallenkamp's Stores, contractor, Q. R. S. Neon Corp., 690 Potrero Ave., San Francisco.
 SIGN, electric, \$50; 1008 Broadway, Oakland; owner, Jimmy's Tavern; contractor, Imp. Elec. Sign Co., 2228 Myrtle St., Oakland.
 SHED, 1-story, \$400; 2901 E 14th St., Oakland; owner & builder, Montgomery Ward Co., 2901 E 14th St., Oakland.
 ALTERATIONS, \$600; 6646 Outlook Ave., Oakland; owner, D. Carlise, 6646 Outlook Ave., Oakland; contractor, W. A. Peterson, 7127 Weld St., Oakland.
 ADDITION, \$50; 1151 36th Ave., Oakland; owner and builder, J. F. Kane, 1551 35th Ave., Oakland.
 SIGN, electric, \$150; 1306 Washington St., Oakland; owner, Gallenkamp; contractor, Q. R. S. Neon Corp., 690 Potrero Ave., San Francisco.
 SIGN, electric, \$144; 6000 College Ave. Oakland; owner, Mr. Vezino; contractor, Radiant Neon Displays, 2561 San Pablo Ave., Oakland.
 GARAGE, 1-story, \$200; 1121 Everett Ave., Oakland; owner and builder, W. H. Collins, 1121 Everett Ave., Oakland.
 ADD to shed, \$100; 1812 Market St., Oakland; owner and builder, H. H. Fowler, 1812 Market St., Oakland.
 ALTERATIONS, \$100; 2511 Derby St., Berkeley; owner, Mrs. A. Ligda, 2712 1/2 College Ave., Berkeley; contractor, Geo. Cristani, 1518 Prince St., Berkeley.
 ALTER roof, \$120; 2511 Derby St., Berkeley; owner, A. Ligda, 2712 1/2 College Ave., Berkeley; contractor W. H. Craig, 3306 Harrison Street, Oakland.
 ALTER roof, \$125; 2919 Otis St., Berkeley; owner and contractor, M. Ott, 2919 Otis St., Berkeley.
 ALTERATIONS, \$200; 1133 Broadway, Oakland; owner, Levy Estate, 532 16th St.; contractor, E. T. Kennedy, 1051 7th St.

BUILDING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

1.—Apartments	Offices
2.—Bonds	11.—Ice and Cold Storage Plants
3.—Churches	12.—Fower Plants
4.—Factories and Warehouses	13.—Public Buildings, Fire Houses and Jails
5.—Flats	14.—Residences
6.—Garages and Service Stations	15.—Schools
7.—Federal Buildings	16.—Banks, Stores and Theatres
8.—Club Buildings	17.—Wharves & Docks
9.—Hospitals	18.—Misc. Const.
10.—Hotels	20.—Misc. Supplies & Materials

3— CHURCHES

Plans Being Figured.
SETTING MARBLE Cost, \$—
SAN FRANCISCO. Mission St., bet. Third and Fourth Sts.
 Setting marble confessionals.
 Owner—St. Patrick's Parish (Father Rogers, Pastor).
 Architect—Arnold Constable, 580 Market St., San Francisco.

Plans Being Figured.
ALTARS Cost, \$—
SAN FRANCISCO. Masonic Avenue near Page Street.
 Two marble and re-cut stone side altars for St. Agnes' Church.
 Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., San Francisco.
 Architect—Arnold Constable, 580 Market St., San Francisco.
 Rev. J. A. Butler, Rector of St. Agnes' Church.

4— FACTORIES & WAREHOUSES

STOCKTON, San Joaquin Co., Cal.
 —Stockton Port District has applied to the Public Works Administration for a loan of \$63,000 and a grant of \$27,000 to be used in financing the construction of three warehouse units as additions to existing facilities in Stockton. B. C. Allin is the engineer.

Planned.
WINERY Cost, \$50,000
VICTOR, San Joaquin Co., Cal.
 Winery and cooperage.
 Owner—E. J. Mettler, J. K. Schmeidt and Ed. Preszler, et al, Victor.
 Architect—Not Given.

Plans Being Prepared.
WAREHOUSE Cost, \$14,000
OAKLAND, Alameda Co., Cal. Foot of Adeline St. on Estuary.
 One-story wood frame and galvanized iron warehouse (330x40 ft.); concrete foundations.
 Owner—Eldorado Oil Works, Third and University Ave., Berkeley.
 Engineer—Ellison & Russell, Pacific Bldg., San Francisco.
 Mgr. of Constr.—L. S. King, Premises Concrete foundations are already in.

COCO SOLO, Canal Zone—Following are additional contractors and others who have procured plans for the purpose of submitting bids to the Bureau of Yards and Docks, Navy Department, Washington, D. C., on Nov. 22 for the construction of a seaplane hangar at Coco Solo. Spec. No. 7351:

J. E. Harris Co., Wooster, Ohio.
 The Wm. Bayley Co., Springfield, Ohio.
 Blake-Palm Elev. Corp., 1915 E St., N.W., Washington, D. C.
 The Ingalls Iron Works, Birmingham, Alabama.
 The Yale & Towne Mfg. Co., Stamford, Conn.
 The Phoenix Bridge Co., Phoenixville, Pa.
 Johns-Manville, 22 E. 40th St., New York City.
 Murch Bros. Constr. Co., St. Louis, Mo.
 North American Constr. Co., 1252 Windsor Place, Jacksonville, Fla.
 Truscon Steel Co., Investment Bldg., Washington, D. C.

Electrical Contract Awarded.
FOUNDRY Cost, \$50,000
SOUTH SAN FRANCISCO, San Mateo Co., Cal. Tanforan Avenue.
 One-story mill type foundry (steel and corrugated iron roof, concrete foundations, etc.)
 Owner—American Brake Shoe and Foundry Co., 74 New Montgomery St., San Francisco.
 Engineer—K. Theill, 580 Market St., San Francisco.
Electric—Kuchel & Sievers Electric Works, Ltd., 465 5th St., San Francisco.
 Other awards previously reported.

Specifications Being Written.
SHED Cost, \$—
SAN FRANCISCO. Pier No. 1, Fort Mason.
 Two-story steel and concrete shed and utilities (concrete walls, steel floor and roof).
 Owner—United States Government.
 Plans by Constructing Quartermaster Fort Mason.
 Bids will probably be asked in about one week.

To Be Done By Day's Work.
STOREHOUSE Cost, \$—
OAKLAND, Alameda Co., Cal. No. 701½ Cedar Street.
 One-story storehouse.
 Owner—Pacific Paint & Varnish Co., Fourth and Cedar Sts., Oakland.
 Engineer—J. E. Davies, 50 Hawthorne St., San Francisco.

To Be Done By Day's Work.
ADDITION Cost, \$8000
OAKLAND, Alameda Co., Calif. 69th Aveff and Foothill Blvd.
 Roof addition.
 Owner—Chevrolet Motor Co., 69th Avenue and Foothill Blvd., Oakland.
 Plans by Engr. Department of Owner.

HAMILTON FIELD, Marin Co., Cal.
 —Robert E. McKee, 108 W. 6th St., Los Angeles, at \$945,650 awarded contract by War Department to construct operations hangar and double hangars at Hamilton Field. Contract warded on propositions Nos. 1, 3, 4 & 9. Complete bids published in issue of Nov. 3rd.

Plans Being Figured—Bids Close Dec. 4, 5 P. M.
ADDITION Cost, \$—
WOODLAND, Yolo Co., Cal. Fourth Street.
 Addition to warehouse (concrete foundations).
 Owner—City of Woodland.
 Engineer—C. V. Huntington, City Engineer, Woodland.

Plans To Be Prepared.
REMODEL BREWERY \$150,000
OAKLAND, Alameda Co., Cal. 26th and Adeline Streets.
 Alterations to building for modern brewery (new equipment, etc.)
 Owner—Wunder Brewing Co., 2119 Linden St., Oakland, (J. A. Hieronemus, Pres.)
 Engineer—A. R. McLaren, 611 Howard St., San Francisco.
 Financing arrangements are under way and proposed work is in a very preliminary stage.

Contract Awarded.
FACTORY Cost, \$8000
OAKLAND, Alameda Co., Cal. No. 3898 E-Tenth Street.
 Rebuilding manufacturing plant recently destroyed by fire.
 Owner—B. W. Norton Manufacturing Co., 3898 E-10th St., Oakland.
 Architect—Ray Keefer, 740 Wesley Ave., Oakland.
 Contractor—A. T. Beckett, 224 Scenic Ave., Piedmont.

Plans Completed.
ADDITION Cost, \$8000
OAKLAND, Alameda Co., Cal. W 73rd St. 300 S Hillside St.
 Brick and concrete addition to building.
 Owner—Fisher Body.
 Architect—Alben Froberg, 1955 Webster St., Oakland.
 (3068) 4

Contract Awarded.
MAINTENANCE STATION, ETC. Cont. Price, \$6437
SAN RAFAEL, Marin Co., Cal. 1.4 miles south.
 Maintenance station (work involves truck shelter, 30x80, combination woodshed and garage, gasoline and oil house, septic tank and leaching field, loading platform, station sign, electric distributing system, water and sewer connections).
 Owner—State of California.
 Plans by Dept. of Public Works, State Bldg., San Francisco.
 Contractor—A. H. Siemer, 431 San Anselmo Ave., San Anselmo.

Well Boring Contract Awarded.
BREWERY Cost, \$750,000
SAN FRANCISCO. (Paul Tract) Bayshore Ave. and Third St.
 Group of buildings for brewery, steel and concrete construction.
 Owner—General Brewing Corp. (C. W. Ahrens, director).
 Architect—Fred H. Meyer, 525 Market St., San Francisco.
 Engineer—C. H. Snyder, 251 Kearny St., San Francisco.
 Contractor—Cahill Bros., 206 Sansome St., San Francisco.
Well Boring—A. Paulson, San Carlos.
 As previously reported, structural steel awarded to Western Iron Works, 141 Beale St.; reinforcing steel to Soule Steel Co., 1750 Army St.; lumber to J. H. McCaullum, 748 Bryant St.; steel tanks to Western Pipe & Steel Co., 444 Market St.
 Insulation contract will be awarded shortly. Bids are now being received on the refrigeration.

To Be Done By Day's Work.
SHOP & RESIDENCE Cost, \$8000
GENERAL GRANT National Park. Tulare Co., Cal.
 One-story wood frame and stone machine shop and sunt. residence.
 Owner—United States Government.
 Plans by Engr. Dept. of U. S. Park

Service, 525 Market St., San Francisco.

Work will be done by force account by the Sequoia and General Grant National Park Company concessioners.

5— FLATS

Contract Awarded.
ALTERATIONS Cost, \$1000
SAN FRANCISCO. 611 Duboce Ave.
Alterations to frame flats.
Owner—T. Sessien, care contractor.
Architect—E. E. Young, 2002 California Street.
Contractor—Robt. McCarthy, 1363 14th Avenue.

Contract Awarded.
REPAIR FLATS Cost, \$2500
SAN FRANCISCO. NW Pleasant and Taylor Streets.
Repair fire damage to frame flats.
Owner—Mr. Pissus, 1734 Broderick St.
Architect—Not Given.
Contractor—L. Salomon, 1734 Broderick St.

6—GARAGES & SERVICE STATIONS

Planned.
SERVICE STATION Cost, \$5,000
BERKELEY, Alameda Co., Cal. King and Ashby.
Service station (50x100 ft.)
Owner—E. B. Gray, Blake Bldg., Oakland.

Architect—Not Given.
Application has been filed with the City Planning Commission for a permit.

Sub-Contracts Awarded.
BUILDING Cost, \$—
BERKELEY, Alameda Co., Calif. 2614 Shattuck Avenue.
One-story Ford agency and garage.
Owner—Weston Havens.
Architect—Not Given.
Contractor—Geo. Swanstrom, 1615 78th Ave., Oakland.
Painting—J. J. Burdon and Son, 1426 McDonald Ave., Richmond.
Sheet Metal—E. W. Anderson Sheet Metal Works, 3103 San Pablo Ave., Oakland.

7—FEDERAL BUILDING

PORTERVILLE AND MODESTO, Cal.—Lyon Metal Products awarded contract by Treasury Department, Division of Supply, at \$317.99 for furnishing metal shelving for Porterville; also contract at \$432.01 for furnishing metal shelving for Modesto; Proposals 1676 and 1679.

FORT BLISS, Texas.—J. E. Morgan & Sons, El Paso, submitted low bid to Constructing Quartermaster, Fort Bliss, at \$1,067,978, for construction of six barracks for enlisted men at Fort Bliss. Robt. E. McKee, El Paso, submitted the second low bid at \$1,125,100.

FORT LEWIS, Wash.—Elvind Anderson, Tacoma, at \$145,000 awarded contract by War Department to construct non-commissioned officers' quarters at Fort Lewis. Complete bids published November 4.

SAN PEDRO, Los Angeles Co., Cal. Chas. T. Montague, 1144 S Grand Ave. Los Angeles, awarded contract by the Treasury Department at \$65,500 for construction of U. S. quarantine and detention station on Reservation Pt., San Pedro. Station will consist of a 2-story office and store building, 41x32 ft.; 2-story quarters for medical officers, 64x35 ft.; 2-story quarters for junior medical officers, 50x43 ft., and a wharf. The buildings will have con-

crete walls, tile and composition roofing, steel sash, waterproofing, materials, architectural terra cotta, ornamental metal, steel medicine cabinets, interior tile work, composition floor tile, linoleum, dumbwaiter and two-pipe hot water heating system. The wharf, containing six 10-ft. bays and a 39-ft. approach span, will be constructed of creosoted timber piles, framing timber and decking.

HAMILTON FIELD, Marin Co., Cal.—Following have procured plans for the purpose of submitting bids for the Constructing Quartermaster, Hamilton Field, on November 20, 11 A. M., to construct one-story concrete and tile mess building to include lounge, card room, refreshment room, dining room, kitchen and loggia at Hamilton Field:

- Eddy Electric Co., 309 E. Weber St., Stockton.
- K. E. Parker Co., 135 South Park, San Francisco.
- Robert E. McKee, 108 W. 6th St., Los Angeles.
- San Francisco Constr. Co., 3159 Fillmore St., San Francisco.
- Scott Co., 243 Minna St., San Francisco.
- Soule Steel Co., 1750 Army St., San Francisco.

W. K. Jennings, 58 Spring Grove Ave., San Rafael.

Lee Dixon, 18 Eureka St., San Francisco.

Frank J. Reilly, 6350 Fulton St., San Francisco.

F. W. Snook, 596 Clay St., San Francisco.

Pacific Coast Steel Co., 20th and Illinois Sts., San Francisco.

Earl W. Heple, 494 Delmas Ave., San Jose.

The contract includes: Excavation, concrete walls, floors and chimney; cast stone, brick chimney; exterior tile wall, waterproofing dampproofing, steel casement windows, steel sash, pipe railings, ornamental bronze spouts for fountain and pool; insect screens, tubular steel windies and wood door frames; copper screen cloth hand-made tile roof (Mission tile alternate); stucco, plaster ceilings in all rooms except lounges and dining room, fibre board insulated latth, quarry tile floors and bases, tile wainscots, St. Genevieve (golden vein) marble fireplace facing; Cardiff Green marble for wall fountain and pool; linoleum, window and door shades, non-ferrous curtain rods, rolling wood door between refreshment room and loggia, built-in cabinets, maple floors, hardware, glazing, battery of heavy duty cafe-type gas ranges, cooks' table, coffee urn and stand, dish table, dishwasher, pot sink; electric refrigerator; canopy; table; vegetable table and sink; plumbing; kitchen, shower and lavatory fixtures; gas-steam radiators; electricl.

FORT BLISS, Texas.—Jas. McHugh & Sons, 6449 South York St., Chicago, submitted low bid to the Constructing Quartermaster at Fort Bliss, at \$355,000 for the construction of 26 sets of officers' quarters at Fort Bliss. J. E. Morgan, El Paso, submitted the second low bid at \$384,780. Bids were referred to the War Department.

FORT BLISS, Texas.—Constructing Quartermaster, Fort Bliss, rejected all bids received Nov. 4 for the construction of six stables, three stable guard quarters and three blacksmith and saddlery shop building at Fort Bliss. The low bid, submitted by Robt. E. McKee, exceeded the appropriation. Project will probably be readvertised soon.

SAN YSIDRO, San Diego Co., Cal.—Until Dec. 7, 2 P. M., bids will be

received by Treasury Dept., Procurement Division, Public Works Branch, Washington, D. C. to furnish and construct customs and immigration shelter for the U. S. Inspection Station at Ysidro. Plans and specifications are available from above office and from Custodian at the station. (2637) 7

CHOLLAS HEIGHTS, Cal.—As previously reported Lacios Contracting Co., 15 Park Row, New York City, at \$5,221 submitted low bid to Bureau of Yards and Docks, Navy Department, Washington, D. C., to paint radio towers at the Naval Radio Station, Chollas Heights; Spec. No. 7391.

- Following bids received:
- Lacios Cont. Co., N. Y. C. \$ 5,221
 - Carlson Painting Co., N. Y. C. 6,214
 - Central Contr. Co., Pittsburgh. 7,385
 - Geo. Hess, Los Angeles. 7,931
 - Wm. Markakis & Bros., New York City 8,600
 - J. H. Connor, Huntington Pk. 9,359
 - Theriault Contr. Co., Phila. 11,409
 - R. P. Paoli, San Francisco. 11,840
 - J. B. Worthington, San Diego. 16,297
 - Chris Heinsberger, Jr., L. A. 24,531
- Bids held under advisement. (2799) 1st report Oct. 11; 4th, Nov. 7, 1933.

FORT STANTON, New Mexico—Until Dec. 6, 3 P. M., bids will be received by Treasury Dept., Procurement Division, Public Works Branch, Washington, D. C., for furnishing and installing passenger elevator in the U. S. Marine Hospital at Ft. Stanton. Plans and specifications are available from above office. (3036) 7

HAMILTON FIELD, Marin Co., Cal.—Meyer Const. Co., 735 Portola Drive, San Francisco, awarded the following sub-contracts for the construction of ten type "A" field officers' quarters, and five type "D" company officers' quarters and five type "E" officers' quarters, including all utilities at Hamilton Field. Contract price, \$324,000:

- Grading—Marin Rock Co., Fairfax.
- Cement—Basalt Rock Co., Napa.
- Reinforcing Steel—Soule Steel Co., 1750 Army St., San Francisco.

FORT LEWIS, Wash.—Until Nov. 22, 11 A. M., bids will be received by Constructing Quartermaster, Fort Lewis, for the construction of two hay storage buildings, one grain storage building and seven magazines for storage of shell, etc., at Fort Lewis, Washington. Plans and specifications available from above office upon deposit of \$25 for hay and grain storage buildings and \$10 for magazines.

Commissioned To Prepare Plans.
POST OFFICE Cost, \$117,000
ANAHEIM, Orange Co., Cal.
Post Office Building.
Owner—United States Government.
Architect—Fred H. Eley, Santa Ana.

SUNNYVALE, Santa Clara Co., Cal.—William Spivock, Hobart Bldg., San Francisco, at \$12,690 awarded contract by Bureau of Yards and Docks for service and housing facilities for flood lights for landing fields at the Naval Air Station, Sunnyvale; Spec. No. 7250. Work includes two two-story structures with concrete foundations, frame super-structures, including steel, iron, bronze work, sheet metal work, stucco built-up roofing, plastering, aluminum rolling doors, carpentry and joinery, electrical work and installation of flood lights and their appliances and finishing.

HAMILTON FIELD, Marin Co., Cal.—Frank J. Reilly, 6350 Fulton St., San

Francisco, awarded the following sub-contracts in connection with the construction of the six double sets of non-commissioned officers quarters, type C and fourteen double sets of non-commissioned officers' quarters, type D at Hamilton Field. Contract price, \$242,350.

Excavation and Grading—Devincenzi Bros., 150 Collins St., San Francisco.

Steel Sash—Detroit Steel Products Co., 111 Sutter St., San Francisco.

Reinforcing Steel—Pacific Coast Steel Co., 20th and Illinois Sts., S. F.

MARE ISLAND, Cal.—Following are additional contractors who have procured plans for the purpose of submitting bids to the Public Works Officer, Mare Island Navy Yard, on Dec. 12 for the construction of a new causeway between Mare Island and Vallejo; Spec. No. 7448:

Strauss Engineering Co., Judson Pacific Co., 609 Mission St., San Francisco.

Raymond Concrete Pile Co., 311 S Spring St., Los Angeles.

Pacific Coast Steel Co., 20th and Illinois Sts., San Francisco.

George Pollock, P. O. Box 903, Sacramento.

McClintic-Marshall Co., 20th and Illinois Sts., San Francisco.

Columbia Steel Co., Russ Bldg., San Francisco.

H. S. Tittle, 85 Columbia Square, San Francisco.

American Bascule Bridge Company, Lindgren & Swinerton, 225 Bush St., San Francisco.

Victor Lemoge, 281 Natoma St., San Francisco.

Morrison & Kundsén, Financial Center Bldg., San Francisco.

Concrete Engineering Co., 1450 Mirasol, Los Angeles.

Butte Electric Mfg. Co., 956 Folsom St., San Francisco.

Herrick Iron Works, 18th and Campbell Sts., Oakland.

Pacific Coast Aggregates, 85 2nd St., San Francisco.

General Electric Co., Russ Bldg., San Francisco.

A. W. Kitchen, 110 Market St., San Francisco.

City Imp. Co., 2626 Harrison St., San Francisco.

W. A. Lechtel, 155 Sansome St., San Francisco.

American Electric Company, Duncanson-Harrelson Co., deYoung Bldg., San Francisco.

Joe Gerriek, Call Bldg., San Francisco.

MARE ISLAND, Cal.—Following are additional contractors who have procured plans for the purpose of submitting bids to the Public Works Officer, Mare Island Navy Yard, on Nov. 23, for the construction of eight smokeless powder magazines, relocation of quarters A-51, at the Ammunition Depot, Navy Yard, Mare Island; Spec. No. 7343:

Soule Steel Co., 1750 Army St., San Francisco.

Westinghouse Elec. & Mfg. Co., Robert E. McKee, 108 W 6th St., Los Angeles.

Moore Dry Dock Co., ft. of Adeline St., Oakland.

E. T. Lesure, 87 Ross Circle, Berkeley.

W. A. Bechtel, 155 Sansome St., San Francisco.

John C. Gottleben, Judson Pacific Co., 609 Mission St., San Francisco.

H. C. Vensano, 251 Kearny St., San Francisco.

Herbert M. Baruch Corp., 625 South Olive St., Los Angeles.

Johns-Manville, 159 New Montgomery St., San Francisco.

Jones Brothers, 9430 Santa Monica Blvd., Beverly Hills.

Eddy Electric Co., 309 E Weber St., Stockton.

Earl W. Heple, 494 Delmas Avenue, San Jose.

Morrison & Kundsén, Financial Center Bldg., San Francisco.

Concrete Engineering Co., 1450 Mirasol, Los Angeles.

Schuler & McDonald, 1723 Webster St., Oakland.

Herrick Iron Works, 18th and Campbell Sts., Oakland.

Butte Const. Co., 956 Folsom Street, San Francisco.

Pacific Coast Aggregates, 85 2nd St., San Francisco.

A. Cederborg, 1455 Excelsior, Oakland.

Cahill Bros., 206 Sansome St., San Francisco.

DENVER, Colo.—As previously reported, John H. Rice, Topeka, Kans., at \$8,236 submitted low bid to Treasury Department for painting plaster, etc., in the U. S. Custom House at Denver. Following bids received:

John H. Rice, Topeka, Kans., \$8,236

Wm. Lechtenberg Sons, Lockland Ohio

A. M. Gilden Co., Chicago, 8,634

Smythe & Co., Washington, 8,637

W. J. Samuel Dee Co., Denver, 8,896

W. C. Redlick Co., Denver, 9,343

Schuber-Dee Co., Denver, 9,445

Adams Painting Co., Chicago, 10,886

15,900

ASTORIA, Ore.—Until Nov. 22 bids will be received by Purchasing Agent, Post Office Department, Washington, D. C., to furnish three racks of steel shelving for the post office at Astoria. Proposal No. 556.

HAMILTON FIELD, Marin Co., Cal.—Until Nov. 27, 11 A. M., bids will be received by Constructing Quartermaster, Hamilton Field, for the construction of a headquarters building at Hamilton Field.

Plans and specifications available from above office upon deposit of \$10 and may be seen at the Builders' Exchange, 666 Mission St., San Francisco, or at the office of the Constructing Quartermaster, Fort Mason, San Francisco.

SANTA FE, New Mexico.—Following have procured plans for the purpose of submitting bids to the Treasury Dept., Washington, D. C., on Nov. 23 for cleaning and pointing the stone work in the U. S. Courthouse, at Santa Fe:

Tioga Contracting Co., 921 W Tioga St., Philadelphia, Pa.

Smythe & Co., 1416 F St., N.W., Washington, D. C.

Universal Const. Co., 228 Medical Arts Bldg., Ft. Wayne, Ind.

Noyes Roach & Co., Syndicate Trust Bldg., St. Louis.

Henry L. Grohne, 2594 N Water St., Decatur, Ill.

Fred Berglund, 8360 Anthony Ave., Chicago.

Anderson & Green, 233 W 59th St., New York City.

Therault Contracting Co., 534 East Johnson St., Philadelphia.

TUCSON, Ariz.—Following have procured plans for the purpose of submitting bids to the Treasury Department on Nov. 21 for painting plaster in the U. S. post office at Tucson:

Adams Painting Co., 1653 N Austin Ave., Chicago.

Arthur M. Geldan, 1240 N Wells St., Chicago.

National Decorating Service, 4035 S Michigan Ave., Chicago.

Wm. Wilson & Sons, Inc., Bona Allen Bldg., Atlanta, Ga.

John H. Rice, Colonial Hotel, Topeka, Kans.

D. J. Inman, 220 W North St., Danville, Ill.

Julius A. Peterson, 332 E Market St., Warrensburg, Mo.

Arizona Paint Co., 526 N 6th St., Tucson.

M. M. Sundt Const. Co., P. O. Box 2244, Tucson.

PEARL HARBOR, T. H.—Ralph Wooley, Honolulu, at \$65,000 submitted low bid for item 1, and E. E. Black, Honolulu, at \$53,280 submitted low bid on item 2, to Bureau of Yards and Docks, Navy Department, Washington, D. C., to construct extension to foundry building at Pearl Harbor, T. H. Following two low bids:

Ralph Wooley, Honolulu, (1) \$65,000

(2) 53,567

E. E. Black, Honolulu, (1) 65,990

(2) 53,280

Complete bids will be published shortly.

PEARL HARBOR, T. H.—Following are additional contractors and others who have procured plans for the purpose of submitting bids to the Bureau of Yards and Docks, Navy Department, Washington, D. C., on Nov. 29 for the construction of a facilities building at the Navy Yard, Pearl Harbor, T. H. Spec. No. 7074:

Bethlehem Fabricators, Inc., 8th and Lehigh Aves., Bethlehem, Pa.

Curtis Mfg. Co., St. Louis, Mo.

Ingalls Iron Works, P. O. Box 2632, Birmingham, Ala.

PEARL HARBOR, T. H.—Following are additional contractors and others who have procured plans for the purpose of submitting bids to the Bureau of Yards and Docks, Navy Department, Washington, D. C., on Nov. 29 for the construction of a three-story extension to storehouse at the Navy Fleet Air Base, Pearl Harbor. Spec. No. 7935:

Ingalls Iron Works, Birmingham, Alabama.

Honolulu Iron Works, New York City.

Yale & Towne Mfg. Co., Stamford, Conn.

Completing Plans.

POST OFFICE Cost, \$57,200

SAN GABRIEL, Los Angeles Co., Cal.

Post office building (reinforced concrete construction).

Owner—United States Government.

Architect—Scott Quinton, 418 N California St., San Gabriel.

Contract Awarded.

ALTERATIONS Cost, \$5000

SAN JOSE, Santa Clara Co., Calif.

NW 17th and Santa Clara Sts.

Alterations to creamery.

Owner—American Dairy Co., premises

Architect—Not Given.

Contractor—Van Fleet Freear Co., 557 Howard St., San Francisco.

FORT MacARTHUR, Los Angeles Co., Calif.—Bannister-Field Co., 4101 Goodwin Ave., Los Angeles, at \$96,-

480 awarded contract by War Department to construct eight double sets of non-commissioned officers' quarters at Fort MacArthur. Buildings will be hollow tile structures, each 29x

53 ft., concrete foundations, stucco exteriors, tile roofing, fireplaces, copper gutters and downspouts, damp-proofing materials, tile work, hot water heating system, etc. Complete bids published Nov. 1.

KEYPORT, Wash.—The Bureau of Yards and Docks, Navy Dept., Washington, D. C., has postponed the bid opening date for the construction of quarters at Puget Sound under Spec. No. 7552. Bids were scheduled to be opened Nov. 21. A new date will be set shortly.

November 15, 1933

MARCH FIELD, Riverside, Calif.—Bennett & Taylor, 1978 S Los Angeles St., submitted low bid to the Constructing Quartermaster, March Field, at \$4941 for construction of a 1-story radio building, 22x34, at March Field. Concrete foundations, hollow tile walls stucco exterior, shingle tile roof, metal sash, etc.

Plans Completed.
 POST OFFICE Cost, \$100,000
 HAYWARD, Alameda Co., Cal. NE Watkins and C Streets.
 One-story and basement Class A concrete and brick Post Office.
 Owner—United States Government.
 Architect—Bliss & Fairweather, Balboa Bldg., San Francisco.
 Plans have been forwarded to Washington for approval.

SAN DIEGO, Cal.—Until Dec. 12, 11 A. M., bids will be received by Public Works Officer, 11th Naval District, Foot of Broadway, San Diego, for a one-story barracks building at the
 The building will be one-story and will have concrete foundations, concrete floors and timber frame superstructure. The work includes plain and reinforced concrete; carpentry and joinery; mill work; plaster; stucco; shingle roofing; terrazzo floor and base; hardware; glazing; painting; plumbing; heating and electrical work.
 Plans and specifications available from above office upon deposit of \$10.

FT. LEWIS, Wash.—McDonald Bldg. Co., Tacoma, at \$361,875 awarded contract by War Department to construct officers' quarters at Fort Lewis. (2091) 1st report Oct. 25; 2nd, Nov. 4, 1933.

SOUTH SAN FRANCISCO, San Mateo Co., Calif.—Joseph Piasecke, 345 Haight St., San Francisco, at \$1,314 submitted low bid to the Public Works Officer, Mare Island Navy Yard, for re-roofing building S-3 and the construction of a new penthouse and other alterations and repairs to Building S-8 at the Navy Radio Station, South San Francisco. Spec. 7390. Following bids received:
 (1) eliminating portions of interior painting.
 Jos. Piasecke, San Francisco.....\$1,314
(1) 1,239
 Theo. Johanns, San Francisco.....\$1,325
(1) 1,185
 J. M. Peters, San Francisco.....\$1,490
(1) 1,320
 San Francisco Const. Co.....\$1,580
(1) 1,440
 Leo Epp, San Francisco.....\$2,087
(1) 1,987

8— CLUB BUILDINGS

Bids Wanted—To Close Dec. 7, 2:30 P. M.
 MEMORIAL Cost, 554,000
 WATSONVILLE, Santa Cruz Co., Cal. Two-story reinforced concrete and structural steel Veterans' Memorial (90x170) will contain auditorium to seat 1500; club rooms, etc.; tile and composition roofing, hot air heating system, hardwood and tile floors, public address system, stage, etc.
 Owner—County of Santa Cruz.
 Architect—A. W. Story, Pajaro Valley Bank Bldg., Watsonville.
 Plans and specifications available from the architect upon deposit of \$25. (1297) 1st report April 25; 5th, Nov. 10, 1933.

Contract Awarded.
 ADDITION Cost, \$—
 SAN FRANCISCO, Yacht Harbor.
 Addition and alterations to clubhouse.

Owner—St. Francis Yacht Club, Yacht Harbor.
 Architect—Wills Poir Company (Angus McSweeney, Architect), 277 Pine Street.
 Contractor—A. F. Mattock, 212 Clara Street.

Bids Opened.
 CLUBHOUSE Cost, \$1500
 MODESTO, Stanislaus Co., Cal. Municipal Golf Links.
 One-story clubhouse (20x40 feet) cement terrace, etc.
 Owner—City of Modesto.
 Engineer—Frank J. Rossi, Modesto.
 Low Bidder—R. T. Bush, Modesto.
 Following bids received:
 (1) Job complete; (2) if fireplace is installed, add; (3) if log rustic interior of clubroom is installed, add; (4) if plaster is installed in clubroom, add.

R. T. Bush, Modesto.....	(1) \$1,018
.....	(2) 185
.....	(3) 148
.....	(4) 55
Wendell Thompson, Modesto.....	(1) \$1,072
.....	(2) 124
.....	(3) 120
.....	(4) 55
Ernest Green, Modesto.....	(1) \$1,080
.....	(2) 127
.....	(3) 124
.....	(4) 50
Robt. Miller & Sons.....	(1) \$1,088
.....	(2) 92
.....	(3) 168
.....	(4) 52
M. F. Varozza, Modesto.....	(1) \$1,163
.....	(2) 140
.....	(3) 120
.....	(4) 55
M. C. Ward, Modesto.....	(1) \$1,170
.....	(2) 160
.....	(3) 177
.....	(4) 63
H. E. Rebman, Modesto.....	(1) \$1,206
.....	(2) 92
.....	(3) 99
.....	(4) 70
H. Tennyson, Modesto.....	(1) \$1,279
.....	(2) 160
.....	(3) 177
.....	(4) 62
Robt. G. Martin, Modesto.....	(1) \$1,279
.....	(2) 63
.....	(3) 165
.....	(4) 70
Geo. Smith, Modesto.....	(1) \$1,423
.....	(2) 150
.....	(3) 145
.....	(4) 35

Bids held under advisement until November 15.
 (2941) 1st report Oct. 28; 2nd, Nov. 1, 1933.

9— HOSPITALS

Architect Selected.
 DORMITORY Cost, \$60,000
 SALEM, Oregon.
 Fireproof dormitory for blind school.
 Owner—State of Oregon (R. C. Holman, state treasurer).
 Architect—Frank H. Strubel & Legge, Salem.
 Application for funds will be made to Public Works Administration in the near future.

Architect Selected.
 HOSPITAL Cost, \$300,000
 PORTLAND, Oregon.
 Psychopathic hospital.
 Owner—State of Oregon.
 Architect—Lawrence, Halford & Allyn, Failing Bldg., Portland.
 Application for funds will be made to Public Works Administration in the near future.

Architect Selected.
 HOSPITAL Cost, \$360,000
 PORTLAND, Oregon.
 Tuberculosis Hospital.
 Owner—State of Oregon.

Architect—Harry A. Herzog, Guaranty Bldg., Portland.
 Application for funds will be made to public Works Administration in the near future.

Plans Being Figured.
 NURSERY Cost, \$50,000
 LOS ANGELES, Cal. 244 N Breed St.
 One- and two-story nursery building (125x166) tile roof, wood sash, concrete basement, unit heating system, fencing, concrete drive-ways, etc. (will contain offices, nurses' quarters, sleeping accommodations for 52, locker and shower facilities, etc.)
 Owner—Julia Ann Singer Day Nursery 244 N Breed St., Los Angeles.
 Architect—Marcus P. Miller, Board of Trade Bldg., Los Angeles

RIVERSIDE, Riverside Co., Calif.—Until 10 A. M., Nov. 27, bids will be received by the Riverside county supervisors for the construction of a tuberculosis unit at the Riverside county hospital. It will be a reinforced concrete structure and will provide 24 beds. Estimated cost, \$14,000. G. S. Wilson, 416 Mission Inn, Riverside, architect.

MARYSVILLE, Yuba Co., Calif.—Yuba County will vote bonds Dec. 19 in the amount of \$55,000 to help finance the construction of the proposed hospital buildings at the Yuba County Hospital in Marysville. If bonds are voted 30% may be contributed by the U. S. Government. Charles Dean, California State Life Bldg., Sacramento, architect. (1969) 1st report June 28; 4th, Nov. 3, 1933.

HAMILTON FIELD, Marin Co., Cal.—Until Nov. 28, 11 A. M., bids will be received by Constructing Quartermaster, Hamilton Field, for the construction of a hospital and detachment barracks building at Hamilton Field.
 Plans and specifications available from above office upon deposit of \$10 and may be seen at the Builders' Exchange, 666 Mission St., San Francisco, or at the office of the Constructing Quartermaster, Fort Mason, San Francisco.

Project Abandoned.
 PSYCHOPATHIC BLDG. Cost, \$—
 SAN FRANCISCO, Potrero Ave. and Twenty-second Street.
 Five-story Class A steel frame and reinforced concrete psychopathic institute building (tar and gravel roof, steam heating system to connect to main plant, etc.)
 Owner—City and County of San Francisco.
 Architect—Alfred I. Coffey and Martin J. Rist, associated, Phelan Bldg., San Francisco.
 Structural Engineer—H. J. Brunner, Sharon Bldg., San Francisco.
 Mechanical Engineer—Hunter & Hudson, 41 Sutter St., San Francisco.

Bids Opened.
 HOSPITAL Cost, \$—
 CAMARILLO, Ventura Co., Cal.
 Three two-story reinforced concrete hospital buildings (units 2, 3 and 4) reinforced concrete walls, foundations, floors and roofs.
 Owner—State of California.
 Architect—Geo. B. McDougall, State Architect, Public Works Building, Sacramento.
 Following bids received:

General Work

Louis A. Geisler, 6212 Middleton St., Huntington Park.....	\$494,536
Meyer Bros., Los Angeles.....	497,698
H. Mayson, Long Beach.....	432,975
Herbert M. Baruch, L. A.....	437,244

Clinton Constr. Co., L. A.....	438,000
Bannister Field Co., L. A.....	451,000
W. L. Snook, Santa Barbara.....	463,107
R. E. Campbell, Los Angeles.....	464,500
W. E. Kier Constr. Co., San Diego.....	476,300
Geo. Mittry, Los Angeles.....	476,500
Schuck Constr. Co., Ltd., Los Angeles.....	483,430

Plumbing

Carpenter & Mendenhall, 907 Front St., Sacramento.....	\$36,745
F. C. Schilling, Los Angeles.....	37,970
J. Hokom, Los Angeles.....	40,600
Scott Co., San Francisco.....	41,137
F. W. Snook, San Francisco.....	41,382
Hately & Hately, Sacramento.....	42,141
Johnson & Washer, Los Angeles.....	42,403
Harry Barkelow, Los Angeles.....	43,150
Lohman Bros., Los Angeles.....	43,868
Hickman Bros., Los Angeles.....	45,696
Howe Bros., Los Angeles.....	47,253
O. E. Ross, Long Beach.....	47,440
Dudley Haverty Co., L. A.....	49,000

Heating and Ventilating

Jones Heating Co., 497 South Broadway, Pasadena.....	\$39,621
F. W. Snook, San Francisco.....	39,707
Carpenter & Mendenhall, Sacto.....	39,724
Johnson & Washer, Los Angeles.....	41,832
Lohman Bros., Los Angeles.....	42,875
Herman Lawson, San Francisco.....	42,970
Scott Co., San Francisco.....	43,870
J. Herman Co., Los Angeles.....	43,995
Hickman Bros., Los Angeles.....	44,334
Hately & Hately, Sacramento.....	44,477
J. Hokom, Los Angeles.....	44,599
A. J. Garcia, Los Angeles.....	44,800
Dudley Haverty, Los Angeles.....	44,900
Howe Bros., Los Angeles.....	50,031

Electric

H. O. Bauerle, 9039 Washington Blvd., Los Angeles.....	\$13,875
Moore Electric Co., Fillmore.....	14,845
Cave Electric Co., Santa Ana.....	15,160
Walter H. Smith, Long Beach.....	15,825
R. R. Jones, South Pasadena.....	15,917
H. H. Walker, Los Angeles.....	16,260
Seaside Elec. Co., Ventura.....	16,460
Bennett & Taylor, Los Angeles.....	16,541
Geo. I. Patterson, Los Angeles.....	17,077
Eddy Electric Co., Stockton.....	18,900

Bids held under advisement.

10—HOTELS

Segregated Bids Being Taken. ALTERATIONS, ETC. \$25,000 SAN FRANCISCO, Powell St., bet. Geary and Post Sts. Alterations and re-decorating Garden room of St. Francis Hotel (partitions work, carpentry, painting, etc.) Owner—St. Francis Hotel (Mr. McCabe Manager). Architect—Not Given. Decorator—John R. Sovis, Denver, Colorado.

11—ICE AND COLD STORAGE PLANTS

LOS ANGELES, Cal.—Parker Mfg. Co., 2625 Santa Fe Ave., Vernon, has been awarded the contract by A. J. Holm, Los Angeles City Purchasing Agent, at \$1952 for furnishing Water & Power Dept. with one ice and refrigerating unit under bid No. 1564.

LOS ANGELES, Calif.—Gay Engr. Corp., 2650 Santa Fe Ave., Los Angeles, submitted low bid to Metropolitan Water District at \$4790 (Sch. 1, Item 1) for construction of an air-cooled plant for Division 1 Headquarters, Colorado River aqueduct, about 15 miles northeast of Earp. Bids follow:

Gay Engr. Corp., (1) Schedule 1, Item 1, \$4790.
Pre-Cooling & Air Conditioning Corporation, (1) \$5,443.
York Ice Machinery Corp., (1) \$6,685; (2) \$5000.
Carrier Engr. Corp., (2) \$3,295.

13—PUBLIC BUILDINGS FIRE HOUSES & JAILS

EUGENE, Oregon—State of Oregon will make application for funds to finance construction of the following buildings.

Combination hospital, dining hall and refrigeration plant at the State Penitentiary, to cost \$290,000, and boys dormitory at the State School for the blind to cost \$60,000.

FRESNO, Cal.—City of Fresno will hold an election on December 19th at which time bonds will be voted in the amount of \$615,000 to finance construction of a municipal auditorium, fire engine house and storm sewer extension.

MONTEREY, Cal.—Monterey City Council selected the Friendly Plaza site to construct the proposed new Memorial Hall of Records. Further details will be announced at a later date.

Planned. CIVIC CENTER Cost, \$— OAKLAND, Alameda Co., Calif. Civic Center.

Owner—City of Oakland. Architect—Arthur Brown, Jr., 251 Kearny St., San Francisco, and E. T. Foulkes, 357 12th St., Oakland, associated.

Further details will be announced at a later date.

FRESNO, Fresno Co., Cal.—City of Fresno will hold an election on Dec. 19 in the amount of \$77,500 to finance construction of a new fire engine house in Fresno.

FRESNO, Fresno Co., Cal.—City of Fresno will hold an election on Dec. 19 at which time bonds will be voted in the amount of \$485,000 to finance the construction of a municipal auditorium. (2990) 1st report Nov. 4; 2nd, Nov. 10, 1933.

BOND ELECTION PLANNED

YUBA CITY, Sutter Co., Cal.—Yuba City may hold an election Dec. 19 in the amount of \$30,000 to finance construction of a new city hall.

PETALUMA, Sonoma Co., Calif.—Until Nov. 20, 7:30 P. M., bids will be received by Gladys V. Roberts, clerk, City of Petaluma, for cleaning, wire-brushing and painting roof, tower and entrance balcony of the City Hall. Specifications available from above office. Certified check in the sum of 10 per cent of amount of bid required.

Commissioned To Prepare Plans. IMPROVEMENTS Cost, \$290,000 SAKEN, Oregon, State Penitentiary. Improvements at State Penitentiary (work involves extension to outside wall, refrigeration plant, dining room and 30-bed hospital). Owner—State of Oregon. Architect—Sutton & Whitney, Lewis Bldg., Portland.

MONTEREY, Monterey Co., Calif.—Monterey City Council will select a site in the near future on which to construct the proposed Memorial Hall of Records. It was previously reported that the Friendly Plaza site had been definitely selected but city officials discussed plans for reconsideration of proposed sites for the building.

To Ask Bids Shortly. ADDITION Cost, \$15,000 WATSONVILLE, Santa Cruz Co., Cal. Reinforced concrete and structural

steel addition to public library. (40 by 60 ft.) composition and shingle roofing and remodel present bldg. Owner—City of Watsonville. Architect—A. W. Story, Pajaro Valley Bank Bldg., Watsonville.

Public Works Administration allotted \$3700 to the city to help finance construction of building.

SAN LUIS OBISPO, Cal.—Architects A. R. Walker and P. A. Eisen, Ltd., 708 Pacific Commerce Bldg., Los Angeles, have been commissioned by the San Luis Obispo county supervisors to prepare plans for a proposed new county courthouse and a hospital bldg. to cost \$400,000 and \$21,000 respectively, to be erected in San Luis Obispo. County will vote at special state election, Dec. 19, on a proposal to issue bonds to finance the projects.

Contract Awarded. LIBRARY Cont. Price, \$85,633 EVERETT, Wash. SW Hoyt and Everett Avenues.

Two-story library (concrete or mill faced with brick).

Owner—City of Everett (Mrs. D. R. McIlhravy, President Library Trustees).

Architect—Bebb & Gould, Hoge Bldg., Seattle.

Contractor—H. J. Solie, Everett.

Hardware—Agnew Hardware Co., Everett, at \$1382.

Second low bid for general construction was submitted by A. D. Ballanger, Seattle, at \$87,969 and Western Constr. Co., Seattle, was third low at \$88,960.

SONORA, Tuolumne Co., Cal.—City of Sonora will hold an election on December 19 for the purpose of voting bonds in the amount of \$10,000 to help finance the construction of a firehouse and firemen's hall in Sonora.

Plans Being Figured. ALTERATIONS Cost, \$3000 REDWOOD CITY, San Mateo Co., Cal. Alterations to county courthouse. (Alter reception room, waiting room, etc.)

Owner—County of San Mateo. Architect—Will H. Toepke, 74 New Montgomery St., San Francisco.

HAYWARD, Alameda Co., Cal.—City of Hayward is planning a campaign to secure a \$25,000 State Armory for the National Guard Company, (Capt. Orville H. Thompson, Commander, Company F, 159th Infantry, Hayward). A site has been offered to the State and the cost of the building is estimated at \$25,000.

OAKLAND, Cal.—The Oakland City Council has set Dec. 19 as the date for placing a bond issue in the sum of \$975,000 before the voters. The issue will finance the construction of an \$850,000 main library building on land already owned by the city, and the purchase of sites for branch libraries, and the erection of libraries. If the issue is approved the city will apply for Federal Public Works Administration Funds.

Architect Selected. LIBRARY Cost, \$350,000 EUGENE, Oregon, State University. New library building. Owner—State of Oregon. Architect—Stanton & Church, Portland, and Bartholmew, Salem.

Application for funds will be made to Public Works Administration in the near future.

Additional Sub-Contracts Awarded. MEMORIAL BLDG.

Contract Price, \$66,940 SAN LEANDRO, Alameda Co., Cal. Bancroft Ave. near Estudillo.

Two-story reinforced concrete Veterans' Memorial Building (100x125 feet) tile roof, steam heating system.
 Owner—County of Alameda.
 Architect—H. H. Meyers, Kohl Bldg., San Francisco.
 Contractor—Geo. Petersen, 1841 Bancroft Ave., San Leandro.
Electric—Matson-Seabrooke Co., 4115 Broadway, Oakland.
Roofing—Western Roofing Co., 24th & Poplar Sts., Oakland.
 Other awards previously reported.

14— RESIDENCES

To Ask Bids In One Week.
ALTERATIONS Cost, \$50,000
HILLSBOROUGH, San Mateo County Cal. Easton Drive.
 Alterations and additions to two-story and basement frame residence (add rooms, new plumbing, heating, wiring, mill work, etc.)
 Owner—Paul I. Fagan, Hillsborough.
 Architect—Arthur Brown Jr., 251 Kearny St., San Francisco.

Contract Awarded.
RESIDENCE Cost, \$5000
BURLINGAME, San Mateo Co., Cal. Lot 15 Blk 1, Vancouver Ave.
 One-story and basement frame and stucco residence.
 Owner—Y. Chambers.
 Architect—Not Given.
 Contractor—A. E. Klay, Ringwood Rd. Menlo Park.

To Be Done By Day's Work.
RESIDENCE Cost, \$5000
SAN MATEO, San Mateo Co., Calif. Seville Way.
 One-story frame and stucco residence.
 Owner and Builder—Ira Brotzman, 5 Garfield Ave., San Jose.
 Architect—Not Given.

Sub-Contracts Awarded.
RESIDENCE Cost, \$4000
OAKLAND, Alameda Co., Cal. No. 4107 Oakmore Road.
 Two-story frame and stucco residence (6 rooms).
 Owner—A. L. Nelson.
 Architect—Not Given.
 Contractor—A. H. Monez, 4350 Bridgeview Drive, Oakland.
Lumber—Loop Lumber Co., Broadway and Blanding St., Alameda.
Concrete—Otto Hennig, 3527 Suter St., Oakland.
Brick—W. H. Wisheropp, 3749 Qulgeley St., Oakland.
Sash and Doors—Western Door and Sash Co., 5th and Cypress Sts., Oakland.
Tile—Superior Tile & Products Co., 3743 Broadway, Oakland.

Contract Awarded.
ALTERATIONS Cost, \$1500
SAN FRANCISCO. No. 525 Connecticut Street.
 Repair fire damage to residence.
 Owner—Mr. Tobias, 1734 Broderick St., San Francisco.
 Architect—Not Given.
 Contractor—L. Salomon, 1734 Broderick St., San Francisco.

Contract Awarded.
RESIDENCE Cost, \$10,000
SAN FRANCISCO. Forty-eighth Ave. near Anza Street.
 Two-story frame and stucco residence (7 rooms and 2 baths) part tile and gravel roof, gas heating system, hardwood floor, Oregon pine or mahogany trim, etc.
 Owner—George Satchell.
 Architect—A. A. Cantin, 557 Market St., San Francisco.
 Contractor—Hannah & Wooldridge, 268 Market St., San Francisco.

Contract Re-Awarded.
RESIDENCE Cost, \$9000

SACRAMENTO, Sacramento Co., Cal. Five and one-half miles north.
 One-story frame residence (8 rooms, 3 baths) board and batten shake roof, oil burning heating system, hardwood floors, etc.
 Owner—Mr. Winners.
 Architect—Williams and Wastell, 374 17th St., Oakland.
 Contractor—Jos. Pedone, 914 S Street, Sacramento.

Contract Awarded.
RESIDENCE Cost, \$—
BERKELEY, Alameda Co., Calif. The Alameda at Menlo Place.
 One-story frame and stucco residence (shingle roof, steel sash, brick veneers, gas heating system, etc.)
 Owner—Mrs. Hartman.
 Architect—Not Given.
 Contractor—Ernest W. Urch, 1924 50th Ave., Oakland.

Sub-Contracts Awarded.
RESIDENCE Cost, \$5500
OAKLAND, Alameda Co., Cal. Oakmore Highlands.
 Two-story frame and stucco residence (6 rooms) shingle roof, gas heating system, hardwood floors, English tile.
 Owner and Builder—A. H. Monez, 4350 Bridgeview Ave., Oakland.
 Plans by W. W. Dixon, 1844 5th Ave., Oakland.
Fixtures—Maxwell Hardware Co., 1939 Washington St., Oakland.
Electric—Allendale Electric Co., 4233 Masterson St., Oakland.
Finish Tile—Superior Tile & Products Co., 3743 Broadway, Oakland.

Contract Awarded.
RESIDENCES Cost, \$3000 each
BERKELEY, Alameda Co., Cal. 1710 and 1712 Ninth Street.
 Two one-story frame residences (4 rooms).
 Owner—Mr. Veale.
 Architect—Not Given.
 Contractor—Andrew Lundgren, 2334 Curtis St., Berkeley

Plans Being Prepared.
RESIDENCES Cost, \$3,000 each
OAKLAND, Alameda Co., Cal. Merriewood.
 Five 1-story rustic residences (3 and 4-room) studio type shingle roof.
 Owner—Merriewood Syndicate Company, Oakland.
 Architect—Noble and Archie Newsom, Russ Bldg., San Francisco.

Contract Awarded.
RESIDENCE Cost, \$6800
BERKELEY, Alameda Co., Cal. Alta Road and Spruce St.
 One-story and basement frame and brick veneer residence (6 rooms, 2 baths) shake roof, gas hot air heating system, hardwood floors.
 Owner—Frank H. White.
 Contractor—F. W. Confer, 2800 Shasta Road, Berkeley.

Contract Awarded.
RESIDENCE Cost, \$5200
CLOVERDALE, Sonoma Co., Calif.
 Two-story frame and stucco residence (7 rooms).
 Owner—Frank Seghesio, Cloverdale.
 Architect—Wm. Heribert and Clarence Caulkins, Rosenberg Bldg., Santa Rosa.
 Contractor—E. A. Anloff, Windsor.

Owner Taking Bids.
RESIDENCE Cost, \$5500
BERKELEY HIGHLANDS, Contra Costa Co., Cal.
 One-story and basement frame and stucco residence (6 rooms and 2 baths), tile and composition roof, gas heating system, hardwood floors, pine trim, etc.
 Owner—Thomas Scott Nielsen, 716 The Alameda, Berkeley.

Plans by W. W. Dixon, 1844 5th Ave., Oakland.

15— SCHOOLS

Sub-Contracts Awarded.
RESIDENCE Cont. Price, \$1977
PIEDMONT, Alameda Co., Cal. Piedmont Pines.
 1½-story frame and stucco residence (6 rooms) English style.
 Owner—Alfred Kennedy.
 Architect—Miller & Warnecke, Financial Center Bldg., Oakland.
 Contractor—Wallace A. Petersen, 7101 Weld St., Oakland.
Oak Floors—Edward C. Mattson, 2969 Montana St., Oakland.
Brick Work—P. Knudsen, 3724 Balfour, Oakland.
Electric—Kerr & Clifford, 3525 E 14th St., Oakland.
Sheet Metal—California Furnace Co., 4801 E 14th St., Oakland.
Plastering—Axel Sommarstrom, 109 Sunnyside, Piedmont.
Lumber—Bay City Lumber Co., 48th and E 12th Sts., Oakland.
Mill Work—Clinton Mill & Lumber Co., 701 4th Ave., Oakland.
Painting—Arthur Remington, 1748 103rd Ave., Oakland.
Concrete—Nick Lindstrom, 2417 Browning, Berkeley.
Plumbing—Henry Lass, 5300 Cole St., Oakland.
Tile—Rigney Tile Co., 3012 Harrison St., Oakland.
Hardware—Maxwell Hdwe. Co., 1320 Washington St., Oakland.
 Bids are being taken on window shades and furnace.

WHITTIER, Los Angeles Co., Cal.—State Department of Public Works has applied to the Public Works Administration for a grant of \$11,550 to be used in financing the construction of a new gymnasium building at Whittier State School. The proposed building will be a reinforced concrete structure, costing about \$29,000. Plans prepared by State Architect Geo. B. McDougall, Public Works Bldg., Sacramento.

November 16, 1933
ARCADIA, Los Angeles Co., Cal.—Arcadia School Board has called an election for December 20 at which time the electorate will determine the question of issuing bonds in the sum of \$150,000 to raze the First Avenue School and erect a new structure on the site.

SEAL BEACH, Orange Co., Calif.—Seal Beach Elementary School District applied to the Public Works Administration for a grant of \$23,191 to be used in financing the construction of a new school building to replace the structure damaged by the recent earthquake. Total cost of the improvements is estimated at \$90,000. Marsh, Smith & Powell, Architects' Bldg., Los Angeles, architects.

GREELEY, Colo.—State Teachers' College of Colorado has been granted a loan of \$286,000 by the Public Works Administration for three dormitories and additional dining hall facilities to be constructed at the college in Greeley. (3061)

SAN FRANCISCO—Department of Public Works awarded contract to Venor Company at \$695 for mastipave roofing and awarded a contract to Malott & Peterson, 20th and Illinois Sts., at \$483, for roofing the Jean Parker School, Broadway, between Powell and Mason Sts. Complete bids published Nov. 9.

SAN FRANCISCO—Until Nov. 29, 2:30 P. M., bids will be received by S. J. Hester, Chief Deputy Director,

Department of Public Works, City Hall, for painting Monroe School, Excelsior Ave. and Lisbon St. Estimated cost, \$3200.

SAN FRANCISCO—Until Nov. 29, 2:30 P. M., bids will be received by S. J. Hester, Chief Deputy Director, Department of Public Works, City Hall, for the installation of new wood floors at the Franklin School, Eighth Street, between Harrison and Bryant Sts. Estimated Cost, \$3500.

Preparing Preliminary Plans.
INFIRMARY Cost, \$100,000
EUGENE, Oregon. State University New infirmary building.
Owner—State of Oregon.
Architect—Lawrence & Holford & Allyn, Failing Bldg., Portland.

Preparing Preliminary Plans.
LIBRARY Cost, \$350,000
EUGENE, Oregon. State University New library building.
Owner—State of Oregon.
Architect—Lawrence, Holford & Allyn Failing Bldg., Portland.

Plans Being Prepared.
ADDITION Cost, \$8000
OAKLAND, Alameda Co., Cal. Seminary and Camden Sts.
Reinforced concrete addition to art gallery at Mills College.
Owner—Mills College, Premises.
Architect—W. H. Ratcliff Jr. Chamber of Commerce Bldg., Berkeley.

Construction Under Way.
ARCH AND GATES Cost, \$—
OAKLAND, Alameda Co., Cal. Seminary and Camden Sts.
Stone arch and ornamental iron entrance gates.
Owner—Mills College, Premises.
Architect—W. H. Ratcliff Jr., Chamber of Commerce Bldg., Berkeley.
Concrete—J. H. Fitzmaurice, 2857 Hannah St., Oakland.
Road Work—Heafey-Moore Co., 344 High St., Oakland.

Other parts of the work are being handled by the owner's engineering and construction department under the supervision of John Brown, Mills College.

LOS ANGELES, Cal.—Pozzo Construction Co., 421 Macy St., Los Angeles, at \$2341 awarded contract by the Regents of the University of California to construct an addition to the mechanical art building at the University of California, Los Angeles.

ALHAMBRA, Los Angeles Co., Cal.—Alhambra board of education will call a special election, the date to be set at the next board meeting, at which time it is proposed to vote bonds in the sum of \$386,900 to finance the construction of a new 19-room elementary school on Atlantic Blvd., minor repairs and additions to nine elementary schools, and alterations to three high school buildings.

PASADENA, Cal.—Pasadena board of education has applied to the Public Works Administration for a loan of \$860,000 to strengthen and replace Pasadena schools. The following buildings are scheduled for repairs: Chas. Elliot Junior High school; Marshall Junior High school; McKinley Junior High school; Wilson Junior High school; Washington Junior High school and Pasadena Junior College.

PRELIMINARY PLANS PREPARED
FLAGSTAFF, Arizona.—Architects Lescher & Mahoney, 1100 Title and Trust Bldg., Phoenix, have prepared preliminary plans for a group of college buildings to be erected at Flagstaff for the Arizona State Teachers' College; Dr. T. J. Tormey, president,

The college has made application to the Public Works Administration for a loan of \$259,000 and a grant of \$101,100 to finance construction. The buildings to be erected and estimated costs are: Women's dormitory, \$172,500; enlarge heating plant, \$12,800; men's dormitory, \$138,500; president's residence, \$25,500; training school alterations, \$10,700. They will be fireproof structures, with sandstone exteriors and asbestos shingle roofing.

ALAMEDA, Cal.—Alameda Board of Education will hold an election on December 19, to vote bonds in the amount of \$447,864 to finance construction of schools in Alameda.

Commissioned To Prepare Plans,
SCHOOL, ETC. Cost, \$150,000
COALINGA, Fresno Co., Calif.
Construct new senior high school, swimming pool and lighted tennis courts.
Owner—Coaling School District (F. J. McCollum, secretary).
Architect—W. D. Coates, Rowell Bldg., Fresno.

Plans are now under way to hold a bond election in the amount of \$150,000.

LOS BANOS, Merced Co., Cal.—Until Nov. 24, 3 P. M., bids will be received by W. L. Garrison, Clerk, West Side Union High School District, to construct garage and storeroom building, 30x55 ft. Plans and specifications available from high school principal.

BERKELEY, Alameda Co., Calif.—Lee J. Immel, 1031 Evelyn St., Berkeley, at \$2,579 awarded contract for grading, and Clinton Stephenson Construction Co., 550 Montgomery Street, San Francisco, at \$17,579 awarded the contract for general construction by Regents of the University of California for the construction of a frame field laboratory in Strawberry Canyon, University of California Campus, Berkeley.

MODESTO, Stanislaus Co., Cal.—Standard Electric Time Co., 950 Parker St., Berkeley, at \$786 for clocks, etc., and E. A. Taggart, Modesto, at \$797 (cable only) awarded contract by Modesto Board of Education for the installation of conduit and cable, phones, clocks and buzzers at the Modesto Junior College. Standard Elec. Time Co., submitted only other bid on cable at \$985.

Reinforcing Steel Contract Awarded.
ARCH AND GATES Cost, \$—
OAKLAND, Alameda Co., Cal. Seminary and Camden Sts.
Stone arch and ornamental iron entrance gates.
Owner—Mills College, Premises.
Architect—W. H. Ratcliff Jr., Chamber of Commerce Bldg., Berkeley.
Reinforcing Steel—McGrath Steel Co., 354 Hobart St., Oakland.

As previously reported, concrete awarded to J. H. Fitzmaurice, 2857 Hannah St., Oakland; road work to Heafey-Moore Co., 344 High St., Oakland.

Other parts of the work are being handled by the owner's engineering and construction department under the supervision of John Brown, Mills College.

16—BANKS, STORES AND OFFICES

Contract Awarded.
ALTERATIONS Cost, \$1500
ALAMEDA, Alameda Co., Calif. 1346 Regent Street.
Alterations to present building (partitions, etc.) frame construction.

Owner—Dr. John Ohannesson, 1346 Regent St., Alameda.
Plans by owner.
Contractor—E. F. Henderson, 6100 Chabot Road, Oakland.

SAN FRANCISCO—Lee Dixon Painting Co., 18 Eureka St., at \$138 awarded contract by State Board of Harbor Commissioners to paint and whitewash interior of Crab Fishermen's Union, Meiggs Wharf. Following bids received:
Lee Dixon Painting Co.....\$138
D. Pinoli & Co..... 150
Aristo Painting Co..... 160
Patterson Bros., Oakland..... 195
Sam Parsons 195
Pacific Painting & Decorating Co. 198
C. P. Montgomery..... 223
D. E. Burgess..... 237
H. C. Lovett, Oakland..... 285
A. J. Jorgensen..... 298

Completing Plans.
ADDITION Cost, \$150,000
RIVERSIDE, Riverside Co., Cal. 8432 Magnolia Ave.
Four-story reinforced concrete addition to Woodcraft Home (78x227) concrete floors, wood sash, tile composition roof, steam heat, electric elevator, fire escapes, etc.
Owner—Woodcraft Home, premises.
Engineer—Henry L. A. Jekel, 5063 Magnolia Ave., Riverside.
Bids will be taken from a selected list of contractors in one week.

Preparing Plans.
ALTERATIONS Cost, \$15,000
SACRAMENTO, Sacramento Co., Cal. 821 K Street.
Alterations to store building (new fixtures and equipment, cabinet work etc.)
Owner—Mrs. Helen Holm, Millbrae.
Architect—W. E. Coffman, Forum Bldg., Sacramento.
Lessee—Stanley's Store.

Contract Awarded.
STORE Cost, \$9000
SAN FRANCISCO. N Sutter St. 37 E Hyde Street.
One-story Class C concrete store building (50x87 feet) tar and gravel roof, etc.
Owner—J. Wallace, Bohemian Club., San Francisco.
Engineers—Ellison & Russell, 712 Pacific Bldg., San Francisco.
Contractor—J. S. Malloch, 666 Mission St., San Francisco.

SUNNYVALE, Santa Clara Co., Cal.—Theo. Johanns, 2020 15th St., San Francisco, awarded the following sub-contracts in connection with the construction of an office, shop and quarters for the S. S. S. Macon, in Airship hangar at Sunnyvale. Specification No. 7466.

Work includes concrete curbing, steel and iron work, metal and glass partitions, wire mesh partitions, steel doors, steam heating, electrical work and painting.

Heating—F. W. Snook Co., 596 Clay St., San Francisco.
Electric—Commercial Electric Co., 45 Northwood Drive, San Francisco.
Painting—A. W. Stoneback, 2020 15th St., San Francisco.

Partitions—Munthe Equipment Co., 7 Front St., San Francisco.
Structural Steel—Schrader Iron Works 1247 Harrison St., San Francisco.

Linoleum—D. N. & E. Walter Co., 562 Mission St., San Francisco.
Wire Work—Standard Fence Co., 60th and Lowell Sts., Oakland.
Oregon Pine Floors—Shirley Floor Co., 385 Capistrano St., San Francisco.
Hardware—F. G. Norman & Sons, 890 Valencia St., San Francisco.
Glass—East Bay Glass Co., 621 Sixth St., Oakland.

Being Done By Day's Work.
ALTERATIONS Cost, \$—
MOUNTAIN VIEW, Santa Clara Co. Alterations to garage for auditorium (stucco work, remove windows, change doors, stage, etc.)
 Owner—Hecwain Motor Co., 430 Castro St., Mountain View.
 Architect—Not Given.
 Work is being done under owner's supervision.

Plans Being Prepared.
STORE Cost, \$—
SAN JOSE, Santa Clara Co., Cal. 160-164 S First St., and 157-165 S 2nd. Modern store building (51x275).
 Owner—Montgomery Ward & Co.
 Plans by Enr. Dept. of Owner, Chicago
 It is expected to ask bids early in December.

Contract Awarded.
REMODEL BLDG. Cost, \$19,578
OAKLAND, Alameda Co., Cal. 13th and Broadway.
 Remodel store and office building.
 Owner—Matilca E and Everett J. Brown, 600 29th St., Oakland.
 Architect—Ed. T. Foulkes, 357 12th St., Oakland.
 Contractor—Wilbur C. Cone, 1744 Broadway, Oakland, and Edwin A. Duval, Broadway Bldg., Oakland.

LOS ANGELES, Cal.—Newbery El. Corp., 1038 Venice Blvd., awarded contract at \$104,566 for electrical work to be installed in the Class A newspaper building under construction at First and Spring Sts., for the Times-Mirror Co. Cochran-Izant, Ltd., 1923 Hooper Ave., has contract for the ornamental metal work at \$27,370. P. J. Walker Co., 3900 Whiteside Ave., managers of construction; G. L. Kaufmann, Union Bank Bldg., architect.

To Be Done By Day's Work by Owners.
ALTERATIONS Cost, \$1500
OAKLAND, Alameda Co., Calif. W Washington St. 90 S 11th.
 Alterations to store building.
 Owner—Whitthorne & Swan, 11th and Washington Sts., Oakland.
 Architect—Wm. Knowles, 429 20th St., Oakland.

Plans To Be Prepared.
STORES Cost, \$30,000
MENLO PARK, San Mateo Co., Cal. The Highway.
 Group of eight one-story reinforced concrete store buildings.
 Owner—Maloney Estate.
 Architect—Not Selected.
 Contractor—John W. Morey, Alejandro Ave., Atherton.
 Architect will be selected within a few days.

Owner Taking Bids.
ADDITION Cost, \$8000
SAN FRANCISCO, NE Third and Eighteenth Sts.
 Addition to office building.
 Owner—Gilmore Oil Co., Premises.
 Architect—Hibbard, Gerity & Kerton, 816 W. 5th St., Los Angeles.

Contract Awarded.
ALTERATIONS Cost, \$5568
SAN FRANCISCO, SE Eleventh and Mission Streets.
 Owner—Goodyear Tire & Rubber Co. of Calif., Inc.
 Plans by Engineering Dept. of Owner.
 Contractor—MacDonald & Kahn, Financial Center Bldg., San Francisco.

17— THEATRES

COMPTON, Los Angeles Co., Cal.—Architect H. L. Gogerty, 221 E. Compton Blvd., Compton, is completing

plans and bids will be taken soon from a closed selected list of contractors for theatre building to be built at 253 E. Compton Blvd., Compton. The structure has been leased by R. D. Whitson and Albert Hansen. It will cover an area of 60x135 feet and will seat 850 people. Construction will be reinforced concrete, composition roofing, concrete floors, marble, acoustical treatment, plate glass, restrooms, ventilating system, gas-fired heating, tile toilet floors, etc.

18— WHARVES & DOCKS

OAKLAND, Cal.—Pacific Irrigation Co., 7 Front St., San Francisco, at \$980 awarded contract by City of Oakland Port Commission for sprinkler system for 320 ft. extension at Outer Harbor Terminal, Oakland.

PEARL HARBOR, T. H.—Hawaiian Dredging Co., Honolulu, at \$2,966,700 submitted low bid to Bureau of Yards and Docks, Navy Department, Washington, D. C., to construct a pier and gauge of reinforced concrete construction supported on concrete cylinders on wood and concrete piles, and includes dredging, concrete and steel sheet pile bulkheads, timber fender system, track work, piping systems, electrical work and fittings at the Navy Yard, Pearl Harbor. Spec. No. 7418. Second low bid submitted by Frederick Snare Corp., at \$2,981,760. Complete bids will be published shortly.

19—MISC. CONSTRUCTION

Plans Being Figured.
WALL, ETC. Cost, \$—
SAN FRANCISCO, NW Sixteenth and Alabama Streets.
 Class B concrete boundary wall and yard.
 Owner—S. F. Society for Prevention of Cruelty to Animals.
 Engineer—C. Heller, 111 Sutter St.
 Bids are being taken from a selected list of contractors.

LOS ANGELES, Calif.—Continental Engr. Co., 710 N Kilkea Drive, awarded the following contracts: Swimming pool and filtration equipment for Paul Thilo at 717 Rexford Drive, Beverly Hills; repairing and painting swimming pool and mechanical plant at the El Jardin Apts., 1345 N Hayworth Ave.; filtering equipment, chlorinator and vacuum equipment for Children's Hospital Addn. on Sunset Blvd.

SAN DIEGO, Cal.—Until December 5, 11 A. M., bids will be received by the Public Works Officer, Capt. De Witt C. Webb, Headquarters, 11th Naval District, Foot of Broadway, San Diego, under Spec. No. 7423, for pipe tunnels and piping for heating plant at the Naval Operating Base (Air Station), San Diego. The work involves:
 (1) 1380 ft. reinf. conc. tunnels;
 (2) 120 ft. concrete conduit;
 (3) Lowering exist. 3-in. condensate return pipe approx. 180 ft. long;
 (4) Piping and fittings in tunnel and conduit;
 (5) Piping & condensate return pump in manhole;
 (6) Connecting new steam and return pipes with exist. steam and return pipes;
 (7) Misc. changes of exist. piping & electrical work as required for complete installation.

Plans and specifications obtainable from above office upon deposit of \$10.

LOS ANGELES, Cal.—Low bids (including freight to job as figured by the engineer) for furnishing 2500 tons of liner plates and other fabricated steel for tunnel support for both 15-ft. 3-in. and 16-ft. tunnels. Specifications No. 61, are as follows:

SCHEDULE NO. 1—Western Pipe & Steel Co., 5717 Santa Fe Ave., Los Angeles, \$143,877.75 f.o.b. job. The other was Truscon Steel Co., \$151,511.50 f.o.b.

SCHEDULE NO. 2—McClintic-Marshall Corp., 11,100 S. Central Ave., Los Angeles, \$60,259 f.o.b. job. The other bids f.o.b. job were: Western Pipe & Steel Co., Los Angeles, \$62,891. Truscon Steel Co., Los Angeles, \$69,020.50.

SCHEDULE NO. 3—McClintic-Marshall Corp., \$15,412.50 f.o.b. job. The other bids f.o.b. job were: Western Pipe & Steel Co., Los Angeles, \$16,522.50. Consolidated Steel Corp., Los Angeles, \$17,712.50. Truscon Steel Co., Los Angeles, \$18,998.

SCHEDULE NO. 4—Western Pipe & Steel Co., Los Angeles, \$21,456.25 f.o.b. job. The other bids f.o.b. job were: McClintic-Marshall Co., Los Angeles, \$21,593.75. Consolidated Steel Corp., Los Angeles, \$21,866.25. Truscon Steel Co., Los Angeles, \$24,780.

SCHEDULE 1—For furnishing steel tunnel liner plates, complete with bolts:

- 1) 160 tons liner plates, 16-in. wide by 37 11/16-in. or 18 27/32-in. long x 3/16-in. thickness;
- (2) 135 tons liner plates, 16-in. wide by 37 11/16-in. or 18 27/32-in. long by 5/32-in. in thickness;
- (3) 975 tons liner plates 16-in. wide by 37 11/16-in. or 18 27/32-in. long by 1/8-in. in thickness;
- (4) 95 tons liner plates 16-in. wide by 37 11/16-in. or 18 27/32-in. long by 7/64-in. in thickness;
- (5) 600 grout connections in liner plates;

SCHEDULE 2—For furnishing structural steel ribs complete with bolts and splices:

- (6) 88 tons of 6-in. 12.5 lb. I-beams;
- (7) 55 tons ribs of 5-in. 10.0 lb. I-beams;
- (8) 475 tons ribs of 4-in. 7.7 lb. I-beams;

SCHEDULE 3—For furnishing structural steel wall beams complete with splice plates and bolts:

- (9) Wall beams 6-in. 20.0 lb. CH or 20.0 lb. GH or equal, 210 tons;
- (10) 20 tons wall beams 6-in. 15.5 lb. BH of equal;

SCHEDULE 4—For furnishing structural steel columns complete with bolts:

- (11) 80 tons columns 6-in. 20 lb. CH or 20 lb. BH or equal;
- (12) 140 tons 6-in. 15.5 lb BH or equal
- (13) 75 tons 4-in. 13.9 lb. BH or 13.8 lb. CH or equal.

	(A)	(B)	(C)	(D)
(1)	\$85.30	\$98.90	\$.....	\$.....
(2)	25.30	98.90	.....	.....
(3)	88.35	102.00	.....	.....
(4)	91.65	105.80	.....	.....
(5)	.22	.25	.....	.....
Total	\$120,116	\$138,759	\$.....	\$.....
(6)	87.50	99.35	.....	71.50
(7)	90.10	99.35	.....	76.20
(8)	90.60	99.35	.....	80.30
Total	\$54,990	\$60,603	\$.....	\$48,059
(9)	59.60	68.00	.....	73.00
(10)	59.60	69.00	.....	65.50
Total	\$13,708	\$15,660	\$16,850	\$14,435
(11)	61.00	68.00	.....	67.00
(12)	61.00	69.00	.....	61.50
(13)	61.00	70.00	.....	70.00
Total	\$17,995	\$20,350	\$20,760	\$20,340

The bidders were:

- (A) Truscon Steel Co., Los Angeles, f.o.b. Cleveland, 1/2 of 1% 10 days.
- (B) Western Pipe & Steel Co., Los Angeles, f.o.b. 5717 Santa Fe Ave., Los Angeles. Terms, net.
- (C) Consolidated Steel Corp., Ltd., Los Angeles, f.o.b. Plant, Los Angeles. Terms, net.
- (D) McClintic-Marshall Corp., Los Angeles, Schedule No. 2, f.o.b. Chicago; Schedules Nos. 3 and 4, f.o.b. Los Angeles. Terms, net.

ORLAND, Glenn Co., Cal.—Until Nov. 27, 8 P. M., bids will be received by E. P. Parlin, City Clerk, Orland, to clean by sand blast and paint with two coats the municipal water tank at Orland. On previous bid opening only bid was submitted by Patterson Bros., 573 Santa Rosa Ave., Berkeley, at \$1290. Bid was rejected.

Roofing Contract Awarded.
TERMINAL Cost, \$30,000
BERKELEY, Alameda Co., Calif. San Pablo Ave., bet. Carrison and Ash-by Avenues.
 Bus and street car terminal (open shed, terminal facilities, comfort stations, rest rooms, telephones, landing platform) some steel and concrete.

Owner—Key System, Ltd., 2129 Grove St., Oakland.
 Architect — Kent & Hass, 525 Market St., San Francisco.

Roofing — General Roofing Co., 3985 Beach St., Oakland.
 As previously reported, structural steel awarded to Independent Iron Works, 821 Pine St., Oakland.

LOS ANGELES, Cal.—Following are the low bids submitted to the Metropolitan Water District for liner plates and other fabricated steel for tunnel support:
 Schedule 1: Western Pipe & Steel Co., 444 Market St., San Francisco, \$143,877.74.
 Schedule 2: McClintic-Marshall Corporation, 20th and Illinois Sts., San Francisco, \$60,250.
 Schedule 3: McClintic-Marshall Corporation, 20th and Illinois Sts., San Francisco, \$15,412.50.
 Schedule 4: Western Pipe & Steel Co., 444 Market St., San Francisco, \$21,456.25.

SONORA, Tuolumne Co., Cal.—The City of Sonora will vote December 19 on a bond issue to finance construction of a swimming pool, wading pool, dressing rooms and landscaping, not to exceed \$14,000. A grant of \$4200 and loan of \$9800 will be asked of the Federal Public Works Administration if the bond issue is successful.

SAN FRANCISCO.—A. B. C. Painting Co., 340 Guttenberg St., at \$97.45 submitted low bid to 12th Naval District for painting and redecorating interior of Quarters No. 7 at the Naval Receiving Ship, Yerba Buena Island. Spec. No. 7520. Following bids received:

A. B. C. Painting Co.....	\$ 97.45
Pacific Paint. & Dec. Co.....	98.75
Patterson Brothers	142.00
R. P. Paoli	161.00

Bids held under advisement.

SAN FRANCISCO—Duncanson Harrelson Co., deYoung Bldg., at approximately \$1,000 awarded contract by Emma L. Beardsley, Hotel Cecil, for concrete underpinning at 448 10th St.
 LOS ANGELES, Cal.—Davis Company, 317 North Avenue 21, awarded contract for construction of swimming pool complete for Charles S. Ruggles at his San Fernando ranch. Work includes excavating, concrete work, reinforcing steel, tile scum gutter, filter system complete with vacuum cleaning equipment, etc. J. F. Wadkins, general contractor; Calvin M. Butler, designer.

LOS ANGELES, Cal.—Koppel Industrial Car & Equipment Co., by Garlinghouse Bros., 2416 E. 16th St., Los Angeles, at \$12,640 for Schel. 1, and at \$16,000 for Sched. 2, submitted low bid to the Met. Water District for furnishing telescopic steel forms for conduits.

PEARL HARBOR, T. H.—Star Iron & Steel Co., Tacoma, Wash., at \$257,480 submitted low bid to Bureau of Yards and Docks, Navy Department, Washington, D. C., to furnish and erect four cranes at Pearl Harbor Navy Yard. Spec. No. 7419. Dravo Contracting Co., Pittsburgh, Pa., at \$299,800, submitted second low bid. Complete bids will be published shortly.

20—MISC. SUPPLIES AND MATERIALS

OAKLAND, Cal.—The Oakland City Council transferred award previously made to Norton Mfg. Co. to Hugh O'Connor, San Francisco, to furnish 6000 license plates and 100 inserts. Identical bids were submitted at \$13.74 per 100 for license plates and \$4.67 for inserts.

EL CERRITO, Contra Costa Co., Cal.—Union Oil Co., and Shell Oil Co. submitted identical bids, as follows, to the city council to furnish (1) gasoline; (2) kerosene; (3) fuel oil; (4) lubricating oil; (5) cup grease; (6) asphalt; (7) emulsified asphalt; (8) road oil:

- (1) \$.135 per gallon;
- (2) \$.125 per gallon;
- (3) \$1.10 (not to exceed \$1.60) per bbl.
- (4) \$.36 (not to exceed \$.55) per gal.;
- (5) \$.0725 per lb.;
- (6) \$21.60 (11-40 penetration);
- (7) \$17.60 (91-250 penetration);

- (b) \$24.10 (20-40 penetration);
- (7) \$.06 (grade "E");
- (a) \$.07 (grade "E", 55% A.C.);
- (b) \$.0525 (low grade, 50% A.C.);
- (8) \$1.04 (60-80);
- (a) \$1.50 (70-80).

LOS ANGELES, Calif.—Soule Steel Co., 6200 Wilmington, Los Angeles, at \$1938 awarded contract by A. J. Holm, City Purchasing Agent, for furnishing miscellaneous round and square bar reinforcing steel, intermediate grade, under Bid 1607.

SAN FRANCISCO — Cole Transfer Co., 808 Polk St., San Francisco, at \$0.12 per stop or delivery, awarded contract by T. A. Brooks, Purchasing Agent, City Hall, for furnishing automobile truck transportation of wood and kindling for the Citizens' Emergency Relief Committee.



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Wilson Way at Roosevelt Stockton, Calif.

MACHINERY & MATERIAL

Bid calls for construction machinery and materials and miscellaneous equipment and supplies purchased by Federal, State, Municipal and other public agencies.

EAST BAY UTILITY DIST.

OAKLAND, Cal.—Until November 22, 8 P. M., bids will be received by John H. Kimball, Secretary, East Bay Municipal Utility District, 512 Sixteenth St., Oakland, for furnishing gate valves under Spec. No. LS-114, involving:

- (1) 200 4-in. diameter.
- (2) 250 6-in. diameter.

SAN FRANCISCO CITY

SAN FRANCISCO—Until Nov. 20, 3 P. M., bids will be received by T. A. Brooks, Purchaser of Supplies, 270 City Hall, for opera chairs for the Health Center Building. Specifications and proposal blanks available from above office.

SAN FRANCISCO.—Until Nov. 24, 3 P. M., bids will be received by T. A. Brooks, Purchasing Agent, Room 270, City Hall, for concrete water meter boxes and lids for the San Francisco Water Department for a term of one year from January 1, 1934. Specifications obtainable from above office.

CANAL ZONE

PANAMA CANAL ZONE—Until November 24, bids will be received by the General Purchasing Office, Panama Canal, Washington, D. C., under Schedule 2918, as follows:

PLATES, friction, 16 sets.
GRINDER, bench, 1.
WHEEL, emery, 1.
BRICK, fire clay, 4300.
TIMBER, creosoted yellow pine or Douglas fir, 62 pcs.
TIMBER, creosoted yellow pine or Douglas fir, 34 pcs.
TIMBER, creosoted yellow pine or Douglas fir, 550 lin. ft.
LUMBER, yellow pine or Douglas fir, 200,000 ft.
LUMBER, yellow pine or Douglas fir, 350,000 ft.
LUMBER, yellow pine or Douglas fir, 200,000 ft.
LUMBER, yellow pine or Douglas fir, 100,000 ft.

PANAMA CANAL ZONE—Until November 27, bids will be received by the General Purchasing Officer, the Panama Canal, Washington, D. C., under Schedule 2919 for lagscrew anchors, junction boxes, outlet boxes, conduit clamps, drinking fountains, cast iron soil pipe, brass or bronze pipe fittings, railing fittings, brass unions, flush elbows, lavatory faucets, steam cocks, steel bolts, brass bolts, steel tray wheelbarrows, strip rubber and pencil sharpeners.

MET. WATER DISTRICT

LOS ANGELES, Cal.—Until November 21, 10 A. M., bids will be received by Saul A. Joseph, Purchasing Agent, Metropolitan Water District, Room 504, 306 W. Third St., for furnishing 850,000 board feet of Douglas Fir lumber under Bid No. 17728.

WAR DEPARTMENT

SAN FRANCISCO.—Until Dec. 6, 3 P. M., bids will be received by the U. S. Engineer Office, Lt. Col. H. A. Finch, District Engineer, 401 Custom House, under Circular Proposal No. 34-17 for furnishing one hydraulic control for the 26-in. gate valve on the U. S. Seagoing Hopper Dredge "A. Mackenzie."

Specifications on file at the above office.

SACRAMENTO, Cal.—Until Nov. 21, 3 P. M., bids will be received at the U. S. Engineer Office, Capt. J. G. Drinkwater, District Engineer, Room 208, Post Office Bldg., Sacramento, for furnishing 2000 ft. wire rope, ¾-in. diameter, under Order No. 5881/Sac. 172. Specifications obtainable from above office.

SACRAMENTO, Cal.—Bids will be received until November 20, 3 P. M., under Order No. 5861/2125, by the U. S. Engineer Office, Capt. J. G. Drinkwater, District Engineer, Room 208, Post Office Bldg., Sacramento, for the following items to be delivered to the U. S. Engineers f.o.b. Rio Vista, Cal.: Caulking cotton, oakum, engine lubricators, lock levee oil, bibbs, wire nails, wrenches, files, mop handles, buckets, canteens, sash cord, solder, steel wool, friction tape, flashlight batteries, belt dressing, machine belts, spring cutters, machine screws, brazing rods, Alemite straight fittings, Starrett Micrometer Caliper, white cotton waste, air hose, rubber packing, asbestos fibre sheet packing, lanterns, oars, bakers, copper tubing, metal polish, and wiping rags.

Specifications obtainable from above office.

RECLAMATION SERVICE

BOULDER CANYON, Nevada—Until Nov. 20, 2 P. M., bids will be received by A. MacD. Brooks, purchasing Agent, Bureau of Reclamation, Denver, for furnishing 155 drums of asphalt emulsion of the Bentonite clay type, in 55-gal. drums, f.o.b. cars at shipping point and/or f.o.b. cars at destination, Boulder City. "NIRA" No. 23-035-A, Boulder Canyon.

U. S. FOREST SERVICE

GOVERNMENT ISLAND, Cal.—Bids will be received by Frank Haynie, Supply Officer, Forest Service Supply Dept., Government Island, Oakland, as follows:

WHEELBARROWS, steel, 16-ga. tray, capacity, 3 cu. ft.; width, 28-in., length, 61½-in., height, 18½-in., 1800. Bid 584; Nov. 20.
TENTS, wall, and flies for tents, 14x 16-ft., 1000 each. Bid 585; Nov. 20.
RAKES, asphalt, 16-in. head, 10 teeth, 175 doz. Bid 581; Nov. 20.

CALIFORNIA STATE

SACRAMENTO, Cal.—Bids will be received until Nov. 22, 10 A. M., by the State Bureau of Purchases, under Quotation No. 15153, Requisition No. 8879 for furnishing one 75-gal. capacity asphalt heating kettle, to be delivered to the Division of Highways, Shop 6. Bidder must furnish complete specifications, with a photograph or cut of what they propose to furnish.

NAVY DEPARTMENT

BREMERTON, Wash.—Bids will be received by the Supply Officer, Puget Sound Navy Yard, Bremerton, as follows:

SCREWS, machine, round-head, Class 2 fit., brass, 140 gross. Req. NSA-8/4930; Nov. 28.
SCREWS, machine, round-head, Class 2 Fit., brass, 140 gross. Req. NSA-8/4934; Nov. 28.

WASHINGTON, D. C.—Bids will be received by the Bureau of Supplies & Accounts, Navy Dept., Washington, D. C., as follows:

LATHE, engine, motor-driven, 1 for Mare Island; 2 for San Pedro; 2 for East or West yards; Sch. 1070, Nov. 21.
MACHINE, motor-driven pipe threading and cutting, for San Diego; Sch. 1074, Nov. 21.
PLANER & JOINTER, woodworking, motor-driven, for San Diego; Sch. 1076, Nov. 21.
BRAKE, bending, motor-driven, for San Pedro; Sch. 1093, Nov. 21.
LATHES, turret, motor-driven, and equipment, 2, for Puget Sound; Sch. 1091, Nov. 21.
MACHINE, milling, motor-driven, for Mare Island; Sch. 1075, Nov. 21.
MACHINE, engraving, motor-driven, and bench type grinder, for Mare Island; Sch. 1073, Nov. 21.
SHEAR, motor-driven rotary throatless, for San Pedro; Sch. 1080, November 21.
MACHINES, motor-driven screw, 2, for Puget Sound; Sch. 1081, Nov. 21.
SHEAR, motor-driven rotary, for San Diego; Sch. 1094, Nov. 21.
MACHINE, nibbling, sheet metal, motor-driven for San Diego; Sch. 1095, Nov. 21.
PRESS, 60-ton capacity vertical horizontal, for San Diego; Sch. 1096, Nov. 21.
MACHINES, vegetable peeling, electrically operated, 2, for Mare Island; Sch. 1089, Nov. 21.
LATHES, motor-driven engine, and spares, 18, for Puget Sound; Sch. 1107, Nov. 24.
BRUSHES, dauber, 2900, for Mare Island. Sch. 1053; Nov. 21.
CUPS, oil and grease, for East and West Yards. Sch. 1051; Nov. 21.
BRUSHES, steel wire casting, 1000 for San Diego; 6000 for Mare Island; 2500 for Puget Sound. Sch. 1054; Nov. 21.
BRUSHES, steel wire cleaning, 3000 for San Diego; 9400 for Mare Island; 4400 for Puget Sound. Sch. 1054; Nov. 21.

BRUSHES, hand platers', 48 for San Diego; 500 for Puget Sound. Sch. 1054; Nov. 21.

TUBING, seamless steel tubing, for Puget Sound. Sch. 1086; Nov. 21.

GLASSES, water gage, 600 for Puget Sound; 600 for San Diego, Mare Island and Puget Sound. Sch. 1061; Nov. 21.

FITTINGS, pipe, composition, for East and West Yards. Sch. 1067; Nov. 21.

FITTINGS, lubricating gun, 5935 for Mare Island; 4000 for Puget Sound. Sch. 1083; Nov. 21.

BRICK, fire, for Puget Sound. Sch. 1085; Nov. 21.

LINOLEUM, battleship, 300 sq. yds. for Puget Sound. Sch. 1088; Nov. 21.

BRUSHES, flowing, lettering, sash tool, varnish, chisled and platers for East and West Yards. Sch. 1056; Nov. 21.

CLEANERS, file, combination, 1120, for Western Yards. Sch. 1057; Nov. 21.

FITTINGS, malleable and cast iron pipe, for East and West Yards. Sch. 1098; Nov. 24.

Bids will be received by the Purchasing Officer, 12th Naval District, 100 Harrison St., San Francisco, for the following:

MIXING PLANT, concrete, complete, one cubic yard, with cement, sand and gravel bins; hoppers, elevators, conveyors, batching equipment and other apparatus, and parts required for one man control; electric powered; for Mare Island. Sch. 8618; Nov. 21.

TUBING AND PIPE, seamless, copper 11,000 lbs. for Mare Island. Sch. 8652; Nov. 22.

COPPER, nickel alloy, 4400 lbs., Mare Island. Sch. 8654; Nov. 22.

BRASS, 7700 lbs.; Mare Island. Sch. 8633; Nov. 23.

STEEL PIPE, 20,000 ft.; Mare Island. Sch. 8655; Nov. 23.

WASHERS, lock; Mare Island. Sch. 8696; Nov. 23.

WINDOWS AND DOORS, steel, 8 steel windows, 3 pr. steel double doors, and 13 steel doors; Mare Island. Sch. 8782; Nov. 23.

WELDING RODS, 2000 lbs.; Mare Island. Sch. 8744; Nov. 24.

WELDING RODS, 1000 lbs.; Mare Island. Sch. 8743; Nov. 27.

HAMMERS, carpenters claw, 1300; Mare Island. Sch. 8274; Nov. 28.

U. S. FOREST SERVICE

GOVERNMENT ISLAND, Cal.—Until Nov. 21, 2 P. M., bids will be received by Frank Haynie, Supply Officer, Government Island, Oakland, Cal., as follows:

FORKS, manure, 6 tines; 100 doz. Bid 586.

ROPE, Manila; 30,000 ft. Bid. 588.

GRINDSTONES, mounted, steel frame, foot and hand operated; 300. Bid 589.

EXTRA STONES, as above; 300. Bid 589.

WEDGES, tool, steel; 5000 doz. Bid 590.

FILES, flat mill, 8-in., 300 doz. Bid 592.

FILES, flat, bastard, 14-in. 1500 doz. Bid 592.

FILES, taper 6-in.; 300 doz. Bid 592.

RASPS, wood, flat, 10-in.; 250 doz. Bid 592.

RASPS, wood, flat, 14-in. bastard; 250 doz. Bid 592.

HOOKS, brush; 425 doz. Bid 591.

EXTRA HANDLES; 400 doz. Bid 591.

LANTERNS, gasoline; 2000. Bid 593.

MANTELS; 1000 doz. Bid 593.

GENERATORS; 500 doz. Bid 593.

CHIMNEY or LENSE; 50 doz. Bid 593.

CANTEENS, 4-qt.; 450 doz. Bid 594.

GOVERNMENT ISLAND, Cal.—Until Nov. 23, 2 P. M., under Bid No. 595, bids will be received by Frank Haynie, Supply Officer, Forest Service Supply Depot, Government Island, Oakland, Calif., for the following supplies and materials:

BITS, auger, wood, 1-in. to 3-in.; 75.

CHISELS, wood, socket firmer, 1½-in. 75.

CHALK LINE, twisted #6, 240 ft. ea.; 75.

CHALK, carpenter's, blue, cakes; 75 doz.

CHISELS, cold, 1-in.x8-in.; 150.

CUTTERS, pipe; 75.

DRILL, breast, two-speed; 75.

DRILL BITS, for above drill; 75 sets.

DRILL post, automatic feed drill; 75 sets.

DRILL BITS, for above drill; 75 sets.

FLATTERS, blacksmith; 75.

FORGE, blacksmith, portable, with blower; 75.

HAMMER, blacksmith, 2½-lb.; 7 doz.

HAMMER, claw, 20 oz.; 38 doz.

HAMMER, ball pein, 2-lb.; 7 doz.

HAMMER, tool dressing; 7 doz.

HARDIE, straight, ¾-in. shank; 75.

HATCHET, shingle; 19 doz.

NAIL SETS, 4/32-in. diameter; 150.

PENCILS, carpente; 38 doz.

PLANE, pointer, smooth; 75.

RULES, carpenter, folding; 75.

SAWS, hand, 8 point, 26-in.; 75.

SAWS, hand, rip, 5½-point, 26-in.; 75.

SCREWDRIVER, heavy ruty, 10-in. blade; 75.

SQUARE, carpenter; 75.

TONGS, blacksmith, straight lip, 24-in.; 75.

TONGS, bolt, 24-in.; 75.

TONGS, bolt, 20-in.; 75.

TONGS, forging, round jaw, 14-in.; 75.

TORCH BLOW, 1 qt. capacity; 75.

VICE, blacksmith, 6-in. jaw; 75.

WRENCHES, stillson, 18-in., pipe; 150.

WRENCHES, alligator, 9-in., steel; 150.

WRENCHES, S, standard; 75 sets.

VICE, saw filing, 10-in. jaw; 75.

ANVIL, long horn; 75.

COMPOUND, welding, 5-lb. box; 75 boxes.

RULES, carpenter, folding, 5-ft.; 75.

GAUGE, raker, saw filing for cross-cut saw; 75.

BLOCK, saw-setting; 75.

HAMMERS, swedging, 7-oz.; 75.

SAW SETS, hand; 75.

BLACKSMITH'S SLEDGE CROSS PEIN, 10#; 75.

CREW PLATE, TAP AND DIES; 75 each.

WRENCHES, stillson, 36-in.; 150.

COLD EYE CHISELS, 1-in.; 150.

TINNERS SNIPS, 4-in. cut; 75.

BAR SOLDER, 1½-lb.; 75 bars.

BAR TIN, 1¼-lb.; 75 bars.

SCREWDRIVER, 3-in. blade; 150.

BITS, auger, 10 to set; 75 sets.

RASPS, half round wood, 10-in.; 75 doz.

RASPS, flat wood, 16-in.; 75 doz.

PIPE STOCKS AND DIES; 75 each.

GRASS VALLEY CITY

GRASS VALLEY, Cal.—Until Nov. 28, 7:30 P. M., bids will be received by the Grass Valley City Council for furnishing 300 ft. of first class, A-I 2½-in. firehose with couplings.

WAR DEPARTMENT

SACRAMENTO, Cal.—Bids will be received by the U. S. Engineer Office, Capt. J. G. Drinkwater, District Engineer, Room 208, Post Office Bldg., Sacramento, under Order No. 5363/2125, until November 24, 3 P. M., as follows:

ROPE, wire, ¾-in. diameter; 2000 ft.

ROPE, wire, 5/8-in. diameter; 1000 ft.

ROPE, wire, 7/8-in. diameter; 3000 ft.

U. S. INDIAN SERVICE

FORT HALL, Idaho—Until November 25, 10 A. M., bids will be received by H. W. Camp, Superintendent Warehouse for Indian Supplies, 23 Appraisers Bldg., San Francisco, for bridge lumber, Douglas fir, rough, common, various sizes, for the Fort Hall Indian Agency, Fort Hall, Idaho.

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ENGINEERING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

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| 21.—Bridges | 30.—Reservoirs and Dams |
| 22.—Dredging, Harbor Works, Excava. | 31.—Pipe Lines and Wells |
| 23.—Irrigation Proj. | 32.—Sewers & Sewage Disposal Plants |
| 24.—St. Light. Systems | 33.—Water Works |
| 25.—Machinery and Equipment | 34.—Parks & Playgrounds |
| 26.—Railroads | 35.—Tunnels |
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| 28.—Fire Equipment | |
| 29.—Streets & Highways | |

21— BRIDGES

ADAMS COUNTY, Wash.—Colonial Building Co., 276 First St., Spokane, at \$8495 submitted low bid to L. V. Murrow, Director of Highways, Olympia, and was awarded contract for constructing a treated timber trestle 112 ft. long, with concrete deck, grading approaches, and channel change, State Road No. 11, Lind Bridge and approaches in the city of Lind, NRM 180-A, in Adams County.

G. M. Barber & Sons, Presser, at \$9198 submitted second low bid and Elliott & Co., Inc., Seattle, at \$9224 submitted third low bid.

TOMBSTONE, Arizona—All bids for constructing a timber bridge, approaches and road guard on the Benson-Douglas Highway, N.R.H. 79 - C, about 9½ miles south of Tombstone, opened by the Arizona Highway Commission October 31, have been rejected.

SAN FRANCISCO—Raymond Concrete Pile Co., and J. H. Pomeroy, Inc., 111 Sutter St., at \$941,400 awarded contract by Golden Gate Bridge & Highway District for construction of San Francisco and Marin Approach Span of the Golden Gate Bridge. The companies receiving the contract are assignees of Bridge Builders, Inc., original low bidders. The contractors are pledged to purchase 51% of the materials used within the Golden Gate Bridge District. Steel is to be fabricated by Judson Pacific Co.

Bids were opened October 14, 1932.

PLUMAS COUNTY, Cal.—Until December 6, 2 P. M., bids will be received by State Highway Commission, Sacramento, for constructing a steel stringer bridge with concrete deck across Yellow Creek about 2 miles west of Howells, consisting of one 50-ft. span, one 44-ft. span and two 32-ft. spans on concrete piers and abutments, in Plumas County, involving:

- (1) 125 cu. yds. struc. excav.
- (2) 321 cu. yds. Class A Portland cem. concrete;
- (3) 45,000 lbs. bar reinf. steel;
- (4) 101,000 lbs. struc. steel;
- (5) 570 lbs. cast bearings;
- (6) 374 lin. ft. solid timber railing;
- (7) 1 lot miscellaneous items of work

Plans and specifications obtainable at above office, and are on file at the offices of the District Engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

SAN DIEGO COUNTY, Calif.—Contracting Engineers, Inc., 2310½ West Vernon Ave., Los Angeles, at \$12,743.25 awarded contract by the State

Highway Commission, Sacramento, for widening two reinforced concrete girder bridges, each having a span of approximately 32 ft., between Occanside and Carlsbad, in San Diego County.

SPOKANE COUNTY, Wash.—Until November 28, 10 A. M., bids will be received by L. V. Murrow, State Director of Highways, Olympia, Wash., for paving with Portland cement concrete about 0.2 of a mile of approaches and constructing an undercrossing of the O. W. R. R. and N. Co. tracks on State Road No. 2, Dishman Undercrossing, National Recovery Highway Project No. NRH 182-B, in Spokane County, involving:

- (1) 18,860 cu. yds. excav.;
- (2) 5486 sq. yds. pavement;
- (3) 1259 lin. ft. culvert pipe;
- (4) 1499 cu. yds. concrete;
- (5) 728,000 lbs. struc. steel;
- (6) 49,000 lbs. steel reinf. bars;
- (7) 29,400 lbs. steel castings;
- (8) Miscellaneous items.

Plans and specifications obtainable from above office upon deposit of \$2.

LOS ANGELES, Cal.—Until December 4, 2 P. M., bids will be received by the Los Angeles County Supervisors for constructing a timber and steel bridge on Carmenita (Moody) Road over Coyote Creek. Bids will be received as follows:

- (1) Timber and steel bridge, part redwood and part Douglas fir.
- (2) Timber and steel bridge complete, being all redwood.

George W. Jones, County Road Commissioner, Mame B. Beatty, 501 Hall of Records, Clerk of the Board.

MADERA COUNTY, Cal.—Until December 5, 10 A. M., bids will be received by the Madera County Board of Supervisors, Court House, Madera for the construction of one wood frame bridge over Fine Gold creek in Supervisorial District No. 5, according to the plans and specifications on file in the County Surveyor's office. L. W. Cooper, county clerk.

SONOMA COUNTY, Calif.—The Sonoma County Board of Supervisors has approved an appropriation of \$59,750 as its share of the cost of constructing a bridge across the Russian river at Monte Rio. The bridge will be constructed by Joint Highway District No. 19, with funds appropriated by the State, Sonoma and Mendocino Counties. Bids will be asked shortly. Estimated cost, \$100,000. J. B. Piatt, Santa Rosa, district engineer.

22—DREDGING HARBOR WORKS EXCAVATION

MARE ISLAND, Cal.—George Pollock, P. O. Box 903, Sacramento, at

\$195,421 submitted low bid to the Public Works Officer, Ralph Whitman, Navy Yard, Mare Island, under Spec. 7102 for extension of Dike No. 12. Bids were taken as follow:

- (1) 1800 ft. dike extension;
- (2) per ft. for each additional foot;
- (3) per ft. for each foot deducted.

Complete bids follow: George Pollock, Sacramento, (1) \$195,421; (2) \$118; (3) \$118.

Daniel Contracting Co., San Francisco (1) \$248,900; (2) \$100; (3) \$100. Basalt Rock Co., Napa, (1) \$250,250; (2) \$100; (3) \$100.

SACRAMENTO, Cal.—Daniel Contr. Co., 503 Market St., San Francisco, at \$48,000 submitted low bid to the U. S. Engineer Office, Capt. J. G. Drinkwater, District Engineer, Sacramento, for furnishing and placing approximately 30,000 tons of rip-rap stone along the banks of the Sacramento river at various points between the mouth of Cache Slough and Collinsville.

Complete bids follow: Daniel Contr. Co., San Francisco per cu. yd., \$1.60; total \$48,000.

Hutchinson Co., Oakland, \$1.62; \$48,600.

Blake Bros., San Francisco, \$1.68; \$50,400.

Govt. estimate, \$1,6287; \$48,860.

YOLO COUNTY, Calif.—Olympian Dredging Co., 249 First St., San Francisco, at \$0.2198 per cu. yd., submitted only bid to the U. S. Engineer Office, Sacramento, for placing 525,000 cu. yds. of embankment along existing levee on the east side of Yolo Bypass between the Yolo Causeway and Miner Slough, a distance of about 20.2 miles.

Bids were previously opened Oct. 31 and all bids were rejected. Olympian Dredging Co. submitted low bid at that time at \$0.2399 per cu. yd. Government estimate, \$0.215.

FORT MASON, Cal.—Ben C. Gerwick, Inc., 112 Market St., San Francisco, at \$46,117 awarded contract by the Constructing Quartermaster, Fort Mason, for dredging at U. S. Army Transport Docks, Fort Mason. Complete bids published October 28.

SACRAMENTO, Cal.—Until November 24, 3 P. M., bids will be received at the U. S. Engineer Office, Capt. J. G. Drinkwater, District Engineer, 208 Post Office Bldg., Sacramento, for constructing an embankment across overflow channels on the northerly side of the Yuba River about 0.5 miles easterly of the City of Marysville, approximately in line with 10th St., involving about 2200 cy. yds., embankment in place.

Specifications No. 5874 obtainable from above office.

COLUSA COUNTY, Cal.—Lord & Bishop, 316 26th St., Sacramento, at \$34,650 awarded contract by U. S. Engineer Office, Sacramento, for placing approximately 12,600 tons of rip-rap stone along five sections of the banks of the Sacramento River, near Princeton.

SOUTH SAN FRANCISCO, San Mateo Co., Cal.—The South San Francisco City Council has authorized the city engineer to report on various possible municipal improvements that might qualify for aid under the Federal Public Works Administration program. The report being prepared by Assistant City Engineer Robt. Klassen will include proposals for the exten-

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Manager

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sion of the outfall sanitary sewers and the construction of new sanitary sewers.

The City Council probably will recommend a bond issue to be submitted at a special election.

SACRAMENTO, Cal.—Until November 22, 3 P. M., bids will be received by the U. S. Engineer Office, Capt. J. G. Drinkwater, District Engineer, Post Office Bldg., Sacramento, under Spec. No. 5869, for furnishing and placing approximately 2500 tons of rip-rap stone along the westerly bank of the Sacramento River about 17 miles upstream from Colusa in the vicinity of Keller Place. Alternate bids will be considered for furnishing and placing either of two different grades of stone as follows:

Grade A—Oroville cobbles.

Grade B—Quarry stone.

Plans and specifications obtainable from above office.

HONOLULU, T. H.—The Hawaiian Dredging Co., Honolulu, at \$696,875 awarded contract for dredging in Honolulu Harbor by the U. S. Engineer, Honolulu. Bids were opened Nov. 1, and the Hawaiian Dredging Co. submitted only bid, which was accepted after revision.

SACRAMENTO, Calif.—Hydraulic Dredging Co., 1210 Central Bank Bldg., Oakland, at \$0.11 per cubic yard, submitted low bid to the U. S. Engineer Office, Sacramento, for dredging 2,760,000 cubic yards from Sacramento river along the westerly edge of Lower Brannan Island, extending from near the head of Three-Mile Slough upstream for a distance of approximately 1.7 miles. Complete bids follow:

Hydraulic Dredg. Co., Oakland, \$11
San Francisco Bridge Co., S. F.117
American Dredging Co., S. F.125
Government estimate0878
All bids held under advisement.

PORT ALLEN, T. H.—All bids for dredging the harbor at Port Allen, T. H., will probably be rejected and the work done by government forces. Hawaiian Dredging Co., Honolulu, at \$317,548 submitted low bid to the U. S. Engineer, Port Allen, Nov. 3.

23—IRRIGATION PROJ.

ARIZONA STATE.—An appropriation of \$688,000 for the San Carlos project has been approved by the Federal Public Works Administration. The funds will be expended for installing 100 pumping plants within the San Carlos project and for extending the power line from Hayden to the valley, and on to Tucson, if and when a satisfactory contract can be secured between the City of Tucson and the government. The matter of a desilting dam at the Buttes, 15 miles east of Florence, is under consideration and it is reported that provision for the dam would be made in the next allotment of Indian funds.

ONTARIO, Ore.—Following are the complete bids submitted to the Bureau of Reclamation, R. J. Newell, Construction Engineer, Ontario, for canal lining, Tunnel No. 4, and structures, North Canal, Station O (Tunnel Canyon) to Station 513 (Mitchell Butte), Mitchell Butte Division, Owyhee Project, Oregon-Idaho.

Morrison-Knudsen Co., Boise, Idaho, Schedule 1, \$39,400; Sch. 2, \$67,485; Sch. 3, \$36,693.75; Sch. 4, \$98,105; Sch. 5, \$4,722.59.

General Const. Co., Seattle, Sch. 4, \$98,007.00.

John Klug, Nyssa, Ore., Sch. 3, \$27,-

746; Sch. 5, \$4,020.00.

Chris Yonlick, Seattle, Sch. 4, \$99,-155.00.

Youdall Const. Co., & Elliott, Stroud Bros. & Seabrook, San Francisco, Sch. 1, \$42,304; Sch. 2, \$73,927.75; Sch. 3, \$40,480.25; Sch. 4, \$138,454.20; Sch. 5, \$5,076.

S. S. Magoffin Co., Adrian, Oregon, Sch. 4, 122,018.62.

G. K. Thompson, Los Angeles, Sch. 4, \$134,729.50.

Edw. Peterson Co., and R. S. Morrow & Son, Omaha, Neb., Sch. 1, \$50,-101.68; Sch. 2, \$68,980; Sch. 3, \$35,829; Sch. 4, \$144,617; Sch. 5, \$5,806.

24—STREET LIGHTING SYSTEM

HAMILTON FIELD, Marin Co., Cal.—Until Nov. 22, 11 A. M., bids will be received by the Constructing Quartermaster, Hamilton Field, for extensions to the street lighting and electrical distribution system, and the construction of a transformer vault at Hamilton Field, San Rafael, involving:

- (1) 3200 lin. ft. No. 1/0 5000 V.V.C.L.-3/c cable;
- (2) 2400 lin. ft. No. 2/0 600 V.-P.W.C. cable;
- (3) 150 lin. ft. No. 1/0 do;
- (4) 2000 lin. ft. No. 1 do;
- (5) 3700 lin. ft. No. 4 do;
- (6) 10,300 lin. ft. No. 6 do;
- (7) 20,000 lin. ft. No. 8 5000 V.-P.W.C. do;
- (8) 58 street lighting standards;
- (9) 2-6 circuit secondary distribution panel, 1 phase;
- (10) 3-4 do, 1 phase;
- (11) 2-6 do, 3 phase;
- (12) construction of a new transformer vault and installation of 3-25 KVA transformers.

Plans and specifications obtainable from above office upon deposit of \$5; and on file at the office of DAILY PACIFIC BUILDER.

25—MACHINERY AND EQUIPMENT

BIDS WANTED—All bid calls formerly published under this heading now appear under the special heading "Machinery and Materials."

MODESTO, Stanislaus Co., Calif.—Pomona Pump Co., Pomona, at \$1536.18 submitted low bid to the Modesto City Council and was awarded contract for furnishing one pump and meter and all necessary fittings for installation at the plant, ready to operate. Only other bid received was that of John Bean Mfg. Co., San Jose, at \$1784.41, less 5%; alt. \$1809, less 5%.
25

SAN DIEGO, Cal.—Thomson-Diggs Co., Third and R Sts., Sacramento, awarded contract by Grant Goodale, Assistant State Purchasing Agent, State Bldg., Los Angeles, for furnishing to the Division of Highways, 664 Front St., San Diego, one size No. 1 gear pattern rotary barrel pump No. 115, ¾-in. suction. Req. No. 135.

SAN FRANCISCO—Valley Tractor & Equipment Co., 702 10th St., Modesto, at \$180 per month, each, for five tractors, submitted low bid to U. S. Forest Service, Ferry Bldg., for the rental of crawler type tractors rating not less than a Caterpillar "60". R. E. Anderson Co., Marysville, at \$50 a month, each, submitted low bid for the rental of five graders of 12-ft. blade class either straight or leaning wheel. Following is a complete list of bids:

- (A) Tractor.
- (B) Grader.

Valley Tractor & Equipment Co., Modesto (A) (5) \$180 each; (B) no bid.

San Diego Tractor & Equipment Co., San Diego, (A) (2) \$200 each; (B) no bid.

Butte Tractor & Equip. Co., Chico, (A) (3) \$250 each; (B) (2) \$100.

Cornell Tractor Co., Salinas (A) (2) \$275 each, (1) \$300; (B) no bid.

R. E. Anderson Co., Chico, (A) (1) \$300; (2) \$275; (B) 5-\$50.

Doyle Tractor & Equip Co., Porterville (A) (1) \$280; (B) no bid.

Meyer Rosenberg, San Francisco (A) (1) \$290; (B) (1) \$125.

Berglund Tractor & Equip. Co., Napa, (A) (1) \$300; (B) no bid.

Marysville Tractor & Equip. Co., Marysville, (A) (1) \$300 (1) \$375; (B) no bid.

Miller Tractor & Equip. Co., Eugene, Ore., (A) (2) \$300, (3) \$325; (B) (1) \$100, (2) \$150.

Hulse Anderson Tractor Co., El Centro, (A) (5) \$325; (B) no bid.

Western Machinery Co., San Francisco (A) (1) \$335, (1) \$290; (B) (2) \$125.

Shephard Tractor & Equipment Co., Los Angeles (A) no bid; (B) (2) \$125.

Edward R. Bacon Co., San Francisco, (A) (1) \$350; (B) (5) \$175.

C. R. Lincoln, Berkeley (A) (1) \$350; (B) (1) \$95.

X. Carrithers, San Mateo, (A) (1) \$600; (B) (1) \$150.

Crook & Co., Los Angeles (A) no bid; (B) (5) \$90.

Austin Western Road Machinery Co., San Francisco (A) no bid; (B) (5) \$125, 3 months; \$100, 5 months. All bids under advisement.

BOULDER CANYON, Nevada—Hardie-Tynes Mfg. Co., 800 N. 28th St., Birmingham, Alabama, at \$269,500 has been awarded the contract by the Bureau of Reclamation, Denver, for furnishing one 120-in. and four 168-in. butterfly valves for Boulder Dam, under Specifications No. 544, Schedule No. 1. The bids were opened Novem-

26—RAILROADS

GLENDALE, Arizona—The Santa Fe Railway is planning to construct a 25-mile branch from Glendale to Hyatt's Camp and north to top if the Paradise and Deer Valleys, which are to be put under extensive development following construction of the Verde Project. Another rail project of the Santa Fe contemplates a 76-mile loop through these valleys from west of Peoria to join the Santa Fe lines in the vicinity of Lehi, east of Phoenix. Surveys for the 25-mile branch have been contemplated.

FORT MASON—Until November 22, 10 A. M., bids will be received by the Constructing Quartermaster, Fort Mason, for relaying and reconditioning railroad tracks at Fort Mason.

Bids (previously opened November 2) were rejected. Eaton & Smith, San Francisco, at \$30,163 submitted low bid.

30—RESERVOIRS & DAMS

GRAND COULEE, Wash.—Contractors who have obtained specifications for excavating at the Grand Coulee Dam site, bids for which are to be opened Nov. 20, are:

Six Companies, Inc., General Const. Co., 3840 Iowa St., Seattle.

Ryan & Co., San Francisco.
Rumsey & Co., Medical Arts Bldg., Seattle.

Fred Redmond, Yakima, Wash.

SAN DIEGO, Cal.—The City of San Diego has applied to the Federal Ad-

ministration of Public Works for a loan of \$110,000 and a grant of \$45,000 to finance the strengthening of the buttresses of the Hodges reservoir dam against earthquakes and to construct the Hodges reservoir dam spillway discharge apron. The present structure is a multiple arch concrete dam across the San Dieguito river.

Hiram Newton Savage, 524 F St., San Diego, is the hydraulic engineer.

BOULDER CANYON, Nev.—Following bids received by the Bureau of Reclamation, R. F. Walker, Chief Engineer, Denver, for furnishing trash racks for intake towers at Boulder Dam; Spec. No. 547:

The Ingalls Iron Works Co., 1/4%, Birmingham, Ala., weight, 6,426,000 lbs.; bid, \$163,500.

The Ingalls Iron Works Co., 1/4%, Boulder City, Nev., 6,426,000; \$227,700. Virginia Bridge & Iron Co., Birmingham, Ala., (net) 6,435,000; \$165,000.

Mississippi Valley Structural Steel Co., net, shipped at St. Louis, 6,410,000; \$167,620.20; Boulder City, \$226,336.20.

John W. Beam, 1/4%, Rootone, Ill., 6,540,000; \$173,000.

Pacific Car & Foundry Co., net, Renton, Wash., 6,503,000; \$200,000.

Allis-Chalmers Mfg. Co., net, West Allis, Wis., 6,492,000; \$267,500.

American Locomotive Co., net, Dunkirk, N. Y., 6,550,380; \$245,622; Boulder City, \$295,825.

American Bridge Co., net, Ambridge, Pa., 6,427,700; \$211,471; Boulder City, \$269,963.

Babcock & Wilcox Co., net, Barberton, Ohio, 6,430,000; \$301,000; at Boulder City, \$352,000.

The Bartlett Hayward Co., net, Baltimore, Md., 6,500,000; \$228,000; Boulder City, \$258,000.

Blaw-Knox Co., net, Blawnox, Pa., 6,429,300; \$205,094.

Belmont Iron Works, 1/4%, Eddystone, Pa., 6,674,300; \$209,500; Boulder City, \$289,500.

Commercial Iron Works, net, Portland, Ore., 6,600,000; \$225,954; Boulder City, \$322,974.

Consolidated Steel Corp., net, Los Angeles, 6,420,000; \$222,614.

The Commercial Shearing & Stamping Co., net, Boulder City, \$299,500.

Duffin Iron Co., net, Chicago, 6,468,000; \$275,406.

Drels & Krump Mfg. Co., 1%, Chicago, 6,070,000; \$225,000.

Decature Iron & Steel Co., 1/4%, Boulder City, 6,610,760; \$286,000.

The Flour City Orn. Iron Co., net, Boulder City, 6,548,000; \$274,450.

Kansas City Structural Steel Co., 1/4%, Boulder City, 6,500,000; \$243,951.

McClintic-Marshall Corp., net, Chicago, 6,450,000; \$222,000; Boulder City, \$273,000.

Milwaukee Bridge Co., net, Boulder City, 6,500,000; \$274,527.

Newport News Shipbuilding & Dry Dock Co., net, Newport News, 6,700,000; \$278,300; Boulder City, \$336,926.

Omaha Steel Works, 1/4%, Omaha, Neb., \$6,525,838; \$209,900; Boulder City \$246,900.

Ornamental Iron Works, 1/10 %, Boulder City, 6,650,000; \$334,050.

Stacy Schmidt Mfg. Co., net, Boulder City, 6,500,000; \$315,000.

The Stearns - Rogers Mfg. Co., net, Boulder City, 6,424,100; \$239,000.

Southwest Welding & Mfg. Co., net, Alhambra, Cal., 6,700,000; \$233,450.

Treadwell Const. Co., net, Midland, Pa., 6,605,000; \$252,894; Boulder City, \$310,164.

Union Steel Products Co., 1%, Alhambra, Mich., 6,476,000; \$204,996.

Western Pipe & Steel Co. of California, net, Los Angeles, 6,460,000; \$398,200.

Worden Allen Co., 1/4%, Boulder City \$238,950.

American Steel Foundries, net, Boulder City, 6,424,000; \$426,500.

Westinghouse Elec. & Mfg. Co., East Pittsburgh, 6,850,000; \$298,900; Boulder City, \$377,675.

SANTA BARBARA, Cal.—The City of Santa Barbara has applied to the Federal Administration of Public Works for a loan and grant of \$2,600,000 to finance the construction of extensions to the water supply system. Quinton, Code & Hill-Leeds & Barnard, 712 Standard Oil Bldg., Los Angeles, are the engineers. The list of projects follows:

(1) GIBRALTAR DAM—It is planned to raise the present concrete arch dam by placing a paved rock fill down stream from, but integral with the concrete structure. The storage capacity of the reservoir will be increased from 12,500 acre feet to approximately 40,000 acre feet. The project involves:

- ROCK FILL DAM**
- (1) 80,000 cu. yds. excavation;
 - (2) 3000 cu. yds. do for cut-off wall;
 - (3) 894,000 cu. yds. rock and fill in place;
 - (4) 4000 cu. yds. cut-off wall concrete
 - (5) 9900 cu. yds. grouting;

- SPILLWAY**
- (6) 105,000 cu. yds. portal excavation;
 - (7) 19,000 cu. yds. tunnel excav. rock;
 - (8) 1000 cu. yds. shaft excav. rock;
 - (9) 4750 cu. yds. tunnel lining conc.;
 - (10) 4500 cu. yds. channel paving;
 - (11) 1330 cu. yds. shaft wall concrete;

- OUTLET WORKS**
- (12) 200 cu. yds. excav. intake tower;
 - (13) 720 cu. yds. conc. intake tower;
 - (14) 450 cu. yds. excav. tunnel;
 - (15) 210 cu. yds. concrete tunnel lining;
 - (16) Footbridge on tower of dam;
 - (17) Gates and operating mechanisms
- Estimated cost, \$1,920,800.

- (2) SHEFFIELD DAM AND RESERVOIR—It is planned to raise and strengthen the dam and provide for storage of 60,000,000 gallons, involving:
- (1) 60,000 cu. yds. excav. and fill;
 - (2) 400,000 sq. ft. concrete lining;
 - (3) 800 cu. yds. concrete ribs;
 - (4) Expansion joints;
 - (5) Tile drains;
 - (6) Oil macadam surface;
 - (7) Gate house;
 - (8) Surface drainage ditches.
- Estimated cost, \$177,000.

- (3) EL CIELITO RESERVOIR—A circular, concrete structure with a capacity of 1,000,000 gallons to provide for the Mission Ridge section of the city, involving:
- (1) 5000 cu. yds. excav., earth and rock
 - (2) 650 cu. yds. concrete;
 - (3) 10,000 sq. ft. roof;
 - (4) Pipe, valves and fittings.
- Estimated cost, \$25,200.

- (4) LA MESA RESERVOIR—A circular concrete structure with a 2,000,000 gallon capacity to provide service to the mesa region, involving:
- (1) 8000 cu. yds. earth excavation;
 - (2) 900 cu. yds. concrete;
 - (3) 14,000 sq. ft. roof;
 - (4) Pipe, valves and fittings.
- Estimated cost, \$33,000.

- (5) Replace supply lines and distribution mains from Mission Tunnel to Sheffield Reservoir, involving:
- (1) 7200 lin. ft. 24-in. steel supply line
 - (2) 1500 lin. ft. 16-in. cast iron pipe;
 - (3) 10,800 lin. ft. 12-in. cast iron pipe
 - (4) 18,550 lin. ft. 8-in. cast iron pipe
 - (5) 11,350 lin. ft. 6-in. cast iron pipe;
 - (6) Pipe, valves and fittings in place.
- Estimated cost, \$169,400.

- (6) SHOP BUILDING. 4400 sq. ft.
- (1) 2500 cu. yds. foundation concrete;
 - (2) 4-car garage.
- Estimated cost, \$21,800.

31—PIPE LINES & WELLS

SAN JOSE, Cal.—American Concrete & Steel Pipe Co., 19th Ave. and Estuary, Oakland, at approximately \$12,500 awarded contract by the San Jose Water Works Co., for wrecking 2100 ft. of old wooden flume and replacing it with 33-in. reinforced concrete pipe. J. W. Ford, San Jose Water Works Engineer, is directing the job.

November 15, 1933

FUNDS APPLIED FOR

SAN DIEGO, Cal.—The City of San Diego has applied to the Federal Administration of Public Works for a grant of \$502,337 towards the cost of completing the San Diego water development project, the El Capitan Dam-Lakeside pipe line. The city has \$1,176,204 available for completion.

Hiram Newton Savage, 524 F St., San Diego, is the hydraulic engineer.

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HOLBROOK, Ariz.—J. P. Girard, consulting engineer, Phoenix, has completed a survey for a proposed pipe line to be built from the McLaws Artesian well, 3 miles west of Holbrook, to furnish the latter town with water. Application will be made to the Federal Public Works Administration for \$40,000 instead of \$75,000 as previously planned, eliminating the purchase price of the well.

MARCH FIELD, Riverside, Calif.—Until Nov. 23, 10 A. M., bids will be received by the Constructing Quartermaster, March Field, Riverside, for drilling and testing a gravel wall well at March Field. Spec. No. W-664-QM 34-8 obtainable from above office. Estimated cost, \$4000. Chas. F. Flatter, First Lieutenant, Constructing Quartermaster.

32—SEWERS & SEWAGE DISPOSAL PLANTS

PLACERVILLE, Cal.—Placerville City Council has authorized an application for Federal Public Works Funds to finance construction of a sewage disposal plant. Estimated cost, \$50,000. Preliminary plans have been prepared by City Engineer, C. J. Jenks.

COLTON, Cal.—The city of Colton has applied to Federal Public Works for a loan of \$40,000 for the construction of a sewage filtration plant, involving:

- (1) 2940 yds. excav. and grading;
- (2) 599 yds. concrete;
- (3) 48 tons reinf. steel;
- (4) 5000 sq. ft. sludge bed;
- (5) 8690 sq. ft. cement finish;
- (6) misrellaneous iron;
- (7) cast iron pipe & fittings;
- (8) galvanized iron pipe & fittings;
- (9) painting and finishing;
- (10) 1 rectangular clarifier & skimmer
- (11) 1 circular clarifier;
- (12) 2 blowers complete;
- (13) 2 blowers complete with plates;
- (14) 1 chlorinator;
- (15) 1 one-ton scale;
- (16) 1 water heater and tank;
- (17) 1 hot water pump;
- (18) 1 centrifugal sludge pump, 100-gpm., 6-in. head;
- (19) 1 plunger sludge pump;
- (20) 1 switchboard;
- (21) 10 electrical outlets;
- (22) placing equip. and pipe;
- (23) 2000 ft. relay existing sewer.

Currie Engr. Co., San Bernardino, consulting engineers.

CLOVERDALE, Cal.—Frank Bryant, 2911 23rd St., San Francisco, at \$4,427.80 awarded contract by the Cloverdale City Council, for construction of sewage disposal plant.

BAKERSFIELD, Kern Co., Calif.—Preliminary plans are being prepared for a sewage disposal plant estimated to cost \$100,000, to be erected at the city sewer farm. Public Works Funds have been applied for. Joe Holfelder, city engineer.

FRESNO, Cal.—The City of Fresno will hold an election December 19 to vote on a bond issue of \$35,000 to finance the construction of new storm sewers in Fresno.

ONTARIO, Cal.—The City of Ontario has applied to the Federal Administrator of Public Works for a loan of \$80,000 to finance the construction of a sewage disposal treatment plant of the activated sludge type, together with the laying of new outfall sewers. Currie Engineering Co., 219 Andreson Bldg., San Bernardino, Consulting Engineer.

SONORA, Tuolumne Co., Cal.—The City of Sonora will vote December 19 on a bond issue to finance the extension of sewer septic tanks to gravel beds south of Woods Creek, not to exceed \$1000. A grant of \$300, and a loan of \$700 will be asked of the Federal Public Works Administration if the bond issue is approved.

PALO ALTO, Cal.—Until November 28, 7:30 P. M., bids will be received by the Palo Alto City Council for the construction of a sewage disposal system, involving:

TRENCHING, LAYING AND BACK-FILLING

- (1) 763 lin. ft. 8-in. vitrified pipe;
- (2) 600 lin. ft. 10-in. do;
- (3) 7422 lin. ft. 12-in. do;
- (4) 1067 lin. ft. 14-in. do;
- (5) 6450 lin. ft. 15-in. do;
- (6) 886 lin. ft. 20-in. do;
- (7) 2420 lin. ft. 21-in. do;
- (8) 2709 lin. ft. 27-in. do;
- (9) Construct 34 Type "S" standard manholes;
- (10) Construct 7 Type "P" manholes;
- (11) Construct 1 Special manhole at Arroyo Road and Embarcadero Road;
- (12) 4600 lin. ft. 22-in. woodstove pipe outfall sewer, including trenching, backfilling, hauling, construction of pile bents and dredging;
- (13) Construct pump house, heaving plant, gas controller, sedimentation tank, screening chamber, sludge digestion tank including the furnishing of all machinery, piping and appurtenances complete as per specifications;
- (14) Furnishing and installing one 16-in x 10½-in. Herschell Standard Venturi Tube with one 40-in. Chronoflo mercury unit with register and recorder, add. This tube would be installed in the 16-in. cast iron effluent line from the sedimentation tank, and the recorder would be located in the Heating Plant.
- (15) Furnishing and installing one Link Belt Company's Type C Combination Grit Chamber and bar screen mechanism in place of the bar screen and davit hoisting mechanism as shown on plans.
- (16) Alt. for constructing one digester as per specifications.

J. F. Byxhee, City Engineer.

OAKLAND, Cal.—The Oakland City Council has set December 19 as the date for placing a bond issue in the sum of \$900,000 before the voters. The issue will finance the construction of sewers for Grand Ave., Broadway Terrace, Seminary Ave., Eighth, Ninth, and Fourteenth Aves., Harrison St., Alcatraz Ave., Keith Ave., Mandana Blvd., 83rd Ave., and Fruitvale Ave.,

and the replacement of old sewers on Eighth St. The city will apply for Federal Public Works Administration Funds if the issue is approved.

33— WATERWORKS

PEARL HARBOR, T. H.—Until December 6 (date postponed from Nov.

22) bids will be received by the Bureau of Yards and Docks, Navy Department, Washington, D. C., for improvement of fuel oil system at Pearl Harbor. Est. cost, \$112,000. Spec. No. 7136.

ROSEVILLE, Placer Co., Cal.—The Roseville City Council has retained J. O. Barr of the firm of Cunningham & Barr, as consultant on the city's plan to acquire a municipal water system for which bonds were voted Oct. 12, in the sum of \$250,000. The council has authorized an offer of \$140,000 to the owners of the existing water system for its plant. If the offer is not accepted, it is probable that the city will undertake construction of a new system.

FRESNO COUNTY, Cal.—The Fresno County Board of Supervisors has completed the formation of the Fresno County Waterworks District No. 2, formerly the Bullard Mutual Waterworks District. Residents of the district voted Nov. 6 by a vote of 63 to 9 to form the new district, and to issue \$38,000 in bonds for the installation of a new domestic water system.

CALAVERAS COUNTY, Cal.—Calaveras County Board of Supervisors has set December 4 at 3 P. M., as the time for hearing a petition to create the Calaveras Public Utilities District. The hearing will be held at the Calaveras County Court House in San Andreas.

OAKLAND, Cal.—The Oakland city will place a bond issue for an extension of the high-pressure fire protection system in the sum of \$350,000, before the voters at the December 19 election. If the issue is approved, the city will apply for Federal Public Works funds.

COLTON, Cal.—The city of Colton has applied to Federal Public Works Administration for a loan of \$93,000 for the construction of a water supply system, involving:

- (1) 30,655 ft. 6-in. steel pipe;
- (2) 8,580 ft. 8-in. steel pipe;
- (3) 10,400 ft. 10-in. steel pipe;
- (4) 50 hydrants;
- (5) 47 valves;
- (6) 35 connections;
- (7) 30 fittings;
- (8) 2 wells;
- (9) booster pump station;
- (10) 3,000,000 gal. reservoir;
- (11) 2,403 cu. yds. excavating;
- (12) 1,310 cu. yds. concrete;
- (13) 208 tons reinf. steel.

Currie Engr. Co., San Bernardino, consulting engineers.

ORINDA, Cal.—The East Bay Municipal Utility District, 512 16th St., Oakland, has applied to the Federal Administration of Public Works for a loan of \$152,000 and a grant of \$85,800 for the construction of water works at Orinda, Contra Costa Co., involving:

- (1) 2000 lin. ft. 10-in. cast iron pipe;
- (2) 31,300 lin. ft. 8-in. do;
- (3) 51,280 lin. ft. 6-in. do;
- (4) 30,350 lin. ft. 4-in. do;
- (5) 6 50 GPM pumps;
- (6) 2 200 GPM pumps;
- (7) 13,500 lin. ft. electric control cable
- (8) 1 battery of 2-in. regulators;
- (9) 1 battery of 4-in. do;
- (10) 6 600,000 gal. tanks;
- (11) 1 250,000 gal. tank,

REDWOOD CITY, Cal.—Federal Public Works Administration has granted \$5000 to Redwood City to aid in the construction of an extension of the water system to improve the service from Emerald Lake. Estimated cost of the work is \$20,000. The city's share of the expense of construction will be obtained from water system revenues. City Engineer, C. L. Dimmitt has announced that the bids will be advertised shortly.

EVERETT, Wash.—Engineer Clarence Hickey has announced that the survey for rebuilding the gravity water line will be completed this week, and that plans and specifications preparatory to calling for bids will be ready in about two weeks. Under the revised survey the gravity line will be 77,600 ft. long, about 5000 ft. shorter than the present one. Alternate bids will probably be asked, as Engineer Hickey has explained that construction of a 1700-ft. tunnel through a ridge would further shorten the line to the extent of about 8000 ft. and at the same time would increase the capacity of the line and eliminate danger of washout by the Pilchuck river, along which the longer survey runs.

CANBY, Ore.—Until Nov. 27, 8 P. M., bids will be received by the city council, J. A. Fesmark, City Recorder City Hall, Canby, for furnishing all materials excepting the pumping unit for construction of a new water supply system for the City of Canby, with alternate proposals by which the city will furnish pipe. The work involves:

- (1) installation of 3050 lin. ft. 6-inch cast iron or steel pipe;
- (2) 125 GPM pumping unit;
- (3) pump house;
- (4) spring intake;
- (5) reservoir.

Separate proposals are asked for furnishing pipe only and for furnishing pumping unit.

Plans and specifications obtainable at the office of the Water Superintendent, Canby, or at the office of the Engineer, H. L. Gilbert, 707 Couch Bldg., Portland, upon deposit of \$5, returnable.

FALLON, Nev.—R. A. Allen, State Public Works Engineer, has been advised that the Federal Public Works Administration has approved a loan of \$100,000 to the City of Fallon for improvements to the water distribution system.

34—PARKS AND PLAY-GROUNDS

SACRAMENTO, Calif.—West Coast Wire & Steel Works, 861 Howard St., San Francisco, at \$1,106.95 submitted low bid to the Sacramento City Council to furnish and install steel fencing at the Municipal Airport. Identical bids at \$1,133 were submitted by the following firms:

Standard Fence Co., San Francisco.
Western Steel & Wire Co.
Azevedo & Sarmento, Sacramento.
Dolan Bldg. Materials Co., Sacramento.
Thomson-Diggs Co., Sacramento.
Shorrock-Smith Co., Sacramento.
Emight Hardware Co., Sacramento.
Diamond Match Co., Chico.
Anchor Post Fence Co., San Francisco.
Michel & Pfeffer Iron Works, San Francisco.

SACRAMENTO, Cal.—The following firms submitted identical bids at \$1,668 to City Council for furnishing and installing steel fencing around Southside Park Lake, Sacramento:
Anchor Post Fence Co., San Francisco.
Diamond Match Co., Chico.

Emigh Hardware Co., Sacramento.
Michel & Pfeffer Iron Works, San Francisco.

Thomson-Diggs Co., Sacramento.
Shorroek-Smith, Sacramento.
Dolan Building Materials Co., Sacramento.

Azevedo & Sarmento, Sacramento.
Western Steel & Wire Co., San Francisco.

Standard Fence Co., Oakland.
The West Coast Wire & Iron Works San Francisco, submitted a bid at \$1,722.47. Bids held under advisement.

FT. MASON, Cal.—Standard Fence Co., 1940 San Bruno Ave., San Francisco, at \$1,618 awarded contract by Port Quartermaster, Fort Mason, for erecting 800 feet of wire fencing, including two gates on the west side of McDowell Ave., Fort Mason. Complete bids published Oct. 21.

29—STREETS AND HIGHWAYS

OAKLAND, Cal.—The Oakland city council will place a bond issue in the sum of \$100,000 to finance the construction of a recreation center and baseball diamonds, before the voters at the December 19 election. If the issue is approved, the city will apply for Federal Public Works Administration funds.

LOS ANGELES, Cal.—Until November 20, 10 A. M., bids will be received by the Los Angeles Harbor Dept., Rm. 112, City Hall, for the construction of a 930-foot extension to Seaside Ave., Terminal Island. The work will involve approximately 55,500 sq. ft. of 7-in. cement-concrete pavement, including grading and 5-foot shoulders. An alternate bid will be taken for bituminous pavement. Bidding data may be obtained from the harbor engineer in the Branch City Hall, San Pedro.

SAN BERNARDINO COUNTY, Cal.—George Gardner & Sons, 445 E Cypress Ave., Redlands, submitted the low bid at \$1430 to the Department of Public Works, Division of Highways, at the office of the District Engineer, 247 Third St., San Bernardino, Nov. 13, for highway improvement in San Bernardino County bet. Camp Waterman and Arrowhead Springs (VIII-SBd-43-A), about 4.5 miles in length, bituminous surface treatment to be applied. The quantities were:

- (1) 70 tons 90-95 asph. road oil;
- (2) 650 tons screenings.

The bids were:

George Gardner & Sons, Redlands, (1) \$22.00; (2) \$2.20; total \$1430.00.

E. L. Yeager, San Bernardino, (1) \$23.60; (2) \$2.55; total \$1657.50.

United Concrete Pipe Corp., Los Angeles, (1) \$23.00; (2) \$2.75; total \$1,787.50.

H. E. Cox & Son, Pasadena, (2) \$23.00; (2) \$2.75; total \$1787.50.

Los Angeles Paving Co., Inc., (1) \$23.00; (2) \$3.00; total \$1950.00.

C. O. Sparks, Los Angeles, \$23.00; (2) \$3.40; total, \$2210.00.

BONNEVILLE, Ore.—Joslin & McAllister, 3033 E Trent Ave., Spokane, Wash., at \$9,004, submitted low bid to the U. S. Engineer Office, Portland, under Bid No. 34-198, for the construction and surfacing of a roadway from a point on the Columbia River Highway near Bonneville Dam, approximately 2,500 ft. in length, and branch road to serve camps and material yards, 800 ft. more or less in length. Complete bids follow:

Joslin & McAllister, Spokane, \$ 9,004.00
United Const. Co., Portland..... 10,787.50
A. A. Hardesty, Portland..... 11,328.80
Hauser Const. Co., Portland.. 13,722.50

LEWIS COUNTY, Wash.—Until November 29, 10 A. M., bids will be received by the U. S. Bureau of Public Roads, W. H. Lynch, District Engineer, 316 New Postoffice Bldg., Portland, Ore., for grading approximately 2,955 miles, and constructing a bridge 0.036 miles in length on the Mt. Rainier National Park East Side Highway, Project NR-5-C Grading, in Mt. Rainier National Park, Lewis County, involving:

- (1) 21 acres clearing/fi;
- (2) 14 acres grubbing;
- (3) 168,875 cu. yds. unclass. excav.;
- (4) 220,000 sta. yds. overhaul;
- (5) 2,9555 miles finish earth graded road;
- (6) 5 only log truss spans in place;
- (7) 1,324 lin. ft. logs in log bents (cedar);
- (8) 1,100 sq. ft. crib face (cedar);
- (9) 150 cu. yds. Class B concrete;
- (10) 1,475 cu. yds. masonry retaining walls and headwalls;
- (11) 50 cu. yds. masonry guard rail, type 2;
- (12) 762 lin. ft. reinf. conc. pipe;
- (13) 370 lin. ft. culverts (Alt.);
- (14) 100 each dangerous trees & snags
- (15) 7,000 lin. ft. flattening and rounding out slopes.

Plans and specifications obtainable from above office upon deposit of \$10.

SAN FRANCISCO.—Following bids received by the Constructing Quartermaster, Fort Mason, for grading and constructing concrete roads with curbs in parking area in rear of building No. 220; binding coat in rear of old area of main building; section of parade grounds to be plowed and rolled and furnished with lawn sprinkler system, at the Presidio:

ITEM I: For the job complete.

ITEM II: (Alternate, deduct from Item I) If that section of the sprinkler system in Area "2" is omitted.

ITEM III: (Alternate, deduct from Item I) If all topping as specified for parking area "B" is omitted.

The bids were:

E. J. Treacy, Cal Bldg., (Item I) \$4703.66; deduct from Item I, if steel pipe is used instead of cast iron pipe, \$375; (Item II) \$780; (Item III) \$140.

Fay Imp. Co., Phelan Bldg., (Item I) \$5111; deduct from Item I, if steel pipe is used instead of cast iron pipe, \$400; (Item II) \$607; deduct from Item II, if steel pipe is used instead of cast iron pipe, 100; (Item III) \$200.

Eaton & Smith, (Item I) \$5586; deduct from Item I if steel pipe is used instead of cast iron pipe, \$600; (Item II) \$1352; deduct from Item II, if steel pipe is used instead of cast iron pipe, \$258; (Item III) \$258.

BAKERSFIELD, Kern Co., Calif.—Union Paving Co., Call Building, San Francisco, at \$3795, submitted low bid to the Bakersfield City Council for resurfacing the Bakersfield and Kern Electric Railway right of way between 19th St. and 34th St. on Chester Ave., and between F and Oak Sts., on 19th St. Heuser & Garnett, Glendale, at \$4510 submitted only other bid.

PASADENA, Cal.—A. O. Nelson, 135 N Huntington Drive, Pasadena, at \$9,768 submitted low bid to the Pasadena Board of Education Nov. 14, for paving a portion of the walks, drives and playground areas at various schools in Pasadena.

SAN DIEGO, Cal.—Daley Corp., 4-430 Boundary St., San Diego, was tentatively awarded the contract by the Public Works Officer, Naval Operating Base, 11th Naval District, San Diego, Nov. 14, at \$13,230.36 (with \$.06 sq. ft. additional area, amount undetermined) for the improvement of drill grounds at the Naval Operating

Base (Training Station) San Diego, Spec. 7553.

The work consists of (1) the finished grading and paving of two areas (totaling approx. 132,000 sq. ft.) with two-course, 4-in. thick asphaltic cement paving of one area of not less than 50,000 sq. ft. with 1-course, 2-in. thick asphalt cement concrete, and (2) the provision and installation of concrete curbs and storm water drains in connection with the paved areas. DeWitt C. Webb, Captain, Public Works Officer.

The official award will be made at Washington. Complete bids follow: Daley Corp., Los Angeles, \$13,203.36; additional, \$0.06.

Griffith Co., Los Angeles, \$15,400; additional \$0.069.

V. R. Dennis Const. Co., Los Angeles, \$15,965; add. \$0.06.

G. R. Abbott, \$16,223; add., \$0.09.

LEWIS CO., Wash.—A. C. Greenwood, 500 N Front St., Portland, Ore., at \$44,363, has been awarded the contract by the Bureau of Public Roads, for constructing or improving the Randle-Yakima & Ohanapeesh grading, surfacing and guard rail projects NR-13-H3, 14 and NR-26-A, National Forest Road Projects located within the Columbia National Forest, Lewis County, Wash. The length of the project to be constructed or improved is approximately 5,059 miles.

OAKLAND, Cal.—The Oakland City Council has set December 19 as the date for placing a bond issue in the sum of \$750,000 before the voters. The issue will finance the construction of bridge approaches, including the widening of 38th St. from Market to Telegraph Ave. and the widening of Moss Ave. from Telegraph Ave. to Fairmount Ave. Federal Public Works Administration Funds will be applied for if the issue is approved.

SAN FRANCISCO—Until Nov. 22, 1:45 P. M., informal bids will be received by S. J. Hester, Chief Deputy Director, Department of Public Works City Hall, for surfacing Webster St., between Vallejo St. and Broadway with emulsified asphalt wearing surface, involving:

10,660 sq. ft. Estimated cost \$700.

Specifications available from above office upon deposit of \$10.

ARIZONA STATE—All bids received by the Arizona State Highway Commission, October 31, for highway construction on the Ashfork-Kingmar Highway, NRH 80-E and D which extends from a point about 2 miles north west of the town of Hackberry to a point about 5½ miles east of Hackberry, have been rejected. The work will be done by force account.

SAN DIEGO COUNTY, Cal.—Frank Doran, 345 Spreckels Theatre Bldg., San Diego, at \$3300 submitted low bid to the District Engineer, Dept. of Public Works, Division of Highways, San Diego, for constructing approximately 1000 lin. ft. of riprap slope protection to be placed in San Diego County about 3 miles south of Coronado Tent City. R. E. Hazard, San Diego, at \$4490 submitted second low, and V. R. Dennis Const. Co., San Diego, at \$4930 submitted third low bid.

MOHAVE COUNTY, Arizona—Weymouth-Crowell Co., 2104 E 15th St., Los Angeles, at \$176,399 awarded contract by the Bureau of Public Roads, San Francisco, for grading Section A of Federal Lands Highway Project No. 2, Kingman - Boulder Dam Highway, Mohave County, Ariz. Complete bids published October 26.

SAN BERNARDINO COUNTY, Cal.—George Gardner & Sons., 445 E. Cypress Ave., Redlands, at \$1430 submitted low bid to E. Q. Sullivan, District Engineer, District No. VIII, Department of Public Works, San Bernardino, for applying bituminous surface treatment about 4.5 miles, between Camp Waterman and Arrowhead Springs (VIII-SBd-43-A) in San Bernardino County.

E. L. Yeager, San Bernardino, at \$1657 submitted second low bid. Award to low bidder recommended.

SAN FRANCISCO.—Until Nov. 22, 2:30 P. M., bids will be received by the Board of Public Works, S. J. Hester, Deputy Director, for construction of Bernal Heights Blvd., to grade and macadamize roadbed and its connections with Alabama, Folsom and Ellsworth Sts., involving:

- (1) 4,624 cu. yds. excav.;
 - (2) 42 cu. yds. mortared rubble masonry wall;
 - (3) 17,006 sq. ft. 8-in. waterbound macadam base;
 - (4) 150 lin. ft. conc. curb (reset);
 - (5) 11,000 lin. ft. 2x8-in. redwood curb.
- Estimated cost, \$14,000.

JEFFERSON COUNTY, Wash.—C. E. Henriot, Chehalis, at \$6653.56 submitted low bid to Director of Highways, Olympia, and was awarded the contract for constructing 0.4 miles of bituminous macadam on Water and Taylor Sts., Port Townsend, Municipal Highway Project No. 146-C, in Jefferson Co. Port Townsend Sand & Gravel Co., Port Townsend, at \$6864 submitted second low bid and F. E. Wilder, Olympia, at \$6911 submitted third low bid.

KLICKITAT COUNTY, Wash.—A. Del Guzzo, 3702 Ida St., Seattle, at \$39,831 submitted low bid to L. V. Murrow, Director of Highways, Olympia, and was awarded the contract for grading 1.6 miles from Maryhill to Stonehenge, NRS-203-A in Klickitat County. Hendricks & Co., Chehalis, at \$41,562 submitted second low, and Clifton & Applegate, Spokane, at \$42,293 submitted third low bid.

SNOHOMISH COUNTY, Wash.—Until November 23, 10 A. M., bids will be received by W. H. Lynch, District Engineer, U. S. Bureau of Public Roads, 316 New Post Office Bldg., Portland, Ore., for grading the South Fork Stillaguamish Project NR-7-B, National Forest Road Project, located within the Snoqualmie National Forest, Snohomish County, Wash., involving:

- (1) 15 acres clearing;
- (2) 10 acres grubbing;
- (3) 85,320 cu. yds. unclass. excav.;
- (4) 67,000 sta. yds. overhaul;
- (5) 1.515 mile finish earth graded road;
- (6) 17,000 cu. yds. miles overhaul;
- (7) 252 lin. ft. culverts (Alternate);
- (8) 444 lin. ft. 24-in. reinf. conc. pipe;
- (9) 186 lin. ft. 24-in. reinf. conc. pipe (extra strength);
- (10) 4000 lin. ft. flattening and rounding cut slopes;
- (11) Miscellaneous item of work.

Plans and specifications obtainable from above office upon deposit of \$10.

ARIZONA STATE—Pearson and Dickerson, Contractors, Inc., 202 N. Central Ave., Phoenix, at \$119,111.21 (type A cable guard rail) awarded the contract by the Arizona State Highway Commission for highway construction on the Ashfork-Kingman Highway NRH 80-J. The bid on the alternate was the same as the above, (\$119,111.21).

SAN FRANCISCO—Fay Improvement Co., Phelan Bldg., at \$4682

awarded contract by the State Board of Harbor Commissioners, Ferry Bldg., San Francisco, for paving roadway at Islais Creek. Complete bids follow:

Fay Improvement Co.....	\$4682.00
Pacific Pavements Co., Ltd.....	5480.00
A. J. Raisch.....	5856.00
Eaton & Smith.....	5940.00
Pacific States Constr. Co.....	6186.40
Chas. L. Harney.....	6820.00

PACIFIC COUNTY, Wash.—Until Nov. 28, 10 A. M., bids will be received by L. V. Murrow, State Director of Highways, Olympia, for constructing slope protection and patching existing pavement with Portland cement concrete on about 0.2 mile of State Road No. 12, Water St. in the city of South Bend, National Recovery Municipal Highway Project No. NRM 178-G, involving:

- (1) 2,860 cu. yds. excavation;
- (2) 108 cu. yds. concrete;
- (3) 103 MBM treated timber sheet piling;
- (4) 34 MBM timber and plank;
- (5) 2,555 lin. ft. piling;
- (6) miscellaneous items.

Plans and specifications obtainable from above office upon deposit of \$2.

CHELAN CO., Wash.—Plans are now available for the grading and surfacing of State Road No. 15, Eastern Portal of Old Great Northern Tunnel to Berne, in Chelan County, which will be advertised for bids shortly. Contractors are requested to look over this project before snow falls. Plans are obtainable from the office of L. V. Murrow, State Director of Highways, Olympia, upon deposit of \$2.00.

KITTITAS & YAKIMA COS., Wash.—Until Nov. 24, 10 A. M., bids will be received by the U. S. Bureau of Public Roads, W. H. Lynch, District Engineer, 316 New Postoffice Building, Portland, for grading 8.123 miles (including Wye connection) Little Naches Jungle Creek Section, Project NR-A1, Washington Forest Development Road located within the Columbia National Forest, Kittitas and Yakima counties, involving:

- (1) 20 acres grubbing;
- (2) 57,530 cu. yds. unclass. excav.;
- (3) 26,000 sta. yds. overhaul;
- (4) 8.123 miles finish earth graded rd.
- (5) 840 lin. ft. culverts (alternate);
- (6) 500 cu. yds. loose riprap.

Plans and specifications obtainable from above office upon a deposit of \$10.00.

FAIRFAX, Marin Co., Calif.—The City of Fairfax has approved plans and specifications and has adopted a resolution of intention for the improvement of Tamalpais Road, Scenic Road, Maple Road, Redwood Road, and Park Road; the improvement to consist of grading, constructing corrugated metal pipe culverts, hydraulic concrete catchbasins, hydraulic concrete headwalls, reinforced hydraulic concrete retaining wall, hydraulic concrete combination curb and gutter, asphalt pavement with rock mecadam base, sanitary sewers under crossing and intersections, and one lamp hole. J. C. Oglesby, engineer.

SEATTLE, Wash.—The Seattle Bd. of Public Works has voted to proceed with the Improvement of Railroad Ave., including seawall construction, track removal and relaying, surfacing, etc., by day labor. Estimated cost, \$1,243,000

SAN FRANCISCO—Until November 22, 2:30 P. M., bids will be received by the Department of Public Works, S. J. Hester, Deputy Director, Room 251, City Hall, for improvement of streets, involving 18,752 sq. ft. of

sidewalk on the following streets:

South one-half of Jackson St., bet. Steiner and Scott Sts.

West one-half of Steiner St., bet. Jackson and Clay Sts.

North one-half of Clay St., between Steiner and Scott Sts.

East one-half of Scott St., between Jackson and Clay Sts.

Sidewalks on the above streets are to be constructed to the full official width. Improvement of the west one-half of Seventh Ave., from 13 ft. 11 in. north of Lawton St. to 375 ft. north of Lawton St., by the construction of sidewalks six feet in width where concrete sidewalks are not already constructed.

Estimated cost, \$2235. Plans and specifications obtainable at the above office.

PIERCE COUNTY, Wash.—Colonial Building Co., 326 First Street, Spokane at \$174,196 (metal pipe alternate) and at \$174,475 (concrete pipe) submitted low bid to the U. S. Bureau of Public Roads, W. H. Lynch, District Engineer, 316 New Postoffice Bldg., Portland, Ore., for grading 3.117 miles of Stevens Canyon Highway Project NR-4-B, in Mt. Rainier National Park, Pierce County.

Complete bids follow:
Colonial Bldg. Co., Spokane, (metal pipe alternate), \$174,196; (conc. pipe) \$174,475.

Halleran Bros. & F. Coyle, Seattle, \$174,451; \$174,811.

Meyers & Goulter, Seattle, \$178,549; \$178,549.

Holmberg & Norton, Port Orchard, Wash., \$183,812; \$184,091.

Sam Crino, Spokane, \$188,567; \$188,729.

P. L. Brooks, Portland, \$207,886.00; \$208,165.

Allen and Govan, Olympia, Wash., \$241,052; \$241,052.

DOUGLAS CO., Ore.—R. I. Stuart & Son, Medford, Ore., at \$29,132 submitted low bid to the U. S. Bureau of Public Roads, W. H. Lynch, District Engineer, 316 New Postoffice Bldg., Portland, for subgrade reinforcement on the Tiller Trail, NR-16-03, E2, F4, National Forest Road Project located within the Umpqua National Forest, County of Douglas. The length of the project is approximately 6.616 miles.

Complete bids follow:
R. I. Stuart & Son, Medford.....\$29,132
A. Milne, Portland..... 33,523
Saxton & Looney, Corvallis..... 34,787
Chas. H. Hoyt, Silverton..... 34,892
United Contr. Co., Portland..... 41,139

SACRAMENTO, Calif.—A blue line print of the title sheet of the plans showing the general location of work will be furnished free with the Special Provisions. Blue line prints of the layout and bridge detail sheets will be furnished at cost and become the property of the purchaser.

The following table shows the cost of such blue line prints for the work now advertised, bids to be opened November 29:

I-Lak-49-A, bet. Middletown and Putah Creek (plans) No. of sheets, 16, cost, \$1.60; (cross-sections) No. of sheets, 116; cost, \$11.60; total, \$13.20.

IV-SCR-5-A, in Santa Cruz bet. the north city limits and Ocean St. (plans) No. of sheets, 6; cost, \$0.60; (cross-sections) No. of sheets, 13; cost, \$1.30; total \$1.90.

VI-Ker-139-A, bridges bet. junction with Route 140 and junction with Rt. 58, (plans) No. of sheets, 10; cost, \$1; (cross-sections) none; total \$1.00.

VII-L.A.-157-L.A., in Los Angeles bet. Olive View and Tunnel Station, (plans) No. of sheets, 41; cost, \$4.10; (cross-sections) No. of sheets, 21; cost \$2.10; total, \$6.20.

X-Sol-7-C bet. 4.2 miles north of

Fairfield and 0.6 mile south of Vacaville (plans) No. of sheets, 17; cost \$1,70; (cross-sections) No. of sheets, 120; cost, \$12; total \$13.70.

Checks for above should be made payable to the Department of Public Works, Division of Highways, and should accompany the order to this office.

VENTURA CO., Calif.—Until Dec. 6, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for grading and paving 8.5 miles with asphalt concrete, between Ventura and Mussel Shoal, in Ventura County, involving:

- (1) 447 sta. clear and grub right of way;
- (2) 143,000 cu. yds. rdwy. excav., unclassified;
- (3) 4,200,000 sta. yds. overhaul;
- (4) 95,000 cu. yds. imported borrow;
- (5) 9,000 cu. yds. struc. excav.;
- (6) 67,000 sq. yds. subgrade for pave.
- (7) 83,500 sq. yds. asph. paint binder
- (8) 35,700 tons asph. conc. base and leveling course;
- (9) 20,250 tons asph. conc. type A surf. course;
- (10) 700 cu. yds. Class A Port. cem. conc. struc.;
- (11) 63,000 lbs. bar reinf. steel struc.;
- (12) 2,000 lbs. misc. iron and steel struc.;
- (13) 110 lin. ft. 18-in. CMP;
- (14) 840 lin. ft. 24-in. CMP;
- (15) 20 lin. ft. 30-in. CMP;
- (16) 380 lin. ft. 36-in. CMP;
- (17) 70 lin. ft. 48-in. CMP;
- (18) 70 lin. ft. 18-in. CMP paved invert;
- (19) 260 lin. ft. 24-in. do;
- (20) 40 lin. ft. 18-in. reinf. conc. pipe;
- (21) 140 lin. ft. 54-in. do;
- (22) 2,000 cu. yds. conc. removed from existing pave. and struc.;
- (23) 3,200 lin. ft. solid timber guard rail;
- (24) 2,500 lin. ft. laminated timber do;
- (25) 2.5 miles new property fences;
- (26) 9.5 miles move and reset property fences;
- (27) 24 each gates, complete in place;
- (28) 41,800 lin. ft. furnish steel sheet piles including test piles;
- (29) 2,330 each driving steel sheet piling, including test piles;
- (30) 81 MFBM creosoted Douglas fir timber sheet piling;
- (31) 196,000 lbs. structl metal sheet piling;
- (32) 200 cu. yds. Class B Port. cem. conc. sheet piling;
- (33) 22,500 tons riprap;
- (34) 8,000 M. gals. water;
- (35) 4,000 bbls. fuel oil;
- (36) 8.5 miles prepare, mix and shape shoulders;
- (37) 130 each timber culvert markers;
- (38) 447 stations finishing roadway;
- (39) 122 each monuments complete in place.

Plans and specifications obtainable at above office, and are on file at the office of the District Engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

SANTA CLARA COUNTY, Calif.—Until Nov. 27, 11 A. M., bids will be received by the Santa Clara Board of Supervisors, County Court House, San Jose, for resurfacing Lincoln Ave. in Willow Glen, involving:

- (1) 88,400 sq. ft. asphalt surface;
- (2) 1,200 tons base material.

Plans and specifications obtainable at the office of county surveyor. A charge of \$1.00 will be made for plans.

SAN BERNARDINO CO., Cal.—Until Dec. 6, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for grading and treating with fuel oil and applying a bituminous surface treatment on 15.1 miles, between the westerly boundary

and Camp Cajon, in San Bernardino County, involving:

- (1) 168 acres clear and grub right of way;
- (2) 436,000 cu. yds. rdwy. excav., unclassified;
- (3) 2,525,000 sta. yds. overhaul;
- (4) 3,400 cu. yds. selected material;
- (5) 5,620 cu. yds. struc. excav.;
- (6) 462 lin. ft. 18-in. CMP;
- (7) 1,862 lin. ft. 24-in. CMP;
- (8) 800 lin. ft. 30-in. CMP;
- (9) 1,294 lin. ft. 36-in. CMP;
- (10) 262 lin. ft. 48-in. CMP;
- (11) 74 lin. ft. 72-in. CMP;
- (12) 8,300 bbls. heavy fuel oil;
- (13) 15.1 miles prepare surface and mix and shape oiled material;
- (14) 182 tons asph. road oil;
- (15) 1,450 cu. yds. screenings;
- (16) 4.2 miles new property fence;
- (17) 795 sta. finish rdwy.;
- (18) 205 each monuments complete in place.

Plans and specifications obtainable at above office, and are on file at the office of the District Engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

SANTA BARBARA COUNTY, Cal.—P. J. Akmal, ch, 3028 Gilroy St., Los Angeles, at \$36,725.40 awarded contract by the State Highway Commission, Sacramento, to grade and pave 0.8 mile with asphalt concrete, between Olive Mill road and Santa Barbara in Santa Barbara county.

INYO COUNTY, Cal.—Until Dec. 6, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for grading and surfacing 5.8 miles with bituminous treated selected surfacing material, between Dougherty's Corner and Birchim Canyon, in Inyo County, involving:

- (1) 200 each remove trees and stumps
- (2) 23,400 cu. yds. rdwy. excav., unclassified;
- (3) 430,000 sta. yds. overhaul;
- (4) 84,500 cu. yds. imported borrow;
- (5) 6,000 cu. yds. ditch excavation;
- (6) 3,550 cu. yds. struc. excav.;
- (7) 11,650 tons selected surf. mat'l;
- (8) 1,068 bbls. light fuel oil;
- (9) 697 tons cutback asphalt;
- (10) 113 cu. yds. Class A Port. cem. conc. struc.;
- (11) 9,000 lbs. bar reinf. steel struc.;
- (12) 850 cu. yds. salvage surf. shoulders;
- (13) 117 bbls. heavy fuel oil shoulders
- (14) 220 lin. ft. 12-in. CMP;
- (15) 2,308 lin. ft. 18-in. CMP;
- (16) 704 lin. ft. 24-in. CMP;
- (17) 98 lin. ft. 30-in. CMP;
- (18) 102 lin. ft. 48-in. CMP;
- (19) 38 lin. ft. 84-in. CMP;
- (20) 1,528 lin. ft. 72-in. perf. metal pipe underdrains;
- (21) 710 lin. ft. 18-in. base part circle corrugated MP;
- (22) 1,046 lin. ft. CMP clean and relay;
- (23) 2,104 lin. ft. salvage exist. culverts;
- (24) 51 ea. remove existing headwalls
- (25) 13 ea. existing headwalls to be removed and reset;
- (26) 255 lin. ft. rock walls to be removed;
- (27) 30 ea., existing sidewalk ramps to be removed;
- (28) 10 ea., remove and reset existing manhole frames;
- (29) 4 ea., remove and reset existing valve casings;
- (30) 5.54 miles remove and dispose of existing fences;
- (31) 7.44 miles new property fence;
- (32) 13 each fence gates;
- (33) 8 each, 18-in. lateral headgates;
- (34) 2.0 MFBM redwood timber, select all-heart struc. grade;
- (35) 1,555 M. gals. water;
- (36) 404 tons screenings to be furnished and stockpiled;
- (37) 317 sta. finish roadway;

(38) 36 each monuments, complete in place.

Plans and specifications obtainable at above office, and are on file at the office of the District Engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

ARIZONA STATE—Until November 28, 2 P. M., bids will be received by the Arizona State Highway Commission, Phoenix, for highway construction on the Prescott-Ashfork Highway, N.R.H. 61. The work, which is to extend from Jerome Highway Junction northerly for about 22½ miles, consists of grading and draining the roadway and placing base course and plant mix, using either cutback or emulsified asphalt, and is to be completed on or before November 30, 1934. The principal items are:

- (1) 255,000 cu. yds. grading;
 - (2) 140,000 cu. yds. mi. haul on grading;
 - (3) 59,700 cu. yds. base course;
 - (4) 55,000 cu. yds. miles base course haul;
 - (5) 1713 cu. yds. concrete;
 - (6) 1880 sq. yds. conc. in conc. forms;
 - (7) 111,000 lbs. reinf. steel;
 - (8) 116,000 lbs. struc. steel;
 - (9) 2,670 lin. ft. CMP (various sizes)
 - (10) 11,300 lin. ft. cable road guard;
 - (11) 218,000 lin. ft. line fence;
 - (12) 40,000 tons cutback plant mix;
 - (13) 1600 tons cutback asphalt;
 - (14) 219 tons emuls. asphalt;
 - (15) 22.1 miles placing plant mix;
 - (16) 2360 cu. yds. screenings;
 - (17) 259 M.E.M. treated timber;
 - (18) 14 M.B.M. untreated timber;
 - (19) 5300 lin. ft. treated timber piles;
- ALTERNATE ITEMS
- (20a) 11,300 lin. ft. steel plate road guard;
 - (21a) 41,300 tons emuls. plant mix;
 - (22a) 2900 tons emuls. asphalt;
 - (23) other miscellaneous items.

Plans and specifications obtainable from above office; T. S. O'Connell, State Highway Engineer.

LEWIS COUNTY, Wash.—Until November 24, 10 A. M., bids will be received by W. H. Lynch, District Engineer, U. S. Bureau of Public Roads, 316 New Post Office Bldg., Portland, Ore., for grading 2.3909 mi. of the Stevens Canyon Project NR-4-EI. Mt. Rainier National Park Road Project, located within Mt. Rainier National Park, Lewis County, Wash., involving:

- (1) 21 acres clearing;
- (2) 13 acres grubbing;
- (3) 120,575 cu. yds. unclass. excav.;
- (4) 200,000 sta. yds. overhaul;
- (5) 2,3596 miles finish earth graded road;
- (6) 6 only long truss spans;
- (7) 350 lin. ft. logs in log bents;
- (8) 1770 sq. ft. crib face in place;
- (9) 470 cu. yds. masonry retaining walls and headwalls;
- (10) 25 cu. yds. masonry guardrail Type 2;
- (11) 525 lin. ft. reinf. conc. pipe;
- (12) 270 lin. ft. reinf. conc. pipe (extra strength);
- (13) Culverts (Alternate)—300;
- (14) 1400 cu. yds. handlaid rock embankment;
- (15) 50 each dangerous trees and snags.

Plans and specifications obtainable from above office upon a deposit of \$10.

SONORA, Tuolumne Co., Cal.—The City of Sonora will vote December 19 on a bond issue to finance construction of streets and bridges, not to exceed \$15,000. A grant of \$4500 and a loan of \$10,500 will be asked of the Federal Public Works Administration if the bond issue is approved.

PIERCE COUNTY, Wash.—Until November 23, 10 A. M., bids will be received by W. H. Lynch, District Engineer, U. S. Bureau of Public Roads, 316 New Post Office Building, Portland, Oregon, for grading 0.933 miles of Stevens Canyon Road, Project NR-4-C1, Mt. Rainier National Park, Pierce County, Wash., involving:

- (1) 11 acres clearing;
- (2) 7 acres grubbing;
- (3) 76,400 cu. yds. unclass. excav.;
- (4) 158,000 sta. yds. overhaul;
- (5) 150 cu. yds. Class A concrete;
- (6) 110 cu. yds. (retaining walls) Class A concrete;
- (7) 87,000 lbs. reinf. steel;
- (8) 1350 cu. yds. masonry retaining walls;
- (9) 30 cu. yds. masonry headwalls;
- (10) 144 lin. ft. reinf. concrete pipe;
- (11) 189 lin. ft. reinf. concrete pipe (extra strength);
- (12) 50 cu. yds. masonry guardrail Type 2;
- (13) 246 lin. ft. culverts (alternate).

Plans and specifications obtainable from above office upon deposit of \$10.

ORANGE COUNTY, Cal.—Until Dec. 6, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for constructing a steel stringer bridge with concrete deck across Santa Ana River at Buaro St., consisting of eight 47-ft. spans, concrete piers and abutments with pile foundation, in Orange County, involving:

- (1) 730 cu. yds. struc. excav.;
- (2) 4,430 lin. ft. furnish Douglas fir piles including test piles;
- (3) 710 lin. ft. furnish steel piles, including test piles;
- (4) 126 each driving Douglas fir piles, including test piles;
- (5) 14 each driving steel piles, including test piles;
- (6) 968 cu. yds. Class A Port. cem. conc. structures;
- (7) 28 cu. yds. do. railing;
- (8) 97,000 lbs. bar reinf. steel;
- (9) 358,000 lbs. struc. steel;
- (10) 750 lbs. cast steel;
- (11) 1 lot misc. items of work.

Plans and specifications obtainable at above office, and are on file at the office of the District Engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

SACRAMENTO, Calif.—Representative of the District Office will accompany prospective bidders over the proposed project in Los Angeles county, between Olive View and Tunnel Station in Los Angeles, road VII-L.A.-157-L.A., for which bids are to be received Nov. 29.

Said representative will meet prospective bidders in front of Olive View Sanitarium on Wednesday, Nov. 22, at 10 A. M.

Prospective bidders are urged to cooperate with the District Office and arrange to make their field inspection on the above dates.

MONTEREY COUNTY, Cal.—Jones & King, Jackson St., Hayward, at \$103,897 awarded contract by the State Highway Commission, Sacramento, to grade and surface 8.9 miles between King City and two miles south of Greenfield in Monterey County.

SAN FRANCISCO.—Until Nov. 22, 1:45 P. M., informal bids will be received by S. J. Hester, Chief Deputy Director, Department of Public Wks, City Hall, for surfacing Webster St. between Vallejo and Broadway, with multisified asphalt wearing surface, involving 10,660 sq. ft.

Estimated cost, \$700. Specifications available from above office upon deposit of \$10.

SAN FRANCISCO.—Fay Imp. Co., 760 Market St., at \$4950.85 awarded contract by Department of Public Works, S. J. Hester, Deputy Director, for resurfacing Third Street between Mariposa and Alameda Streets.

APACHE & NAVAJO COUNTIES, Ariz.—Until Dec. 1, 10 A. M., bids will be received by the Bureau of Public Roads, 802 Title & Trust Bldg., Phoenix, for grading all of Route 2, and for performing miscellaneous construction on Section A of Route 1, Petrified Forest National Monument, Apache and Navajo counties, Ariz., involving:

- (1) 30,700 cu. yds. unclass. excav.;
- (2) 624 cu. yds. unclass. excav. for struc.;
- (3) 51,200 cu. yds. unclass. excav. for borrow;
- (4) 18,500 sta. yds. overhaul;
- (5) 40 cu. yds. cem. rubble masonry;
- (6) 57 cu. yds. concrete;
- (7) 1,200 lbs. reinf. steel;
- (8) 1,678 lin. ft. C.M.P.;
- (9) 445 cu. yds. hand laid riprap;
- (10) 19,750 cu. yds. milles borrow, haul
- (11) 6,680 lin. ft. wood guard rail;
- (12) 360 cu. yds. basket r/rap;
- (13) 10,000 lbs. wire mesh for basket riprap;
- (14) 12,600 lin. ft. protection ditch;
- (15) 13,600 lin. ft. fence in place.

Plans and specifications obtainable from above office upon deposit of \$10. C. H. Sweetser, district engineer.

HUMBOLDT & DEL NORTE COS., Cal.—Hemstreet & Bell, 501 11th St., Marysville, at \$11,094 submitted low bid to Department of Public Works, J. W. Vickery, District Engineer, Eureka, for screenings to be furnished and stockpiled at various locations in Humboldt and Del Norte counties.

- Complete bids follow:
- Hemstreet & Bell, Marysville.....\$11,094
 - E. B. Bishop, Sacramento..... 12,255
 - Smith Bros., Eureka..... 12,341
 - Hien Bros. Basalt Rock Co., Petaluma..... 12,728

SHASTA COUNTY, Cal.—U. S. Bureau of Public Roads, San Francisco, is proceeding by day labor with clearing of Section F, Mt. Shasta-Mt. Lassen Forest Highway, Shasta County. A contract for grading this section will be advertised in the spring. F. J. Bundschuh is superintending the clearing.

ALAMEDA AND CONTRA COSTA COS., Cal.—Peninsula Paving Co., 715 Standard Oil Bldg., San Francisco, at \$74,907.50 submitted low bid to State Highway Commission, Sacramento, to pave 5.0 miles with asphalt concrete between Ashby Avenue, Berkeley, and Potrero Avenue, El Cerrito, in Alameda and Contra Costa counties, involving:

- (1) 9000 cu. yds. rdwy. excav., unclass.
- (2) 20,000 tons asph. conc. base and type A surface;
- (3) 1200 tons asph. conc. type B surf.;
- (4) 12,100 tons crusher run base;
- (5) 20,000 cu. yds. heating asph. surf.;
- (6) 4100 sq. yds. asph. paint binder.

- Complete bids follow:
- (A) Peninsula Paving Co., San Francisco, \$74,907.50.
 - (B) Heafey-Moore Co., Oakland, \$87,654.00.
 - (C) Southern California Roads Co., Los Angeles, \$105,404.00.
 - (D) Eaton & Smith, San Francisco, \$117,903.00.

Unit prices follow:

	(A)	(B)	(C)	(D)
(1).....	\$.30	\$.40	\$.60	\$1.00
(2).....	2.50	3.10	3.68	4.00
(3).....	2.90	3.30	4.00	4.20
(4).....	1.25	1.10	1.45	1.40
(5).....	.15	.20	.16	.30
(6).....	.025	.01	.03	.03

19—MISC. CONSTRUCTION

OAHU, T. H.—Following are additional contractors and others who have procured plans for the purpose of submitting bids to the Bureau of Yards and Docks, Navy Department, Washington, D. C., on November 29 for the construction of reinforced concrete magazine and barricade wall and roads at Oahu, T. H. Spec. No. 7257: Bethlehem Fabricators, Inc., Bethlehem, Pa.

Honolulu Iron Works, New York City.

PEARL HARBOR, T. H.—Following are additional contractors and others who have procured plans for the purpose of submitting bids to the Bureau of Yards and Docks, Navy Department, Washington, D. C., on Dec. 13 for the construction of fleet moorings at Pearl Harbor, T. H. Estimated cost \$500,000. Spec. No. 7093: Frederick Snare Corp., 114 Liberty St., New York City.

Honolulu Iron Works, New York City.

W. F. Jackson Co., Inc., Denrike B'dg., Washington, D. C.

MARE ISLAND, Cal.—Until Dec. 20, 11 A. M., bids will be received by the Bureau of Yards & Docks, Navy Dept. Washington, D. C., under Spec. 7540, for two 10-ton hammerhead cranes at the Navy Yard, Mare Island. Specifications obtainable from above office or from the Commandant, Navy Yard, Mare Island, upon deposit of \$10. A. L. Parsons, Chief of Bureau. Ralph Whitman, Public Works Office, Navy Yard, Mare Island.

AVENAL, Kings Co., Cal.—Until Nov. 29, 8 P. M., bids will be received by North American Oil Consolidated, Box E, Taft, for the sale of the following:

- 1—36x59' cookhouse, w/6' porch.
- 1—12x42' bunkhouse (3 rooms).
- 1—27x74' bunkhouse (8 rooms).
- 1—36x108' bunkhouse (16 rooms).
- 2—40x108' bunkhouse (18 rooms).
- 1—Detroit Jewel gas range.
- 22—Single beds w/springs.
- 1—Frigidaire (Refrig. and motor).
- 3—Water heaters.
- 8—Gas heaters.
- Kitchen utensils, dishes, lavatory fittings, tables, chairs, etc.

Above property situated on Standard Oil Co. property, and subject to rental of \$100 per month.

SAN FRANCISCO — San Francisco Constr. Co., 3159 Fillmore St., at \$6883 submitted low bid to Coast Guard, Government Island, to construct combination two-story frame boathouse and garage, 26x48 ft., with asbestos or tile roof, to be erected at the Golden Gate Coast Guard Station, San Francisco. Following bids received: San Francisco Constr. Co..... \$ 6 883
Leo Epp 7,696
Clinton Stephenson Constr. Co. 7,974
J. Harold Johnson 8,184
C. L. Wold 8,189
William Spivock 8 886
Daniel O'Neill 9,272
Herman Ahlgren 9,363
Jullus Grodem 9,775
L. Salomon 10,458
Bids held under advisement.

PHOENIX, Ariz.—B. B. Moeur, governor of Arizona, will file an application with the Public Works Administration in the near future, seeking a loan of \$100,000 for a construction program at the Arizona state insane asylum.

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

MONTEREY COUNTY—GRADE AND SURFACE—STATE

MONTEREY COUNTY, Cal.—J. L. Conner, P. O. Box 86, and K. Kristich, Serra Hotel, Monterey, at \$48,962.46 submitted low bid to State Highway Commission, Sacramento, to grade, surface and oil treat by the road mix method, about 1.9 miles between Carmel river and Carmel in Monterey county, involving:

- (1) 9 sta. yds. clear and grub right of way;
- (2) 84,300 cu. yds. rdwy. excav., unclassified;
- (3) 696,000 sta. yds. overhaul;
- (4) 1,400 cu. yds. struc. excav.;
- (5) 2,075 bbls. reavy fuel oil;
- (6) 34 tons asph. road oil;
- (7) 437 tons screenings;
- (8) 110 sta. yds. mixing bituminous treated surfacing;
- (9) 35 cu. yds. Class A Port. cement concrete struc.;
- (10) 1,800 lbs. bar reinf. steel struc.;
- (11) 244 lin. ft. 8-in. CMP;
- (12) 32 lin. ft. 12-in. CMP;
- (13) 858 lin. ft. 18-in. CMP;
- (14) 554 lin. ft. 24-in. CMP;
- (15) 72 lin. ft. 36-in. CMP;
- (16) 19 each spillway assemblies;
- (17) 2 each drop inlet frames and covers;

- (18) 1 each 24-in. flood gates;
 - (19) 2 each 36-in. do;
 - (20) 1,860 sq. yds. paved gutters and spillway inlet aprons;
 - (21) 1,360 M. gals water;
 - (22) removing existing timber bridge;
 - (23) 1,480 lin. ft. lam. timber guard rail;
 - (24) 110 each timber guide posts;
 - (25) 32 each timber culvert markers;
 - (26) 2.1 miles new property fence;
 - (27) 10 each fence gates;
 - (28) 110 sta. yds. finishing rdwy.;
 - (29) 29 monuments complete in place.
- Complete bids follow:
- (A) J. L. Conner and K. Kristich, Monterey, \$48,962.46.
 - (B) Chas. L. Harney, San Francisco, \$52,611.00.
 - (C) M. J. Murphy, Carmel, \$54,534.15.
 - (D) Tiffany Const. Co., San Jose, \$59,902.90.
 - (E) M. J. Bevanda, Stockton, \$60,825.75.
 - (F) Hemstreet & Bell, Marysville, \$61,288.05.
 - (G) Kennedy Const. Co., Oakland, \$70,016.65.
 - (H) Yglesias Bros., San Diego, \$75,221.15.

Unit prices follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
(1).....	\$ 10.00	\$ 10.00	\$ 30.00	\$ 50.00	\$ 25.00	\$ 50.00	\$ 50.00	\$ 30.00
(2).....	.30	.29	.37	.40	.34	.40	.55	.60
(3).....	.005	.01	.005	.006	.01	.005	.005	.005
(4).....	1.00	.80	1.00	1.00	1.00	1.25	1.00	.75
(5).....	2.00	2.00	1.95	1.78	1.75	2.15	1.85	2.25
(6).....	25.00	20.00	17.00	21.40	20.00	20.00	18.00	20.00
(7).....	3.00	2.50	2.50	2.50	3.00	3.50	3.00	3.00
(8).....	8.00	10.00	15.00	10.00	13.00	10.00	10.00	10.00
(9).....	25.00	20.00	19.00	22.00	25.00	25.00	25.00	20.00
(10).....	.05	.05	.05	.06	.06	.06	.06	.05
(11).....	.97	1.00	.95	1.00	1.50	.90	1.15	.90
(12).....	1.39	1.25	1.25	1.25	1.75	1.10	1.30	1.25
(13).....	1.74	1.75	1.80	1.65	2.50	1.55	1.70	1.60
(14).....	2.33	2.50	2.30	2.40	3.50	2.40	2.45	2.50
(15).....	4.73	5.00	4.50	4.50	5.00	5.00	5.15	5.00
(16).....	15.00	15.00	12.00	14.00	15.00	14.00	15.00	12.00
(17).....	20.00	25.00	20.00	15.00	20.00	20.00	20.00	25.00
(18).....	25.00	30.00	30.00	30.00	15.00	35.00	40.00	50.00
(19).....	60.00	70.00	75.00	65.00	15.00	90.00	75.00	100.00
(20).....	1.00	1.00	.80	1.35	1.50	1.25	.60	1.00
(21).....	.50	1.50	.70	1.35	1.00	1.25	1.00	1.00
(22).....	800.00	800.00	1000.00	1000.00	2000.00	2000.00	750.00	1000.00
(23).....	1.00	1.00	.70	.80	1.00	.90	.90	.80
(24).....	1.00	2.50	2.50	2.50	3.00	2.50	2.00	2.50
(25).....	2.00	2.00	2.50	2.00	2.50	2.50	1.50	2.50
(26).....	400.00	400.00	300.00	500.00	450.00	400.00	400.00	400.00
(27).....	20.00	15.00	14.00	16.00	15.00	15.00	15.00	15.00
(28).....	5.00	5.00	5.00	6.00	10.00	5.00	5.00	5.00
(29).....	3.00	3.00	2.00	4.00	2.50	3.00	3.00	3.00

BIDS OPENED

ALAMEDA COUNTY, Cal.—Amerlcan Dredging Co., 255 California St., San Francisco, at \$869,063.32 submitted low bid to State Highway Commission, Sacramento, for grading 4.1 miles between the westerly end of the Key Mole Fill and the foot of Folger Ave., Berkeley, East Bay approach to the San Francisco-Oakland Bay Bridge, by dredging and placing selected dredged material fill, involving:

- (1) 100 lin. ft. remove and reconstr. exist. 6-ft. 0-in. by 6-ft. 2-in. sewer;
- (2) 50 lin. ft. remove and reconstr. exist. 3-ft. 6-in. by 3-ft. 6-in. sewer;
- (3) 946,000 cu. yds. dredging;
- (4) 3,625,000 cu. yds. dredger sand fill;
- (5) 7990 cu. yds. struc. excav.;
- (6) 498 cu. yds. Class A Port. cem. conc. struc.;

- (7) 47,600 lbs. bar reinf. steel struc.;
 - (8) 2560 lin. ft. furnlsh untreated Douglas Fir plies;
 - (9) 84 each driving piles;
 - (10) 430 lin. ft. 8-inch vitrified sewer pipe;
 - (11) 976 lin. ft. 12-in. do;
 - (12) 140 lin. ft. 24-in. do;
 - (13) 520 lin. ft. 30-in. do;
 - (14) 356 lin. ft. 18-in. CMP;
 - (15) 366 lin. ft. 24-in. CMP;
 - (16) 190 lin. ft. 36-in. CMP;
 - (17) 4 each cutting openings in exist. concrete sewer;
 - (18) 215 sta. yds. finishing roadway.
- Supplemental item:
(Note: This item not included when comparing bids).
- (19) 140,000 cu. yds. dredger sand fill; private fill on property of Parafine Companies, Inc.
- Complete bids follow:
- (A) American Dredging Co., San Francisco, \$869,063.32.

(B) S. F. Bridge Co., \$962,685.
Unit bids follow:

	(A)	(B)
(1).....	\$187.50	\$190.00
(2).....	88.80	125.00
(3).....	.0698	.08
(4).....	.1938	.22
(5).....	1.81	5.00
(6).....	47.40	20.00
(7).....	.055	.04
(8).....	.26	.25
(9).....	8.50	10.00
(10).....	2.20	1.00
(11).....	2.52	1.50
(12).....	5.35	4.00
(13).....	10.70	6.00
(14).....	1.50	1.00
(15).....	1.55	1.00
(16).....	2.30	1.50
(17).....	24.00	20.00
(18).....	10.00	20.00
(19).....	.225	.25

22

TRINITY COUNTY, Cal.—Hemstreet & Bell, 501 Eleventh Street, Marysville, at \$117,599.95 submitted only bid received by State Highway Commission, Sacramento, for grading and treating with fuel oil 2.3 miles between 1.8 miles west of Burnt Ranch and McDonald Creek in Trinity County

Because the check accompanying the bid was insufficient the bids may be rejected.

The contract involves:

- (1) 18 acres clear and grub right of way;
- (2) 174,100 cu. yds. rdwy. excav., unclassified;
- (3) 580,000 sta. yds. overhaul;
- (4) 4,345 cu. yds. struc. excav.;
- (5) 1,730 cu. yds. backfill;
- (6) 6,900 cu. yds. selected material;
- (7) 27 cu. yds. Class A Port. cement concrete struc.;
- (8) 1,970 lbs. bar reinf. steel struc.;
- (9) 1,150 lin. ft. 18-in. CMP;
- (10) 270 lin. ft. 24-in. CMP;
- (11) 80 lin. ft. 30-in. CMP;
- (12) 220 lin. ft. 72-in. CMP;
- (13) 40 lin. ft. CMP clean and relay;
- (14) 310 lin. ft. 8-in. perf. metal pipe;
- (15) 68 M. ft. bm. sel. all-heart struc. redwood timber cribs;
- (16) 50 each timber guide posts and culvert markers, comp. in place;
- (17) 140 each timber guide posts, move and reset;
- (18) 730 lin. ft. lam. timber guard rail, move and reset;
- (19) 220 M. gals. water;
- (20) 310 bbls. heavy fuel oil;
- (21) 940 cu. yds. rubble masonry walls
- (22) 124 sta. finishing rdwy.;
- (23) 120 each monuments complete in place.

Unit bids follow.

(1).....	\$140.00
(2).....	.44
(3).....	.0075
(4).....	1.25
(5).....	.50
(6).....	.40
(7).....	25.00
(8).....	.06
(9).....	1.80
(10).....	2.75
(11).....	3.45
(12).....	15.90
(13).....	.50
(14).....	1.50
(15).....	70.00
(16).....	2.00
(17).....	1.00
(18).....	.50
(19).....	1.00
(20).....	4.00
(21).....	10.00
(22).....	5.00
(23).....	3.00

WAREHOUSE—HAMILTON FIELD

HAMILTON FIELD, Marin Co., Cal.—Oliver S. Almlie, 60 Sussex St., San Francisco, at \$40,978 submitted low bid to Constructing Quartermaster, Hamilton Field, to construct 1-story reinforced concrete quartermaster's warehouse (160x65) at Hamilton Field.

The contract involves: excavation, filling, grading, concrete piling, reinforced concrete walls, concrete floor slab, tile partitions, steel door frames and doors, wire mesh partition, butcher's monorail, steel shelving, tubular steel window and wood door frames, insect screens, copper screen cloth, asbestos protected metal roof (alternate built-up roofing on wood deck), sheet metal, plastering, exterior stucco, granite, hardware, painting, glazing, plumbing, electric water cooler, lavatory fixtures, standpipe and fire hose, cold storage room insulation, automatic refrigeration system, cold storage room shelving, metal rock, gas steam heating system with automatic

controls, interior lighting, wiring and fixtures.

Following bids received:

- (A) Oliver S. Almlie, S. F. \$40,978
- (B) Wm. Spivock, S. F. 41,860
- (C) Frank J. Reilly, S. F. 43,831
- (D) Young & Horstmeyer, S. F. 43,885
- (E) R. E. McKee, Los Angeles 44,000
- (F) Leo Epp, S. F. 44,677
- (G) C. N. Swensen, San Jose 45,358
- (H) Azevedo & Sarmiento, Sacramento 47,195
- (I) San Francisco Const. Co. 47,901
- (J) Schuler & McDonald, Oakland 49,499
- (K) Monson Bros., S. F. 49,900

Bids held under advertisement.

Quantities with alternate proposals follow:

- (1) Quartermaster warehouse, including all utilities;
- (2) if one and not to exceed two bays are added or deducted;
- (3) if alternate for built-up roofing

on wood deck is accepted in lieu of A.P.M. roofing, deduct;

- (4) if exterior stucco is omitted, deduct;
- (5) if cast in place concrete piles are used in lieu of precast concrete piles, add;
- (6) concrete piles (precast) per lin. ft.;
- (7) concrete piles (cast in place) per lin. ft.;
- (8) wood test piles (50 ft. long) each;
- (9) excavation (unclass.) per cu. yd.;
- (10) concrete (type A includ. forms) per cu. yd.;
- (11) concrete (type B, includ. forms) per cu. yd.;
- (12) reinforcing steel, per ton;
- (13) common brick in walls (per M.);
- (14) A.P.M. roofing on wood deck, per 100 sq. ft.;
- (15) built-up roofing on wood deck, per sq. ft.;
- (16) stucco, per sq. yd.

Unit prices follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)
(1).....	\$40,978.00	\$41,860.00	\$43,831.00	\$43,885.00	\$44,000.00	\$44,677.00	\$45,358.00	\$47,195.00	\$47,901.00	\$49,499.00	\$49,900.00
(2).....	3,800.00	2,980.00	2,850.00	2,950.00	3,000.00	2,200.00	3,385.00	3,050.00	1,900.00	497.00	4,200.00
(3).....	468.00	600.00	1,000.00	1,200.00	885.00	450.00	750.00	1,260.00	1,280.00	450.00	100.00
(4).....	672.00	300.00	300.00	500.00	323.00	100.00	600.00	400.00	475.00	850.00	250.00
(5).....	3,000.00	2,800.00	2,500.00	3,240.00	3,760.00	.....	2,000.00	3,529.00	630.00	.....	1,250.00
(6).....	1.40	1.60	1.75	1.40	1.50	2.10	1.75	1.40	2.40	2.25	1.50
(7).....	2.00	2.25	2.25	2.25	2.41	2.10	2.25	2.48	2.25	2.25	2.00
(8).....	20.00	60.00	75.00	60.00	50.00	50.00	75.00	75.00	110.00	100.00	50.00
(9).....	.80	1.00	1.00	.60	1.00	1.50	1.00	1.00	1.00	.75	1.50
(10).....	15.00	16.00	14.00	11.55	12.50	13.50	13.50	16.00	14.00	14.25	16.50
(11).....	16.00	16.50	16.00	12.00	13.50	14.50	14.25	16.50	16.00	15.00	18.50
(12).....	90.00	80.00	80.00	78.50	80.00	80.00	79.00	80.00	80.00	85.00	85.00
(13).....	30.00	40.00	50.00	35.00	35.00	40.00	35.00	40.00	42.00	30.00	45.00
(14).....	28.00	27.00	23.00	28.00	28.00	12.00	29.00	30.00	28.00	25.95	23.00
(15).....	24.00	6.00	7.00	7.00	17.20	12.00	6.00	8.00	6.00	9.00	2.00
(16).....	1.00	.90	.65	.85	.75	.80	1.50	1.00	.90	.80	1.00

BUTTE COUNTY — BRIDGE — STATE

BUTTE COUNTY, Cal.—Bodenhamer Const. Co., 354 Hobart St., Oakland at \$14,585.20 submitted low bid to the State Highway Commission, Sacramento, to construct a reinforced concrete bridge across Pine Creek, about 12 miles north of Chico, consisting of six 31-ft. spans on concrete piers with steel pile foundations and concrete abutments with wing walls, involving:

- (1) 400 cu. yds. struc. excav.;
- (2) 620 lin. ft. furnish steel piles including test piles;
- (3) 25 each driving steel piles, including test piles;
- (4) 525 cu. yds. Class A Port. cement concrete;
- (5) 75,000 lbs. bar reinf. steel;
- (6) 324 lbs. bronze expansion plates;

(7) 412 lin. ft. sold timber railing;

(8) 1 lot misc. items of work.

Complete bids follow:

- (A) Bodenhamer Const. Co., Oakland, \$14,585.20.
- (B) J. P. Brennan, Redding, \$15,122.08
- (C) J. W. Halteman, Willows, \$16,251.74.
- (D) Nevs & Harp, Santa Clara, \$16,343.10.
- (E) J. W. Terrell, Sacramento, \$16,936.20.
- (F) E. T. Lesure, Oakland, \$18,286.61.
- (G) M. A. Jenkins, Sacramento, \$15,467.14.
- (H) M. B. McGowan, San Francisco, \$15,989.00.

Unit prices follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
(1).....	\$ 1.00	\$ 1.50	\$ 1.00	\$ 1.50	\$ 1.50	\$ 2.75	\$ 1.80	\$.77
(2).....	1.75	1.38	1.91	1.35	1.70	2.00	1.75	1.10
(3).....	20.00	22.00	37.50	50.00	58.00	59.00	46.00	50.00
(4).....	16.00	16.50	16.00	16.00	16.50	18.00	16.00	16.85
(5).....	.045	.045	.0482	.0423	.045	.045	.0425	.05
(6).....	.30	.50	.46	.40	.40	.36	.36	.46
(7).....	1.00	1.70	1.25	1.00	.80	1.00	1.00	1.04
(8).....	300.00	200.00	535.00	1000.00	1275.00	1100.00	380.00	558.38

	(A)	(B)	(C)	(D)
(1).....	\$.30	\$.31	\$.35	\$.295
(2).....	.005	.005	.003	.01
(3).....	.60	.80	1.00	.75
(4).....	1.90	2.20	1.60	2.75
(5).....	1.60	1.50	1.55	1.60
(6).....	28.00	24.00	23.00	25.00
(7).....	2.80	2.50	2.50	3.00
(8).....	20.00	20.00	20.00	20.00
(9).....	.05	.05	.06	.10
(10).....	2.70	2.80	2.30	2.85
(11).....	4.95	5.10	5.65	5.50
(12).....	7.70	8.40	7.40	8.80
(13).....	4.00	2.80	2.50	2.00
(14).....	.50	.75	1.00	.60
(15).....	.80	.90	1.50	1.00
(16).....	1.00	5.00	2.00	2.50
(17).....	7.00	4.00	5.00	7.00
(18).....	3.00	3.00	2.00	3.00

ALAMEDA COUNTY, Cal.—Heafey-Moore Co., 344 High St., Oakland, and Jack Casson, at \$430,142.50 submitted low bid to State Highway Commission, Sacramento, for constructing rock retaining wall about 4.1 mi. in length and placing miscellaneous rip-rap bet. the westerly end of the Key Mole fill and the foot of Folger Ave., Berkeley, on the East Bay approach to the San Francisco-Oakland Bay Bridge, involving:

- (1) 232,000 tons core rock retaining wall and riprap based on weight of 160 lbs. per solid dry cu. ft.;
 - (2) 116,000 tons face rock retaining wall and riprap based on weight of 160 lbs. per solid dry cu. ft.
- Complete bids follow:
- (A) Heafey-Moore Co. and Jack Casson, Oakland, \$430,142.50.
 - (B) George Pollock Co., Sacramento, \$573,040.
 - (C) MacDonald & Kahn, San Francisco, \$576,444.50.
 - (D) Healy-Tibbitts Constr. Co., San Francisco, No Total.

	(1)	(2)	Wt. of Rock
(A).....	\$.90	\$1.69	170 lb.
(B).....	1.58	1.78	160 lb.
(C).....	1.53	1.50	163.6 lb.
(D).....	1.17	1.9475	162 lb.

SAN BERNARDINO COUNTY, Cal.—United Concrete Pipe Corp., Box 1, Station H, Los Angeles, at \$32,123.40 submitted low bid to State Highway Commission, Sacramento, to grade and surface with oil treated crushed gravel or stone plant mix about 0.8 mi. between Arrowhead Springs and San Bernardino in San Bernardino County, involving:

- (1) 40,000 cu. yds. rdwy. excav., unclassified;
- (2) 358,000 sta. yds. overhaul;
- (3) 1,360 cu. yds. struc. excavation;
- (4) 3,860 tons crushed gravel or stone surfacing;
- (5) 963 bbis. fuel oil surfacing;
- (6) 13 tons asph. road oil seal coat;
- (7) 140 tons screenings seal coat;
- (8) 6 cu. yds. Class A Port. cement concrete structures;
- (9) 200 lbs. bar reinf. steel struc.;

- (10) 206 lin. ft. 24-in. CMP;
- (11) 368 lin. ft. 36-in. CMP;
- (12) 184 lin. ft. 48-in. CMP;
- (13) 80 each timber guide posts;
- (14) 2,000 M. gals. water embankment;
- (15) 2,670 lin. ft. laminated timber guardrail;
- (16) 22 cu. yds. concrete removed from existing struc. and disposed of;
- (17) 45 sta. yds. finishing rdwy.;
- (18) 27 each monuments complete in place.

Complete bids follow:

- (A) United Concrete Pipe Corp., Los Angeles, \$32,123.40.
- (B) Geo. Herz & Co., San Bernardino, \$34,503.70.
- (C) C. O. Sparks, Los Angeles, \$35,344.65.
- (D) Kuhn Bros., Manhatlan Beach, \$38,110.

Unit bids follow:

KERN COUNTY — GRADING — STATE

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)	(O)	(P)	(Q)
(1) 1401 Park Ave., Oakland, Cal.—J. F. Knapp, at \$133,773 submitted low bid to State Highway Commission Sacramento, to grade 8.7 miles between westerly boundary and 2.4 miles south of Maricopa in Kern County, involving:																	
(1) 449,000 cu. yds. rdwy. excav., unclassified;	.17	.17	.157	.19	.186	.195	.195	.20	.018	.21	.20	.20	.21	.21	.22	.22	.30
(2) 2,525,000 sta. yds. overhaul;	.60	.65	.60	.55	.69	.58	.604	.75	.78	.50	.50	.50	.75	.90	.80	.80	.50
(3) 5,900 cu. yds. struc. excav.;			.004	.002	.002	.004	.004	.014	.005	.005	.005	.005	.004	.005	.005	.005	.005
(4) 230 cu. yds. Class A Portl. cem. conc. struc.;	.05	.05	.045	.05	.05	.055	.05	.05	.0575	.04	.05	.05	.05	.06	.06	.04	.06
(5) 18,400 lbs. bar reinf. steel struc.;	1.00	.85	.90	.80	1.20	1.03	.85	.80	.95	1.00	.90	.90	.80	1.00	1.00	1.00	1.28
(6) 122 lin. ft. 8-in. CMP;	1.25	1.25	1.10	1.16	1.50	1.38	1.05	1.11	1.30	1.25	1.00	1.20	1.10	1.40	1.25	1.50	1.47
(7) 130 lin. ft. 12-in. CMP;	1.50	1.50	1.50	1.70	2.00	1.61	1.50	1.51	1.90	1.75	1.50	1.70	1.55	1.80	1.75	2.00	1.80
(8) 1,250 lin. ft. 18-in. CMP;	2.25	3.00	2.25	2.40	3.00	2.36	2.35	2.36	2.83	2.30	2.50	2.25	2.35	2.50	2.25	3.00	2.40
(9) 1,800 lin. ft. 24-in. CMP;	3.00	3.25	2.70	3.00	3.00	2.70	3.00	3.00	3.75	3.00	3.00	3.00	3.00	3.10	3.25	3.50	2.84
(10) 198 lin. ft. 30-in. CMP;	4.50	4.50	4.50	5.00	4.60	4.85	4.85	4.85	5.50	4.60	4.00	4.30	5.00	4.60	4.50	5.50	4.57
(11) 122 lin. ft. 8-in. CMP;	8.50	7.80	8.25	8.50	9.00	9.84	9.50	8.50	11.00	9.00	8.00	8.50	9.35	8.00	8.50	10.00	7.87
(12) 130 lin. ft. 12-in. CMP;	9.50	9.50	9.65	9.50	10.00	10.90	11.00	10.40	12.20	10.00	9.00	9.75	10.60	9.00	10.00	11.50	8.95
(13) 1,250 lin. ft. 18-in. CMP;	13.00	13.00	13.75	13.25	15.00	14.00	15.50	13.50	18.63	13.50	13.00	14.00	14.40	13.00	15.00	15.00	12.02
(14) 1,800 lin. ft. 24-in. CMP;	16.00	16.00	16.50	14.40	18.00	19.00	19.00	16.70	19.45	18.00	17.00	17.75	17.40	16.25	17.00	18.00	15.08
(15) 2,500 lin. ft. 30-in. CMP;	30.00	28.00	30.00	30.00	31.62	34.00	34.00	29.25	33.10	31.00	30.00	34.00	31.70	27.00	33.00	34.00	30.00
(16) 102 lin. ft. 84-in. 8-gauge CMP;	10.00	25.00	12.50	11.00	11.72	14.00	14.00	11.50	12.00	10.00	10.00	13.00	13.00	11.00	15.00	20.00	11.00
(17) 6 each spillway assemblies;	1.75	1.50	1.10	2.20	2.50	3.00	2.00	2.75	3.00	2.35	3.00	3.50	3.00	2.00	2.00	2.75	1.50
(18) 2,100 M. gals. water;	150.00	150.00	160.00	100.00	150.00	150.00	150.00	55.00	105.00	50.00	50.00	1.40	1.50	2.00	2.00	2.00	2.00
(19) 2,800 blts. fuel oil;	250.00	200.00	240.00	350.00	210.00	250.00	250.00	165.00	300.00	50.00	50.00	100.00	100.00	75.00	100.00	50.00	50.00
(20) 0.64 mile existing property fence to be moved and disposed of;	400.00	350.00	325.00	450.00	370.00	400.00	400.00	340.00	370.00	300.00	200.00	200.00	250.00	150.00	200.00	100.00	100.00
(21) 4.08 miles existing property fence to be removed and reset;	15.00	14.00	17.00	15.00	15.00	15.00	15.00	13.00	12.00	15.00	15.00	15.00	15.00	14.00	20.00	350.00	400.00
(22) 12.73 miles new property fence;	2.00	2.50	2.50	2.20	1.50	1.80	1.25	2.50	1.40	2.00	2.00	3.00	1.75	2.00	2.00	50.00	400.00
(23) 10 each fence gates;	2.25	2.25	1.75	2.00	2.00	1.90	1.75	1.65	2.36	2.00	2.00	2.50	2.25	2.00	2.00	2.00	2.00
(24) 130 each timber guide posts;	4.00	4.00	6.00	4.00	5.00	5.00	5.00	4.40	5.00	5.00	3.00	4.00	5.00	6.00	5.00	7.00	3.00
(25) 120 each timber culvert markers;	2.50	2.50	2.00	2.50	2.50	2.20	2.00	2.20	2.00	2.00	2.00	2.00	3.00	2.00	3.00	3.00	3.00
(26) 460 sta. finish rdwy.;																	

(11) 238 lin. ft. 36-in. CMP;
 (12) 134 lin. ft. 48-in. 8 gauge CMP;
 (13) 128 lin. ft. 54-in. CMP;
 (14) 52 lin. ft. 72-in. 8-gauge CMP;
 (15) 102 lin. ft. 84-in. 8 gauge CMP;
 (16) 256 lin. ft. 105-in. multi-plate CMP;
 (17) 6 each spillway assemblies;
 (18) 2,100 M. gals. water;
 (19) 2,800 blts. fuel oil;
 (20) 0.64 mile existing property fence to be moved and disposed of;
 (21) 4.08 miles existing property fence to be removed and reset;
 (22) 12.73 miles new property fence;
 (23) 10 each fence gates;
 (24) 130 each timber guide posts;
 (25) 120 each timber culvert markers;
 (26) 460 sta. finish rdwy.;

(27) 198 each monuments complete in place.
 Complete bids follow:
 (A) J. F. Knapp, Oakland, \$133,773.00.
 (B) M. J. Beywanda, Stockton, \$137,922.40.
 (C) Sharp & Fellows, Los Angeles, \$140,654.35.
 (D) Maccio Const. Co., Clearwater, \$142,311.60.
 (E) Griffith Co., Los Angeles, \$143,065.90.
 (F) Geo. K. Thompson, Los Angeles, \$149,498.66.
 (G) Hemstreet and Bell, Marysville, \$151,495.70.
 (H) Fredrickson & Watson, Oakland, \$152,700.00.

(1) C. G. Willis & Sons, Chas. Willis & Crow Bros., Los Angeles, \$151,298.86.
 (J) Basich Bros. & John Jerkovich, Torrance, \$155,231.00.
 (K) Von Der Helten & Elerson, Custer, \$155,540.80.
 (L) C. W. Wood, Stockton, \$155,850.50
 (M) J. E. Haddock, Pasadena, \$158,496.30.
 (N) Goro & Rados, Los Angeles, \$159,456.10.
 (O) Larson Bros., Sacramento, \$160,831.00.
 (P) Gist & Bell, Arredia, \$169,102.00.
 (Q) J. L. Cornors and K. Kristich, San Juan Capistrano, \$194,467.80.

Unit bids follow:

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Lack of Money Stops State Code Hearings

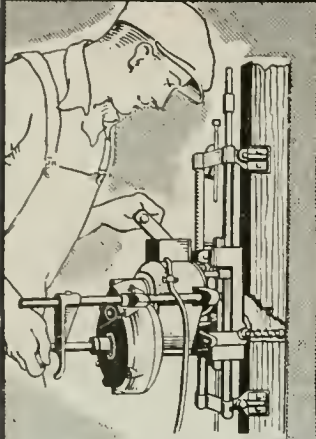
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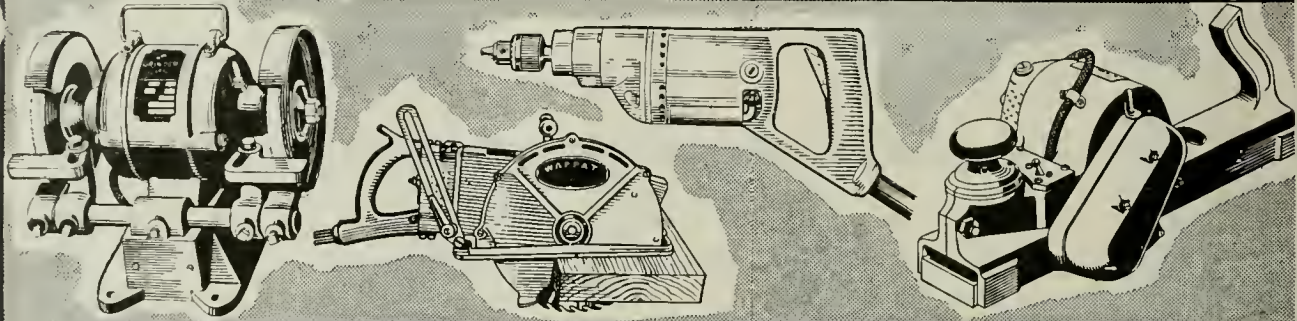
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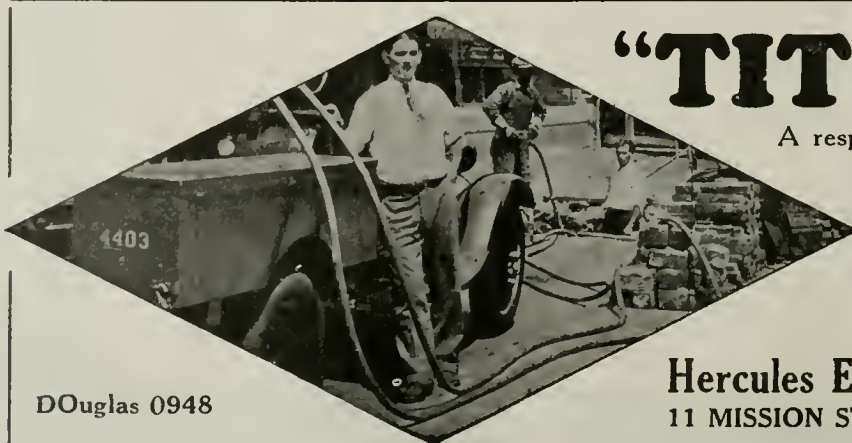
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No. 45

STATE LACKS MONEY FOR RECOVERY ACT

**Corporation Commission Must
Drop Enforcement of
Statute**

The California recovery act, state running mate for NRA, yesterday faced abandonment because of lack of funds to establish and enforce business and industrial codes.

An announcement by Edwin M. Daugherty, CRA administrator, and Rolland Vandegrift, finance director, said that the state recovery act administration faced a \$115,000 deficit for its first year and that support from the emergency fund had been exhausted.

Contingent upon ruling from Attorney General Webb that CRA legally can be arrested, Daugherty said that no more code applications will be accepted, no hearings other than those previously scheduled will be held, and no enforcement of existing codes can be attempted.

The CRA administration immediately will be reduced to a skeleton force.

"It will be absolutely impossible because of the present conditions of the emergency fund to finance the administration of the California Industrial Recovery act," said Vandegrift.

"The corporation commission, charged with administration of CRA, has not enough funds for its other duties of enforcing the corporate securities act, the personal property brokers act, the industrial loan act and the credit union act.

"It would be unwise to advance any further funds from the corporation commission appropriation.

"Provisions made by the legislature for financing the recovery act have proven wholly inadequate."

The legislature set up a filing fee of \$25.00 per code. Daugherty said each code represents a cost of \$1,500. Approximately 50 codes are in effect, with applications for 150 more pending. Disposition of pending applications must await an attorney general's ruling as to whether the state entered into a contract by accepting the filing fee.

Daugherty declared the national recovery act is gradually supplanting the state codes.

CALL NEW BIDS ON BRIDGE WALL

New bids are to be asked on construction of 4.1 miles of rock retaining wall along the route of the Berkeley approach to the San Francisco-Oakland bridge, it was announced yesterday at Sacramento. Bids opened Nov. 15 have been rejected. The low bid was submitted by Heafey-Moore Co. and Jack Casson at \$430,142.50. Bids under revised specifications will be received Dec. 6 by the State Highway Commission.

COMMISSION CALLS BIDS ON SIX NEW HIGHWAY CONTRACTS

SACRAMENTO, Calif.—Bids will be received December 13 on six highway construction contracts, the State Highway Commission announced today.

Five of the contracts are for work in Northern California counties and the sixth in Los Angeles county.

The work on which bids are asked is located as follows:

TRINITY COUNTY: Grading and treating with fuel oil about 2.3 miles between 1.8 miles west of Burnt Ranch and McDonald Creek.

HUMBOLDT COUNTY: Grading and surfacing with screened gravel about 0.7 mile between Smith Point and Twin Tree Bridge.

MONTEREY COUNTY: Grading about 3.1 miles between Big Sur and 1.6 miles south of Molerias Ranch.

LAKE COUNTY: Constructing a reinforced concrete slab bridge across St. Helena Creek 0.3 mile north of Middletown, consisting of six 31-foot spans on concrete piers with steel pile foundations and concrete abutments with wing walls.

TEHAMA COUNTY: Grading and paving with portland cement concrete and bituminous treated crushed gravel or stone surfacing about 0.8 mile at Red Bluff.

LOS ANGELES COUNTY: Paving with asphalt concrete about 1.5 miles between Central avenue and Alameda street in Graham.

ROADS BUREAU HAS APPROVED 3,848 PROJECTS

**Construction in Progress Nov.
11 on 1,653 NRA
Contracts**

Progress on public works highway projects was reported by the Bureau of Public Roads, U. S. Department of Agriculture, on Nov. 11 at 3,848 road projects approved requiring an estimated expenditure of \$219,741,000. These projects, it is expected, will furnish employment for 263,204 men. In the week ending Nov. 11 there were 263 projects approved.

Contracts had been awarded up to November 11 on 2,842 of the approved projects and construction was in progress on 1,653 of these. In addition to the contract work, construction is also under way on 423 projects on which the labor is directly employed and supervised by the highway authorities.

Analysis of the public works highway work in progress under the \$400,000,000 of Federal funds authorized in the National Industrial Recovery Act shows the following classes of work: 1,307 projects on the Federal-aid highway system outside of municipalities; 607 projects on the Federal-aid highway system into and through municipalities; 816 projects on secondary or feeder roads; and 112 projects on national park, forest and public land highways.

To insure the reasonable distribution of the employment that will be provided by the highway work, the Federal Administration has required that projects be undertaken in at least 75 per cent of the counties of each State. Increase of employment is the primary purpose of the work. Subject to this fundamental consideration the character of the projects determined upon is based upon transportation needs. Emphasis is placed upon the elimination of railroad grade crossings and other traffic hazards, the filling of unimproved gaps in the main highway system, the improvement of main routes through cities, and the improvement of highway feeders to railroads and other transportation agencies.

Proposed Amendments To The State Basic Construction Industry Code

(NOTE: Mr. Hague was a member of the Committee on Codes which was appointed by the Construction League of California to draft a proposed State Basic Code. His extensive knowledge of building industry practice as Manager of the Associated General Contractors, Alameda County Chapter, and many years past experience, made him a valuable addition to the Committee.)

By WM. E. HAGUE

The delay in getting construction industry codes passed at Washington has seemed to force local action under the CRA in order that no further time be wasted. The proposed Basic Code for the Construction Industry of California, as presented through the Construction League of California, was based on the National Basic Code for the construction industry of the United States as now pending in Washington.

For many years past the building business has suffered from ruinous competition which has now brought it to a condition where it is almost impossible for a legitimate contractor to figure a legitimate price and pay his men a living wage.

When President Roosevelt introduced his "New Deal" and Codes to regulate industry the construction business at once seized upon this opportunity to clean house legally with the Government supporting the establishment of regulatory practices. National codes were presented at Washington by the nationally organized groups and some progress has been made.

Unfortunately the Basic Code as introduced by the Construction League of the United States has so far failed of actual approval; but as a regulatory document it has been greatly improved during the last two months. So much so that the Code as it now stands would seem to effectually deal with most of the bad practices which have become so prevalent in the industry. This latest form of the proposed National Code offered so many improvements over the previous form that the Code Committee of the Construction League of California decided to present the changes in the form of amendments to the Code as originally filed.

Therefore, when the proposed Basic Code for California was presented before Deputy Commissioner Michel on the 6th inst, the original code and the proposed amendments were presented jointly. In taking this action the committee felt they would be presenting a much stronger code than the orig-

inal document and one that would be strictly in line with the proposed national code as it stands at this time.

Should the national code be approved in its present form the proposed State CRA Code would be superseded by same, but since the two are synchronized no material change in the code form would be necessary. In the meantime, if the proposed code is adopted the construction industry of California can put its house in order without further delay.

At the hearing of November 6th it was encouraging to note that there was so little opposition to the proposed code. If some minor changes are necessary there should be little difficulty over their adoption.

I feel that the rules to cover "competitive bidding practices" proposed in the amendments (Article X1), cover many of the evils of the industry and should prove of great value. There are six cardinal provisions which should be included in a code: Hours, Wages, Peddling of bids prevention, Elimination of contract labor, Home builders to be classed as contractors and an effective enforcement agency.

In the proposed State Basic Code as submitted by the League all of these features are dealt with except that of wages; the question of wages being left to each craft to set up in their individual codes.

The Contractors License Department has been proposed as the enforcement agency. This state department has the necessary funds to carry on the work and is already in close touch with the contractors in all lines and its agents familiar with the problems of the industry. The license law itself is made a part of the code and thus an offending contractor is not only liable to the fine of \$500 as provided under CRA and NRA, but is also liable to lose his license to do business as a contractor.

Following is the text of the most important proposed amendment to the code, a new article governing competitive bidding practice:

SECTION 1. (a) The term "competitive bidding" as used herein shall mean the submission before a definite predetermined time of comparable proposals by two or more invited persons to an awarding authority to execute a specific program of work, furnishing a definite service or supplying a material specifically required for a particular project at a stipulated price. This does not include furnishing quotations on standard products.

(b) The term "awarding authority" as used herein shall mean a member of the industry who may award contracts or purchase materials to be incorporated in the work based upon competitive bidding.

SEC. 2. (a) The practices commonly known as "bid peddling" or "bid shopping" are recognized as unfair and are prohibited. Bid peddling in effect means the offering by the bidder, prior to the making of an award, of a substitute bid or price lower than the one originally quoted without a commensurate decrease in the requirements of the job.

(b) Bid shopping in effect means the effort on the part of the awarding authority to induce a bidder prior to the making of the award to lower his original price without a commensurate decrease in the requirements of the job.

SEC. 3. (a) It is recognized that the preparation of a bid is a service involving an expense to the bidder and the inviting of an unreasonable number of bids is an economic waste, therefore, the awarding authority shall not invite an unnecessary number of bids.

(b) Only a limited number of alternate proposals shall be required in connection with any bid, and no alternate proposal of a bidder shall be considered by the awarding authority unless the privilege of alternate proposals is extended to all bidders.

SEC. 4. The awarding authority shall make available uniformly to all bidders plans and/or specifications or other requisite information which shall be sufficiently complete to enable the bidder to prepare a definite bid in accordance with the regulations herein provided for. He shall provide terms of competition which shall insure parity of standing to all bidders.

SEC. 5. The awarding authority shall not invite bids from a bidder unless he has demonstrated that he is competent technically and financially to perform the work, and the ability of a bidder to obtain a performance bond shall not be regarded as the sole test of such bidder's competency.

SEC. 6. No award shall be made at less than the bidder's original bid price. It is recognized that competition based solely on price is sometimes unfair and accordingly the awarding authority may make an award to a competitor other than the lowest bidder provided the award is made at such competitor's original bid price.

SEC. 7. The awarding authority shall designate a specific hour and place for receiving competitive bids. The bidder shall submit his bid prior to such time, and simultaneously shall file a copy of his bid with a designated depository. All bids to be submitted by sub-contractors shall be delivered to the contractor at least 24 hours prior to the time set for the receipt of the bid of said contractor by the awarding authority. Bids received after such time or from uninvited bidders shall be returned unopened. All bids shall be required to be signed by a duly authorized representative of the bidder and enclosed in a sealed envelope on the outside of which shall appear its identification as a bid for the particular job.

SEC. 8. The awarding authority

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shall not at any time prior to the specified time for the receipt of bids convey to any bidder information relating to the price or terms of any other bid in order to influence the price or terms of such bidder.

SEC. 9. There shall be no collusion between the awarding authority and the seller, nor between the different sellers in the preparation of any bids; nor shall the awarding authority use any bid which he has reason to believe is at or below cost, but where this question arises the purchaser must give the seller the opportunity of demonstrating by cost sheets or other methods the correctness of the bid that he has submitted if he desires its consideration.

SEC. 10. The awarding authority shall make an award or reject all bids for the principal contract with the owner within twenty (20) days after the stipulated time for the receiving of bids unless extension of time is agreed to by the bidder. In the case of bids conditioned upon the award of a previous contract, each succeeding awarding authority shall make an award or reject all bids within thirty (30) days after the award of such previous contract unless extension of time is agreed to by the bidder. The right to reject any or all bids is reserved to the awarding authority, and such rejection shall be made in writing. Where all bids are rejected, bids shall not be again invited or submitted for the mere purpose of obtaining a lower or revised price or prices for substantially the same work previous to the lapse of ninety days from the date of such rejection, except there be a substantial change in the plans and/or specifications, or except there be such a marked difference between the bids submitted and the awarding authority's estimate as to the valuation of the work as would indicate to the awarding authority and his code authority the necessity of new bids in order to secure fair competition.

SEC. 11. The awarding authority may require the list of sub-contractors whom the contractor intends to employ for any particular division of the work to be submitted before the award of this particular contract.

SEC. 12. The awarding authority shall not accept rebates, refunds, discounts or other special allowances or services from a bidder unless made by the bidder in his original bid.

SEC. 13. Supplemental codes may provide that as a condition precedent to making a bid, bidders shall require an owner or any other person who exercises functions corresponding to an awarding authority as herein defined but who otherwise would not be bound by this Code of Fair Competition expressly to agree to comply with the regulations governing an awarding authority provided herein.

SEC. 14. (a) In order to enforce the practice of fair competitive bidding, all supplemental codes shall include provisions for the enforcement of this article.

(b) The supplemental code authorities shall designate suitable depositories for filing duplicate bids and make such rules and regulations providing for the filing, opening, tabulating and distributing of duplicate bids as may be deemed necessary by their respective divisions of the industry.

MOVING OFFICES

Offices of the MacDona'd Engineering Company are being moved from 149 California St., San Francisco, to 2201 East Seventh Street, Oakland, it was announced yesterday. The company will be in their new quarters next Monday.

School Earthquake Design Law Does Not Prescribe Materials

The State Architect is authorized only to supervise structural design of school buildings and is not required to recommend fire-resistant materials, under the legislative act for protection of schools from earthquake damage, according to an opinion rendered by Attorney-General U. S. Webb.

The opinion was given at the request of State Architect George B. McDougall.

The text of the opinion follows: "Chapter 59, Statutes 1933, is an act relating to the safety of design and construction of public school buildings, providing for the regulation, inspection and supervision of the construction, re-construction, or alteration of, or addition to, public school buildings, etc., etc.

"You ask whether your department is authorized by said Act, in approving plans for proposed construction or repair work on school buildings, to take into consideration not only safety as against vertical and lateral forces but also against fire hazard. You say that, while the language of the Act may not be specific as to fire hazard, it is the judgment of your Division of Architecture that public school buildings cannot be safe as required by the Act unless reasonable requirements as to fire resisting materials and construction, as determined by the Division of Architecture, are met. You call attention to the fact that in Section 2 of the Act it is provided that before letting any contract or contracts for school construction work the written approval of such plans 'as to safety of design and construction, by the Division of Architecture, must be first had and obtained.'

"You further call attention to the fact that in Section 7 it is provided that the State Division of Architecture has full power and authority and it shall be its duty to make inspection of such school buildings and of such work of construction, etc., as in its judgment may be necessary or proper for the enforcement of the provisions of the Act 'and the protection of the safety of the pupils, the teachers and the public.'

"In Section 8 of the Act it is pro-

vided that upon the request of the board of trustees of any school district, or at least ten per cent of the parents having pupils enrolled in said school district, the Division of Architecture shall make an examination and report 'on the structural condition of any public school building,' etc., etc.

"I am of the opinion that the provisions of this Act do not authorize the Division of Architecture to make requirements as to fire-resisting materials and construction in the matter of school buildings. This is particularly made clear by the language of Section 9 declaring the Act to be an urgency measure necessary for the immediate preservation of the public peace, health and safety, within the meaning of Section 1 of Article IV of the Constitution. This Section 9 reads as follows:

"This act is hereby declared to be an urgency measure necessary for the immediate preservation of the public peace, health and safety within the meaning of section 1 of Article IV of the Constitution and shall therefore go into immediate effect.

"The facts constituting the necessity are as follows: The series of earthquakes occurring in the southern portion of the State has caused great loss of life and damage to property. The public school buildings, constructed at public expense, were among the most seriously damaged buildings. Much of this loss and damage could have been avoided if the buildings and other structures had been properly constructed. The school buildings which will be erected, constructed and reconstructed to replace the buildings damaged or destroyed by the earthquakes should be so constructed as to resist, in so far as is possible, future earthquakes. These buildings will be erected, constructed and reconstructed at once and accordingly it is necessary that this act go into immediate effect in order that the lives and property of the people will be protected.

"This language declares with no uncertainty that the purpose of the act is to prevent a recurrence of damage to school buildings from earthquakes. Particular reference is made to the necessity for proper construction 'to resist, in so far as is possible, future earthquakes'."

PWA REQUIRES CONTRACT BIDS

Extension of the Everett, Washington, municipal water supply pipe line must be done by contract if Federal public works funds are used, the city council has been informed by E. R. Hoffman, state WPA engineer.

The city had requested that it be allowed to carry on the work by day labor and was awaiting a decision before starting the project.

Plans and specifications are being revised by the water department and bids probably will be called within two weeks. Olin M. Sprague is manager of the water department.

CONFER NATIONAL HIGHWAY AWARD

The American Association of State Highway Officials, the American Road Builders' Association, and the Highway Research Board of the National Research Council announce the conferring of the Geo. S. Bartlett Award upon Honorable James H. MacDonald, former State Highway Commissioner of Connecticut, and for many years Treasurer of the American Road Builders' Association. The presentation will be made at the annual meeting of the Highway Research Board on Dec. 7, 1933. This Award is made in recognition of meritorious achievement in highway development.

ASK \$15,600,000 RFC LOAN FOR SPAN TERMINALS

State Plans to Construct Electric Line on Bay Bridge

Immediate application to the Reconstruction Finance Corporation for \$15,600,000 to defray the cost of interurban electric train installations and terminals on the San Francisco-Oakland Bay Bridge was recommended to State Director of Public Works Earl Lee Kelly and the California Toll Bridge Authority yesterday in a resolution adopted by the Financial Advisory Committee.

"The Committee was unanimous in support of the policy that the State must build an electric bridge line that will take passengers back and forth for a fare no higher than that now charged commuters," Harrison S. Robinson, President, stated.

It was resolved that the Reconstruction Finance Corporation be requested to purchase California Toll Bridge Authority bonds to the extent of \$15,600,000 to finance a bridge electric train system which will be operated publicly or by either the Key System or Southern Pacific, or both.

"Preliminary negotiations with the Key System and Southern Pacific," Robinson said, "have as yet produced no working plan for transportation of commuters over the bridge.

"Chief Engineer Purcell and his staff have, however," Robinson continued, "completed computations and surveys to a point where it is established, first, that a modern convenient commutation service with terminals can be provided for \$15,600,000, and second, that a capital investment greater than this amount would entail increased transbay fares which State Director of Public Works Kelly and the Financial Advisory Committee oppose as unwise.

"We are therefore recommending that the California Toll Bridge Authority ask for the sum of \$15,600,000, and further assure the Reconstruction Finance Corporation that an investment of this sum will result in a modern transbay transportation system for either private or public operation."

The meeting of the Financial Advisory Committee was attended by Harrison S. Robinson, Leland W. Cutler, George T. Cameron, C. H. Purcell, Charles O. Conrad, E. B. DeGolia, R. M. Fitzgerald, R. H. Glassley, E. Clarence Holmes, and Joseph R. Knowland.

Copies of the resolution will be sent by Chief Engineer Purcell to Governor James Rolph Jr., as head of the California Toll Bridge Authority, and to Director of Public Works Kelly.

The Finance Advisory Committee also took under consideration the proposal to increase the cost of the San Francisco cable anchorage for architectural embellishments.

EQUIPMENT MEN GET NATIONAL CODE

A national code of fair competition for the Shovel, Dragline and Crane Industry was approved by President Roosevelt on Nov. 8.

In recommending the code for adoption the NRA reported as follows:

This Industry manufactures power-operated shovels, draglines, locomotive cranes, and the like, the product being largely used for excavating on public-works projects and in the building industry. The thirty companies employed 14,440 persons in 1929, but this number was reduced to an average of 4,100 during the low period of the first half of the year 1933. Since the application of the 40-hour week employment has been increased approximately 20 percent.

The increased wage scale under the provisions of this Code is expected to add 15 percent to the pay rolls of the industry at its present rate of operation. The annual sales of the products of the industry have dropped from \$77,800,000 in 1930 to \$4,833,000 for the first six months of 1933, and the industry is now operating at only 12 percent of capacity. In working out and accepting its Code, this industry has shown a spirit of cooperation with the purposes of the Act.

DENY TWO S. F. MEN LICENSES

SACRAMENTO, Nov. 23.—Application of two San Francisco concerns for state contractors' licenses today had been denied by Colonel Carlos W. Huntington, state registrar of contractors, on the grounds that the petitioners had failed to prove good reputation and integrity.

Action of the registrar followed formal hearings and investigation of complaints filed against the pair.

The Western Terrazzo & Mosaic Company, San Francisco, of which George Rouland is the owner, was denied a license on the ground that the firm had previously accepted five contracts, without obtaining a license, as well as a result of protests filed by Louis J. Glicksberg, attorney for the San Francisco Terrazzo Assn., it was announced.

Evidence indicating that Jesse Shay, 725 Tehama St., San Francisco, entered in to a secret agreement with his partner, Francis Stephens, whereby they would each submit individual bids on projects, one lower than the other and then carry out the contract on a partnership basis resulted in his license application being rejected.

Shay, according to evidence submitted to Registrar Huntington, encouraged his workmen to speed completion of a project ahead of time, on the promise of a \$50 bonus which he allegedly failed to pay.

Witnesses also charged that he failed to protect his workmen with compensation insurance.

LUMBER ORDERS AT U. S. MILLS REACH PEAK

Production Under Code Control Not Affected By New Business

Lumber orders booked at the mills during the week ended Nov. 11, 1933, were the heaviest of any week since May, 1930, and were 2½ times those of corresponding week of 1932. Production was only slightly above that of the preceding week, otherwise the lowest since the week ended July 8, according to telegraphic reports to the National Lumber Manufacturers' Association from regional associations covering the reports of leading hardwood and softwood mills. The reports were made by 1,389 American mills whose production was 174,894,000 feet; shipments, 169,597,000 feet; orders, 311,662,000 feet. Production of 22 British Columbia mills also reported by the West Coast Lumbermen's Association was 13,683,000 feet; shipments, 9,588,000 feet; orders, 17,275,000 ft.

All regions reported orders above production during the week ended November 11, total softwood orders being 87 per cent above output and hardwood orders being 26 per cent above hardwood production. Total production during the week was 44 per cent above that of corresponding week of 1932; total orders were 135 per cent above similar week of last year. All regions shared in the gain in new business over last year, the West Coast Association showing the most spectacular rise of three times the order volume of the corresponding week of 1932. Northern hardwoods were the only group whose reported shipments were lower this year than last, Northern Pine the only one reporting lower production than last year.

Unfilled orders at the mills on November 11 were the equivalent of 19 days' average production of reporting mills, compared with 15 days' a week ago and 15 days' a year ago.

Forest products carloadings during the week ended Nov. 4 of 22,976 cars were 913 cars below the preceding week, 5,574 cars above the same week in 1932 and 377 cars lower than the same week of 1931.

Lumber orders reported for the week ended Nov. 11, 1933, by 752 softwood mills totaled 278,202,000 feet, or 87 per cent above the production of the same mills. Shipments as reported for the same week were 143,951,000 feet, or 3 per cent below production. Production was 148,407,000 feet.

Reports from 659 hardwood mills give new business as 33,460,000 feet or 26 per cent above production. Shipments as reported for the same week were 25,616,000 feet, or 3 per cent below production. Production was 26,487,000 feet.

PERMITS AND CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
825	Thieler	Owner	1750
826	Thieler	Owner	1750
827	Brocchini	Chiappi	1000
828	Ferrua	Damico	5000
829	Depaoli	Lindsay	4050
830	Ferrari	Lindsay	3800
831	Conwell	Owner	1000
832	General	Cahill	100000
833	Dattersby	Lindsay	3800
834	Black	Standard	1200
835	Bessinger	Mattock	25000
836	Sellinger	Franceschi	6000
837	St. Francis	Mattock	8000
838	Gugliemone	Owner	2000
839	Furch	Hamil	1430
840	La Montanye	Pegel	2000
841	Montmatre	Fink	2950
842	Evanson	Owner	1000
843	Guglielmone	Owner	2000
844	Ryan	Owner	1000
845	Klinger	Lombardi	6000
846	California	Casper	1500

DWELLING

(825) N HARKNESS 75 E Mill St. One-story and basement frame dwelling.
Owner—A. Thieler, 2612 25th St., San Francisco.
Architect—Not Given. \$1750

DWELLING

(826) N HARKNESS 50 E Mill St. One-story and basement frame dwelling.
Owner—A. Thieler, 2612 25th St., San Francisco.
Architect—Not Given. \$1750

DWELLING

(829) E CAYUGA 150 S Tingley; one-story and basement frame dwelling.
Owner—Louis and Josephine Depaoli, 3289 Mission St.
Architect—Not Given.
Contractor—C. L. Lindsay, 140 Duboce 4050

DWELLING

(830) E CAYUGA 125 S Tingley; one-story and basement frame dwelling.
Owner—Angelo Ferrari, 413 Paris.
Architect—Not Given.
Contractor—C. T. Lindsay, 140 Duboce \$3800

ALTERATIONS

(827) SW MONTGOMERY and Val-lejo Sts.; alter flats.
Owner—T. Brocchini, 1065 Montgom-ery Street.
Architect—Not Given.
Contractor—C. Chiappi, 1109 Mont-gomery St. \$1000

DWELLING

(828) 2814 BAKER ST.; two-story and basement frame dwelling.
Owner—Mr. and Mrs. J. Ferrua, 2814 Baker Street.
Architect—Not Given.
Contractor—T. Damico, 2345 Polk St. \$5000

ALTERATIONS

(831) NO. 410 EIGHTH AVE. Alter dwelling.
Owner—Helen E. Conwell. Premises.
Architect—Not Given. \$1000

BREWERY

(832) CARROLL AVE AND NEW-hall St. Five-story Class A brew-ery.
Owner—General Brewing Corp., 369 Pine St., San Francisco.

Architect—F. H. Meyer, 525 Market St., San Francisco.
Engineer—C. H. Snyder, 255 Kearny St., San Francisco.
Contractor—Cahill Bros., 206 San-some St. \$100,000

DWELLING

(833) W SAN JOSE AVE 50 Pil-grim St. One-story and base-ment frame dwelling.
Owner—G. M. Battersby, 1731 San Jose Ave., San Francisco.
Architect—Not Given.
Contractor—Boyd C. Lindsay, 183 Ox-ford St., San Francisco. \$3300

ALTERATIONS

(834) N FULEON ST. 25 E Webster. Alter apartments.
Owner—K. Black, 1628 Fell St., San Francisco.
Architect—Not Given.
Contractor—Standard Concrete Con-struction Co., 3025 Geary St., San Francisco. \$1200

DWELLING

(835) NE PACIFIC AVE. AND DI-visadero St. Three-story and basement frame dwelling.
Owner—Paul Bessinger, 212 Clara St., San Francisco.
Architect—Willis Polk & Co., 277 Pine St., San Francisco.
Engineer—Ellison & Russell, Pacific Bldg., San Francisco.
Contractor—A. F. Mattock & Co., 212 Clara St., S. F. \$25,000

DWELLING

(836) W MALLORCA ST. 291 S Beach St. Two-story and basement frame dwelling.
Owner—B. H. Sellinger, 110 Sutter St., San Francisco.
Architect—G. E. Ralph.
Contractor—Louis Franceschi. \$6000

ADD TO CLUB

(837) ST. FRANCIS YACHT CLUB, Marina. Add to club.
Owner—St. Francis Yacht Club, Prem
Architect—Willis Polk & Co., 277 Pine St., San Francisco.
Engineer—Ellison & Russell, Pacific Bldg., San Francisco.
Contractor—A. Mattock Co., 212 Clara St., San Francisco. \$8000

STUDIO

(838) NW MONTGOMERY & GREEN Sts. Two-story and basement frame studio.
Owner—G. Gugliemone.
Architect—W. H. Armitage, 3560 Cali-fornia St., S. F. \$2000

DWELLING

(839) S TWENTY-SEVENTH ST 243 E Castro St. One-story frame dwelling.
Owner—Mary Furch, Berkeley.
Architect—Not Given.
Contractor—Robert Hamil, 6211 Geary St., San Francisco. \$1450

ALTERATIONS

(840) NO. 704 SANSOME ST. Alter warehouse.
Owner—P. De La Montanye, 704 San-some St., San Francisco.
Architect—Not Given.
Contractor—Bernard Pegel, 760 36th Ave., San Francisco. \$2000

ALTERATIONS

(841) NO. 385 GEARY ST. Alter club.
Owner—Montmatre Social Club, Prem.
Architect—Not Given.

Contractor—Fink & Schindler Co., 300 Brannan St., San Francisco. \$2950

MARQUEE

(842) NO. 77 BROADWAY. Marquee.
Owner—Evanson Mfg. Co., 9-11 Minna St., San Francisco.
Architect—Not Given. \$1000

STUDIO

(843) NW MONTGOMERY and Green Sts.; two-story frame studio.
Owner—G. Gugliemone, care W. H. Armitage.
Architect—W. H. Armitage, 3560 Cali-fornia Street. \$2000

ALTERATIONS

(844) 220 EVANS AVE.; alter tavern.
Owners—Mrs. J. Ryan, 567 29th, and Mrs. W. Burke, 199 Tennessee.
Architect—Not Given. \$1000

DWELLING

(845) SW GENEVA AVE. 138 NW Na-ples; two-story frame dwelling.
Owner—Carl Klinger, % contractor.
Architect—Not Given.
Contractor—Ernest Lombardi, 1213 Hollister Ave. \$6000

ALTERATIONS

(846) 405 MONTGOMERY ST.; alter office building.
Owner—California - Montgomery Co., 405 Montgomery St.
Architect—Not Given.
Contractor—S. A. Casper, 405 Mont-gomery Street. \$1500

ALAMEDA COUNTY

504	Bk. of America	DeVelbiss	3650
505	Hart	DeVelbiss	1800
506	Brown	Duval	10950
507	Brown	Cone	8000
508	East Bay	Kent	1117
509	White	Confer	6500
510	Alameda City	Owner	5400
511	Wiggins	Owner	3200
512	Nickerson	Grubb	2950
513	Hessinger	Dolan	4700
514	Berkeley	Netherly	3500
515	Warren	Owner	5000
516	Haller	Owner	4500

REPAIRS

(504) NO. 394 ELEVENTH ST., OAK-LAND. Fire repairs.
Owner—Bank of America N. T. & S. A., 12th and Broadway, Oakland.
Architect—Not Given.
Contractor—C. Dudley DeVelbiss, 354 Hobart St., Oakland. \$3650

REPAIRS

(505) NO. 240 WAYNE AVE., OAK-LAND. Fire repairs.
Owner—Sadie Hart.
Architect—Not Given.
Contractor—C. Dudley DeVelbiss, 354 Hobart St., Oakland. \$1800

ALTERATIONS

(506) NW THIRTEENTH ST. AND Broadway, OAKLAND. Altera-tions.
Owner—Mathilda E. Brown et al, 1403 Central Bank Bldg., Oakland.
Architect—Not Given.
Contractor—Edwin A. Duval, Broad-way Bldg., Oakland. \$10,950

ALTERATIONS

(507) NW THIRTEENTH AND Broadway, OAKLAND. Altera-tions.
Owner—Mathilda E. Brown et al, 1403 Central Bank Bldg., Oakland.
Architect—Not Given.
Contractor—Wilbur Cone, 608 16th St., Oakland. \$8000

COACH TERMINAL
(508) 3023 SAN I'ABLO AVE., **BERKELEY**; 1-story coach terminal.
Owner—East Bay Motor Coach, Ltd., Oakland.
Architect—Kent & Hass, San Francisco. \$1117

DWELLING
(509) 34 ALTA ROAD, **BERKELEY**; one-story 5-room frame dwelling and garage.
Owner—Frank H. White, Berkeley.
Architect—J. H. Piatt, 2024 University Ave., Berkeley.
Contractor—F. W. Confer, 2800 Shasta Road, Berkeley. \$6500

ALTERATIONS
(510) OAK ST. and Santa Clara, **ALAMEDA**; alterations on city hall frame work (stucco finish).
Owner and Contractor—City of Alameda.
Plans by Owner. \$5400

DWELLING
(511) 34 OVAL ROAD, **OAKLAND**; two-story 5-room dwelling.
Owner and Builder—J. S. Wiggins, 5733 Grisborne Ave., Oakland.
Architect—Not Given. \$3200

DWELLING
(512) NO. 1814 109TH AVE., **OAKLAND**. One-story 5-room dwlg.
Owner—Vernon Nickerson.
Architect—Not Given.
Contractor—Jas. B Grubb, 1801 109th Ave., Oakland. \$2950

DWELLING
(513) NO. 4132 OAKMORE ROAD, **OAKLAND**. One-story six-room dwelling.
Owner—F. P. Hessinger, 316 17th St., Oakland.
Architect—Not Given.
Contractor—Leo J. Dotan, 316 17th St., Oakland. \$4700

DWELLING
(514) NO. 920 GRIZZLY PEAK BLVD **BERKELEY**. Two-story 5-room frame dwelling.
Owner—Berkeley Hillside Properties Co., San Francisco.
Architect—Not Given.
Contractor—W. A. Netherby, 3853 Lyman Road, Oakland. \$3500

DWELLING
(515) NO. 3962 OAKMORE ROAD, **OAKLAND**. One-story six-room dwelling.
Owner — Weldon H. Warren, 3502 Foothill Blvd., Oakland. \$5000
Architect—Not Given.

DWELLING
(516) 1872 LEIMERT BLVD., **OAKLAND**; two-story 6-room dwelling.
Owner and Builder—Paul H. Haller, 1825 Curtis St., Berkeley. \$4500
Architect—Not Given.

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
175	Bissinger	Mattock	25000
176	Bothin	Siegrist	953
177	Brocchini	Chiappa	1500
178	Depaoli	Lindsay	4050
179	Carr	Nelson	8170
180	Ferrari	Lindsay	3800
181	Sellinger	Franceschi	6495

RESIDENCE
(175) NE PACIFIC AVE AND Divisadero St. All work for two-story, basement and attic frame and stucco residence.
Owner—Paul Bissinger, 3885 Jackson St., San Francisco.
Architect—Angus McSweeney, 277 Pine St., San Francisco.

Contractor — A. F. Mattock Co., 212 Clara St., San Francisco.
Filed Nov. 16, '33. Dated Nov. 15, '33.
On or about 15th of each mo. 75%
Usual 35 days..... 25%
TOTAL COST, \$25,000
Bond, none. Limit, to be completed on or before May 1, 1934. Forfeit, none. Plans and specifications filed.

STRENGTHEN PARAPET
(176) 341 MARKET ST.; strengthen parapet.
Owner—Mrs. Ellen Chabot Bothin.
Architect—Norman B. Green, 54 New Montgomery St.
Contractor—F. R. Siegrist, 604 Mission Street.
Filed Nov. 17, '33. Dated Nov. 6, '33.
Payment in full when work finished.
TOTAL COST, \$953.00
Bond, \$470. Sureties, U. S. Fidelity & Guaranty Co. Plans filed.

ALTERATIONS, ETC.
(177) SW COR. MONTGOMERY AND Vallejo; alterations to three-story & basement frame dwelling (carpentry work, brick work, glass, millwork, plastering, painting, etc)
Owner—I. Brocchini.
Architect—Not Given.
Contractor—C. Chiappa, 1109 Montgomery St.
Filed Nov. 18, '33. Dated Nov. 17, '33.
1st coat of mortar on front.....\$450
2nd coat, and porch completed.... 330
Work completed 330
Usual 35 days..... 390
TOTAL COST, \$1,500
Bond, \$750.00. Sureties, T. Schulba.
Plans filed

DWELLING
(178) SE CAYUGA AVE 150.084 SW Tingley SW 25xSE 90.631. All work for live-room and breakfast room patio home with full basement including laundry; duplicate of 1550 Alemany Blvd.
Owner—Louis and Josephine T. I paoli, 3289 Mission St., San Francisco.
Architect—T. E. Jensen.
Contractor—Claude T. Lindsay, 140 Duboce Ave., San Francisco.
Filed Nov. 20, '33. Dated Nov. 14, '33.
Tar and gravel roof on.....\$1000
Brown plaster on..... 1000
When completed..... 1000
Usual 35 days..... 1050
TOTAL COST, \$4050
Bond, none. Limit, 75 days. Forfeit, none. Plans and specifications filed.

DWELLING
(179) LOTS 10 AND 11 BLK 3077 Map St. Francis Wood. All work for two-story and basement frame and plaster dwelling.
Owner—Jesse L. Carr, M. D., 15 Santa Paula St., San Francisco.
Architect—Masten & Hurd, 233 Post St., San Francisco.
Contractor—Frank F. Nelson, Inc., 2 Edgell Way, San Francisco.
Filed Nov. 20, '33. Dated Aug. 30, '33.
Cash advance to secure material this date\$ 500.00
Cash for pre-costs, this date 225.00
Cash advance on account of lumber on delivery..... 400.00
1st floor sub-flooring land..... 900.00
Roof membrane on..... 1050.00
Ro. plastering done..... 1460.00
On completion 1636.50
Usual 35 days..... 2042.50
TOTAL COST, \$8170 00
Bond, \$4085. Sureties, Geo. R. Nelson Ramona H. Nelson and Fernando Nelson. Limit, 120 days. Forfeit, none. Plans and specifications filed.

DWELLING
(180) E CAYUGA AVE 125.084 S Tingley 25x104.631. All work for one-story and basement dwelling.
Owner—Angelo and Teresa Ferreri, 413

Paris St., San Francisco.
Architect—Not Given.
Contractor—Claude T. Lindsay, 140 Duboce Ave., San Francisco.
Filed Nov. 20, '33. Dated Nov. 14, '33.
Tar and gravel roof on.....\$950
Brown plaster on..... 950
When completed 950
Usual 35 days..... 950
TOTAL COST, \$3800
Bond, limit, forfeit, none. Plans and specifications filed.

RESIDENCE
(181) SW MALLORCA WAY dist. S 291.251 from S Beach S 31.75 W 100.331 N 27.5 S 84.511 to beg 1st Marina Gardens. All work for two-story and basement frame residence.
Owner—B. H. Sellinger, 585 Eureka St., San Francisco.
Architect — Geo. E. Ralph, 110 Sutter St., San Francisco.
Contractor — Louis Franceschi, 100 Capra Way, San Francisco.
Filed Nov. 21, '33. Dated Nov. 20, '33.
On 10th of each month..... 75%
Usual 35 days..... 25%
TOTAL COST, \$6495
Bond, none. Limit, from Nov. 25, 1933 to March 1, 1934. Forfeit, none. Plans and specifications filed.

SAN FRANCISCO UNDER \$1000

SIGN, electric, \$11; 727 Valencia St.; owner, Earl Bingham, 727 Valencia St.; contractor, QRS Neon Corp., 690 Potrero.
ALTER hotel, \$950; 838 Sansome St.; owner, Lola Alvarez, care architect.
FENCE, \$30; N Vallejo 70 W Octavia; owner, Ridgway Inv. Co., 475 6th St.; contractor, Monson Bros., 475 6th St.
ALTER rest, \$200; 542 Pacific; owner, O. Ruff, 542 Pacific; contractor, J. Johnson & Son, 1614 Church St.
SIGN, electric, \$150; NW Post St. and Stockton; owner, Plaza Hotel, NW Post and Stockton; contractor, Elec. Prod. Corp., 255 Golden Gate Avenue.
SIGN, electric, \$150; NW Post St. and Stockton; owner, Plaza Hotel, NW Post and Stockton; contractor, Elec. Prod. Corp., 255 Golden Gate Avenue.
ALTER flats, \$200; 3060-62 California; owner, Thos. Serrano, 3062 California St.
ALTER dwelling, \$340; SE Frederick and Downey; owner, C. D. Wilbur, 241 Frederick; architect, H. E. Harris, 815 Balboa; contractor, J. B. Bourdier, 2625 20th.
SIGN, electric, \$400; 533 Pacific; owner, The Dragon, 533 Pacific; contractor, Electrical Prod. Corp., 255 Golden Gate Ave.
ADD to rest, \$100; 3411 19th; owner, E. Hirsch, 145 Columbus Ave.
ALTER flats, \$175; 2618 19th; owner, V. Piebri, 2618 19th; contractor, J. Scaramioni.
ADD to dwelling, \$200; 412 Lombard; owner, Bounaccorsoli, 412 Lombard; contractor, M. Brneck, 600 Bayshore Blvd.
SIGN, electric, \$400; NW Post St. and Stockton St.; owner, Plaza Hotel, NW Post and Stockton; contractor, Elec. Prod. Corp., 255 Golden Gate Ave.
SIGN, electric, \$200; 5178 Mission St.; owner, Amazon Tavern, 5178 Mission St.; contractor, Elec. Prod. Corp., 255 Golden Gate Ave.
SIGN, electric, \$175; 699 Golden Gate Ave.; owner, Max Silver, 699 Golden Gate Ave.; contractor, Neon Sign Service Co., 1707 Folsom St.
SIGN, electric, \$155; 2113 Polk Street; owner, Thompson's Beauty Shop, 2113 Polk St.; contractor, Neon Sign Service Co., 1707 Folsom St.

BUILDING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

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| 1.—Apartments | Offices |
| 2.—Bonds | 11.—Ice and Cold Storage Plants |
| 3.—Churches | 12.—Power Plants |
| 4.—Factories and Warehouses | 13.—Public Buildings, Fire Houses and Jails |
| 5.—Flats | 14.—Residences |
| 6.—Garages and Service Stations | 15.—Schools |
| 7.—Federal Buildings. | 16.—Banks, Stores and |
| 8.—Club Buildings | 17.—Theatres |
| 9.—Hospitals | 18.—Wharves & Docks |
| 10.—Hotels | 19.—Misc. Const. |
| | 20.—Misc. Supplies & Materials |

2— BONDS

LOS ANGELES, Cal.—No bids were received by the Los Angeles county supervisors November 20 for the sale of Long Beach school bonds as follows: Junior College, 100,000; high school district, 1,500,000; city school district, 2,500,000.

SAN FRANCISCO—Until December 4, bids will be received by Board of Supervisors for the sale of bonds in the amount of \$20,480,000. Bonds advertised and maturities follow:

Water Department, \$12,095,000, 20 years; O'Shaughnessy dam, \$3,500,000, 20 years; high pressure system, \$2,000,000, 20 years; sewers, \$2,625,000, 30 years; airport extension, \$260,000, five

3— CHURCHES

November 17, 1933

Plans Being Prepared.
 Church Cost, \$25,000
 NORTH SACRAMENTO, Sacramento Co., Cal.
 One-story reinforced concrete church (to seat 400).
 Owner—Roman Catholic Archbishop.
 Architect—Harry Devine, California State Life Bldg., Sacramento.
 Father Murphy, Rector of the proposed new church.

Bids Opened.
 CHURCH Cost, \$—
 CRESCENT CITY, Del Norte Co., Cal.
 One-story reinforced concrete church to seat 275).
 Owner—Roman Catholic Archbishop (Father Nolan, Pastor), Crescent City.
 Architect—Harry Devine, California State Life Bldg., Sacramento.
 Low Bidder—J. P. Brennan, Redding.
 Following bids received:
 J. P. Brennan, Redding.....\$12,246
 H. W. Robertson, Sacramento..... 12,388
 Azevedo & Sarmento, Sacto..... 12,766
 Lloyd Byrne, Crescent City..... 14,500
 Bids held under advisement for one week.

Contract Awarded.
 ALTARS Cost, \$—
 SAN FRANCISCO. Masonic Avenue near Page Street.
 Two marble and re-cut stone side altars for St. Agnes' Church.
 Owner—Roman Catholic Archbishop of San Francisco, 1100 Franklin St.
 Architect—Arnold Constable, 580 Market Street.
 Contractor—Vermont Marble Co., 525 Market St.
 Reverend J. A. Butler, Rector of St. Agnes' Church.

Contract Awarded.
 SETTING MARBLE Cost, \$—
 SAN FRANCISCO. Mission St. bet. Third and Fourth Sts.
 Setting marble confessionals.
 Owner—St. Patrick's Parish (Fr. Rogers, Pastor).
 Architect—Arnold Constable, 580 Market Street.
 Contractor—Albert Bernasconi, 1785 Green Street.

LONG BEACH, Los Angeles Co., Cal.—Architects Soule & Murphy, 116 Sola St., Santa Barbara, will complete revised plans next week for rebuilding a church building at the corner of Atlantic Ave. and 7th St., Long Beach, for St. Lukes Episcopal Church. Rev. Perry G. M. Austin, rector. The auditorium of the church will be built first. Construction will be of frame; stucco and half timber, shingle roofing, hardwood floors, leaded glass, gas heating, etc. Cost, \$40,000.

4— FACTORIES & WAREHOUSES

Structural Steel Contract Awarded.
 ADDITION Cost, \$8000
 OAKLAND, Alameda Co., Cal. West 73rd St. 300 S Hillside St.
 Brick and concrete addition to bldg.
 Owner—Fisher Body Corp.
 Architect—Alben Froberg, 1955 Webster St., Oakland.
 Structural Steel—Judson Pacific Co., foot of Park Ave., Oakland.
 Segregated bids on other portions of the work will be taken within a few days.

Sub-Contracts Awarded.
 FACTORY Cost, \$8000
 OAKLAND, Alameda Co., Calif. 3898 E Tenth Street.
 Rebuilding manufacturing plant (one-story reinforced concrete construction.)
 Owner—B. W. Norton Mfg. Co., 3898 E 10th St., Oakland.
 Architect—Ray Keefer, 740 Wesley Ave., Oakland.
 Contractor—A. T. Beckett, 224 Scenic Ave., Piedmont.
 Lumber—Smith Lbr. Co., 19th Avenue and Estuary, Oakland.
 Mill Work—Atkinson Mill & Mfg. Co., 2985 Chapman St., Oakland.
 Plumbing—J. A. Fazio, 2059 Webster St., Oakland.
 Concrete—Nat Lena, 1174 19th Street, Oakland.
 Electric—T. L. Rosenberg, 441 Webster St., Oakland.
 Roofing—Mastercraft Tile & Roofing Co., 1 20th St., Richmond.
 Glass—East Bay Glass Co., 621 Sixth St., Oakland.

Reinforcing Steel Contract Awarded.
 MILK PLANT Cost, \$10,000
 SAN JOSE, Santa Clara Co., Cal. 400 block east of Empire Street.
 One-story brick milk processing plant (bottling room, cooling room, bottle washing room, etc.)
 Owner—Golden State Co., Ltd., 400 N First St., San Jose.
 Designer—Engineering Dept. of Owner
 Mgr. of Const.—E. Perkins, % Owner.
 Reinforcing steel—Borchers Bros., 396 N First St., San Jose.
 Other awards reported Oct. 27.

Additional Sub-Contracts Awarded.
 ADDITION Cost, \$37,000
 OAKLAND, Alameda Co., Cal. East 14th St. and 57th Ave.
 One-story addition to factory on fill (concrete floors, Kalman flir fin-

ish, steel frame, concrete foundations, wood roof, continuous steel sash, etc.)
 Owner—Safeway Stores, 4th and Jackson Sts., Oakland.
 Engineer—Jesse Rosenwald, 535 Market St., San Francisco, consulting structural engineer.
 Contractor—K. E. Parker, 125 South Park, San Francisco.
 Glazing—W. P. Fuller & Co., 301 Mission St., San Francisco.
 Rolling Doors—Kawneer Mfg. Co., 8th and Dwight, Berkeley.
 Painting—D. Zelnitsky, 165 Grove St., San Francisco.
 Reinforcing Bars—Gunn, Carle & Co., 1185 Mission St., San Francisco.
 Electric—Spencer Electric, 2059 Webster St., Oakland.
 Plumbing—Carl T. Doell, 467 21st St., Oakland.
 Other awards previously reported.

Contract Awarded.
 ALTERATIONS Cost, \$2000
 SAN FRANCISCO. Ninth and Brannan Streets.
 Alterations to warehouse.
 Owner—Western Pacific Railway Co., Mills Bldg.
 Plans by Engr. Dept. of Owner.
 Contractor—Cement Gun Const. Co., 85 Second St.

Steel Frame Bids Being Taken.
 BREWERY Cost, \$250,000
 SAN FRANCISCO. Tenth and Bryant Streets.
 Stock house, bottling house and enlarging of present brewery (Class A steel, concrete and brick construction).
 Owner—Milwaukee Brewing Co., 430 Tenth Street.
 Engineer—W. E. Murray, 908 Hayes.
 Steel frame bids are now being taken and foundation bids will be taken in one week.

Refrigeration Machinery Contract Awarded.
 BREWERY Cost, \$750,000
 SAN FRANCISCO. (Paul Tract) Bayshore Ave. and Third St.
 Group of buildings for brewery, steel and concrete construction.
 Owner—General Brewing Corp. (C. W. Ahrens, Director).
 Architect—Fred H. Meyer, 525 Market St., San Francisco.
 Engineer—C. H. Snyder, 251 Kearny St., San Francisco.
 Contractor—Cahill Bros., 206 Sansome St., San Francisco.
 Refrigeration Machinery—Cyclops Iron Works, 837 Folsom St., San Francisco.

As previously reported, well boring awarded to A. Paulson, San Carlos; structural steel to Western Iron Wks., 141 Beale St.; reinforcing steel to Soule Steel Co., 1750 Army St.; lumber to J. H. McCallum, 748 Bryant St.; steel tanks to Western Pipe & Steel Co., 444 Market St.

Insulation bids are in and held under advisement.

Elevator Contract Awarded.
 BREW HOUSE Cost, \$100,000
 STOCKTON, San Joaquin Co., Calif. 626 N American Street.
 Four- or five-story brick and steel brew house (40 feet square, 90 ft. in height).
 Owner—Eldorado Brewing Co. (A. D. Rothenbush), 626 N American St., Stockton.
 Designer—C. M. Fraenkel, industrial economist, 461 Market Street, San Francisco.

Freight Elevator—Otis Elevator Co., 1 Beach St., San Francisco.
As previously reported, reinforcing steel awarded to Smith Co., Sacramento; tile to Porstefain Tile Co., 66 12th St., San Francisco; electric to Brendell-Trumbull Elec. Mfg. Co., 260 Van Ness Ave., south, San Francisco; structural steel to Schrader Iron Works 1247 Harrison St., San Francisco.

Glass Contract Awarded.
FACTORY Cost, \$750,000
OAKLAND, Alameda Co., Cal. Foot of Adeline Street on the Estuary. Steel frame and concrete coconut products factory (650x100 ft.) steel frame and reinf. concrete warehouse (40x146 ft.) pile foundations, flat slab roofing, corrugated iron roof and siding.

Owner—El Dorado Oil Works, Third and University Ave., Berkeley.
Engineers—Ellison & Russell, Pacific Bldg., San Francisco.

Glass—East Bay Glass Co., 621 Sixth St., Oakland.

Other awards previously reported. (1495) 1st report Dec. 24, 1932; 17th, Sept. 23, 1933.

GRASS VALLEY, Nev. Co., Calif.—Idaho-Maryland & Brunswick Mining Co. is contemplating immediate construction of a large cyanide and flotation mill east of Grass Valley. Further details will be announced shortly.

HAMILTON FIELD, Marin Co., Cal.—Oliver S. Almie, 60 Sussex St., San Francisco, at \$40,518 awarded contract by War Department, to construct a one-story reinforced concrete quartermaster's warehouse (160x65 ft.) at Hamilton Field.

The contract involves: excavation, filling, grading, concrete piling, reinforced concrete walls, concrete floor slab, tile partitions, steel door frames and doors, wire mesh partitions, butcher's monorail steel shelving, tubular steel window and wood door frames, insect screens, copper screen cloth, asbestos protected metal roof, alternate built-up roofing on wood deck), sheet metal, plastering exterior, stucco, guniting, hardware, painting, glazing, plumbing, electric water cooler, lavatory fixtures, standpipe and fire hose, cold storage room insulation, automatic refrigeration system, cold storage room shelving, metal rack, gas steam heating system with automatic controls, interior lighting, wiring and fixtures.

COCO SOLO—Bureau of Yards and Docks, Navy Department, Washington, D. C., has indefinitely postponed the date of opening bids for construction of a seaplane hangar at Coco Solo. Specification No. 7351.

Planned.
FACTORY Cost, \$20,000
ALVISO, Santa Clara Co., Cal. Frame and corrugated iron factory.
Owner—Pacific Brandy Co. (A. P. Pate, R. T. Padget and J. N. Hughes, Cr. F. L. Fehren, 25 N. Second St., San Jose.
Architect—Not Selected.
Agent—Fred L. Fehren, 25 N. Second St., San Jose.

LYNWOOD, Los Angeles Co., Calif.—H. C. Sommer, Commercial Welding Co., 2750 E. Norton Ave., Lynwood, is having plans prepared for a brewing plant he proposes erecting on Drury Lane, Lynwood. The plant will be housed in a one-story brick or wood frame building, covering an area of 100 x 50 feet, and will cost about \$25,000, including equipment. Mr. Sommer has had the trusses for the building made and expects to start construction within thirty days,

the work to be carried on by day labor under his supervision.

Plans To Be Prepared.
ADDITION Cost, \$2000
SOUTH SAN FRANCISCO, San Mateo Co., Cal. Bayshore Highway Steel and concrete addition to building for boiler room.
Owner—Pacific Bone, Coal & Fertilizer Co., South San Francisco.
Engineer—L. H. Nishkian, 525 Market St., San Francisco.
Contractor—MacDonald & Kahn, Financial Center Bldg., S. F.

Preparing Plans.
ALTER DISTILLERY \$160,000
SEATTLE, Wash. Westlake Avenue near Highland Drive.
Alterations and additions to distillery (add one story).

Owner—Northwest Distilleries Corp.
Architect—Carl Siebrand, 5016 21st Ave. N. E., Seattle.
Victor F. Fleischman, vice-president; Thomas P. Revelle, secretary; Carl Rubinstein, treasurer. Frank O. Granston is chairman of the board of directors of the newly organized company.

Contract Awarded.
ALTERATIONS Cost, \$2500
SAN FRANCISCO, 704 Sansome St. Alterations to warehouse.

Owner—P. De La Montanye, 704 Sansome Street.
Architect—Not Given.
Contractor—Bernard Pegel, 760 36th Avenue.

5—FLATS

Contract Awarded.
ALTERATIONS Cost, \$—
SAN FRANCISCO, SW Montgomery and Vallejo Streets.
Alterations to frame flats.
Owner—T. Brocchini, 1065 Montgomery St., San Francisco.
Architect—Not Given.
Contractor—C. V. Chiappi, 1109 Montgomery St., San Francisco.

6—GARAGES & SERVICE STATIONS

Sub-Bids Being Taken.
SERVICE STATION Cost, \$5000
BERKELEY, Alameda Co., Calif. San Pablo Ave. and Pardee St.
Super service station.
Owner and Builder—H. P. Herheim, 3278 Arizona St., Oakland.
Plans by Owner.

Contract Awarded.
ALTERATIONS Cost, \$—
COLMA, San Mateo Co., Calif. Alterations to service station (moving station back, etc.)
Owner—Standard Oil Co., 225 Bush St. San Francisco.
Plans by Engineering Dept. of Owner.
Contractor—J. A. Grant, 666 Mission St., San Francisco.

7—FEDERAL BUILDING

HAMILTON FIELD, Marin Co., Cal.—Complete list of bids received for electrical distributing system at Hamilton Field included in unit bid summary, this issue.

HAMILTON FIELD, Marin Co., Cal.—Complete list of bids received for mess building included in the unit bid summary section, this issue.

SACRAMENTO, Cal.—Until Dec. 4, bids will be received by Treasury Department, Washington, D. C., to furnish metal shelves, counters, etc., for the courthouse at Sacramento.

SOUTH SAN FRANCISCO, San Mateo Co., Calif.—Joseph Plasecke,

345 Haight St., San Francisco, at \$131+ awarded contract by Navy Department, Washington, D. C., for re-roofing building S-3 and to construct new penthouse and other alterations and repairs to building S-8 at the Naval Radio Station, South San Francisco. Spec. No. 7390.

PORTLAND, Ore.—De Luxe Metal Furniture Co., at \$209.63 submitted low bid to Treasury Purchasing Department, for metal shelving in the Post Office at Portland, Oregon. Following bids received:
De Luxe Metal Furniture Co. \$209.63
General Fireproofing Co. 230.00
Globe Wernicke Co. 279.50
Metal Office Furniture Co. 301.00
Interior Steel Equipment Co. 315.00
Jamestown Metal Equip. Co. 636.47

FAIRBANKS, Alaska—Berger Mfg. Co., at \$248.56 submitted low bid to Treasury Purchasing Department, for metal shelving for the Post Office at Fairbanks, Alaska. Following bids received:
Berger Mfg. Co. \$248.56
Lyon Metal Products Co. 250.40
Penn Metal Co. 277.16
Jamestown Metal Equip. Co. 375.52
Metal Office Furniture Co. 433.92
Worley & Co. 490.40

HAMILTON FIELD, Marin Co., Cal.—Following have prepared plans for the purpose of submitting bids to the Constructing Quartermaster, Hamilton Field, November 27, 11 A. M., to construct headquarters building at Hamilton Field:

W. Olsen, San Rafael.
Wm. Spivock, Hobart Building, San Francisco.
W. K. Jennings, San Rafael.
Young & Horstmeier, 461 Market St., San Francisco.
Dunham, Carrigan & Hayden, Kansas and Division, San Francisco.
Meyer Const. Co., 735 Portola Drive, San Francisco.
F. J. Reilly, 6350 Fulton Street, San Francisco.

Schuler & McDonald, 1723 Webster St., Oakland.
Scott Co., 243 Minna St., San Francisco.
San Francisco Const. Co., 3159 Fillmore St., San Francisco.
Azevedo & Sarmiento, 920 O Street, Sacramento.
Fred. J. Early, Jr., 265 Pine St., San Francisco.
K. E. Parker Co., 135 South Park St. San Francisco.
Hipolito Co., 4246 Holden St., Oakland.

Forderer Cornice Works, 269 Potrero Ave., San Francisco.
Harry Drake, 666 Mission St., San Francisco.
B. Evans, Monadnock Bldg., San Francisco.
Soule Steel Co., 1750 Army St., San Francisco.
Anderson & Rowe, 45 Belcher St., San Francisco.
Crane Co., 301 Brannan Street, San Francisco.
Leo Epp, 4745 Geary St., San Francisco.

Associated Hardware Co., 3860 San Pablo Ave., Oakland.
Monson Bros. 475 6th St., San Francisco.

Truscon Steel Co., Atlas Bldg., San Francisco.
Carl N. Swenson, 355 Stockton Ave., San Jose.

N. Clark & Son, 116 Natoma St., San Francisco.
H. L. Peterson, 731 Treat Ave., San Francisco.

Palace Hardware Co., 531 Market St., San Francisco.
E. H. Melencamp, Oakland.
W. G. Thompson, 336 Church St., San Francisco.

Munthe Equip. Co., 7 Front St., San Francisco.

Fred. J. Maurer, Eureka.
Pacific Coast Steel Co., 21th and Illinois Sts., San Francisco.

Reed & Reed, Hearst Bldg., San Francisco.

HAMILTON FIELD, Marin Co., Cal.
—Until December 5, 11 A. M., bids will be received by the Constructing Quartermaster, Hamilton Field, to construct photographic laboratory at Hamilton Field. Plans and specifications available from above office upon deposit of \$5.00. Copy of plans may be seen at the Builders' Exchange, 666 Mission St., San Francisco, or at the office of the Constructing Quartermaster, Fort Mason, San Francisco

DENVER, Colo.—N. O. Morrison, Denver, at \$1,050 submitted low bid to Treasury Department, Procurement Division, Washington, D. C., to construct extension to lookout system in the U. S. post office and courthouse at Denver. Following bids received: N. O. Morrison, Denver.....\$1,050
Newstrom & Davis, Denver.....1,127
Frank B. Anderson, Denver.....1,192

KEYPORT, Wash.—Until Dec. 5, bids will be received by Puget Sound Naval Yard for the construction of quarters at Puget Sound, under Spec. No. 7552.

PEARL HARBOR, T. H.—Until Jan. 3, 11 A. M., bids will be received by the Bureau of Yards and Docks, Navy Department, Washington, D. C., for two electric freight elevators and hoistway doors at the Naval Fleet Air Base, Pearl Harbor, T. H. Spec. No. 7557. Plans and specifications may be obtained from above office and from Commandant, 14th Naval District, Pearl Harbor, or from the Commandant, 12th Naval District, 100 Harrison St., San Francisco, upon deposit of \$10.00.

SEATTLE, Wash.—General Fireproofing Company, Washington, D. C., at \$17,860 awarded contract by Treasury Department, Procurement Division, Washington, D. C., for metal shelving and counters in the U. S. Federal and Office Building at Seattle.

Following bids received:
General Fireproofing Co., Washington, D. C.\$17,861
Berger Mfg. Co., Canton, O.20,600
Jamestown Metal Equip. Co., Jamestown, N. Y.22,412
Art Metal Const. Co., Washington, D. C.20,180

YOSEMITE VALLEY, Cal.—Department of Interior, National Park Service, Yosemite National Park, will prepare plans in the near future for an apartment house for four families to cost \$17,000, three residences to cost \$13,500, hospital, employees' dormitory to cost \$6,300, small garage for eight cars to cost \$1,620 for Yosemite National Park. E. M. Hilton, Park Engineer, Yosemite National Park.

Plans Being Prepared,
UTILITY BLDG. Cost, \$117,900
YOSEMITE VALLEY, Merced County, Calif.
One-story fireproof utility bldg. (concrete walls and floors, structural steel frame, hollow tile dividing walls).
Owner—U. S. Government (National Park Service).
Plans by E. M. Hilton, Park Engineer, Yosemite National Park.
Bids will be asked shortly.

SACRAMENTO, Cal.—Until 2 P. M., Dec. 4, bids will be received by the Treasury Department, Office of the Supervising Architect, Washington, D.

C., for furnishing metal shelves and counters for the Sacramento post office. No deposit required for plans.

CALIFORNIA—Postmasters in various cities will receive bids for the purchase of sites for post office buildings, as follows:

- December 11**
PITTSBURG: 14,000 sq. ft., 95 ft., \$15,000.
ORANGE: 13,000 sq. ft. 90 ft., \$15,000
REDONDO: 15,000 sq. ft. 95 ft., \$15,000
TURLOCK: 13,000 sq. ft. 90 ft., \$13,000
COLTON: 15,000 sq. ft. 95 ft., \$13,000
December 14
SAN FERNANDO: 14,500 sq. ft. 95 ft., \$15,000.
COMPTON: 15,000 sq. ft. 95 ft., \$15,000.
LA JOLLA: 12,000 sq. ft. 85 ft., \$13,000
December 18
CLAREMONT: 12,500 sq. ft. 90 ft., \$8,000.
TORRANCE: 13,000 sq. ft. 90 ft., \$15,000.
KINGMAN, ARIZONA: 10,500 sq. ft. 70 ft., \$8,000.

All bids will be opened by the postmasters at the cities above mentioned.

PEARL HARBOR, T. H.—Ralph Woolley, Honolulu, at \$65,000 awarded contract by Bureau of Yards and Docks, Washington, D. C., to construct extension to foundry building at Pearl Harbor. Spec. No. 7094. Following is complete list of bids received:

- | | |
|--|------------|
| Ralph Woolley, Honolulu.....(1) | \$ 65,000 |
| | (2) 53,567 |
| E. E. Black, Ltd. Honolulu.....(1) | \$ 65,995 |
| | (2) 53,285 |
| W. P. Thurston, Co., Richmond.....(1) | \$ 69,650 |
| | (2) 58,650 |
| Walker & Olund, Ltd., Honolulu.....(1) | \$ 71,487 |
| | (2) 60,124 |
| R. E. Finlayson, Honolulu.....(1) | \$ 71,720 |
| | (2) 59,500 |
| Hawaiian Contracting Co., Honolulu.....(1) | \$ 73,400 |
| | (2) 61,400 |
| Geo. Hess, Los Angeles.....(1) | \$ 70,450 |
| | (2) 79,450 |
| W. S. Ching, Honolulu.....(1) | \$ 88,370 |
| | (2) 76,370 |
| Moses, Honolulu.....(1) | \$105,000 |
| | (2) 95,000 |
| Jonah Kumalae, Honolulu.....(1) | \$120,531 |
| | (2) 20,000 |

FORT BLISS, Texas—J. E. Morgan & Sons, 319 Texas St., El Paso, awarded contract by War Department, at \$905,830, for construction of five two-company barracks and one barracks for 97 men at Fort Bliss.

MARCH FIELD, Riverside Co., Cal.
—Bennett & Taylor, 1978 S Los Angeles St., awarded contract by the War Department at \$4941 for construction of a radio building at March Field. It will be a 1-story structure, 22x34 ft., with concrete foundations, hollow tile walls, stucco exterior, shingle tile roof, metal sash, etc.

KAUHAU ISLAND, T. H.—Until 11 A. M., Dec. 6, bids will be received by the Bureau of Yards & Docks, Navy Dept., Washington, D. C., for constructing a sliding door building at the Naval Ammunition Depot, Kauhau Island. Plans may be obtained from the Commandant, 14th Naval District, Pearl Harbor, T. H.

FT. HUACHUCA, Ariz.—Until 2 P. M., Nov. 27, bids will be received by the Constructing Quartermaster, Ft. Huachuca, for the construction of a fire station and an ordinance magazine (separate subjects) at Ft. Huachuca. Plans may be obtained from the Constructing Quartermaster upon deposit of a certified check for \$10, payable to the Treasurer of the U. S.

SUNNYVALE, Santa Clara Co., Cal.
—William Spivock, Hobart Bldg., San Francisco, awarded the following sub-contracts in connection with the service and housing facilities for flood lights for landing fields at the Naval Air Station, Sunnyvale; Spec. No. 7259. Work includes two two-story structures with concrete foundations, frame super-structures, including steel, iron, bronze work, sheet metal work, stucco built-up roofing, plastering, aluminum rolling doors, carpentry and joinery, electrical work and installation of flood lights and their appliances and finishing.
Electric—American Electric Co.
Concrete—Urban Brothers.
Lumber—J. H. McCallum, 748 Bryant St., San Francisco.
Reinforcing Steel—Pacific Coast Steel Co., 20th and Illinois Streets, San Francisco.
Glass—W. P. Fuller & Co., 301 Mission St., San Francisco.
Hardware—Marshall Newell Co., Spear and Mission Sts., San Francisco.
Roofing—Alta Roofing Co., 976 Indiana St., San Francisco.
Sheet Metal—Guilfooy Cornice Works, 1234 Howard St., San Francisco.
Structural Steel—Golden Gate Iron Works, 1541 Howard St., S. F.
Aluminum Doors—Acme Partition Co., 3535 Peralta St., Oakland.
Painting—A. A. Zelinsky, 4420 California St., San Francisco.

BREMERTON, Wash.—K. E. Parker Co., 135 South Park St., San Francisco, awarded masonry contract to Hoek & Hoffmeyer, 666 Mission St. San Francisco, in connection with the construction of the machine and electric shop building under Spec. No. 7338. Structure will be 805 ft. long, 251 ft. wide and 95 ft. high.
Miscellaneous Iron—Polson St. Iron Works, 17th and Missouri Streets, San Francisco.
Roofing—Alta Roofing Co., 976 Indiana St., San Francisco.
Plastering—Jas. F. Smith, 271 Minna St., San Francisco.
Other awards reported Oct. 30.

SAN YSIDRO, San Diego Co., Cal.
—Herbert M. Baruch Corp., 625 South Olive St., Los Angeles, and Highbridge International Co., New York City, have procured plans for the purpose of submitting bids to the Treasury Department on Dec. 7 for the construction of custom and immigration shelter for the U. S. Inspection Station at San Ysidro.

CALIFORNIA, Washington, Oregon and Arizona.—Public Works Administration allotted funds for the following public buildings in California, Washington, Oregon and Arizona:
Redondo Beach, \$73,700.
Huntington Beach, \$52,800.
Woodland, \$69,900.
Madera, \$50,600.
Inglewood, \$107,300.
Torrance, \$63,800.
Claremont, \$51,700.
Hollywood, \$214,500.
Redwood City, \$66,600.
Oceanside, \$55,000.
Orange, \$64,900.
La Jolla, \$59,500.
Bell, \$38,300.
Santa Paula, \$52,800.
Salinas, \$83,600.
San Gabriel, \$57,200
El Monte, \$48,500.
Turlock, \$63,800.
San Fernando, \$72,600.
Pittsburg, \$68,200.
San Rafael, \$64,800.
Compton, \$77,000.
Winslow, Ariz., \$49,500.
Montesano, Wash., \$56,300.
Hood River, Ore., \$61,600.
Marshfield, Ore., \$92,400.
Kingman Ariz., \$44,000.
Hillsboro, Ore., \$50,200.

HAMILTON FIELD, Marin Co., Cal.—Following bids received by the Constructing Quartermaster, Hamilton Field, to furnish and install linoleum in kitchens and pantries of twelve company officers' quarters at Hamilton Field:

W. & J. Sloane, San Francisco (A gauge), \$338.18; (D gauge), \$373.80.
J. E. Higgins Lumber Co., San Francisco (D gauge), \$460.
Venor Co., San Francisco (D gauge), \$347.

Robert E. Ellison, Petaluma (C gauge), \$413.30; (D gauge), \$382.90
D. N. & E. Walter, San Francisco (D gauge), \$406.84.
Bids held under advisement.

Plans Being Figured—Bids Close Dec. 12.

BUILDINGS Cost, \$—
ALBROOK FIELD, Canal Zone.
Construct fire house, guard house, dispensary, garage, warehouse and headquarters and operations bldg. Owner—United States Government.
Plans by Constructing Quartermaster, Albroke Field, Canal Zone.

Bids will be received and opened by the Constructing Quartermaster, Fort Mason, San Francisco; Constructing Quartermaster, New York City and Department Quartermaster, Quarry Heights, Canal Zone. Plans and specifications will be available from the above mentioned offices.

DENVER, Colo.—W. O. Morrison, Denver, submitted the low bid to the Treasury Department on Nov. 17, at \$1054 for extensions to lookout system in the Denver post office.

HAMILTON FIELD, Marin Co., Cal.—Meyer Constr. Co., 735 Portola Dr., San Francisco, awarded the following sub-contracts in connection with the construction of the ten type "A" field officers' quarters, and five type "D" company officers' quarters and five type "E" officers' quarters, including all utilities at Hamilton Field. Contract price, \$324,000:

Grading—Marin Rock Co., Fairfax.
Concrete—Basalt Rock Co., Napa.
Reinforcing Steel—Soule Steel Co., 1750 Army St., San Francisco.
Excavation—Robert A. Farish, 14 Pinehurst Way, San Francisco.
Brick and Tile—Harry Drake, 666 Mission St., San Francisco.
Electric—W. K. Jennings, 58 Spring Grove Ave., San Rafael.
Finish Hardware—Palace Hardware Co., 581 Market St., San Francisco
Hardwood Floors—Golden Gate Floor Co., 737 Lisbon St., San Francisco
Glass—W. F. Fuller Co., 301 Mission St., San Francisco.

HAMILTON FIELD, Marin Co., Cal.—San Francisco Constr. Co., 3159 Fillmore St., San Francisco, awarded the following sub-contracts in connection with the construction of a one-story concrete maintenance building and one-story quartermaster warehouse at Hamilton Field. Contract price, \$28,331.

Lumber—Roth Maier, 2800 Third St., San Francisco.
Concrete—Basalt Rock Co., Napa.
Other awards will be made shortly.

SAN FRANCISCO—Venor Co., 36 Sacramento St., at \$260 awarded contract by Constructing Quartermaster, Fort Mason to furnish and lay linoleum in officers' quarters at Fort Mason.

8— CLUB BUILDINGS

Contract Awarded.
LODGE Cost, \$11,000
PITTSBURG, Contra Costa Co., Cal.
School and Norton Streets.

Two-story frame and stucco Masonic temple (lodge rooms, club room, banquet hall, etc.

Owner—Pittsburg Lodge No. 429, F. & A. M. (W. G. Buchanan, Master).
Architect—Not Given.
Contractor—G. E. Seeno, 150 E 2nd St. Pittsburg.

Contract Awarded.
ALTERATIONS Cost, \$3000
SAN FRANCISCO, 385 Geary Street.
Alterations to club.
Owner—Montatre Social Club, 385 Geary Street.
Architect—Not Given.
Contractor—Fink & Schindler Co., 552 Brannan Street.

9— HOSPITALS

Contracts Awarded.
HOSPITAL Cont. Price, \$404,536
CAMARILLO, Ventura Co., Cal.

Three two-story reinforced concrete hospital buildings (units 2, 3 and 4) reinforced concrete walls, foundations, floors and roofs.

Owner—State of California.
Architect—Geo. B. McDougall, State Architect, Public Works Building, Sacramento.

Contractor—Louis A. Gelsler, 6212 Middleton St., Huntington Park.
Plumbing—Carpenter & Mendenhall, 907 Front St., Sacramento, at \$36,745.

Heating and Ventilating—Carpenter & Mendenhall, 907 Front St., Sacramento, at \$39,621.

Electric—H. O. Bauerle, 9039 Washington Bldg., Los Angeles, at \$13,875.

HAMILTON FIELD, Marin Co., Cal.—Following have procured plans for the purpose of submitting bids to the Constructing Quartermaster, Hamilton Field on Nov. 28, 11 A. M., to construct a hospital and detachment barracks building at Hamilton Field:
Young & Horstmeyer, 461 Market St., San Francisco.

W. Olsen & Sons, 617 I St., Petaluma.
William Spivock, Hobart Bldg., San Francisco.

W. K. Jennings, 58 Spring Grove San Rafael.
Concrete Engineering Co., 1450 Mirasol Ave., Los Angeles.

Dunham, Carrigan & Hayden, Kansas and Division Sts., San Francisco.
Frank J. Reilly, 6350 Fulton St., San Francisco.

Fred J. Early Jr., 369 Pilne St., San Francisco.
Schuler & McDonald, 1723 Webster St., Oakland.

Azevedo & Sarmento, 920 O St., Sacramento.
San Francisco Constr. Co., 3159 Fillmore St., San Francisco.

Plans Being Completed.
HOSPITAL Cost, \$90,000
REDDING, Shasta Co., Cal.

Two-story reinforced concrete hospital 24x36; 50 beds, 3 operating rooms) tile and composition roof, tile floors, linoleum, steam heating system, cooling system, etc.

Owner—County of Shasta.
Architect—Otto Deichmann, 110 Sutter St., San Francisco.

Bids will be asked about Dec. 15. \$73,000 is available and application has been made of \$30,000 to the Public Works Administration.

RIVERSIDE, Riverside Co., Calif.—Until 10 A. M., Dec. 4, bids will be received by the Riverside county supervisors for a tuberculosis convalescent cottage to be erected on grounds of the Riverside county hospital. Cash, cashier's check, certified check or bidder's bond in the sum of 10% must accompany each bid. Plans may be ob-

tained from Architect G. S. Wilson, 3616 Main St., Riverside, upon deposit of \$25. D. G. Clayton, county clerk.

SAN JACINTO, Riverside Co., Cal.—Mission Indian Agency Hospital, San Jacinto, is scheduled for an addition to cost \$25,000. It is understood the new unit will house nurses' living quarters, a surgical ward and offices.

To Be Done By Day's Work.
ADDITION Cost, \$30,000
STOCKTON, San Joaquin Co., Cal.
State Hospital Grounds.

Reinforced concrete wing addition to Cottage "A".

Owner—State of California.
Architect—George B. McDougall, Public Works Building, Sacramento.

SAN FRANCISCO—Until Nov. 28, 12 Noon, bids will be received by Custodian, U. S. Marine Hospital, 14th Ave. and Lake St., for modifying control of freight elevator in the main building of the Marine Hospital, 14th Ave. and Lake St. Plans and specifications available from above office. Following have procured plans:

Otis Elevator Co., 1 Beach St.
Golden Gate Elevator Co., 824 Folson St.

B. C. Van Emon Elevators, Inc., 224 Fremont St.

Spencer Elevator Co., 166 7th St.

MADERA, Cal.—County of Madera will hold an election on December 19, to vote bonds in the amount of \$70,000 to finance construction of a new county hospital and almshouse.

MESA, Ariz.—Architects Lescher & Mahoney, 1100 Title & Trust Bldg., Phoenix, Arizona, are preparing preliminary plans for a proposed 30-bed hospital to be erected at Mesa for the Mesa Community Hospital Assn. Application will be made to the Public Works Administration for a loan of \$46,550 and a grant of \$18,450 with which to finance construction of the building.

LONG BEACH, Cal.—J. Fuerstein, 2101 Magnolia Ave., Long Beach, will superintend the construction of a 1-story maternity hospital at the corner of 25th and Magnolia Ave., Long Beach, for Dr. Chas. R. Portevin. Plans were prepared by H. H. Lochridge, 304 Orziba St., Long Beach. It will cover an area of 80x134 ft. and provide 34 beds, kitchen, nursery, operating rooms, offices etc. Construction will be frame and stucco, tile and composition roofing, linoleum floors, gas unit heating system, tile showers, vitrolite work, toilets, steel sash, cabinet work, etc. Cost, \$15,000.

HAMILTON FIELD, Marin Co., Cal.—Following have procured plans for the purpose of submitting bids to the Constructing Quartermaster, Hamilton Field, on November 28, 11 A. M., to construct hospital and detachment barracks building at Hamilton Field:
Earl W. Heple, 494 Delmas Street, San Jose.

Reilly & Grace, 703 Market St., San Francisco.
F. W. Snook, 596 Clay St. San Francisco.

W. Olsen, San Rafael.
Wm. Spivock, Hobart Building, San Francisco.

W. K. Jennings, San Rafael.
Young & Horstmeyer, 461 Market St., San Francisco.

Dunham, Carrigan & Hayden, Kansas and Division, San Francisco.
Meyer Const. Co., 735 Portola Drive, San Francisco.

F. J. Reilly, 6350 Fulton Street, San Francisco.
more St., San Francisco.

Schuler & McDonald, 1723 Webster St., Oakland.	(3) 355,000
Scott Co., 243 Minna St., San Francisco.	(4) 385,000
San Francisco Const. Co., 3159 Fill-Azevedo & Sarmiento, 920 O Street, Sacramento.	(5) 5,000
Fred. J. Early, Jr., 269 Pine St., San Francisco.	Coath & Goss, Chicago.....(1) \$324,700
K. E. Parker Co., 135 South Park St., San Francisco.	(2) 367,400
Hipolito Co., 4246 Holden St., Oakland.	(3) 397,409
Ponderer Cornice Works, 269 Potrero Ave., San Francisco.	(4) 427,200
Harry Drake, 666 Mission St., San Francisco.	(5) 4,900
B. Evans, Monadnock Bldg., San Francisco.	James McHugh Sons, Chi-
Soule Steel Co., 1750 Army St., San Francisco.	cago (1) \$369,000
Anderson & Rowe, 45 Belcher St., San Francisco.	(2) 305,000
Crane Co., 301 Brannan Street, San Francisco.	(3) 430,000
Leo Epp, 4745 Geary St., San Francisco.	(4) 465,000
Associated Hardware Co., 3869 San Pablo Ave., Oakland.	(5) 2,000
Monson Bros. 475 6th St., San Francisco.	Bids held under advisement.
Truscon Steel Co., Call Bldg., San Francisco.	
Carl N. Swenson, 355 Stockton Ave., San Jose	
N. Clark & Son, 116 Natoma St., San Francisco.	
H. L. Peterson, 731 Treat Ave., San Francisco.	
Palace Hardware Co., 581 Market St., San Francisco.	
E. H. Mellencamp, Oakland.	
W. G. Thompson, 336 Church St., San Francisco.	
Munthe Equip. Co., 7 Front St., San Francisco.	
Fred. J. Maurer, Eureka.	
Pacific Coast Steel Co., 20th and Illinois Sts., San Francisco.	
Reed & Reed, Hearst Bldg., San Francisco.	

.....(3) 355,000
.....(4) 385,000
.....(5) 5,000
Coath & Goss, Chicago.....(1) \$324,700
.....(2) 367,400
.....(3) 397,409
.....(4) 427,200
.....(5) 4,900
James McHugh Sons, Chi-
cago (1) \$369,000
.....(2) 305,000
.....(3) 430,000
.....(4) 465,000
.....(5) 2,000

10—HOTELS

LONG BEACH, Los Angeles Co., Cal.—Title Insurance & Trust Co., 433 S. Spring St., Los Angeles, representatives of the bond holders of the Breakers Hotel, have taken preliminary bids for reconditioning the Breakers Hotel on Ocean Ave., Long Beach. Plans were prepared by John A. Dunham, 200 E. Ocean Blvd., Long Beach, engineer. The work will consist of reinforced concrete, reinforced gunite, plastering, painting and decorating, plumbing, electric wiring, tile and marble work, structural steel, etc. Cost, \$100,000.

PEARL HARBOR, T. H.—Starr Iron & Steel Co., Tacoma, Washington, at \$257,480 awarded contract by Bureau of Yards and Docks, Navy Department, Washington, D. C., to furnish and erect four cranes at Pearl Harbor Navy Yard. Specification No. 7419.

Preparing Sketches.
DORMITORIES Cost, \$100,000
PALO ALTO, Santa Clara Co., Calif.
 Campus of Stanford University.
 Four two-story frame and stucco dormitories (each to house 50 women) two dining rooms, steam heating extension from main plant, tile roof, etc.
 Owner—Stanford University.
 Architect—John Bakewell, Jr., and Arthur Brown, Jr., associated, 251 Kearny St., San Francisco.

TRUCKEE, Nevada Co., Calif.—The Riverside Hotel in Truckee was destroyed by fire Nov. 29. Building was a three-story structure and loss is estimated at \$15,000.

**13—PUBLIC BUILDINGS
FIRE HOUSES & JAILS**

REDWOOD CITY, San Mateo Co., Cal.—Until December 4 2 P. M., bids will be received by E. B. Hinman, Clerk of the Board of Supervisors, Courthouse, Redwood City, for alterations and reconstruction of certain portions of the San Mateo County Courthouse. Plans and specifications available from above office. Will H. Toepke, 74 New Montgomery St., San Francisco, architect.

Additional Sub-Contracts Awarded.
MEMORIAL BLDG.
SAN LEANDRO, Alameda Co., Cal.
 Bancroft Ave. near Estudillo.
 Two-story reinforced concrete Veterans' Memorial Building (100x125 feet) tile roof, steam heating system.
 Owner—County of Alameda.
 Architect—H. H. Meyers, Kohl Bldg., San Francisco.
 Contractor—Geo. Petersen, 1841 Bancroft Ave., San Leandro.
Linoleum—Daahl Thoms, Co., 2335 Broadway, Oakland.
Shades—Tri-City Window Shade Co., 1127 Third Ave., Oakland.
 Other awards previously reported.

SANTA ANA, Orange Co., Calif.—Santa Ana will hold a special elec-

tion on Dec. 19 for the purpose of voting on a \$70,000 bond issue to finance the construction of a new city hall. The ballot will carry a provision that the bonds will not be sold unless the Federal government guarantees to grant \$30,000 on the project.

YUBA CITY, Sutter Co., Cal.—Yuba City has abandoned the idea of holding an election on December 19 to finance construction of a new city hall; \$30,000 was the amount to have been voted.

November 20, 1933

To Ask Funds.
ADDITION Cost, \$90,000
VISALIA, Tulare Co., Calif.
 3½-story addition to courthouse (central heating plant) approx. 20,000 sq. ft. of floor space.
 Owner—County of Tulare.
 Architect—Ernest J. Kump, Rowell Bldg., Fresno.
 Structural Engineer—F. W. Kellberg, 320 Market St., San Francisco.
 County of Tulare will make a new request for funds from the Public Works Administration.
 (1176) 1st report April 13; 5th, Oct.

NEVADA CITY, Nevada Co., Cal.—City will remodel city hall as soon as funds are available. A new plate glass front will be installed, new entrance, etc.

Being Done By Day's Work.
ALTERATIONS Cost, \$—
ALAMEDA, Alameda Co., Calif. Oak St. and Santa Clara.
 Alterations to frame city hall.
 Owner—City of Alameda.
 Plans by Engr. Department of Owner.

SACRAMENTO, Cal.—City of Sacramento has applied to the Public Works Administration for a grant of \$19,320 to be used in financing the construction of a 3-story, reinforced concrete addition to the Sacramento city hall. Total cost of the addition is estimated at \$70,000. Harry J. Devine, California State Life Bldg., Sacramento, architect.
 (7193) 1st report Dec. 31, 1932; 4th.

OAKLAND, Cal.—Oakland City Council has reduced the amount of the bond issue for the construction of the library to be presented to voters on December 19, to \$802,000. The original amount was \$975,000.

PETALUMA, Sonoma Co., Cal.
 David Gutermute, Petaluma, at \$180 awarded contract by City Council for cleaning, wire-brushing and painting roof, tower and entrance balcony of the City Hall. Following bids received:
 David Gutermute, Petaluma.....\$180.00
 H. L. Mero, Petaluma..... 225.00
 A. B. Conner, Petaluma..... 197.50

To Ask Bids In About One Week.
ADDITION Cost, \$15,000
WATSONVILLE, Santa Cruz Co., Cal.
 Reinforced concrete and structural steel addition to public library, (40 by 60 ft.) composition and shingle roofing and remodel present bldg.
 Owner—City of Watsonville.
 Architect—A. W. Story, Pajaro Valley Bank Bldg., Watsonville.
 Public Works Administration allotted \$3700 to the city to help finance construction of building.

OAKLAND, Cal.—County of Alameda will hold an election on Dec. 19, at which time bonds will be voted in the amount of \$1,712,000 to finance construction of a county court house and hall of records.

FLORENCE, Ariz.—Architects Lescher & Mahoney, 1100 Title & Trust Bldg., Phoenix, Ariz., are preparing sketches for a proposed new juvenile

penitentiary to be built in Florence for the State of Arizona. Estimated cost \$500,000. Application will be made to the Public Works Administration for a loan of the funds necessary to finance construction.

Prospective Bids.

MEMORIAL. Cost, \$54,000
WATSONVILLE, Santa Cruz Co., Cal. Two-story reinforced concrete and structural steel Veterans' Memorial (90x170 ft.) will contain auditorium to seat 1500; club rooms, etc.; tile and composition roofing, hot air heating system, hardwood and tile floors, public address system, stage, etc.

Owner—County of Santa Cruz.
 Architect—A. W. Story, Pajaro Valley Bank Bldg., Watsonville.

Plans and specifications available from the architect upon deposit of \$2. Following have procured plans. Bids open December 7, 2:30 P. M.

A. L. Short, Box 343, Watsonville.
 P. T. Wallstrum, 854 Main St., Watsonville.

K. E. Parker Co., 135 South Park, San Francisco.

H. H. Larsen, 64 South Park, San Francisco.

N. H. Sjoberg, 250 11th St., San Francisco.

Carl N. Swenson, 355 Stockton Ave., San Jose.

Scott Co., 243 Minna St., San Francisco.

William Spiyock, Hobart Bldg., San Francisco.

W. J. Ochs, American Trust Bldg., San Jose.

Friend & Raisch, Watsonville.
 Fred Hicks, Watsonville.

Low Bidder.

CITY HALL. Cost, \$32,475
HUNTINGTON PARK, Los Angeles Co., Calif.

Repair and construct addition to city hall (concrete and brick construction, composition roof, steel sash, vault door, sheet metal work, oak and linoleum floors, etc.)

Owner—City of Huntington Park.
 Architect—Not Given.

Low Bidder—Cranford Const. Co., 3050 Flower St., Huntington Park.

OAKLAND, Alameda Co., Cal. — Oakland City Council appropriated \$4800 to purchase site on upper Park Blvd. near Wellington St. for a future branch library. Funds for the construction may come from the library bond issue or may be appropriated out of the library budget. More definite information will be given at a later date.

Bids Wanted—To Close Dec. 4, 5 P. M.
ALTER FIREHOUSE. Cost, \$7500
STOCKTON, San Joaquin Co., Calif. Remodel interior of fire house (work involves carpentry work, plastering small amount of cabinet work, lockers, etc.)

Owner—City of Stockton.
 Architect—Not Given.

14— RESIDENCES

Contract Awarded.
RESIDENCE. Cost, \$5000

OAKLAND, Alameda Co., Cal. No. 4123 Oakmore Road

One-story and basement frame and stucco residence (6 rooms)

Owner—F. P. Hessinger, 316 17th St., Oakland.

Architect—Not Given.

Contractor—Leo J. Dolan, 316 17th St., Oakland.

To Be Done By Day's Work.

RESIDENCE. Cost, \$5000
OAKLAND, Alameda Co., Calif. 3962 Oakmore Road.

One-story and basement frame and stucco residence (6 rooms).

Owner and Builder—Weldon H. Warren, 3502 Foothill Blvd., Oakland.
 Architect—Not Given.

Contract Awarded.

RESIDENCE. Cost, \$6495

SAN FRANCISCO. Mallorca Way bet. Capra Way and Beach Street.

Two-story and basement frame and stucco residence (8 rooms and 2 baths) composition roof, gas heating system, hardwood floors, etc.

Owner—Ben Sellinger.

Architect—Geo. Ralph, 110 Sutter St.
 Contractor—Louis Franceschi, 100 Capra Way.

Contract Awarded.

ADDITIONS, ETC. Cost, \$5500
SANTA ROSA, Sonoma Co., Cal. No. 252 Lincoln St.

Alterations and additions to residence (add 2 rooms, new plumbing and general alterations).

Owner—W. A. Maddy, Premises.
 Architect—Herbert & Caulkins, Rosenberg Bldg., Santa Rosa.

Contractor—Louis Halversen, 128 Dutton Ave., Santa Rosa.

Contract Awarded.

RESIDENCE. Cost, \$4050
SAN FRANCISCO. Cayuga Ave. and Tingley St.

One-story and basement frame and stucco residence (5 rooms); patio, laundry in basement, etc.

Owner—Louis and Josephine T. Depaoli, 3289 Mission St., S. F.
 Plans by T. E. Jensen.

Contractor—Claude T. Lindsay, 140 Duboce Ave., San Francisco.

Contract Awarded.

RESIDENCE. Cost, \$5000
BERKELEY, Alameda Co., Cal. No. 920 Grizzley Peak Blvd.

Two-story frame and stucco residence (5 rooms).

Owner—Berkeley Hillside Properties Company.

Architect—Not Given.

Contractor—W. A. Netherby, 3853 Lyman Road, Oakland.

Contract Awarded.

RESIDENCE. Cost, \$3000
REDWOOD CITY, San Mateo Co., Cal. 235 Standish Street.

One-story frame and stucco residence (4 rooms).

Owner—Henry Murrello.

Architect—Not Given.

Contractor—L. M. Dunean, 1203 Arguello, Burlingame.

Contract Awarded.

RESIDENCE. Cost, \$6000
SAN FRANCISCO. SW Geneva Ave. and Naples Street.

Two-story frame and stucco residence.

Owner—Carl Klinger.

Architect—Not Given.

Contractor—Ernest Lombardi, 1218 Hollister St., San Francisco.

Low Bidder.

RESIDENCE. Cost, \$12,000
SAN RAMON HEIGHTS, Walnut Creek, Contra Costa Co., Cal.

Two-story and basement frame California Colonial style residence (10 rooms and 3 baths), 2-car garage; terra cotta roof, brick, tile and wood exterior, steel sash, oak plank floors, oil hot air heating system, electric refrigeration, etc.

Owner—R. W. Lowe.

Architect—Not Given.

Contractor—Ernest Petersen, 3918 Linwood St., Oakland.

Preparing Working Drawings.

RESIDENCE. Cost, \$6000
SAN FRANCISCO. Stockton and O'Farrell Sts.

Architect—Edwin L. Snyder, 2101 Ad-

One-story precast residence (5 rooms and breakfast room; penthouse on roof of 9-story department store building); hot air heating system, etc.

Owner—O'Connor Moffatt & Co., 14 Emises.

Architect—O. A. Deichmann, 110 Sutter St., San Francisco.

Landscape gardening, gas, enclosed dining terrace, etc.

Completing Plans.

RESIDENCE. Cost, \$10,000
BERKELEY, Alameda County, Calif. Stonewall Road.

Two-story and basement frame and stucco residence (9 rooms and 3 baths) shake roof, oil heating system, hardwood floors and trim, electric refrigeration.

Owner—Withheld.

Architect—E. L. Snyder, 2101 Addison St., Berkeley.

Bids will be asked in about one week.

Contract Awarded.

RESIDENCES. \$4500 each
SAN FRANCISCO. E Cayuga S Tingley St.

Two one-story and basement frame and stucco residences.

Owner—L. Depaoli, 3289 Mission St., and Angelo Ferrari, 413 Paris St.

Architect—Not Given.

Contractor—C. L. Lindsay, 140 Duboce Ave., San Francisco.

Preparing Working Drawings.

RESIDENCE. Cost, \$20,000
SAN FRANCISCO. Divisadero Street near Pacific Avenue.

Two-story and basement frame and stucco residence.

Owner—Stanley Sinton, 133 Montgomery Street.

Architect—Willis Polk Co. (Angus McSweeney, architect) 277 Pine St.

Bids will be asked shortly.

Contract Awarded.

RESIDENCE. Cost, \$5000
SAN FRANCISCO. E Baker St. 72 S Filbert Street.

Owner—J. Ferrua, 2814 Baker St., San Francisco.

Architect—Not Given.

Contractor—T. Damico, 2345 Polk St., San Francisco.

To Be Done By Day's Work.

RESIDENCE. Cost, \$4000
OAKLAND, Alameda Co., Calif. 34 Oval Road.

One-story and basement frame and stucco residence (5 rooms).

Owner—J. S. Wiggins, 5733 Grisborne Ave., Oakland.

Architect—Not Given.

Contract Awarded.

ALTERATIONS. Cost, \$1500
SAN FRANCISCO. SW Montgomery and Vallejo Streets.

Alterations to 3-story and basement frame residence (work involves brick work, carpentry, glass, mill work, plastering, painting, etc.)

Owner—I. Brochini.

Architect—Not Given.

Contractor—C. Chiappa, 1109 Montgomery Street.

Plans Being Revised.

RESIDENCE. Cost, \$4500
OAKLAND, Alameda Co., Calif. Idora Park Tract.

One-story frame and stucco residence (5 rooms and sleeping porch) tile roof, gas heating system, hardwood floors, etc.

Owner—Harry Stone, 1072 61st Street, Oakland.

Plans by W. W. Dixon, 1844 5th Ave., Oakland.

New bids will be asked shortly.

Sub-Bids Wanted.
RESIDENCE Cost, \$10,000
SAN FRANCISCO. Forty-eighth Ave. near Anza Street.
 Two-story frame and stucco residence (7 rooms and 2 baths) part tile and gravel roof, gas heating system, hardwood floor, Oregon pine or mahogany trim, etc.
 Owner—George Satchell.
 Architect—A. A. Cantin, 357 Market St., San Francisco.
 Contractor—Hannah & Wooldridge, 268 Market St., San Francisco.
Grading and Cement—D. Segheris & Co., 33 Cook St., San Francisco.
Lumber—Roth Maier Co., 1200 Third St., San Francisco.
Plastering—John Eshia, 780 32nd Ave., San Francisco.
Roofing—Fiberstone Roofing Co.
 Sub-bids are wanted on sheet metal, patent chimney, rough hardware, deadening and building paper, glass, tile work, miscellaneous iron, painting, electrical work, heating, mill work oak flooring, stairs, steel sash.

Sub-Contracts Awarded.
RESIDENCE Cost, \$6800
BERKELEY, Alameda Co., Cal. Alta Road and Spruce St.
 One-story and basement frame and brick veneer residence (6 rooms, 2 baths) shake roof, gas hot air heating system, hardwood floors.
 Owner—Frank H. White.
 Architect—Not Given.
 Contractor—F. W. Confer, 2800 Shasta Road, Berkeley.
Lumber—Tilden Lumber Co., Foot of University Ave., Berkeley.
Concrete—Golden Gate Stucco Co., 1280 Monterey St., Berkeley.
Excavation—J. Henry Harris, 2008 Roosevelt St., Berkeley.

To Be Done By Day's Work.
RESIDENCE Cost, \$5000
OAKLAND, Alameda Co., Cal. No. 1872 Leimert Blvd.
 Two-story frame and stucco residence (6 rooms).
 Owner and Bullder—Paul H. Haller, 1825 Curtis St., Berkeley.
 Architect—Not Given.

Construction Postponed Indefinitely
RESIDENCE Cost, \$8500
BAYWOOD, San Mateo Co., Cal.
 Two-story frame and stucco Spanish style residence (8 rooms) tile roof steel sash, brick chimney, gas hot air heat.
 Owner—Withheld.
 Architect—C. H. Treichel, 679 Had-don Road, Oakland.

Contract Awarded.
RESIDENCE Cost, \$—
SAN LEANDRO, Alameda Co., Cal. S Glen Drive E Chetland Road.
 One and one-half-story frame and stucco residence (English style) shingle roof, gas heating system, hardwood floors, etc.
 Owner—Ellen T. S. Mauzy.
 Architect—Not Given.
 Contractor—Stanley Davis, 19 Downey Place, San Leandro.

OAKLAND, Calif.—W. G. Corlett, Bank of America Bldg., Oakland, has been commissioned by Oakland Board of Education as consulting architect and engineer to work with the State Department of Architecture to make a complete survey of the Oakland school buildings.

Contract Awarded.
RESIDENCE Cost, \$3742
SANTA CLARA, Santa Clara Co., Cal. White Road.
 One-story frame and stucco residence
 Owner—Chas. and Sebastino Borello.
 Plans by Mathew Bodem, 1268 Mag-nolia St., Santa Clara.

Contractor—T. A. Eastridge, Santa Clara.

Construction Postponed Until Spring.
RESIDENCE Cost, \$4000
LAFAYETTE, Contra Costa Co., Cal.
 One-story adobe brick residence (7 rooms and 2 baths) terra cotta tile roof, redwood floors, hot water-oil fuel heating system, etc.
 Owner—D. E. Hutton, 2223 Stuart St., Berkeley.
 Architect—Blaine & Olson, 1801 Frank-lin St., Oakland.
 Contractor—W. James Johnston, 1801 Franklin St., Oakland.
 Construction will go ahead next spring.

Plans Being Completed.
RESIDENCE Cost, \$—
SANTA CRUZ, Santa Cruz Co., Cal.
 Two-story and basement frame, brick veneer, stucco residence (8 rooms and 3 baths) split shake roof, gas hot air heating system, steel sash, hardwood floors, etc.
 Owner—Dr. and Mrs. S. B. Randall, % Architect.
 Architect—W. W. Wurster, 260 Cali-fornia St., San Francisco.
 Bids will be asked in about one week.

Completing Plans.
RESIDENCE Cost, \$—
ROSS, Marin Co., Cal.
 One-story and basement frame resi-dence (six rooms and two baths); rustic type, redwood exterior, wood sash, gas hot air heating system, tiled baths, etc.
 Owner—Mr. and Mrs. G. J. Seebe, % Archtitect.
 Architect—W. W. Wurster, 260 Cali-fornia St., San Francisco.
 Bids will be asked in about one week.

Sub-Contracts Awarded.
RESIDENCE Cost, \$10,000
BERKELEY, Alameda Co., Cal. El Dorado Road.
 Two-story and basement frame and stucco residence (9 rooms and 2 baths) tile roof, gas hot air heat-ing system, hardwood floors, etc.
 Owner—R. E. Wolfe, 6436 Hille-gass Ave., Berkeley.
 Architect—E. L. Snyder, 2101 Addison St., Berkeley.

Contractor—Ernest Urch, 1924 50th Ave., Oakland.
Millwork—Melrose Lumber & Supply Co., 1201 46th Ave., Oakland.
Lumber—Sunset Lumber Co., 400 High St., Oakland.
Plumbing—Ambrose Bros., 206 Chu-malia Ave., San Leandro.
Electric—Fred Schmidts, 430 Moss Ave., Oakland.
Concrete—Reichel & Bredhoff, 1555 Central Ave., Alameda.
Hardware—Simon Hardware Co., 639 Broadway, Oakland.
Brick—A. B. McMurtry, 6326 Broad-way Terrace, Oakland.
Steel Sash—Michel & Pfeffer Iron Works, Inc., 10th and Harrison Sts., San Francisco.

Interior Tile Work—Moir Tile Co., 3724 Brookdale Ave., Oakland.
Flooring—Ambrose Bros., 48th Avenue Oakland.
Heating and Sheet Metal—California Furnace Co., 4801 E-14th St., Oak-land.
Plastering—C. E. Davidson, 3357 Jordan Road, Alameda.
Painting—R. E. O'Brien, 2151 Buena Vista Ave., Alameda.
Ornamental Iron Works—Ed Mueller Wrought Iron Works, 1728 San Pablo Ave., Berkeley.

SAN FRANCISCO—San Francisco Construction Co., 3159 Fillmore St., at \$2110 submitted low bid to Coast

Guard, Government Island, Oakland, for the construction of alterations and additions to cottage at the Golden Gate Coast Guard Station, San Francisco. Following bids received:
 San Francisco Constr. Co. \$2110
 Clinton-Stephenson Constr. Co. ... 2242
 J. Harold Johnson 2289
 William Spivock 2561
 C. L. Wold 2677
 Leo Epp 2695
 Julius Grodem 2721
 Daniel O'Neill 2772
 Herman Ahlgren 3244
 L. Solomon 3695
 Bids held under advisement.

Contract Awarded.
RESIDENCE Cost, \$25,000
SAN FRANCISCO, NE Pacific Ave. and Divisadero St.
 Two-story, basement and attic frame and stucco residence (13 rooms and 4 baths).
 Owner—Paul Bissinger, 3885 Jackson St., San Francisco.
 Architect—Angus McSweeney, 277 Pine St., San Francisco.
 Contractor—A. F. Mattock, 212 Clara St., San Francisco.

Preparing Working Drawings.
RESIDENCE Cost, \$7500
WALNUT CREEK, Contra Costa Co.
 Two-story frame and brick Spanish style residence (6 rooms, 2 baths) 2-car garage; steel sash, brick exterior, tile roof, etc.
 Owner—Earl Barnett.
 Architect—Edwin L. Snyder, 2101 Ad-dison St., Berkeley.
 Bids will be asked in about 2 weeks.

OAKLAND, Calif.—Following is a partial list of the residences destroyed by fire Nov. 13:
 Miss Elizabeth Patterson, home at 3077 Mt. Blvd., total loss; G. R. Fitz-gerald home at 2970 Mt. Blvd., \$200 damage; Mrs. Edith Edwards, home at 3069 Mt. Blvd., total loss; S. A. Pratt, 2730 Mt. Blvd., roof damaged; R. H. Peterson, 2734 Mt. Blvd., roof damaged.

Bids Rejected.
RESIDENCE Cost, \$6003
BURLINGAME, San Mateo Co., Cal. Elm Avenue.
 1½-story frame and stucco residence (6 rooms, 2 baths) shake roof, warm air heating system, tiled baths, etc.
 Owner—Tom Dick.
 Architect—Chester Treichel, 679 Had-don Road, Oakland.
 Whether or not new bids will be asked is undetermined at this time.

15— SCHOOLS

Planned.
REPAIR SCHOOL Cost, \$114,000
SAN FRANCISCO. Geary and Scott Streets.
 Repair Girls' high school (interior bracing, replace masonry, etc.)
 Owner—City and County of San Fran-cisco.
 Plans by Bureau of Architecture (C. Sawyer, architect), City Hall.
 Bids will be asked in the near fu-ture.

SAN FRANCISCO—Until Dec. 6, 2:30 P. M., bids will be received by S. J. Hester, Chief Deputy Director, Department of Public Works, 251, City Hall, for exterior painting of the Sarah B. Cooper School, located on the southwest corner of Lomhard and Jones Sts. Estimated cost \$1500.

LONG BEACH, Los Angeles Co., Cal.—Long Beach board of education has approved preliminary plans and will apply to Federal Public Works Administration for a loan to finance

improvements to the following schools: Franklin junior high, Geo. D. Riddle, architect, estimated cost, \$402,683; U. S. Grant, James R. Friend, architect, estimated cost, \$102,200; Roosevelt school, Geo. Kahrs, architect, estimated cost, \$130,000; Temple school, Geo. Kahrs, architect, estimated cost, \$143,000; John Dewey high school, Victor Siebert, architect, Vern D. Hedden, engineer, estimated cost, \$127,400; Science building at the Wilson high school, W. H. Austin, architect, estimated cost, \$26,600.

Planned.
REPAIR SCHOOL Cost, \$68,400
SAN FRANCISCO. Pine and Larkin Streets.

Repairs to Redding elementary school. Owner—City and County of San Francisco.

Plans by Bureau of Architecture (C. Sawyer, architect), City Hall.

Bids will be asked in the near future.

SAN FRANCISCO—Board of Education has ordered a survey to be made for earthquake weakness in schools as follows:

Lowell High School and annex; Bay View; Columbus (original building); Commodore Stockton (original building); Excelsior; Golden Gate; Hancock (original building); Jean Parker; Laguna Honda; Spring Valley (original building); Washington, ungraded, and the Washington Irving.

ALAMEDA, Cal.—City of Alameda will hold an election on December 19 to vote bonds in the amount of \$448,000 to finance construction of the replacement of the Longfellow, Mastick and Versailles Schools. Preliminary sketches have been prepared by Architect J. J. Donovan, 950 Parker St., Berkeley. Application for federal public works fund to finance 30% of the building costs has been made to the public works administration.

SAN FRANCISCO—American Building Maintenance Co., 467 O'Farrell St., at \$275, submitted only bid to Department of Public Works for steam cleaning portion of the Emerson School, located on California Street, between Scott and Divisadero.

SAN FRANCISCO—Until Nov. 29, 1:45 P. M., informal bids will be received by S. J. Hester, Chief Deputy Director, Department of Public Works, 251 City Hall, for roofing of the Sarah B. Cooper School, located on Southwest corner of Lombard and Jones Sts. Cost under \$1000.

LONG BEACH, Los Angeles Co., Cal.—Long Beach city high school district applied to the Public Works Administration for a loan of \$65,000 and a grant of \$24,840 to be used for reconstructing Polytechnic high school in Long Beach. Hugh R. Davies, architect.

SAN BERNARDINO, Cal.—Architect DeWitt Mitcham, 288 Highland Ave., San Bernardino, is preparing plans for a proposed new school building to be erected in San Bernardino County by the Mission School District. The building, which will replace the existing Mission and Barton schools, will be a reinforced concrete structure costing about \$40,000. The district proposes calling an election to vote bonds for the building.

ANAHEIM, Orange Co., Cal.—Architects T. C. Kistner & Co., 814 Architects Bldg., Los Angeles, have been commissioned to prepare plans for reconstructing four buildings at the Heim Union High School for the Ana-

heim Union High School District, as follows:

Auditorium Building—Demolish auditorium portion and add five classrooms to remaining portion. Will be a two-story reinforced concrete addition with composition roofing, gas steam radiators.

Music Building—Demolish walls and replace with gunite, strengthen roof, add horizontal steel trusses, etc.

Shop and Gymnasium Building—Remove the bearing walls, and rebuild with reinforced concrete, etc. Administration building will probably be repaired.

New class A Auditorium building to seat 1600 persons will be constructed, cost \$150,000. Cost of repairs to the other four buildings will be approx. preliminary estimates and surveys mately \$125,000. Architects have m but will not proceed with plans until the money applied for by the school district, under the Greene bill, is available.

NORWALK, Los Angeles Co., Cal.—Architects T. C. Kistner & Co., 814 Architects Bldg., have prepared preliminary plans and estimates of cost for the erection of an auditorium building and a classroom unit at the Norwalk Elementary School site for the Norwalk School District. The classroom building will be of class C construction, containing 7 classroom, 5 special rooms and administration suite; concrete walls, wood etc. The auditorium building will be of class B construction and will have a seating capacity of 800 persons. The cost of the two structures is estimated at \$160,000. The board has applied \$140,000 under the Greene bill balance will be provided from cash on hand. No further work will be done until money is made available.

Planned.
REPAIR SCHOOL Cost, \$11,650
SAN FRANCISCO. 20th and Mission Streets.

Repairs and strengthening of Daniel Webster school auditorium. Owner—City and County of San Francisco.

Plans by Bureau of Architecture (C. Sawyer, architect), City Hall.

Bids will be asked in the near future.

Planned.
REPAIR SCHOOL Cost, \$36,700
SAN FRANCISCO.

Repairs to John Swett school. Owner—City and County of San Francisco.

Plans by Bureau of Architecture (C. Sawyer, architect), City Hall.

Bids will be asked in the near future.

PIEDMONT, Alameda Co., Calif.—Piedmont School District will hold an election on December 19 to vote bonds in the amount of \$317,000 to finance construction of three new elementary school buildings in Piedmont. Architect not yet selected.

Bids Wanted—To Close Nov. 27.
SCHOOL Cost, \$25,000
BATTLE GROUND, Washington.
Two-story addition to school building (frame construction, brick exterior, cast stone trim, etc.)
Owner—Battle Ground School Dist.
Architect—C. N. Freeman, Weatherly Bldg., Seattle, and Day Nilborn, Vancouver.

Planned.
SCHOOL Cost, \$—
CAMPBELL, Santa Clara Co., Calif.
Construct new high school.
Owner—Campbell Union High School District.
Architect—Not Selected.

It is proposed that a loan be asked from the Public Works Administration. Representatives from various districts as follows: Lloyd Gardner, Will Lester, W. R. Coupland, Mark Purmort, Mrs. Floyd Bohnett, L. E. Hendricks.

Completing Plans.
GYMNASIUM Cost, \$65,000
SANTA ROSA, Sonoma Co., Cal.

One-story reinforced conc. and brick veneer gymnasium (171x235) reinf. concrete walls (separate gym. for men and women) swimming tank.
Owner—Santa Rosa Junior College Dist. (Floyd Bailey, dean), Santa Rosa.

Architect—Wm. Heribert, Rosenberg Bldg., Santa Rosa.

Bids may be asked about Dec. 1.

BERKELEY, Alameda Co., Cal.—Berkeley Board of Education has commissioned J. J. Donovan, 950 Parker St., Berkeley, to work with the State Board of Architecture in connection with the survey now being made in the City of Berkeley Schools.

SAN FRANCISCO.—The City of San Francisco will hold an election on Dec. 19 at which time bonds in the amount of \$3,000,000 will be voted to finance construction of schools as follows:

New Projects	
George Washington	\$1,200,000
Marina junior high.....	385,000
Lawton	100,000
Replacements	
Glen Park	\$ 300,000
Agassiz	175,000
Sunshine	115,000
Buena Vista	200,000
Visitation	250,000

Francis Scott Key school will be partially replaced at a cost of \$100,000.

Removal of Top Floors and Offset With New Structures
Starr King

l. M. Scott

Patrick Henry

The sum of \$420,000 will be expended on sundry structural possible requirements.

SAN DIEGO COUNTY, Cal.—Grossmont Union High School District contemplates enlarging and modernizing the high school, financing to be arranged through a loan to be requested of the Public Works Administration. Frank L. Hope Jr., Commonwealth Bldg., San Diego, is the architect.

Plans Completed.
SCHOOL Cost, \$10,000
GRASS VALLEY, Nevada Co., Cal.

One-story Class C reinforced concrete shop building for school (3 rooms)
Owner—Grass Valley High School District.

Architect—Frederick H. Reimers, 233 Post St., San Francisco.

Plans are being forwarded to Sacramento for approval and bids will probably be asked in about ten days.

Plumbing Contract Awarded.
SCHOOL Cost, \$14,737
COALINGA, Fresno Co., Cal. Present high school site.

One-story reinforced concrete junior high school.

Owner—Board of Trustees of Coalinga Union High School District.
Architect—W. D. Coates, Jr., 626 Rowell Bldg., Fresno.

Contractor—R. P. Moore, 3662 Verrue Ave., Fresno.

Plumbing—Hansen's, Modesto.
Other awards reported Oct. 25.

To Ask Bids In About One Week.
EDUCATION BLDG. Cost, \$40,000
BERKELEY, Alameda Co., Cal. Dana St. and Bancroft Way.
 Two-story Class C concrete educational buildings (20 classrooms), composition shingle roof.
 Owner—Trinity Methodist Church.
 Architect—George Rushforth, 21 San Mateo St., Berkeley.

BURLINGAME, San Mateo Co., Cal.—Herbert I. Lauder Co., 218 Lorton Ave., Burlingame, at 436 awarded contract by Burlingame Grammar School District for the installation of thirteen new drinking fountains at the Burlingame Schools.

SAN DIEGO COUNTY, Cal.—Architect Frank L. Hope, Jr., Commonwealth Bldg., San Diego, is preparing plans for additional classrooms, auditorium and gymnasium building, manual arts building and janitor's dwelling to be erected at Grossmont, San Diego County, for the Grossmont Union High School District. The buildings will be reinforced concrete structures with composition roofing, concrete and wood frame partitions, concrete and maple floors, steam heat, fire doors, floor deadening insulation, marble work, metal lath, metal skylights, ornamental iron, reinforcing steel, steel rolling doors, structural steel, stucco, tile work, waterproofing, etc. Estimated cost \$100,000. Plans will be submitted to the Public Works Administration with a request for a loan of the necessary funds.

SAN FRANCISCO.—Until Nov. 29, 1:30 P. M., bids will be received by S. J. Hester, Chief Deputy Director, Department of Public Works, City Hall, for interior painting of the Emerson School, located on California Street between Scott and Divisadero. Estimated cost \$3,200. Bond, \$300.

Commissioned To Prepare Plans.
REPAIR SCHOOL Cost, \$—
SANTA ANA, Orange Co., Cal.
 Repairs and reconstruction of high school.

Owner—Santa Ana Board of Education
 Architect—Frederick H. Eley, 109 Orange Ave., Santa Ana.

The Board plans to secure funds for the work under provisions of the Green bill, passed last May in the State legislature. While the bill does not require a vote on securing the funds, it has been decided to place the matter before the voters at a special election.

SAN MATEO, Cal.—Voters of the San Mateo High School and Junior College District will be asked to approve expenditure of \$120,000 on buildings of the Burlingame and San Mateo Junior College at a special election December 18. The District has \$90,000 in the treasury and expects to receive an additional \$30,000 in a grant from the Federal Government, for which the application was filed.

ALBANY, Alameda Co., Calif.—City of Albany will hold an election Dec. 19 to vote bonds in the amount of \$150,000 to finance construction of a new high school in Albany. Dragon & Schmidt, 3016 Telegraph Ave., Berkeley, architects.

Cal.—Architect George W. Kahrs, 1224 Linden Ave., Long Beach, has completed preliminary plans and has presented them to A. A. Knoll, business manager of the Long Beach board of education, for reconstructing the Roosevelt elementary school. Cost \$67,000

BERKELEY, Alameda Co., Calif.—Clinton Stephenson Const. Co., 550

Montgomery Street, San Francisco, awarded the following sub-contracts in connection with the construction of the frame field laboratory in Strawberry Canyon, University of California Campus, Berkeley. Cost, \$17,579;
Painting—C. E. Gordon, 666 Mission St., San Francisco.

Mill Work and Glass—Balboa Mill & Cabinet Co., 100 Havelock Street, San Francisco.

Plumbing—Scott Co., 113 10th Street, Oakland.

Electric—Scott-Buttiner Co., 19 Grand Ave., Oakland.

Lumber—Sunset Lumber Co., 400 High St., Oakland.

As previously reported, Lee J. Immel, 1031 Evelyn St., Berkeley, at \$2,579 awarded contract for grading.

LONG BEACH, Los Angeles Co., Cal.—Architect George W. Kahrs, 1224 Linden Ave., Long Beach, has presented them to A. A. Knoll, business manager of the Long Beach board of education, for reconditioning the Temple elementary school, located at the corner of Temple Avenue and 16th St., Long Beach. It is planned to restore the structure to a one-story building and construct additional classrooms. Cost, \$96,000.

LONG BEACH, Los Angeles Co., Calif.—Architect Warren Dedrick, 901 Heartwell Bldg., Long Beach, is preparing plans for reconstructing the Jefferson junior high school for the Long Beach board of education. The old building will probably be demolished and a new classroom and gymnasium building constructed. Cost, \$329,000.

To Ask Steel Bids Shortly.
SCHOOL Cost, \$25,000
RICHMOND, Contra Costa Co., Cal.
 Rebuilding and reinforcement of Roosevelt Junior High School (work involves steel girders, new entrances, concrete stairways, etc.)
 Owner—Richmond Union High School District.

Architect—Louis Stone, 98 Ramona St. Piedmont & 354 Hobart St., Oakland.

Inspector—Elmer J. Freethy, 1301 Roosevelt Ave., Richmond.

Steel bids will be asked in about one week.

Bond Election.
HIGH SCHOOL Cost, \$240,000
SEBASTOPOL, Sonoma Co., Cal.
 Two-story reinforced concrete high school building.

Owner—Analy Union High School Dist.
 Architect—Louis Stone and J. R. Rowell, Associated, 98 Ramona St. Piedmont and 354 Hobart Street, Oakland.

An election will be held on December 19 to vote bonds in the amount of \$200,000 to finance construction. Application for a federal loan has been made to the Public Works Administration. Preliminary plans completed

Plans To Be Prepared.
ADDITION Cost, \$50,000
HEALDSBURGH, Sonoma Co., Cal.
 Steel and concrete wing addition to High School and alterations to present structure.
 Owner—Healdsburg High School Dist. (Paul Crabb, Principal).
 Architect—Not Selected.

Application for a loan from the Public Works Administration is being filed immediately.

A bond issue would be necessary for 70% of the total cost provided 30% was obtained from the federal government.

NORWALK, Los Angeles Co., Cal.—Architects T. C. Kistner & Co., 814

Architects' Bldg., Los Angeles, have completed working drawings and plans have been forwarded to the State Architect for approval for the reconstruction of the administration building at the Excelsior Union High School for the Excelsior Union High School District, near Norwalk. The building will be of reinforced concrete construction, horizontal steel trusses, new foundations, repair composition and tile roofing, refinish hardwood floors, repair plumbing, repair floor and wall tile, plastering, painting, etc. Date for advertising for bids will not be set until state approval of plans has been obtained.

YERINGTON, Nevada—Union School District No. 1 of Yerington has made application for a loan of approximately \$25,000 with the Public Works Administration to finance construction of school improvements in Yerington. Following improvements are contemplated: New heating system in grammar school, annex to grammar school, improve school grounds, repair high school and heating plant, etc.

PRELIMINARY PLANS COMPLETE

LONG BEACH, Los Angeles Co., Cal.—Architect Victor Siebert and Engineer Vern D. Hedden, 420 Security Bldg., Long Beach, have completed preliminary plans for the new John Dewey high school school to be built at the corner of Pine Ave. and Willow St., Long Beach, for the Long Beach board of education. The school will consist of two buildings and will probably be reinforced concrete construction. Cost, \$100,000.

16—BANKS. STORES AND OFFICES

Plans Completed.
ADDITION Cost, \$23,000
BAKERSFIELD, Kern Co., Cal. 22nd and Chester Ave.

Addition to automobile building.
 Owner—Valley Chevrolet Co., (Elmer McFadden, vice-president) Bakersfield.

Architect—Edwin J. Symmes, Haberfelde Bldg., Bakersfield.
 Bids will be asked shortly.

Plans Being Prepared.
ALTERATIONS Cost, \$8000
SAN FRANCISCO, 385 Geary Street.
 Owner—J. Miles, Embassy Hotel.
 Plans by Gerald Grimes, Balovich Bldg. San Mateo.

Plans Being Figured.
ADDITION Cost, \$—
SAN FRANCISCO, NE Third and Eighteenth Sts.

One-story frame and stucco addition to office building (tile roof).

Owner—Gilmore Oil Co., Premises.
 Architect—Hibbard Gerity & Kerton, 816 W. 15th St., Los Angeles.

Bids are being received by the owner and about ten days will be allowed for figuring the plans.

SAN FRANCISCO—F. R. Siegrist, 604 Mission St., at approximately \$953 awarded contract by Ellen Bothin, Owner, to strengthen parapet at 341 Market St. Norman B. Green, 54 New Montgomery St., Engineer.

Contract Awarded.
REPAIRS Cost, \$4000
OAKLAND, Alameda Co., Calif. 394 11th Street.

Repair fire damage to building.
 Owner—Bank of America N. T. & S. A., 12th and Broadway, Oakland.

Plans by Engineering Dept. of Owner.
 Contractor—C. Dudley De Velhiss, 354 Hobart St., Oakland.

Preparing Plans.
STORES Cost, \$—
SAN MATEO, San Mateo Co., Cal.
 Third Avenue.
 Two one-story reinforced concrete store buildings.
 Owner—Martin Stelling, 155 Montgomery St., San Francisco.
 Architect—Earl Bertz, Monadnock Bldg., San Francisco.
 Contractor—Selected; Withheld.

Plans Being Prepared.
STORE Cost, \$6000
OAKLAND, Alameda Co., Cal.
 One-story reinforced concrete store building (50x80 ft.) wood trusses, tar, gravel and composition roof, etc.
 Owner—Withheld.
 Architect—Ray Keefer, 770 Wesley St., Oakland.

Sub-Contracts Awarded.
RESTAURANT
 Including Equip., \$100,000
SAN FRANCISCO, No. 968 Market St.
 New restaurant (new entrance from Market Street to basement) work involves cabinet work, plumbing, fixtures, lighting effects, carpets, draperies, upholstering, etc.
 Owner—Will King, 35 Taylor Street.
 Architect—A. A. Cantin, 557 Market St., San Francisco.

Contractor—Robert E. Powers Studio, 34 Golden Gate Ave., S. F.
Lumber—Acme Lumber Co., 6th and Channel Sts., San Francisco.

Millwork—Holmes Planing Mill Co., 6th and Channel Sts., S. F.
Miscellaneous Iron—C. Frauneder, 335 8th St., San Francisco.

Building Materials—San Francisco Materials Co., 3070 23rd St., San Francisco.
Plastering—Emil Zanzi, 1366 Shafter Ave., San Francisco.
 As previously reported, carpentry awarded to A. J. Hopper, 1769 Pleasant Valley Ave., Piedmont; plumbing to Frank J. Klimm, 456 Ellis St.; wiring to H. F. Haverkamp, 1127 Folsom St.; heating and ventilating to C. R. Watts, 1166 Spruce St.

Sub-Contracts Awarded.
REMODEL BLDG. Cost, \$19,578
OAKLAND, Alameda Co., Cal. 13th and Broadway.

Remodel store and office building.
 Owner—Matilda E and Everett J. Brown, 600 29th St., Oakland.
 Architect—Ed. T. Foulkes, 357 12th St., Oakland.

Contractor—Wilbur C. Cone, 1744 Broadway, and Edwin A. Duval, Broadway Bldg., Oakland.
Tile Work—Rigney Tile Co., 3012 Harrison St., Oakland.

Ornamental Iron—Frauneder Iron Wks 335 8th St., Oakland.
Mill Work—Oakland Planing Mill, 2nd and Washington Sts., Oakland.

Lumber—Oakland Lumber Co., 6901 E-14th St., Oakland.

Being Done By Day's Work.
ALTERATIONS Cost, \$—
SAN FRANCISCO, Second and Mission Streets.
 Alterations for offices.
 Owner—Sutter Investment Co., Wells Fargo Bldg., San Francisco.
 Plans by Owner.
 Lessee—United States Government (Forest Service).

Segregated Bids Being Taken.
ALTERATIONS Cost, \$200
SAN MATEO, San Mateo Co., Cal. No. 105 Third Avenue.
 Alterations to store for food market.
 Owner—Graydon D. Hurd, 105 Third St., San Mateo.
 Architect—Arthur O. Johnson, Sir Francis Drake Hotel, S. F.

Lessee—San Mateo Food Center.
 Bids are being received by the owner.

Plans Being Figured—Bids Close Nov. 27.

ADDITION Cost, \$—
SAN FRANCISCO, NE Third and Eighteenth Sts.
 One-story frame and stucco addition to office building (tile roof).
 Owner—Gilmore Oil Co., Premises.
 Architect—Hibbard Gerity & Kerton, 816 W. 15th St., Los Angeles.
 Lindgren & Swinerton, 225 Bush St., San Francisco, are figuring the plans and desire sub-bids on all portions of the work.

Planned.
STORE Cost, \$30,000
SALINAS, Monterey Co., Cal. No. 344-350 Main Street.
 Construct new store building.
 Owner—Ellis Spiegl, E. Gabilan St., Salinas.
 Plans by Eng. Dept. of Lessee.
 Lessee—J. J. Newberry Co., San Francisco and Los Angeles.
 Present building on site will be razed.

Plans Completed.
STUDIO Cost, \$—
SAN FRANCISCO, NW Montgomery and Green Sts.
 Two-story and basement frame studio.
 Owner—G. Gugliemone.
 Architect—W. H. Armitage, 3560 California St., San Francisco.

Contract Awarded.
ALTERATIONS Cost, \$2000
SAN FRANCISCO, No. 405 Montgomery St.
 Alterations to office building.
 Owner—California Montgomery Co., 405 Montgomery St., San Francisco
 Architect—Not Given.
 Contractor—S. A. Casper, 405 Montgomery St., San Francisco.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$5568
SAN FRANCISCO, SE Eleventh and Mission Streets.
 Owner—Goodyear Tire & Rubber Co. of California, Inc.
 Plans by Engineering Dept. of Owner.
 Contractor—MacDonald & Kahn, Financial Center Bldg.
Reinforcing Steel—W. S. Wetenhall, 17th and Wisconsin Sts.
Iron—Fair Mfg. Co., 617 Bryant St.

17— THEATRES

Contract Awarded.
ALTERATIONS Cost, \$—
SAN FRANCISCO, Broadway bet. Grant Ave. and Stockton St.
 Alterations to theatre.

Owner—T. & D. Theatre Enterprises, 25 Taylor Street.
 Architect—Not Given.
 Contractor—Alfred J. Hopper, 1769 Pleasant Valley Road, Piedmont.

18— WHARVES & DOCKS

PEARL HARBOR, T. H.—Hawaiian Dredging Co., Honolulu, at \$2,789,600 awarded contract by Bureau of Yards & Docks, Washington, D. C., to construct a pier and gauge of reinforced concrete construction supported on concrete cylinders on wood and concrete piles, and includes dredging, concrete and steel sheet pile bulkheads, timber fender system, track work, piping systems, electrical work and fittings at the Navy Yard, Pearl Harbor. Specification No. 7418. Complete bids follow:

Hawaiian Dredging Co., Honolulu	(1)	\$2,966,700
.....	(2)	2,648,000
.....	(3)	2,536,000
.....	(4)	2,945,900
.....	(5)	2,629,600
.....	(6)	2,516,800
.....	(7)	5,000
Frederick Snare Corp., New York City.....	(1)	\$2,981,000
.....	(2)	2,684,622
.....	(3)	2,566,869
.....	(4)	2,998,835
.....	(5)	2,724,202
.....	(6)	2,604,431
.....	(7)	7,628

Bids Wanted—To Close December 4, 10 A. M.

SHED Cost, \$—
SAN FRANCISCO, Pier No. 1, Fort Mason.
 Two-story steel and concrete shed and utilities (concrete walls, steel floor and roof).
 Owner—United States Government.
 Plans by Constructing Quartermaster Fort Mason.
 Plans and specifications available from above office upon deposit of \$25.

19—MISC. CONSTRUCTION

VENICE, Los Angeles Co., Cal.—Halper-Robbins Co., owner and builder, 550 Paramount Bldg., Los Angeles, applied for building permit to construct concrete amusement pier on site facing Venice St., between 20th and 24th Sts., in the Venice Short Line Beach subdivisions Nos. 1 and 2; T. C. Kistner & Co., architects, 814 Architects' Bldg., Los Angeles; 800x1340 ft., irregular shape, concrete caissons, concrete slab deck, rock mounds, loading quay, stucco and concrete and frame ballroom, tower, beer garden, concession buildings and roller coaster, landscaping, breakwater, lighthouse, etc.; \$1,000,000.

Move More Dirt Faster with LE TOURNEAU Equipment

A complete line of grading machinery—designed by a contractor—developed on actual construction jobs—built to stand continuous use under the worst conditions.

ENGINEER'S CONSULTATION FREE

R. G. LE TOURNEAU, INC.

Wilson Way at Roosevelt

Stockton, Calif.

PEARL HARBOR, T. H. — Starr Iron & Steel Co., Tacoma, Wash., at \$357,488 awarded contract by Bureau of Yards & Docks, Navy Dept., Washington, D. C., to furnish and erect four cranes at Pearl Harbor. Specification No. 77413. Following is complete list of bids:

Starr Iron & Steel Co., Tacoma, Wash. (1) \$257,480
 (2) 112,360
 (3) 115,500
 (4) 103,423
 (5) 55,530

Dravo Contracting Company
 Pittsburgh (1) \$299,500
 (2) 122,000
 (3) 182,400
 (4) 128,300
 (5) 71,750

Orton Crane & Shovel Co., Chicago, Ill. (1) \$304,946
 (2) 132,625
 (3) 180,563
 (4) 122,000
 (5) 63,036

Industrial Brownhoist Corp., Bay City, Mich. (1) \$213,700
 (2) 145,700
 (3) 167,700
 (4) 117,700
 (5) 66,700

Harnischfeger Sales Corp., Milwaukee (1) \$313,205
 (2) 137,840
 (3) 178,410
 (4) 122,940
 (5) 66,470

Browning Crane Co., Cleveland, Ohio (1) \$344,592
 (2) 145,728
 (3) 205,395
 (4) 141,330
 (5) 73,865

McKiernan-Terry Corp., Harrison, New Jersey (1) \$378,300
 (2) 139,800
 (3) 243,000
 (4) 169,500
 (5) 94,300

Wellman Engineering Co., Cleveland, Ohio (1) \$.....
 (2) 124,460

SAN FRANCISCO—Until December 1, 10 A. M., bids will be received by the Signal Officer, Headquarters Ninth Corps Area, Presidio of San Francisco, for Rehabilitation of the Telephone Project, West Cantonment Area, Presidio of San Francisco.

Plans and specifications obtainable from above office upon deposit of \$5. Capt. R. B. Woolverton, Contracting Officer, Signal Office, Ninth Corps Area.

LA MESA, San Diego Co., Cal.—La Mesa City Council has applied to the Public Works Administration for a loan of \$35,000 to be used in financing the construction of a swimming pool, clubhouse, rest rooms and landscaping at La Mesa. H. L. Edwards-City Engineer; Wesley Bintz, consulting engineer, 116 1/2 N. Washington Ave., Lansing, Mich.; A. O. Treganza, architect, Lemon Grove.

SAN FRANCISCO—J. N. J. Firebrick Co., 1184 Harrison St., at \$155 awarded contract by Department of Public Works for repairs to incinerator at the Laguna Honda Home.

BOULDER CANYON, Nev.—Ingal's Iron Works, Birmingham, Ala., at \$163,500 awarded contract by the Bureau of Reclamation for furnishing trash racks for intake towers at Boulder Dam. Spec. No. 547. Bids opened November 6.

MARE ISLAND, Cal.—Following have procured plans for the purpose of submitting bids to the Bureau of Yards and Docks, Navy Department, Washington, D. C., on December 2 for two

10-ton hammerhead cranes at the Navy Yard, Mare Island. Spec. No. 7540;

Westinghouse Elec. Mfg. Co., Washington Bldg., Washington, D. C.

R. W. Kalkenbach Corp., Stop 3, A.B.C. Lines, Bedford, Ind.

Star Iron & Steel Co., Tacoma Wash.

General Electric Co., Schneckady, New York.

Crocker-Wheeler Elec. Mfg. Co., Ampere, New Jersey.

Heyl & Patterson, Inc., Pittsburgh, Pa.

The Dravo Contracting Co., Dravo Bldg., Pittsburgh, Pa.

Blake-Palm Elevator Corp., 1915 E. St., N. W., Washington, D. C.

LOS ANGELES, Cal.—Koppel Industrial Car & Equipment Co. by Garlinghouse Bros., 2416 E 16th St., Los Angeles, submitted the low bid to the Metropolitan Water District, 306 W Third St., Los Angeles, at \$12,640, for Schedule No. 1, and at \$16,000 for Schedule No. 2 (previously reported) for furnishing complete three exterior and three interior sections of telescopic steel forms, in lengths of 11 ft. 3 in. for a semi-elliptical conduit 16 ft. in height, and three sections of telescopic steel forms in lengths of 10 ft. for the interior of a circular siphon 12 ft. 4 in. in dia., together with all necessary services and tools for setting and moving same. Forms are to be delivered, completely assembled, ready for use on the line of the Colorado river aqueduct at a point 11 miles northwest of Indio, Cal. F. E. W. Weymouth, general manager and chief engineer. The schedules are:

SCHEDULE 1

For furnishing and erecting steel forms for conduit and siphon complete with one-section capacity travelers.

- (1) 3 sections of interior and 3 sections of exterior forms, each 11-ft. 8-in. long for 16-ft. inside height conduit complete with one-section capacity travelers;
- (2) 3 sections of interior forms each 10-ft. long for 12 ft. 4 in. diameter circular siphon complete with a 1-section capacity traveler.

SCHEDULE 2

For furnishing and erecting steel forms for conduit and siphon complete with three-section capacity travelers.

- (3) 3 sections of interior and 3 sections of exterior forms, each 11-ft. 8-in. long for 16-ft. inside height conduit complete with 3-section capacity travelers;
- (4) 3 sections of interior forms, each 10-ft. long for 12 ft. 4 in. diameter circular siphon complete with a 3-section capacity traveler.

SCHEDULE 3

For furnishing the services of an erecting engineer.

Complete bids follow:

*Koppel Industrial Car & Equip. Co. (Sch. 1) (1) \$10,330; (2) \$2310; total, \$12,640; (Sch. 2) (3) \$13,300; (4) \$2700 total \$16,000; (Sch. 3) (5) \$20.00.

James M. Conlon Co., (Sch. 1) (1) \$5,066; (2) \$5334; total \$13,400; (Sch. 3) (5) \$10.00.

Standard Steel Works, (Sch. 1) (1) \$11,800; (2) \$5500; total \$17,300; (Sch. 2) (3) \$12,800; (4) \$6100; total, \$18,900; (Sch. 3) (5) \$15.00.

Blaw-Knox & Western Pipe Corp., (Sch. 1) (1) \$13,885; (2) \$5465; total, \$19,350; (Sch. 2) (3) \$15,333; (4) \$7217; total, \$22,550; (Sch. 3) (5) \$16.00.

Consolidated Steel Corp., (Sch. 1) (1) 16,000; (2) \$6800; total, \$22,800; (Sch. 2) (3) \$17,000; (4) \$7400; total, \$24,400; (Sch. 3) (5) 19.00.

*By Garlinghouse Bros.

Data which could not be included in the tabulation follows:

Keppel Industrial Car & Equip. Co.,

by Garlinghouse Bros., 2044 Santa Fe Ave., Los Angeles.

James M. Conlon Co., 323 Trans-america Bldg., bidding on Schlatter & McCallum adjustable steel forms:

(1)—\$8066: Two sections of interior forms, 11 ft. 8 in. long, and 3 sections of interior forms, 5 ft. 10 in. long, and 3 sections of exterior forms, 11 ft. 8 in. long for 16 ft. inside height conduit complete without travelers. No travelers used with these forms. Add: \$504 to the above lump sum of four sections of interior forms, 11 ft. 8 in. long, are desired instead of two sections 11 ft. 8 in. long and 3 sections, 5 ft. 10 in. long.

(2)—\$5334: Two sections of interior forms, each 10 ft. long, and 3 sections of interior forms, each 5 ft. long, for 12 ft. 4 in. diameter circular siphon complete without travelers. Add \$659 if four sections of interior forms are desired instead of 2 sections 10 ft. and 3 sections 5 ft. long. Deduct \$439 from above if the removable portion of forms over invert are not desired.

Standard Steel Works, 5001 S Boyle Ave., Vernon.

Blaw-Knox and Western Pipe Corp., 5717 Santa Fe Ave., Los Angeles.

Consolidated Steel Corp., P. O. Box 1348, Arcade Sta., Los Angeles.

BOULDER CANYON, Nevada—Apparent low bids for furnishing drum gates and drum gate control mechanisms for Boulder Canyon Project, under Specifications No. 548, opened by the Bureau of Reclamation, Denver, November 15, are:

Item (1) eight 100x16 ft. drum gates complete — NASHVILLE BRIDGE CO., Nashville, Tenn., at \$159,870, f.o.b. Bessemer, Ala.

Item (2) drum gate control mechanisms for eight gates—CONSOLIDATED STEEL CORP., 5701 E. Slauson Ave., Los Angeles, at \$3800, f.o.b. Los Angeles.

The prices do not include freight or other equalizing elements which must be added before successful bidder can be determined.

The three low bids on each item follow:

ITEM 1 DRUM GATES

Nashville Bridge Co., \$159,870 f.o.b. Bessemer, Ala.

McClintic-Marshall Co., \$167,700 f.o.b. Chicago.

American Bridge Co., \$168,600 f.o.b. Gary, Ind.

ITEM 2, CONTROL MECHANISMS

Consolidated Steel Corp., \$3800 f.o.b. Los Angeles.

Omaha Steel Works, \$4350, f.o.b. Omaha.

Aldrich Pump Co., \$4380 f.o.b. Allentown, Pa.

HAMILTON FIELD, Marin Co., Cal.—Frank J. Rellly, 6350 Fulton St., San Francisco, at \$9091 awarded contract by War Department to construct a five-ton natural draft type incinerator.

PALO ALTO, Santa Clara Co., Cal.—The Palo Alto Municipal Utility Department is studying plans for the construction of additional gas storage facilities and a butane generator. The City may undertake the construction at an estimated cost of \$25,000 if the survey being made indicates that substantial savings in gas distribution costs can be effected. L. H. Anderson, manager of the utility department.

NOGALES, Arizona—Until Tuesday, Nov. 28, bids will be received by the Department of Agriculture, Washington, D. C., for constructing concrete retaining wall for fumigation house at Nogales.

Planned.
AUTO CAMP Cost, \$—
GRASS VALLEY, Nevada Co., Calif.
 South Auburn St. and Whiting.
 Combined tourist camp, service station, etc.
 Owner—G. V. Ray, Sacramento.
 Architect—Not Given.
 Agent—John Looser, S Church St., Grass Valley.

PEARL HARBOR, T. H.—Bids will be received by the Bureau of Yards & Docks, Washington, D. C., until Dec. 27 for telephones, automatic telephone exchange and sets, for the Navy Yard and 14th Naval District at Pearl Harbor; Spec. No. 7513. Deposit for plans, \$10.00.

OAHU, T. H.—Following are additional contractors and others who have procured plans for the purpose of submitting bids to the Bureau of Yards and Docks, Washington, D. C., on Nov. 29 to construct reinforced concrete magazine and barricade wall, asphalt surfaced road, boiler house equipment and alterations to an existing building at the Naval Ammunition Depot, Oahu, T. H. Specification No. 7257.

Joseph R. Lippencott, 714 W. 10th St., Los Angeles.

Honolulu Iron Works, 165 Broadway, New York City.

Dayton-Dowd Co., 2nd and York Sts., Quincy, Ill.

Cochrane Corp., 17th St., below Allegheny Ave., N. Pittsburgh, P. O.

LOS ANGELES, Cal.—Until December 4, 11 A. M., bids will be received by the Metropolitan Water District, Room 504, 306 W. Third St., Los Angeles, for furnishing approximately 1975 tons of liner plates and structural steel ribs for tunnel support for 15 ft. 3 in. and 16 ft. tunnels. Spec. No. 63. Bids will be taken on liner plates and structural steel ribs, complete with bolts, etc. The plates are to be 16-in. in width by 37 11/16-in. or 18 27/32-in. long. The items are:
 (1) 160 tons liner plates 3/16-in. thick
 (2) 135 tons do, 5/32-in. thick;
 (3) 975 tons do, 1/2-in. thick;
 (4) 95 tons do, 7/64-in. thick;
 (5) 600 grout connections in liner plates;
 (6) 80 tons ribs of 6-in., 12.5 lb. I-beam;
 (7) 55 tons ribs of 4-in., 10 lbs., I-beams;
 (8) 475 tons ribs of 4-in., 7.7 lbs. I-beams.

Specifications may be obtained at Room 1007, 306 W. Third St., upon payment of \$2, not returnable. Certified check, 10%. Prospective bidders who have procured plans are:

McClintic-Marshall, 11,100 S. Central Ave., Los Angeles.

Youngstown Steel Car Co., Niles, Ohio, (519 Delta Bldg., Los Angeles).

Western Pipe & Steel Corp., Box 1120, Arcade Station, Los Angeles.

Commercial Shearing & Stamping Co., Box 718, Youngstown, Ohio, (W. H. Collins, 1133 Glenville Drive, Los Angeles). 19

HAMILTON FIELD, Cal.—Until December 7, 11 A. M., bids will be received by the Constructing Quartermaster, Hamilton Field, San Rafael, for the construction of the Q. M. gasoline dispensing system at Hamilton Field.

Plans and specifications obtainable from the above office upon deposit of \$5.

(3146)

LOS ANGELES, Cal.—Until Nov. 27 12 M., bids will be received by H. E. Russell, Los Angeles County Purchasing Agent, 524 North Spring St., Los Angeles, for labor and material for complete installation of flood lighting system for Dan Dimas Dam; Spec. 6712.

LOS ANGELES, Cal.—Until Nov. 27 12 M., bids will be received by H. E. Russell, Los Angeles County Purchasing Agent, 524 North Spring St., Los Angeles, for labor and material for complete installation of flood lighting for Puddingstone Dam; Spec. 6713.

BOULDER CANYON, Nev.—Until Dec. 18, 2 P. M., bids will be received by the Bureau of Reclamation Denver, for furnishing and installing two automatic push-button type electric elevators, each having a live load capacity of 4,000 lbs., a lift of 162-ft. and with three landings, for the canyon wall valve houses at Boulder Dam.

Specifications obtainable at above office without charge to bona fide bidders; to others, \$1.00, not returnable. Spec. 555. Elwood Mead, Commissioner.

20—MISC. SUPPLIES AND MATERIALS

BOULDER CANYON, Nev.—Crane, O'Fallen Co., Denver, at \$22,497 were awarded contract by the Bureau of Reclamation, Denver, for furnishing 200,000 expansion couplings for cooling system.

LOS ANGELES, Cal.—Contracts for furnishing vitrified and centrifugally reinforced concrete pipe for the Hooper Ave.-Compton Creek Trunk Sewer were awarded by the directors of the County Sanitation District No. 1, Nov. 15, as follows:

Pacific Clay Products Co.—470 ft. 24-in. vit. pipe at \$930.03; 2066 ft. 36-in. vit. pipe at \$10,855.02; 14 8-in. stubs at \$5.24; two 15-in. stubs at \$2.01.

American Concrete & Steel Pipe Co.—7163 ft. 33-in. spun reinforced concrete pipe with collars, at \$34,454.02.

LOS ANGELES, Calif.—Soule Steel Co., 6200 Wilmington Blvd., has been awarded the contract by A. J. Holm, City Purchasing Agent, at \$1473.24 (total estimate), for furnishing intermediate grade bar reinforcing steel as follows:

337 pieces 3/4-in. round steel in 60-ft. lengths at \$2,4488 per cwt.;

210 pieces 1 1/4-in. square steel in 26-ft. 9-in. lengths bent to full circle of 4-ft. 3-in. radius at \$2,9488 per cwt.

Bid No. 1650.

SEATTLE, Wash.—Lyon Metal Products Co., represented by Barclay Dean, Seattle, at \$852 submitted low bid to Seattle Park Commission to furnish 400 metal chairs.

SAN FRANCISCO—Venor Co., 36 Sacramento St., awarded contract by City Purchasing Department for furnishing Enoleum. Proposal No. 1105

OAKLAND, Cal.—C. L. Moody, 614 26th St., Oakland, at \$4,025.41 awarded contract by Oakland City Council to furnish incandescent lamps for the city.

LAS VEGAS, Nev.—Corry-Jamestown Mfg. Co. at \$270 submitted low bid to Division of Supplies, Washington, D. C., for steel counters for the Las Vegas post office. Following bids received:

Corry-Jamestown Mfg. Co. \$270
 Globe-Wernicke Co. 287
 Invincible Metal Furniture Co. 316

Yawanin & Erbe Mfg. Co. 333
 Interior Steel Equip. Co. 374
 Kewaunee Mfg. Co. 680

SAN FRANCISCO, Cal.—Columbia Steel Co., Russ Bldg., at \$3559 awarded contract by T. A. Brooks, City Purchasing Agent, for furnishing frogs and crossings for the Municipal Railway, under Invitation Bid No. 1095.

SAN FRANCISCO—General Engr. & Dry Dock Co., 1100 Sansome St., at \$2743 awarded contract by the Board of Fire Commissioners for drydocking, repainting of hulls, overhauling, and repairing the fire boats "Dennis T. Sullivan" and "David Scannell."

LOS ANGELES, Cal.—Pacific Iron & Steel Co., 241 West Avenue 26, Los Angeles, at \$673 awarded the contract by Saul A. Joseph, Purchasing Agent, Metropolitan Water District, Nov. 18, for furnishing steel bins under Bid No. 17490. The other bids were:

Consolidated Steel Corp., Ltd. \$684.00
 State Steel Prod., Inc. 817.32
 H. C. Collins Machinery Co. 840.00
 Southwest Welding & Mfg. Co. 840.00
 National Tank & Mfg. Co. 843.48
 Lacy Mfg. Co. 858.00
 Finn Bros. Pipe & Steel W'ks. 946.68
 American Pipe & Steel Corp. 978.00
 West. Pipe & Steel Co. of Cal. 990.00
 A. V. Swartz 1764.00

MONTROSE, Colo.—Wason Mfg. Co., Jamestown, N. Y., at \$680 submitted low bid to Treasury Department to furnish and install insect screens in the Montrose post office. Following bids received:

Watson Mfg. Co., Jamestown. \$680
 Cincinnati Fly Screen Co. 741
 Corry Metal Corp., Corry, Pa. 814

SAN FRANCISCO—Mangrum-Holbrook Co., 1235 Mission Street, at \$8.39 each submitted low bid to the U. S. Forest Service, Ferry Bldg., for furnishing 24 cast iron heating stoves, complete with joints, pipe and elbows. Following is a complete list of bidders:

Each
 Mangrum-Holbrook, S. F. \$ 8.39
 Eureka Stove & Appliance Co. 8.90
 Hammer-Bray Co., Oakland. 10.24
 James Graham Mfg. Co., S. F. 13.25
 All bids held under advisement.

SAN FRANCISCO—Following firms submitted identical bids to the Purchasing Department, City Hall, for opera chairs for the Health Center at \$7.96 for 130, 20 inch chairs and \$7.96 for 78 21 in. chairs:

F. A. Mills Mfg. Co., 180 Montgomery St.

F. E. Turner, 557 Market St.
 American Seating Co., 650 Second.

LOS ANGELES, Cal.—Brown Wholesale Electric Co., 314 E. Third St., Los Angeles, at \$867.30 awarded the contract by Saul A. Joseph, Purchasing Agent, Metropolitan Water Dist., Nov. 17, for furnishing copper wire under Bid No. 17480. Identical bids at \$877.59 were submitted by the following:

Myers Electric Supply Co., Inc.;
 Cook Nichols Co.; John A. Roebings Sons of Calif.; General Electric Supply Corp.; Great West Electric Co.; Listenwaller & Gough, Inc.; Graybar Electric Co., Inc.; Hollywood Wholesale Electric Co., Inc.; Calif. Wholesale Electric Co.; U. S. Rubber Products, Inc.; Standard Wholesale Elec. Co.; Ross Hartley as received for the Electric Corp.; Allied Industries, Inc.; Associated Wholesale Electric Co.; Maydwell & Hartzell, Inc.; Graham Reynolds Electric Co.; Reiman Wholesale Electric Co.; Western Light & Fixture Co.; Westinghouse Electric Supply Co. of S. C.; Columbia Steel Co.

MACHINERY & MATERIAL

Bid calls for construction machinery and materials and miscellaneous equipment and supplies purchased by Federal, State, Municipal and other Public agencies.

SAN FRANCISCO CITY

SAN FRANCISCO—Until December 1, 3 P. M., bids will be received by T. A. Brooks, City Purchasing Agent, Room 270, City Hall, for delivery and return of voting machines and delivery of election supplies for the special election December 19.

Bids No. 1115. Specifications obtainable from above office.

U. S. FOREST SERVICE

SAN FRANCISCO—Bids will be received by the U. S. Forest Service, Ferry Bldg., San Francisco, as follows:

ROAD RIPPERS, 4 heavy duty, 6200-6400 class. Nov. 28, 2 P. M.

ROAD RIPPERS, 42, 4400-4600 class. Nov. 28, 2 P. M.

ROAD RIPPERS, 1, 3200-3500 class. Nov. 28, 2 P. M.

GOVERNMENT ISLAND—Bids will be received by Frank Haynie, Supply Officer, Forest Service Supply Depot, Government Island, Oakland, as follows:

NIGHT LATCHES, automatic deadlocking iron case; 250. Bid #608. Nov. 28.

U. S. INDIAN SERVICE

EUREKA, Cal.—Bids will be received until November 28 by the Superintendent, Hoopa Valley Indian Agency, Eureka, Calif., for 1½-ton capacity truck.

MONTEREY CITY

MONTEREY, Monterey Co., Calif.—Until Dec. 2, 1:30 P. M., bids will be received by the Board of Trustees of Monterey Union High School District, J. R. McKillop, Clerk, Monterey, for furnishing one new 36-42 passenger high school student bus. Body to be Wm. B. Gibson, Ltd., or Patchett and Cartenson, Inc.

Plans and specifications obtainable at the office of Monterey Union High School.

RECLAMATION SERVICE

BOULDER CANYON, Nev.—Until Dec. 15, 10 A. M., bids will be received at the office of the Bureau of Reclamation, Denver, for furnishing and delivering ten 23,000-volt, 4,000-ampere and two 15,000-volt, 2,000-ampere, vertical lift type or removable truck type, oil circuit breakers, each complete with all accessories, for installation in the Boulder power plant,

Boulder Canyon project. All apparatus will be installed by the Government.

Plans and specifications obtainable from above office. No charge for specifications to prospective bona fide bidders; to others, \$1.50, not returnable.

WAR DEPARTMENT

SACRAMENTO, Cal.—Bids will be received by the U. S. Engineer Office, Capt. J. G. Drinkwater, District Engineer, Room 208 Post Office Building, Sacramento, until Nov. 27, 3 P. M., under Order No. 5886/2125 for the following:

(1) portable power unit, gasoline driven, 1000 watts, 110 volts, direct current, Westinghouse Class DS 2851 or equal.

(2) anvil, blacksmith, 300 lbs., face 20½x5-in., one piece crucible steel. Specifications obtainable from above office.

SISKIYOU COUNTY

SISKIYOU COUNTY, Calif.—Until Dec. 4, 10 A. M., bids will be received by the Siskiyou County Board of Supervisors, W. J. Neilon, Clerk, Hall of Records, Yreka, for supplying the county buildings in Yreka (including the county hospital buildings) with the necessary fuel oil for the period of one year beginning Jan. 1, 1934; to be commercial grade, the gravity degrees A. P. I. 27 plus, or of the degree required by the heating plants in these buildings, and such quantity of Diesel engine oil 33 degrees gravity as may be required by the Horticulture Commissioner of Siskiyou Co.

Specifications obtainable at above office.

PUBLIC ROADS BUREAU

GOVERNMENT ISLAND, Cal.—Until Nov. 28, 2 P. M., bids will be received by the Bureau of Public Roads, Ambrose B. Brown, Mechanical Engineer, Government Island, Oakland, as follows:

ALT. 1: Delivery f.o.b. Cedar City,

Utah:

(1) Snow blade, height 24-in., length 120-in., shaped and curved to roll snow off to one side;

(2) V-shaped snow plow, wide type, height 30-in., length 70-in., each side along bottom of blade.

ALT. 2: Delivery f.o.b. Fredonia, Ariz.

(1) Snow blade, same as above;

(2) V-shaped snow plow, do above.

Snow blade and plow shall be furnished complete with accessories all ready for field installation on Austin Model 77 dual drive motor grader equipped with scarifier, straight front wheel and automotive steering.

MENDOCINO COUNTY

MENDOCINO COUNTY, Cal.—Until December 12, 2 P. M., bids will be received by the Mendocino County Bd. of Supervisors, Ukiah, for furnishing first grade, non-premium gasoline to the County for the year 1934. Specifications obtainable from above office.

AGRICULTURE DEPT.

ALTURAS, Cal.—Until November 28, bids will be received by the Department of Agriculture, Washington, D. C., for creosoted cedar posts for Alturas, Calif.

NAVY DEPARTMENT

WASHINGTON, D. C.—Bids will be received by the Bureau of Supplies & Accounts, Navy Department, Washington, D. C., as follows:

FITTINGS, corrosion-resisting steel pipe for East and West Yards; Sch. 1158-R; Nov. 24.

MATERIAL, electric insulating, 900 sq. ft., for Mare Island; Sch. 1101; Nov. 28.

FANS, electric ventilating and spares, 40, for Mare Island. Sch. 1102; Nov. 28.

FAN EQUIPMENT, ventilating, and spares, for East and West Yards. Sch. 1122; Nov. 28.

CHASSIS, motor truck, for Puget Sound. Sch. 1123; Nov. 28.

SAN FRANCISCO—Bids will be received by the Purchasing Officer, 12th Naval District, 100 Harrison St., San Francisco, as follows:

STEEL, corrosion resisting, bar, 3700 lbs. for Mare Island. Sch. 8861; Dec. 1.

STEEL, bar, 38,500 lbs., for Mare Island. Sch. 8863; Dec. 1.

WIRE ROPE, steel, 1200 ft., for Mare Island. Sch. 8916; Dec. 1.

BALLAST, track, consisting of broken stone, 2300 tons, for Naval Ammunition Depot. Sch. 8906; Dec. 5.

CHISELS, pneumatic tool, 50, for U. S. S. Argonne. Sch. 8920; Dec. 5.

CANAL ZONE

PANAMA CANAL ZONE—Bids will be received by the General Purchasing Officer, the Panama Canal, Washington, D. C., under Schedule 2920, until December 1, for the following:

16 shoes and 8 bands for outlet pipe anchors; malleable iron pipe fittings; galvanized pipe flanges; 24 shore water closets; 6500 lbs. steel rivets; 17,000 lbs. steel rivets; 116 globe valves; 29 angle valves; 112 gate valves; 24 gate valves; 6 gates valves; 20,000 ft. yellow pine or Douglas fir lumber.

PANAMA CANAL ZONE—Until December 5, 10:30 A. M., bids will be received by the General Purchasing Officer, Washington, D. C., under Schedule 2921, for miscellaneous supplies including sanitary fixtures, plumbing fixtures, trimmings and accessories, insulated cable, electric switches and sockets, cable rack hooks, lead sleeving, twist drills, propellers, self-propelling nozzles, B/P trimming shears, grease gun, enamel ware and mirrors.

Specifications obtainable from above office and on file at the office of the PACIFIC CONSTRUCTOR.

ENGINEERING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

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| 21.—Bridges | 30.—Reservoirs and Dams |
| 22.—Dredging, Harbor Works, Excava. | 31.—Pipe Lines and Wells |
| 23.—Irrigation Proj. | 32.—Sewers & Sewage Disposal Plants |
| 24.—St. Light. Systems | 33.—Water Works |
| 25.—Machinery and Equipment | 34.—Parks & Play-grounds |
| 26.—Railroads | 35.—Tunnels |
| 27.—Fire Alarm Sys. | |
| 28.—Fire Equipment | |
| 29.—Streets & Highways | |

21— BRIDGES

SPOKANE COUNTY, Wash.—Until December 5, 10 A. M., bids will be received by L. V. Murrow, Director of Highways, Olympia, Wash., for grading about 0.7 miles and grading and paving with Portland cement concrete or surfacing with crushed stone about 0.9 miles of, and constructing a reinforced concrete girder bridge 152.5 feet long over Latah Creek in State Road No. 3, Spokane South in the City of Spokane, Project No. NRM 201-A in Spokane County, involving:

- (1) 53,960 cu. yds. excav.;
- (2) 700 cu. yds. crushed stone surf.;
- (3) 6051 sq. yds. pavement;
- (4) 5570 lbs. pavement reinforcing;
- (5) 3193 lin. ft. cable guard rail;
- (6) 5570 lbs. pavement reinforcing;
- (7) 717 lin. ft. pipe culverts;
- (8) Miscellaneous items of work.

Plans and specifications obtainable from above office upon deposit of \$2.

LINCOLN COUNTY, Wash.—Andrew Sather, 8052 15th St., NE, Seattle, at \$4402 awarded contract by L. V. Murrow, State Director of Highways, for constructing a 12-ft. reinforced concrete slab bridge with 70-ft. roadway and two 5-ft. sidewalks, and a 4-ft. by 4-ft. reinforced concrete box culvert 80 ft. long on State Road No. 7, in Harrington, Lincoln County. The other bids were: H. C. Malott, Seattle, \$4466; Fred Nygren, Seattle, \$4746.

LINCOLN COUNTY, Wash.—Until December 5, 10 A. M., bids will be received by L. V. Murrow, Director of Highways, Olympia, Wash., for constructing a reinforced concrete slab bridge 103 ft. long over Crab Creek, on State Road No. 7 in the town of Odessa, Lincoln County, Project No. NAM 139-D. Plans and specifications obtainable at above office upon deposit of \$2.

COLUMBIA COUNTY, Oregon—Averill & Philpot, Portland, at \$11,872 submitted low bid to Oregon State Highway Commission, R. H. Baldock, State Highway Engineer, Multnomah Hotel, Portland, for constructing two bridge on Nehalem Secondary Highway over Ford and Lyons Creek, Columbia County. Complete bids follow:
Averill & Philpot.....\$11,872
J. W. and J. R. Hillstrom..... 12,279
Braham Bros. & Henningsen.... 12,384
Johnston, Hansen & Johnston.... 12,630
Bids held under advisement.

GILLIAM COUNTY, Oregon.—F. H. May, Bend, at \$16,774 awarded contract by the Oregon State Highway Commission, R. H. Baldock, State Highway Engineer, Multnomah Hotel,

Portland, for constructing a bridge over Rock Creek and six trestles on Six Mile Canyon Section of Wasco-Heppler Secondary Highway. Complete bids follow:

F. H. May, Bend.....	\$16,774
Oregon-Washington Bridge Co.....	18,482
J. W. & J. R. Hillstrom.....	18,655
F. C. Dillard	23,737

DOUGLAS COUNTY, Ore.—Joplin & Elden, Colonial Blvd. and Peninsular, Portland, at \$98,254 awarded contract by the Oregon State Highway Commission, R. H. Baldock, State Highway Engineer, Multnomah Hotel Portland, for constructing Winston bridge over South Umpqua River on Pacific Highway, 7 miles south of Roseburg. Complete bids follow:

Joplin & Eldon	\$ 98,254
Tom Lillebo	98,788
J. J. Badraun	99,158
Gilpin Const. Co.	101,573
Kukenberg-Wittman	102,405
Portland Bridge Co.	103,916
Theo. Arenz	109,559
Northwest Roads Co.	118,795
F. J. Kernan	128,176

KLAMATH COUNTY, Ore.—J. W. and J. R. Hillstrom, Marshfield, at \$13,195 awarded contract by the State Highway Commission, R. H. Baldock, State Highway Engineer, Multnomah Hotel, Portland, for constructing a bridge over Williamson river at Chilcoquin, Klamath county.

Only other bid received was that of Shawmill Engr. & Const. Co., at \$16,355.

MALHEUR COUNTY, Ore.—Pierce, O'Neil & O'Neil, at \$19,256 awarded contract by State Highway Commission, R. H. Baldock, State Highway Engineer, Multnomah Hotel, Portland for constructing a bridge over Owyhee river on Jordan Valley Highway, including 1.18 miles of grading and surfacing of approaches thereto. Complete bids follow:
Pierce, O'Neil & O'Neil.....\$19,256
Morrison - Knudsen..... 19,430
J. A. Terteling & Son..... 19,516
Quinn - Robbins..... 20,496

MARE ISLAND, Cal.—Following are additional contractors who have procured plans for the purpose of submitting bids to the Public Works Officer, Mare Island Navy Yard, on Dec. 12 for the construction of a new causeway between Mare Island and Vallejo. Spec. No. 7448:

American Bascule Bridge Corp., 215 W Illinois St., Chicago.
Virginia Bridge & Iron Co., Roanoke, Virginia.
Scherzer Rolling Lift Bridge Co., 58 W Jackson Blvd., Chicago.
Raymond Concrete Pile Co., 722 15th St. N. W., Washington, D. C.

CAPITAL CITY TITLE COMPANY

J. C. PALEN,
Manager

914 Seventh Street

Sacramento :: California

ALAMEDA COUNTY, Cal.—County forces will proceed at once with repairs to the approach of the High St. bridge across the Oakland estuary, damaged when a barge collided with piling. Estimated cost of repairs, \$2,000. Fred Peterson, Supt. of Bridges.

COWLITZ COUNTY, Wash.—Curtis Gardner Co., Portland, Ore., at \$21,942.00 awarded contract by W. H. Lynch, District Engineer, U. S. Bureau of Public Roads, 316 New Post Office Bldg., Portland, Ore., for constructing bridge over Coldwater Creek on the St. Helens Highway, Columbia National Forest, in Cowlitz County.

SAN FRANCISCO.—The Financial Advisory Committee of the San Francisco-Oakland Bay Bridge has recommended to the California Toll Bridge Authority that a loan of \$15,630,000 be asked from the Reconstruction Finance Corporation to finance construction of terminals and an interurban electric train line for the bridge. Engineers have completed preliminary surveys upon which the application to the R. F. C. will be based, indicating that a complete electric train system can be constructed for the bridge within the amount asked. C. H. Purcell, chief engineer.

SACRAMENTO COUNTY, Cal.—M. A. Jenkins, 3560 Y St., Sacramento, submitted low bid and was awarded the contract by the Sacramento County Board of Supervisors, Sacramento, for repair of a bridge on El Camino Avenue over Arcade Creek. Complete bids follow:
M. A. Jenkins, Sacramento.....\$4438.06
Peterson Constr. Co., Sacto..... 4459.71
P. F. Bender, Sacramento..... 4570.57
Johnson & Son, Sacto..... 4642.98
B. McElderry, Oakland..... 4911.92
A. F. Anderson, Sacto..... 4998.07
J. W. Terrell, Sacramento..... 5137.25
Holdener Constr. Co., Sacto..... 5820.43
H. Gould, Sacramento..... 6539.61
Estimated cost

LAKE COUNTY, Cal.—Until Dec. 13 2 P. M., bids will be received by the State Highway Commission, Sacramento, for constructing a reinforced concrete slab bridge across St. Helena creek 0.3 mile north of Middletown, Lake county, consisting of six 31-ft. spans on concrete piers with steel pile foundations and concrete abutments with wing walls, involving:
(1) 420 cu. yds. struc. excav.;
- (2) 1,050 lin. ft. furnish steel piles, including test piles;
- (3) 52 each drive steel piles, do;
- (4) 27 cu. yds. Class A Port. cement concrete, placed by tremie;
- (5) 536 cu. yds. Class A Port. cem. concrete;
- (6) 77,650 lbs. bar reinf. steel;
- (7) 390 lbs. bronze expansion plates;
- (8) 420 lin. ft. solid timber railing;
- (9) 250 lin. ft. bank protection fence;
- (10) 1 lot misc. items of work.

Plans and specifications obtainable at above office and are on file at the offices of the district engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

22—DREDGING HARBOR WORKS EXCAVATION

SACRAMENTO, Cal.—San Francisco Bridge Co., 503 Market Street, San Francisco, at \$0.1078 submitted only bid to the U. S. Engineer Office, War Department, Sacramento, for dredging 2,780,000 cu. yds. place measure-

ment from an irregular shaped area in the Sacramento river flood channel and Horseshoe Cut. The engineer's estimate, \$0.0919 cu. yd.

Bid held under advisement.

BALBOA, Calif.—Application has been made by A. S. Richardson of Balboa, Cal., for War Department permit to construct a pier, three floats and appurtenances thereto, and to do certain dredging alongside said structure, in Newport Bay, opposite Balboa Island, the southeasterly corner of said pier to be located about 550 ft. northwesterly of U. S. Station No. 104, and the dredged material to be deposited on 100 ft. strip of land shoreward of U. S. bulkhead line easterly of location of proposed pier. Map showing location of the proposed work will be on exhibition in the office of the U. S. Engineer, 715 S Figueroa St., Los Angeles, until 11 A. M., Nov. 24. V. L. Peterson, Lieut. Colonel, Corps of Engineers, district engineer.

SACRAMENTO, Cal.—Until Nov. 28 at 3 P. M., bids will be received by the U. S. Engineer Office, Capt. J. G. Drinkwater, district engineer, 208 Post Office Bldg., Sacramento, for furnishing and placing 12,500 tons of rip-rap stone along the banks of the Sacramento river at three locations in the vicinity of Knights Landing.

Specifications 5808 obtainable from above office.

PORT ALLEN, T. H.—Kauai Railway Company, Port Allen, at \$648,960 awarded contract by Pacific Division Engineer, San Francisco, for constructing a breakwater at Port Allen, T. H., involving the placing of 208,000 tons of rock. Following bids received: Kauai Railway Co., Port Allen, \$3.12 per ton; \$648,960.

Guy Atkinson Co., San Francisco, \$3.30 per ton; \$686,400.

Engineer's Estimate, \$574,690.

On previous opening, low bid was submitted by Guy Atkinson Co., at \$715,520.

SACRAMENTO, Cal.—San Francisco Bridge Co., 503 Market St., at \$0.1078 per cubic yard awarded contract by War Department, Pacific Division Engineer, San Francisco, for dredging 2,780,000 cubic yards from the Sacramento River about 4 miles downstream from the town of Rio Vista.

MARE ISLAND, Cal.—George Pollock, P. O. Box 903, Sacramento, at \$236,720 awarded contract by Navy Department to construct extension to Dike No. 12 at Mare Island.

VENTURA COUNTY, Cal.—Contractors and others who have procured plans for the construction of protection work along the Santa Clara river at Barsdale and South Mountain Rd. bids for which will be opened by the Ventura County Supervisors Dec. 1, 10 A. M., are as follows:

Kellmer Jetty Corp., Box 272, Alhambra.

Pacific Crane & Rigging Co., 6800 S Alameda St., Los Angeles.

Macco Const. Co., 815 N Paramount Blvd., Clearwater.

Shannahan Bros., 6181 Eastern Avenue, Los Angeles.

Merritt-Chapman & Scott Corp., 720 Wilmington-San Pedro Road, San Pedro.

Chas. and Geo. K. Thompson, 2301 W 9th St., Los Angeles.

Consolidated Steel Corp., 5701 East Slauson, Los Angeles.

Pacific Iron & Steel Co., 241 West Avenue 26, Los Angeles.

Kyle Steel Const. Co., 5555 Magnolia Ave., Los Angeles.

SACRAMENTO, Cal.—Lord & Bishop, Native Sons Bldg., Sacramento,

at \$4,222 awarded contract by the U. S. Engineer Office, Sacramento, for furnishing and operating two draglines and performing all work as directed by the engineer for shaping the banks, etc., on the Sacramento river.

SACRAMENTO, Cal.—Until Nov. 28, 3 P. M., bids will be received by the U. S. Engineer Office, Capt. J. G. Drinkwater, District Engineer, Room 208 Post Office Bldg., Sacramento, under Spec. No. 5900 for furnishing and operating one dragline, and performing all work as directed by the engineer for reshaping a short section of the easterly levee of the Yolo By-Pass about ¼ of a mile south of the drainage pumping plant of Reclamation District 1600. The dragline will be required to operate 80 hours and is described as follows:

Length of boom, 40 feet.

Capacity of bucket, 0.5 cubic yard.

Engine, 55 horsepower.

Specifications obtainable from the above office.

SACRAMENTO, Cal.—The Hydraulic Dredging Co., 1210 Central Bank Bldg., Oakland, at \$0.1075 submitted the only bid received by the U. S. Engineer Office, Sacramento, for dredging an irregular shaped area in the Sacramento river flood channel along the westerly edge of Lower Brannan Island, extending approx. 1.7 miles upstream from Three Mile Slough, involving removal of 2,760,000 cu. yds. of material. Engineer's estimate, \$0.0926. Hydraulic Dredging Co. submitted low bid on Nov. 14 at \$0.11 per cubic yard.

ALAMEDA COUNTY, Calif.—Until Dec. 6, 2 P. M., bids will be received by State Highway Commission, Sacramento, for constructing a rock retaining wall about 4.1 miles in length, and placing miscellaneous rip-rap between the westerly end of the Key Mole Fill and the foot of Folger Ave., Berkeley, on the East Bay approach to San Francisco - Oakland Bay Bridge. Bids on this contract were opened previously November 15 and the contract is being re-advertised under new specifications.

Heafey-Moore Co., 344 High Street, Oakland, and Jack Casson, Hayward, at \$430,142.50 submitted low bid.

SACRAMENTO, Cal.—O. G. Ritchie, 154 N 11th St., San Jose, at \$6,575 submitted low bid to U. S. District Engineer, Sacramento, under Spec. No. 5869, for furnishing and placing approximately 250 tons of riprap stone along the westerly bank of the Sacramento river, about 17 miles upstream from Colusa. Complete bids follow:

O. G. Ritchie, San Jose, per ton, \$2.63; total \$6,575.

Lord & Bishop, Sacramento, \$0.95; \$9,875.

Blake Bros. Co., San Francisco, \$4.98; \$12,450.

Engineer's estimate, \$3,707.

23—IRRIGATION PROJ.

IMPERIAL COUNTY, Cal.—The Imperial Irrigation District has authorized Chief Engineer M. J. Dowd to prepare and submit bids on the All-American Canal construction. This action was taken at a directors' meeting Nov. 18.

According to an announcement by R. F. Walter, Chief Engineer, R. M. Priest, formerly in charge of the Yuma Project for the U. S. Bureau of Reclamation, has been appointed resident engineer in charge of the construction of the All-American Canal Project. All men to be employed on the canal construction will probably be hired through the office of

Chan Livingston, Federal Re-employment Agent for Imperial County.

SAN JOAQUIN COUNTY, Cal.—South San Joaquin Irrigation District, Manteca, San Joaquin County, has applied to the Federal Public Works Administration for a loan of \$175,000 and a grant of \$57,000 to finance the repairs and replacements of irrigation structures. Geo. K. Parker, District Engineer. The work involves:

(1) 24,000 cu. yds. excav. and backfill;

(2) 320,000 sq. ft. gunite on canal floor

(3) 312,000 conc. blocks casting, sidewalks;

(4) 312,000 conc. blocks placing, sidewalks;

(5) 17,000 sq. ft. conc. tunnel paving;

(6) 1600 cu. yds. gunite tunnel lining;

(7) 2000 lin. ft. 24-in. conc. pipe;

(8) 15,000 cu. yds. canal cleaning.

Total cost, \$232,000.

ONTARIO, Ore.—Quinn-Robbins Co. Boise, Idaho, at \$32,220 awarded contract by the U. S. Bureau of Reclamation, Ontario, Ore., for preparation of concrete aggregates at the Dunaway gravel pit on the Cwyhee Project.

CALIFORNIA & OREGON.—Federal Public Works Administrator has announced an allotment of \$13,500 to the Bureau of Agricultural Engineering of the Department of Agriculture to be used for eight water-spreading experimental projects in the vicinity of San Bernardino, Cal. The projects will determine the possibility of storing water underground for future use in irrigation work.

An allotment of \$8,000 was made to the same Bureau to be used for installing two experimental sand trap devices on a large irrigation canal near Heber, Cal.

Two thousand three hundred dollars was allotted to the Bureau of Agricultural Engineering for installation of an experimental irrigation and tile drainage system at Medford, Oregon.

PARKER-GILA PROJECT, Ariz.—The Federal Public Works Administration allotted to the Bureau of Reclamation \$100,000 to make engineering studies, plans and specifications for the Parker-Gila irrigation project in Arizona which will include watering 100,000 acres near Parker and 250,000 acres in Gila valley with water from the Colorado river.

24—STREET LIGHTING SYSTEM

HAMILTON FIELD, Marin Co., Cal.—Complete list of bids received for electrical distribution system at Hamilton Field included in the unit bid summary section, this issue.

25—MACHINERY AND EQUIPMENT

SACRAMENTO, Cal.—Bids for furnishing one pneumatic-tired one-man motor grader f.o.b. San Diego, Quotation No. 14009, Request No. 107, were opened by the State Purchasing Agent, Sacramento, November 13. Complete bids follow:

J. D. Adams Co.—Adams No. 30L M'D-D 1 30 tractor with single 38x7 tires, \$3319; with dual tandem 38x7 tires, \$3559; 14 days, 2%, 30 days.

Austin-Western Road Machinery Co.—Austin 77 JR Case CI or IHC 30 motor 32x6 front, 4 38x7 lug type pneumatic rear tires, \$3319; 15 days, 2%, 30 days.

Concrete Machinery Co.—Austin 77, 32x6 front, 36x6 lug type single rear tires, \$3319; 2%, 30 days.

Contractors Equipment & Machinery Co.—Allis-Chalmers-Speed Patrol, 32x

6 front and 3x7 dual rear tires, \$2919; 8 days, 2%, 30 days.

Smith Booth Usher Co.—Gallon EZ Lift, with Mod. 20 Mod. 1 30 Intl. or C. 1. Case tractors, 3x7 rear, 3x6 front tires, \$3319; with 40x8 rear tires, \$3399; 12 days, 2%, 30 days.

SAN FRANCISCO.—Woodin & Little, Inc., 33 Fremont St., at \$55 each, submitted low bid to the U. S. Forest Service, Ferry Building, for furnishing two 4-cycle 4-hp. gasoline engines. Following is a complete list of bids:

Each	
Woodin & Little, Inc.	\$ 55.00
A. L. Young Machinery Co.	82.00
Schleicher Co., Inc.	95.50
Kraiz & McClelland, Inc.	97.00
Schott & Katz	107.50
Fairbanks-Morse, Alt. on 3-hp.	78.99
" Alt. on 5-hp.	106.00

LOS ANGELES, Cal.—T. G. Smith, 8613 Madison Avenue, South Gate, at \$644.88 (rental of equipment per mo.) and \$3.10 (hourly cost for use of the equipment and services of operator) submitted low bid to the U. S. Forest Service, 751 S Figueroa St., Los Angeles, for furnishing services of one gasoline operated power shovel, dipper type, and services of operator as follows:

(1) Use of equipment and services of operator per month of 30 calendar days, not to exceed 208 working hours.

(2) Hourly cost for use of equipment and services of operator for each hour in excess of a total of 288 hours per month, per hour.

The rental period will be for approximately three months.

Complete bids follow:
T. G. Smith, South Gate, (1) \$644.88; (2) \$3.10.

H. E. Martenny, (1) \$728.00; (2) \$3.25.

Kuhn Bros., Manhattan Beach, 1-yd. (1) \$850.00; (2) \$3.50.

(1) \$850.00; (2) \$3.50; 1 1/4-yd., (1) \$950; (2) \$4.50; 1 1/2-in. yd., (1) \$1100; (2) \$6.

Mono Const. Co., Los Angeles, (1) \$925.00; (2) \$3.00.

Wm. C. Horn Co., Pomona, (1) \$975; (2) \$4.00.

Garlinghouse Bros., Los Angeles, (1) \$975.00; (2) \$4.00.

Geo. Herz, San Bernardino, 1-yd., (1) \$990.00; (2) \$5.00; 1 1/2-yd. (1) \$1,190.00; (2) \$6.00.

Lang Transportation Co., Los Angeles, (1) \$1000.00; (2) \$4.75.

Flickinger Co., Los Angeles, (1) \$1,100.00; (2) \$7.50.

L. M. Railsbach, Los Angeles, (1) \$1,012.96 (2) \$4.87.

F. T. Hickey, Los Angeles, (1) \$1,550.00; (2) \$7.75.

J. P. Pierce, Los Angeles, straight bid of \$3.65 per hour, plus \$150 transportation. 25

LOS ANGELES, Cal.—Garlinghouse Bros., 2416 E 16th St., Los Angeles, at \$1131.90 net, f.o.b., awarded contract by the board of directors of the Metropolitan Water District, for one aggregate hopper and batch weigher under Bid No. 17408. Complete bids follow:

Garlinghouse Bros., L. A.	\$1131.90
State Steel Prod., Inc. (net)	752.64
C. J. Strangman Co., L. A.	846.60
Concrete Mch. & Supply Co.	955.50
A. V. Swartz, L. A.	1087.80
Stephens-Adamson Mfg. Co.	1125.00
Los Angeles, (Alt.)	1040.00
H. C. Collins Mch. Co., L. A.	1499.40
Madson Iron Works, Hunting-	
ton Park	1499.49
Smith, Booth, Usher, L. A.	1517.62
Blaw-Knox & Western, L. A.	1564.31

LOS ANGELES, Cal.—Frank Britton, Los Angeles, at \$100 per month, awarded contract by the U. S. Forest Service, 751 S Figueroa St., Los Angeles, for furnishing one 1 1/2-ton dump truck (Ford or Chevrolet type) on a

rental basis for a period of from one to six months, under Request No. 162.

SAN FRANCISCO.—Edward R. Bacon Co., 17th and Folsom Sts., at \$16,315 submitted low bid to the Purchasing Officer, 12th Naval District, 100 Harrison St., for furnishing one concrete mixing plant complete. The other bids were:

N. K. Davis, Inc., S. F.	\$21,000
Blaw-Knox & W. P. Steel, S. F.	23,385

All bids held under advisement.

PUGET SOUND, Wash.—Ideal Elec. & Mfg. Co., Mansfield, Ohio, at \$21,975 awarded contract by the U. S. Bureau of Yards & Docks for furnishing a motor generator under Spec. No. 7485.

26—RAILROADS

FORT MASON, San Francisco.—Fay Improvement Co., 760 Market St., San Francisco, at \$27,255 submitted the low bid to the Constructing Quartermaster, Fort Mason, for relaying and reconditioning railroad tracks at Fort Mason. Total bids follow (all bidders of San Francisco):

Fay Improvement Co.	\$27,255
Theo. Cohn	27,375
Eaton & Smith	28,262
Pacific Pavements Co., Ltd.	28,858
Ben C. Gerwick	30,910
M. B. McGowan, Inc.	33,751
Chas. L. Harney	38,980

Eaton & Smith, at \$30,163, submitted low bid on November 2 when bids were previously received. The former bids were rejected and project re-advertised under new specifications.

28—FIRE EQUIPMENT

SACRAMENTO, Calif.—The City of Sacramento has applied to the Federal Administration of Public Works for a loan of \$160,000 and a grant of \$65,000 to finance the construction of a new central fire department building, alarm boxes and underground system; also equipment for central office and engine houses. Fred. J. Claus, city engineer; Carl Beaton, city electrical engineer, assisted by the engineers of the Gamewell Co., 12th and Broadway, Los Angeles, have completed preliminary plans.

31—PIPE LINES & WELLS

MARCH FIELD, Riverside Co., Cal.—Until Nov. 29, 10 A. M., bids will be received by the Constructing Quartermaster, March Field, Riverside, for the construction of a 400,000-gal. concrete reservoir, with piping, at March Field. Bid No. W 6694-QM-34-9. The estimated cost is \$8,000.

The proposed reservoir will be of reinforced concrete construction, inside diameter 60 ft., height from finish floor to roof 21-ft. The roof will be 6-in. reinforced concrete, with 12-in. walls, and 8-in. floor. There will be four inside columns 20x20-in.

In constructing the reservoir the walls and footings must be monolithic poured and the specifications do not permit the use of any form ties or wires. The forms are to be supported entirely from the outside. The mix is designated as 1:1 1/2:3.

Piping will involve construction of connections to present pump plant, and will include about 200 ft. 10-in. cast iron suction line, about 200 ft. 12-in. overshot line into tank from well, and about 200 ft. of 6-in. drain line. All pipe will be AWWA Class B or Class 150 pipe, and fittings and specials Class D.

Plans may be obtained from the Constructing Quartermaster upon deposit of a certified check for 10.00. Chas. F. Fletter, 1st Lieut., Q. M. C., constructing quartermaster.

LOS ANGELES, Cal.—United Concrete Pipe Corp., Box 1, Station H, Los Angeles, at \$66,788 awarded the contract by the Metropolitan Water District, Los Angeles, Nov. 17, for constructing the Little Morongo Canyon Siphon and appurtenant works of the Colorado River aqueduct in Riverside County. The bids were opened October 30.

LOS ANGELES, Cal.—Until Nov. 27, 2 P. M., bids will be received by the Los Angeles County Supervisors for Clearing the reservoir site at San Gabriel Dam No. 2. Bids will be taken on alternative proposals as follows:

(1) Clearing 165 acres of all trees and brush in San Gabriel reservoir. This bid is predicated on the provision that the contractor will pay the flood control district \$.50 per cord for all fire wood obtained in clearing operation, said wood to become the property of the contractor.

(2) Clearing 165 acres of all trees and brush in San Gabriel Reservoir. This bid is predicated on the provision that the contractor will stack all fire wood above high water line.

E. C. Eaton, 202 N. Broadway, County Flood Control Engineer, Mame B. Beatty, 501 Hall of Records, Clerk of the Board.

32—SEWERS & SEWAGE DISPOSAL PLANTS

PHOENIX, Arizona — An election will be held December 9, to vote on a \$1,520,000 bond issue to finance the repayment of Federal Public Works loans. The projects included are:

- Sanitary sewers, \$340,000.
- Storm sewers, \$260,000.
- Extension to water system, \$200,000.
- Parks and playgrounds, \$720,000.

FRESNO, Fresno Co., Cal.—Fresno City Council will place a bond issue in the sum of \$35,000 for storm sewer extensions before the voters on Dec. 19. Federal Public Works Administration funds will be asked if the bonds are approved.

ONTARIO, Cal.—An election to vote on a \$60,000 bond issue to finance the construction of a sewage disposal plant will be held Dec. 5. The issue is designed to assist Ontario in its plans to finance jointly with Upland a disposal plant serving both cities. Application will be made for federal aid. Currie Engr. Co., San Bernardino, is the engineer.

NORTH SACRAMENTO, Cal.—The North Sacramento City Council has approved plans for construction of a sewage treatment plant. Construction of the plant will be delayed, however, until early next year when it is anticipated that financing under the 1933 State Revenue Bond Act will be completed. Estimated cost, \$27,000. City Engineer, Carl Knight; Consulting Engineer, Harry Jenks, Berkeley.

BERKELEY, Alameda Co., Calif.—Berkeley city council will ask bids shortly to construct sewer on Marin Street from Spruce to Cragmont, involving:

- (1) 655 ft. 12-in. vit. or conc. sewer;
- (2) 15 ft. 10-in. vit. or conc. sewer;
- (3) 3 manholes.

OXNARD, Cal.—An election will be held Dec. 11 to vote on a \$54,000 bond issue to finance the construction of a sewage treatment plant and enlarging and reconstructing the sewer outfall line. Frank B. Pettis, city clerk.

MONTEREY, Monterey Co., Calif.—A bond issue of \$86,000 to finance the construction of an outfall sewer and

Intercepting sewers was approved by a vote of 446 to 164 at a special election held Nov. 20. An application for a Federal grant of 30% of the cost will be made. Bids probably will be asked shortly after the first of the

- The Work involves:
- (1) 700 ft. 15-in. sewer pipe;
 - (2) 2,600 ft. 21-in. do;
 - (3) 3,167 ft. 27-in. do;
 - (4) 133 ft. 33-in. do;
 - (5) 2,700 cu. yds. hardrock;
 - (6) 11,300 cu. yds. soft rock;
 - (7) 1,200 cu. yds. backfill;
 - (8) 13,000 cu. yds. backfill;
 - (9) surge tank;
 - (10) 20 manholes.

H. D. Severance, city engineer. C. E. Grunsky, Commercial Building, San Francisco, consulting engineer.

SAN MATEO, San Mateo Co., Cal.—San Mateo city council has set Jan. 9, 1934, as the date for a special election to vote on a bond issue of \$102,840 to finance construction of a sewage disposal plant to be located on Seal Slough. Estimated cost, \$140,000. Application has been made for a Federal loan and grant to aid financing. E. P. Wilsey, city engineer.

- The Work involves:
- (1) 150 lin. ft. 15-in. vitrified pipe;
 - (2) 1000 lin. ft. 21-in. do;
 - (3) 8350 lin. ft. 24-in. do;
 - (4) 2800 lin. ft. 27-in. do;
 - (5) 3500 lin. ft. 20-in. C. I. force main
 - (6) 30 brick manholes;
 - (7) pump house;
 - (8) clarification and digestion tank;
 - (9) " machinery;
 - (10) pipe, valves and fittings;
 - (11) road construction;
 - (12) control house, complete;
 - (13) sludge heating equipment and sludge pump;
 - (14) 4000 lin. ft. 3-in. C. I. water pipe
 - (15) sewage meter;
 - (16) sludge drying beds, complete;
 - (17) landscaping and fencing.

BRAWLEY, Imperial Co., Cal.—The City of Brawley has applied to Federal Administration of Public Works for a loan and grant of \$108,000 to finance the construction of two new outfall sewer lines, emptying into the New River, which the City of Brawley will build from the proceeds of a bond issue for \$108,000 which was approved by voters Oct. 27.

Koebig & Koebig, 821 Rowan Bldg., Los Angeles, consulting engineers, have completed plans for the work.

33— WATERWORKS

BELMONT, San Mateo Co., Calif.—The City of Belmont has applied to the Federal Administration of Public Works for \$45,000 to finance the construction of water works projects as follows:

Water mains of 4- 6- and 8-in. cast iron pipe and 2-in. wrought steel pipe, \$17,775.

Pumping station and equipment, \$8-725.

Storage tanks of 695,000 gal. capacity, \$9400.

Valves and hydrants, \$2335.

Lands and rights of way, \$1500.

The quantities of materials, etc., involved are:

- (1) 8,800 lin. ft. 8-in. cast iron pipe;
- (2) 10,000 lin. ft. 6-in. do;
- (3) 3,600 lin. ft. 4-in. do;
- (4) 50 lin. ft. 2-in. wrought iron pipe
- (5) 3 8-in. gate valves;
- (6) 26 6-in. gate valves;
- (7) 9 4-in. gate valves;
- (8) 3 2-in. gate valves;
- (9) 28 hydrants;
- (10) pumps and motors;
- (11) pump house;
- (12) switchboard and wiring;
- (13) 2 steel tanks;
- (14) altitude valves, etc.

Geo. A. Kneese, Redwood City, is the engineer.

NEWARK, Alameda Co., Cal.—Martin Murphy, 1524 Milvia St., Berkeley, at \$1446 submitted low bid to Alameda County Water District Directors, Centerville, for laying about 5000 ft. new main pipeline (pipe to be furnished by district) from Thornton Ave. in Newark. (Fittings to be furnished by contractor).

Bids previously published October 25, were rejected after Harvey E. Connor, Redwood City, low bidder, at \$1171, refused the contract. Complete bids follow:

Martin Murphy	\$1446
Pioneer Pipe Co., San Francisco	1596
H. E. Connor, Redwood City.....	1654
Tierney & Bettencourt, Oakland	1740
W. J. Tobin, Oakland.....	1750
Pacific Pipe Co., San Francisco.....	1750
T. C. Binkley, Palo Alto.....	1765
Pete Freitas, Newark.....	1800
O. G. Ritchie, San Jose.....	1856

WILLIAMS, Ariz.—The Well & Engineering Co., Pueblo, Colo., has submitted a detailed report on the two possible sites to be considered as a source of water supply for Williams. The total cost of the Dog Town wash development, including the required rebuilding of the present system, is estimated at \$119,657.90, which would be reduced to \$87,023.92 if loan is granted on a 30-70 basis. Construction of a water system at West Cataract Creek would cost \$100,987, with a F.P.W.A. loan reducing this to \$73,445.18. The engineers favor the Dog Town wash site because of the larger run-off, its location on forest land, and it would be a gravity plan, making the installation of a power pump unnecessary. It is also said the upkeep and ultimate cost of this site would be less, although the initial outlay would be greater than that required by the West Cataract site.

SANTA CLARA COUNTY, Calif.—The Board of Supervisors of Santa Clara County has set Jan. 5, 1934, as the date for an election on a proposal to form a water district in the Cupertino-Fremont area. Residents of the district propose to establish their own water supply system.

CRESCENT CITY, Ded Norte Co., Calif.—The Crescent City city council has authorized an application for a loan and grant of \$300,000 from the Federal Public Works Administration to finance a municipal light and power plant and a municipal water system. L. C. Lake is mayor.

REDWOOD CITY, San Mateo Co., Cal.—Until Dec. 4, 3 P. M., bids will be received by the Redwood City city council for extensions to the municipal water system in the Emerald Lake District, involving:

- (1) 6200 lin. ft. 8-in. cast iron pipe;
- (2) 1,000,000-gallon reservoir, concrete lined.

Bids are to be received by the City Manager up to 3 P. M., for opening at 8 P. M. Estimated cost, \$20,000. Plans and specifications obtainable from D. E. Myers, City Clerk, City Hall. C. L. Dimmitt, city engineer. Work is financed in part by PWA funds.

VISALIA, Cal.—Visalia city council has instructed City Engineer J. J. Philippe to submit report on a preliminary survey of the proposed municipal water system. The report is expected at the Dec. 4 meeting of the council. Councilmen voted against employing consulting engineers until the preliminary survey had been made.

BRAWLEY, Imperial Co., Cal.—The City of Brawley has applied to Fed-

eral Administration of Public Works for a loan and grant of \$223,000 to finance the construction of a water filtration plant and water mains. Bonds in the amount of \$65,000 for the plant and \$158,000 for the mains were authorized at the bond election Oct. 27.

Koebig & Koebig, 821 Rowan Bldg., Los Angeles, consulting engineers, have completed plans for the work.

29—STREETS AND HIGHWAYS

LINCOLN COUNTY, Wash.—Until December 5, 10 A. M., bids will be received by L. V. Murrow, Director of Highways, Olympia, Washington, for grading and surfacing about 2.2 miles of State Road No. 7, Lamona West, Proj. No. NRH 139-B, in Lincoln County, involving:

- (1) 57,300 cu. yds. excav. and gravel borrow;
- (2) 5740 cu. yds. cru. stone surfacing;
- (3) 1115 lin. ft. cable guard rail;
- (4) 501 lin. ft. pipe culverts;
- (5) Miscellaneous items of work.

Plans and specifications obtainable from above office upon deposit of \$2.

PEND OREILLE COUNTY, Wash.—Until December 5, 10 A. M., bids will be received by L. V. Murrow, Director of Highways, Olympia, Washington, for grading and surfacing about 8.1 miles of State Road No. 6, Blueslide to Tiger, Proj. No. NRS 193-C, surfacing about 0.6 miles of State Road No. 6, Ruby Creek Bridge Approaches, Proj. No. NRS 193-B and Jared-Ruby Undercrossing Approaches, Proj. NRS 193-A, all in Pend Oreille County, involving:

- (1) 26 acres clearing;
- (2) 145,700 cu. yds. excav. and gravel borrow;
- (3) 25,130 cu. yds. cru. stone surfacing
- (4) 3340 lin. ft. cable guard rail;
- (5) 2 pile and frame trestles with a total length of 112.5 ft.
- (6) 1215 lin. ft. pipe culverts;
- (7) Miscellaneous items of work.

Plans and specifications obtainable from above office upon deposit of \$2.

LEWIS COUNTY, Wash.—Until December 5, 10 A. M., bids will be received by L. V. Murrow, Director of Highways, Olympia, Washington, for paving with Portland cement concrete about 0.9 miles of State Road No. 1, National Ave., in the City of Chehalis. NRM Highway Proj. No. NRM 57-B, in Lewis County, involving:

- (1) 1860 cu. yds. excav.;
- (2) 610 cu. yds. surf. and ballast;
- (3) 2243 cu. yds. pavement concrete;
- (4) 12,320 lbs. pavement reinf.;
- (5) 78,600 lbs. struc. steel (R.R. ties, etc.)
- (6) Pile and frame trestle 16.5 ft. long
- (7) Miscellaneous items of work.

Plans and specifications obtainable from above office upon deposit of \$2.

PIERCE COUNTY, Wash.—Bids will be received by L. V. Murrow, Director of Highways, Olympia, Wash., until Dec. 5, 10 A. M., for paving with Portland cement concrete about 6 mi. of State Road No. 1, Ponders to Fort Lewis, National Recovery Highway Proj. No. NRH 171, and Federal Land Project No. 4, in Pierce County.

Plans and specifications obtainable from above office upon deposit of \$2.

YAKIMA AND KLIKITAT COS., Wash.—Carl Bjork, 3437 W. 63rd St., Seattle, at \$8308 awarded contract by L. V. Murrow, State Director of Highways, for constructing about 23,080 lin. ft. cable guard rail. Toppenish Creek to Satus Pass, in Yakima and Klickitat Counties. The other bids were:

Andrew Sather, Seattle, \$8631; Smith Bros., Naches, \$8885.

LINCOLN AND SPOKANE COUNTIES, Wash.—Until December 5, 10 A. M., bids will be received by L. V. Murrow, Director of Highways, Olympia, Wash., for grading and surfacing about 6.1 miles of State Road No. 11, Sprague to Cheney Revisions, Proj. No. NRH 133-D and NRH 20 in Lincoln and Spokane Counties, involving: (1) 125,420 cu. yds. excav. and gravel borrow; (2) 15,580 cu. yds. stone surfacing; (3) 700 lin. ft. cable guard rail; (4) 1222 lin. ft. pipe culverts; (5) Miscellaneous items of work.

Plans and specifications obtainable from above office upon deposit of \$2.

WALLA WALLA COUNTY, Wash.—J. H. Collins & Co., Walla Walla, at \$30,786 awarded contract by L. V. Murrow, State Director of Highways, for paving 0.6 miles of State Road No. 3, Isaacs and Wellington Aves., in Walla Walla. The other bids were: George Harding, Walla Walla, \$35,706; Midstate Contract Co., Yakima, \$36,097.

CLACKAMAS COUNTY, Ore.—Until Nov. 29, 10 A. M., bids will be received by the U. S. Bureau of Public Roads, W. H. Lynch, District Engineer, 316 New Postoffice Bldg., Portland, Ore., for improving the Mount Hood and Wapinitia bituminous macadam projects NR-25-A6, C9, and NR 26-A4, National Forest Road projects located within the Mt. Hood National Forest, Clackamas County, Ore., 2,676 miles and 7,374 miles respectively, in length, involving:

- (1) 1,000 cu. yds. unclass. excav.;
- (2) 10.05 miles prepare subgrade;
- (3) 14,500 cu. yds. mineral agg. CIP;
- (4) 850 tons asphalt CIP;
- (5) 110 tons RC-3 grade liquid asph. C

Plans and specifications obtainable from above office upon deposit of \$10.

SAN DIEGO, Cal.—Daley Corp., 4430 Boundary St., San Diego, at \$22,270 awarded contract by Navy Department, under Specification No. 7553, for improvement of Drill Grounds at the Naval Operating Base, San Diego.

YAKIMA COUNTY, Wash.—Until Nov. 29, 10 A. M., bids will be received by the U. S. Bureau of Public Roads, W. H. Lynch, district engineer, 316 New Postoffice Bldg., Portland, Ore., for grading 2.890 miles of the Randle-Yakima Highway, Grading Project NR-13-L2, O, National Forest Road Project, located within the Snoqualmie National Forest, Yakima County, involving:

- (1) 12 acres clearing;
- (2) 18 acres grubbing;
- (3) 86,700 cu. yds. unclass. excav.;
- (4) 241,000 sta. yds. overhaul;
- (5) 2,890 miles finish earth graded rd.;
- (6) 103 lin. ft. reinf. conc. pipe;
- (7) 860 lin. ft. culverts (Alt.);
- (8) 1,500 cu. yds. loose rip-rap;
- (9) 9,000 flatten and round out cut slopes.

Plans and specifications obtainable from above office upon deposit of \$10.

KITSAP COUNTY, Wash.—Until December 5, 10 A. M., bids will be received by L. V. Murrow, Director of Highways, Olympia, Wash., for paving with Portland cement concrete about 0.5 ml. of State Road No. 21, Callow Ave. and Sixth St. in City of Bremerton, Kitsap County, Proj. No. NRM 175-C. Plans and specifications obtainable from above office upon deposit of \$2.

DOUGLAS COUNTY, Oregon—All bids received by the Oregon State

Highway Commission, R. H. Baldeck, State Highway Engineer, Multnomah Hotel, Portland, for grading 0.95 mi. of the Winstan Bridge Section of the Pacific Highway have been rejected. The project will be re-advertised. G. I. Stebbins Constr. Co., at \$57,504 submitted low bid on November 15.

CURRY COUNTY, Oregon—J. W. and J. R. Hillstrom, Marshfield, at \$10,305 awarded contract by the Oregon State Highway Commission, R. H. Baldeck, State Highway Engineer, Multnomah Hotel, Portland, for grading 0.59 miles of the Sixes River Section of Cape Blanche Secondary Highway. Only other bid received, that of F. C. Dillard, at \$14,060.

DOUGLAS COUNTY, Oregon—All bids received by the Oregon State Highway Commission, R. H. Baldeck, State Highway Engineer, Multnomah Hotel, Portland, for paving 1.06 miles and surfacing 0.12 mi. of the Rice Hill Section of the Pacific Highway have been rejected. The project will be re-advertised. Jacobsen-Jensen, at \$34,330 submitted low bid November 15.

LINN COUNTY, Ore.—United Contracting Co., Stock Exchange Bldg., Portland, at \$69,699 awarded contract by the Oregon State Highway Commission, R. H. Baldeck, State Highway Engineer, for widening and re-surfacing 6.4 miles asphalt concrete pavement with penetration type bituminous macadam and construction of 0.9 mile of bituminous wearing surface on the Albany-Tangent Section of the Pacific Highway. Complete bids follow:

United Contracting Co.	\$69,699
J. C. Compton	72,065
Babler Brothers	74,488
Northwest Roads Co.	80,031
A. Milne	83,408

KING COUNTY, Wash.—N. Fiorite, 844 W 84th, Seattle, at \$19,021 awarded contract by L. V. Murrow, State Director of Highways, for paving with Portland cement concrete 0.2 mile of First Avenue north, in the city of Renton. The other bids were: Northwest Const. Co., Seattle, \$19,069; Goetz & Brennan, Seattle, \$22,792.

RIVERSIDE & San Bernardino Cos., Cal.—Until Dec. 5, 2 P. M., bids will be received by C. H. Sweetser, District Engineer, U. S. Bureau of Public Roads, 461 Market St., San Francisco, for grading Section A of Federal Lands Highway Project No. 2, the Blythe-Needles Highway in Riverside and San Bernardino counties, involving:

- (1) 276,000 cu. yds. unclass. excav.;
- (2) 45,600 cu. yds. unclass. excav. for ditch and dyke;
- (3) 800 cu. yds. unclass. excav. for structures;
- (4) 123,000 sta. yds. overhaul;
- (5) 45,000 cu. yds. mi. overhaul;
- (6) 33,498 miles finish earth graded rd.
- (7) 82 cu. yds. concrete;
- (8) 7,000 lbs. reinf. steel;
- (9) 5,242 lin. ft. corr. metal pipe.

Plans and specifications obtainable from above office upon a deposit of \$10.00.

MONTEREY COUNTY, Cal.—S. Westcott Plumbing & Electrical Co., Soledad, at \$2497.93 submitted low bid to Division of Highways, District V, San Luis Obispo, for constructing 7.2 miles of property fence in Monterey County, between Gonzales and Soledad.

MORROW COUNTY, Ore.—Saxton & Looney, Corvallis, at \$34,533 awarded contract by the Oregon State Highway Commission, R. H. Baldeck, State

Highway Engineer, Portland, for grading 3.1 miles of Hardman-Rock Creek section of Heppner - Spray secondary highway. Complete bids follow:

Saxton & Looney	\$34,533
Morton, Haskins & Brooks	35,657
S. H. Newell & Co.	35,810
Berkemeier & Saramel	37,770
March Const. Co.	38,855
Chas. H. Leonard	41,945
Fred H. Slate	42,350
J. A. Lyons	42,827
United Contracting Co.	43,112
Meyers & Goulter	43,435
E. L. McNutt	47,237

MULTNOMAH CO., Ore.—Jacobsen-Jensen, at \$34,330 awarded contract by the Oregon State Highway Commission, R. H. Baldeck, State Highway Engineer, Multnomah Hotel, Portland, for paving and curbing on 82nd Ave., East city limits section of Base Line Highway. Complete bids follow:

Jacobsen-Jensen	\$34,330
Kern & Kibbe	36,957
Theo. Arenz	37,610
Harold Blake	40,585
United Contracting Co.	40,778
Northwest Roads Co.	42,977
Parker-Schramm	46,699

CARSON, Wash.—J. C. Papin, Carson, at \$29,807 (concrete pipe) and at \$29,841 (metal pipe alt.) submitted the low bid to the U. S. Bureau of Public Roads, W. H. Lynch, District Engineer, 316 New Postoffice Bldg., Portland, Ore., for grading 1.3 miles of the Wind River Road near Carson. The other bids were:

Fred H. Slate, Portland, \$32,145; \$32,145.

Clifton & Applegate, Spokane, \$37,355; \$37,422.

P. L. Crooks, Portland, \$42,802; \$43,003.

J. A. Lyons, Portland, \$48,376; \$48,543.

Award to the low bidder has been

GRANT CO., Wash.—N. A. Degerstrom, E15 32nd, Spokane, at \$55,616 awarded contract by L. V. Murrow, State Director of Highways, Olympia, for grading and surfacing about 1.9 miles of Grand Coulee Highway, Alkali Lake Section No. 2. The other bids were: Halleran Bros., Seattle, \$61,987; James Coyle, Seattle, \$62,450.

MARION COUNTY, Ore.—L. O. Herrold, Salem, at \$44,841 awarded contract by State Highway Commission, R. H. Baldeck, State Highway Engineer, Multnomah Hotel, Portland, for paving North Salem Section of Pacific Highway. Complete bids follow:

L. O. Herrold	\$44,841
Theo. Arenz	46,324
United Contracting Co.	49,952

MALHEUR COUNTY, Ore.—S. H. Newell & Co., Board of Trade Bldg., Portland, at \$32,550 awarded contract by the State Highway Commission, R. H. Baldeck, State Highway Engineer, Multnomah Hotel, Portland, for grading 14 miles Jackson Creek-McDermitt Section of I.-O.-N. Highway. Complete bids follow:

S. H. Newell & Co.	\$32,550
E. L. McNutt	45,970
Morrison - Knudsen	54,090
Geo. French, Jr.	61,625

BONNEVILLE, Ore.—Joslin & McAllister, 3038 E Trent Ave., Spokane, Wash., at \$9,004 awarded contract by the U. S. Engineer Office, Portland, under Bid No. 34-198, for the construction and surfacing of a roadway from a point on the Columbia River Highway near Bonneville Dam, approximately 2,500 ft. in length, and a branch road to serve camps and material yards, 800-ft. more or less in length.

WASHINGTON STATE.—The following projects in the Wenatchee National Forest, Chelan County, State of Washington, will be advertised for bids to be received as soon as plans and specifications can be prepared. Weather conditions at that time may preclude the contractors interested in viewing the work. It is therefore recommended that interested contractors go over the projects immediately to insure that when advertisement for bids is issued they will be informed and in a position to submit bids:

NR-8-A3—Grading and Draining

The improvement contemplated consists of grading and draining a distance of approximately 2.5 miles beginning at a point on the present Stevens Pass Highway approximately ¼ mile east of the town of Merritt, at Sta. 813 plus 48.7, and extending approx. 2.5 miles west as located by the Highway Department of the State of Washington.

NR-9-A6—Widening & Surfacing

The improvement contemplated consists of widening at points in cut and fill where the road is narrow and visibility poor, the placing of pit run subbase and crushed rock surfacing; the production and stock piling of crushed rock for oil surfacing and the construction of wood guard rail over approximately 11.1 miles of the Sunset Highway, beginning at Blewett Pass Sta. 1 plus 52.8 and extending northerly to Ingalls Creek at Station 588 plus 12.

For further information the contractors should contact John Duff, District Engineer, Washington, State Highway Dept., Wenatchee, Wash.

W. H. Lunch, District Engineer U. S. Bureau of Public Roads, 316 New Postoffice Bldg., Portland, Ore.

ARIZONA STATE.—New Mexico Const. Co., Albuquerque, at \$198,630.61 submitted low bid to Arizona State Highway Commission, Phoenix, Nov. 17, for constructing the Flagstaff-Fredonia Highway Project N.R.H. 95-C. The bid on the alternate was \$199,-245.11. The work begins at the Grand Canyon Bridge near Lee's Ferry and extends south approximately 20 miles, and consists of grading and draining, and is to be completed on or before August 31, 1934.

The second low bid was submitted by Strong & Grant, at \$219,022.35; alternate, \$222,709.35.

POLK COUNTY, Ore.—Charles H. Leonard, Albany, at \$67,764 awarded contract by the Oregon State Highway Commission, R. H. Baldock, State Highway Engineer, Multnomah Hotel, Portland, for grading and surfacing 3.85 miles of the Buell-Salt Creek Section of the Dallas-Coast Secondary Highway; bridge over Salt Creek and a concrete stock pass. Complete bids follow:

Chas. H. Leonard, Albany.....	\$67,764
Earl L. McNutt, Eugene.....	68,974
Fred H. Slate, Portland.....	69,308
Theo. Arenz, Portland.....	71,056
G. I. Stebbins Const. Co., Klamath Falls	75,989
Saxton & Looney, Corvallis.....	77,271
Joplin & Eldon, Portland.....	79,523
Guthrie - McDougall Co., Portland	82,516
J. A. Lyons, Portland.....	82,842
F. C. Dillard, Yunker, Wiecks & Co., Toledo, Wash.	89,693
United Contr. Co., Portland	90,238

SAN FRANCISCO — Adam Arras, 2476 Howard St., at \$1825.25 submitted low bid to the Department of Public Works, S. J. Hester, Deputy Director, Room 251, City Hall, for street improvement, involving 18,752 sq. ft. of sidewalk on the following streets:

South one-half of Jackson St., bet. Steiner and Scott Sts.

West one-half of Steiner St., bet. Jackson and Clay Sts.

North one-half of Clay St., between Steiner and Scott Sts.

East one-half of Scott St., between Jackson and Clay Streets.

Complete bids follow:

Adam Arras, San Francisco.....	\$1825.25
M. J. Lynch, San Francisco.....	1909.17
De Luca & Son, Inc., S. F.....	1949.91
D. C. McCabe, San Francisco.....	1955.73
Albany Cement Contractors, Inc., Albany	2030.23
M. Bertolino, S. F.....	2048.86
M. E. Vukicevich, S. F.....	2141.99
E. J. Treacy, San Francisco.....	2160.62
C. L. Harney, San Francisco.....	2216.49
Carl Frank Co., San Francisco	2607.64

CLARK CO., Nevada.—Dodge Const. Co., Inc., Fallon, Nev., at \$210,819.89 awarded contract by Department of Highways, Carson City, for reconstructing 11.90 miles of state highway, Route 6, Section C2, between Bard and Las Vegas, Clark County. Olof Nelson, Logan, Utah, at \$222,277.60 submitted second low bid. Complete bids will be published next week.

WASHOE COUNTY, Nevada—Union Paving Co., 624 Call Bldg., San Francisco, at \$253,579.67 awarded contract by Department of Highways, Carson City, for reconstructing approximately 13.51 miles of state highway, Route 1, Sections B2 and C1, between Vista and Clark, Washoe County. Dodge Const. Co., Inc., Fallon, at \$259,932.12 submitted second low bid. Complete bids will be published next week.

SAN FRANCISCO.—The San Francisco Board of Public Works has adopted plans and specifications for improving Rivera St. between 34th and 35th Avenues, and will ask for bids in the near future. Estimated cost, \$5265. The work involves:

- (1) 5000 cu. yds. excavation;
- (2) 220 lin. ft. 8-in. V.C.P. sewer in place;
- (3) 14 lin. ft. 8x6-in. Y branches, in place;
- (4) 300 lin. ft. 6-in. VCP side sewer in place;
- (5) 1 brick manhole complete;
- (6) 240 lin. ft. 8-in. cast iron water main in place;
- (7) 14 lin. ft. ¾-in. galv. wrought iron pipe water services;
- (8) 12,000 sq. ft. asph. conc. pave., consisting of 6-in. Class F concrete base and 2-in. asph. conc. wearing surface.

MONTEREY CO., Cal.—S. Westcott Plumbing & Electrical Co., Soledad, Cal., at \$2497.93 (as previously reported) submitted low bid to Division of Highways, District V, San Luis Obispo, for constructing 7.2 miles of property fence in Monterey County between Gonzales and Soledad. Complete bids follow:

S. Westcott Plbg & Elec. Co.....	\$2497.93
L. A. Brisco, Arroyo Grande ..	3142.50
Edw. R. Jameson, Sacramento	3035.19
John Fesler, Santa Maria.....	3086.74
A. J. Grier, Oakland.....	3300.20
W. B. Roselip, San Luis Obispo	3523.76
C. W. Lane, Paso Robles.....	3541.65
Tieslau Bros., Berkeley.....	4406.70

HUMBOLDT COUNTY, Cal.—Until Dec. 13, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for grading and surfacing with screened gravel about 0.7 miles between Smith Point and Twin Tree Bridge, Humboldt County, involving:

- (1) 7.5 acres clear and grub right of way;
- (2) 40,650 cu. yds. rdwy. excav., unclassified;
- (3) 68,800 sta. yds. overhaul;
- (4) 3,050 cu. yds. imported borrow;
- (5) 1,030 cu. yds. selected material;

- (6) 850 cu. yds. struc. excav.;
- (7) 4,750 cu. yds. gravel base;
- (8) 1,400 cu. yds. screened gravel surfacing;
- (9) 12 cu. yds. Class A Port. cement concrete struc.;
- (10) 450 lbs. bar reinf. steel struc.;
- (11) 60 lin. ft. 8-in. CMP;
- (12) 390 lin. ft. 18-in. CMP;
- (13) 140 lin. ft. 24-in. CMP;
- (14) 46 lin. ft. 36-in. CMP;
- (15) 32 lin. ft. 42-in. CMP;
- (16) 500 lin. ft. 8-in. perf. metal pipe;
- (17) 3 each spillway assemblies, complete in place;
- (18) 90 each timber guide posts and culvert markers complete in place;
- (19) 830 M. gals. water;
- (20) 110 bbls. heavy fuel oil;
- (21) 95 cu. yds. sacked conc. riprap;
- (22) 50 cu. yds. rubble masonry walls;
- (23) 37 sta. finishing roadway;
- (24) 20 each monuments complete in place.

Plans and specifications obtainable at above office, and on file at the offices of the district engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

TEHAMA COUNTY, Calif.—Until

December 13, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for grading and paving with Portland cement concrete and bituminous treated crushed gravel or stone surfacing about 0.8 mile at Red Bluff, Tehama County, involving:

- (1) 40,000 cu. yds. rdwy. excav., unclassified;
- (2) 290,000 sta. yds. overhaul;
- (3) 615 cu. yds. struc. excav.;
- (4) 300 cu. yds. conc. in exist. pave. and strucs. to be removed and disposed of;
- (5) 7,600 sq. yds. subgrade for pave.;
- (6) 1,025 tons crusher run base;
- (7) 950 tons bit. treated crushed gravel or stone surfacing;
- (8) 20 bbls. heavy fuel oil;
- (9) 1,615 cu. yds. Class A Port. cem. conc. pave.;
- (10) 240 cu. yds. Class A Port. cem. conc. struc.;
- (11) 62,250 lbs. bar reinf. steel pave and struc.;
- (12) 62 lin. ft. 8-in. CMP;
- (13) 116 lin. ft. 12-in. CMP;
- (14) 76 lin. ft. 18-in. CMP;
- (15) 20 lin. ft. 24-in. CMP;
- (16) 12 lin. ft. 24-in. extra strength reinf. conc. pipe;
- (17) 2 each spillway assemblies;
- (18) 6 each culvert markers;
- (19) 1,000 M. gals. water;
- (20) 40 sta. finishing rdwy.;
- (21) 22 each monuments complete in place.

Plans and specifications obtainable at above office, and are on file at the offices of the District Engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

LINN COUNTY, Oregon—Kern &

Kibbe, 290 E. Salmon St., Portland, Ore., at \$184,802 awarded contract by W. H. Lynch, District Engineer, U. S. Bureau of Public Roads, Portland, Ore., for clearing 7.8 miles and grading 5.3 miles of the Santiam Highway, Project NR-23-H, in Linn County, Oregon.

SANTA CLARA COUNTY, Cal.—A

J. Raisch, 251 Kearny St., San Francisco, at \$41,740 submitted low bid and was awarded the contract by the Santa Clara Board of Supervisors, San Jose, for resurfacing 3.16 miles of the Santa Clara-Alviso Road, northerly from the Santa Clara City limits. Union Paving Co., San Francisco, at \$42,988 submitted the only other bid. Engineer's estimate, \$38,440.

MONTEREY COUNTY, Cal.—Until Dec. 13, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for grading about 3.1 mi. between Big Sur and 1. miles south of Moleras Ranch, in Monterey County, involving:

- (1) 25 acres clear and grub right of way;
 - (2) 80 each remove and grub redwood trees, size 1;
 - (3) 39 each do, size 2;
 - (4) 32 each do, size 3;
 - (5) 6 each do, size 4;
 - (6) 21 each remove redwood trees, size 1;
 - (7) 18 each do, size 2;
 - (8) 21 each do, size 3;
 - (9) 1 only do, size 4;
 - (10) 290 each remove and grub trees other than redwood, size 1;
 - (11) 42 each do, size 2;
 - (12) 11 each do, size 3;
 - (13) 42 each remove trees other than redwood, size 1;
 - (14) 16 each do, size 2;
 - (15) 7 each do, size 3;
 - (16) 182,000 cu. yds. rdwy. excav., unclassified;
 - (17) 910,000 sta. yds. overhaul;
 - (18) 5,400 cu. yds. struc. excav.;
 - (19) 316 lin. ft. 8-in. CMP;
 - (20) 1,312 lin. ft. 18-in. CMP;
 - (21) 460 lin. ft. 24-in. CMP;
 - (22) 396 lin. ft. 36-in. CMP;
 - (23) 58 lin. ft. 48-in. CMP;
 - (24) 50 lin. ft. half circle 24-in. CMP;
 - (25) 34 lin. ft. half circle 30-in. CMP;
 - (26) 4 each drop inlet frames & covers;
 - (27) 19 each spillway assemblies;
 - (28) 425 MFEBM split redwood timber cribbing;
 - (29) 117 cu. yds. Class B Port. cem. conc. bridge;
 - (30) 32,000 lbs. struc. steel bridge;
 - (31) 34.5 MFEBM redwood timber dense select all-heart struc. grade for bridge and culvert;
 - (32) 18.5 MFEBM redwood timber select all-heart struc. grade, for bridge and culvert;
 - (33) 40 cu. yds. rubble masonry;
 - (34) 1,400 M. gals. water;
 - (35) 39 each timber culvert markers;
 - (36) 143 each timber guide posts;
 - (37) 8,818 lin. ft. solid timber guard rail;
 - (38) 3.8 miles standard property fence;
 - (39) 2.1 miles type A do;
 - (40) 25 each standard fence gates;
 - (41) 10 each type A fence gates;
 - (42) 162 sta. finish roadway;
 - (43) 92 monuments complete in place.
- Plans and specifications obtainable at above office, and on file at the offices of the district engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

LOS ANGELES CO., Calif.—Until December 13, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for paving with asphalt concrete about 1.5 miles bet. Central avenue and Alameda street in Graham, Los Angeles county. Involving:

- (1) 79 sta. yds. clear and grub right of way;
- (2) 21,000 cu. yds. rdwy. excav., unclass.;
- (3) 2,000 cu. yds. struc. excav.;
- (4) 28,000 sq. yds. subgrade for pave.;
- (5) 16,800 tons asph. conc.;
- (6) 22,000 sq. yds. asph. paint binder;
- (7) 7,500 tons selected material;
- (8) 120 cu. yds. Class A Port. cem. conc. struc.;
- (9) 2,600 cu. yds. Class A Port. cem. conc. curbs and gutters;
- (10) 1,650 cu. yds. Class A Port. cem. conc. sidewalks;
- (11) 1,000 lbs. bar reinf. steel struc.;
- (12) 55,000 lbs. misc. iron and steel;
- (13) 1,900 lin. ft. 1-in. street lighting conduit;
- (14) 100 lin. ft. 1 1/4-in. do;
- (15) 17,000 lin. ft. 1 1/2-in. do;

- (16) 1 only pedestrian subway, Russell school;
- (17) 1 do, Graham school;
- (18) 1,600 cu. yds. concrete to be removed from existing pave., curbs gutters, sidewalks and driveways;
- (19) 1,820 lin. ft. 6-in. vit. clay pipe sewers;
- (20) 350 lin. ft. 8-in. do;
- (21) 2 each standard manholes;
- (22) 2 each flushing manholes;
- (23) 16 lin. ft. 3/4-in. red brass pipe;
- (24) 30 each exist. sewer struc. tops to be adjusted to grade;
- (25) 1 lot misc. items of work;
- (26) 79 sta. yds. finish rdwy.

Plans and specifications obtainable at above office, and are on file at the offices of the District Engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

TRINITY COUNTY, Cal.—Until December 13, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for grading and treating with fuel oil about 2.3 miles between 1.8 miles west of Burnt Ranch and McDonald Creek, Trinity County, involving:

- (1) 18 acres clear and grub right of way;
- (2) 174,100 cu. yds. rdwy. excav., unclassified;
- (3) 580,000 sta. yds. overhaul;
- (4) 4,345 cu. yds. struc. excav.;
- (5) 1,730 cu. yds. backfill;
- (6) 6,900 cu. yds. select. material;
- (7) 27 cu. yds. Class A Port. cem. conc. struc.;
- (8) 1,970 lbs. bar. reinf. steel, struc.;
- (9) 1,150 lin. ft. 18-in. CMP;
- (10) 270 lin. ft. 24-in. CMP;
- (11) 80 lin. ft. 30-in. CMP;
- (12) 220 lin. ft. 72-in. CMP;
- (13) 40 lin. ft. CMP clean and relay;
- (14) 310 lin. ft. 8-in. perf. metal pipe;
- (15) 68 MFEBM select all-heart struc. grade redwood, timber cribs;
- (16) 50 each timber guide posts and culvert markers complete in place;
- (17) 140 each timber guide posts move and reset;
- (18) 730 lin. ft. laminated timber guard rail, move and reset;
- (19) 220 M. gals. water;
- (20) 310 lbs. heavy fuel oil;
- (21) 940 cu. yds. rubble masonry wall;
- (22) 124 sta. finish rdwy.;
- (23) 120 each monuments complete in place.

Plans and specifications obtainable at above office, and on file at the offices of the district engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

MADERA AND MARIPOSA COS., Cal.—Until December 7, 2 P. M., bids will be received by the office of the Bureau of Public Roads, 807 Sheldon Bldg., 461 Market St., San Francisco, for placing a crushed rock base course on Sections C and D, and bituminous surface treatment on Sections A, B, C, and D of Route 47, the Oakhurst National Forest Highway, Sierra National Forest, in Madera and Mariposa Counties, involving:

- (1) 2000 cu. yds. unclass. excav.;
- (2) 100 cu. yds. unclass. excav. for struc.;
- (3) 4000 cu. yds. subgrade reinf.;
- (4) 9980 ml. fine grading subgrade and shoulders;
- (5) 2500 M. gals. water for embankment compaction;
- (6) 2700 M. gals. watering;
- (7) 29,600 tons crushed rock base course;
- (8) 8600 tons crushed rock for bit surf. treatment;
- (9) 10,000 tons crushed rock for shoulders;
- (10) 900 tons supplemental cru. rock screenings;

- (11) 750 tons supplemental cru. rock for shoulders;
- (12) 430 tons bituminous binder in place;
- (13) 37,300 gals. liquid asph. material in place;
- (14) 24 cu. yds. Class B concrete;
- (15) 252 lbs. reinf. steel;
- (16) 120 lin. ft. 8-in. perf. CMP in place;
- (17) 25 cu. yds. cru. rock or gravel for backfill;
- (18) 8000 cu. yds. mile haul, subgrade, reinf.;
- (19) 0.48 M.F.E.M. redwood plank-ing in place.

Plans and specifications obtainable from above office. C. H. Sweetser, District Engineer, \$10 deposit.

SAN FRANCISCO.—Eaton & Smith, 715 Ocean Ave., at \$794.17 submitted low bid to the Board of Public Works, S. J. Hester, Deputy Director, for surfacing Webster St. between Vallejo and Broadway with emulsified asphalt wearing surface. The complete bids follow:

Eaton & Smith	\$ 794.17
Theo. Cohn, S. F.	810.16
Chas. L. Harney, S. F.	852.80
A. J. Raisch, S. F.	1492.40

BAKERSFIELD, Kern Co., Calif.—Union Paving Co., Call Bldg., San Francisco, at \$3975 awarded contract by the Bakersfield city council for resurfacing the Bakersfield and Kern Elec. Railway right-of-way between 19th and 34th Sts. on Chester Ave., and between F and Oak Sts. on 19th St. Heuser & Garnett, Glendale, at \$4510 submitted only other bid.



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A welcoming room...an enterprising chef...a Union Square location (and that says volumes if you know your San Francisco) ...These are among the Plaza features that will brighten the days of your visit here † †

RATES: \$2 to \$4

RAY MAXWELL, Manager

**HOTEL
PLAZA**
POST STREET AT STOCKTON
SAN FRANCISCO

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

MESS BUILDING — HAMILTON FIELD

HAMILTON FIELD, Marin Co., Cal.—Azevedo & Sarmiento, 920 O St., Sacramento, at \$46,990 submitted low bid to Constructing Quartermaster, Hamilton Field, to construct one-story concrete and tile mess building at Hamilton Field. Building will include lounge, card room, refreshment room, dining room, kitchen and loggia. Complete bids follow:

(A) Azevedo & Sarmiento, Sacramento \$46,990.
 (B) Leo Epp, San Francisco, \$47,254.
 (C) Carl N. Swensen, San Jose, \$48,098.
 (D) Wm. Spiyock, San Francisco, \$49,620.
 (E) Monson Bros., San Francisco, \$49,950.
 (F) Young & Horstmeyer, San Francisco, \$50,928.
 (G) San Francisco Constr. Co., San Francisco, \$52,442.

- (1) Work complete;
- (2) If kitchen equipment is omitted deduct;
- (3) If bedrooms, bath and card room are omitted and stucco is applied exterior surface of wall, bet. ladies room and card room, deduct;
- (4) Excavation (unclassified) per cu. yd.;
- (5) Overhaul (beyond 300 ft. free haul, per sta. yd.);
- (6) Concrete (type "AA" incl. forms) per cu. yd.;
- (7) Concrete (Type "B" incl. forms) per cu. yd.;
- (8) Reinf. steel, per ton;
- (9) Common brick in walls, per M;
- (10) 4-in. tile in walls, per sq. ft.;
- (11) 8-in. tile in walls, per sq. ft.;
- (12) Roofing tile (installed) per 100 sq.;
- (13) Stucco, per sq. yd.;

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
(1).....	\$46,990.00	\$37,254.00	\$48,098.00	\$49,620.00	\$49,950.00	\$50,928.00	\$52,400.00
(2).....	2,900.00	2,500.00	2,900.00	2,850.00	2,900.00	3,200.00	2,500.00
(3).....	6,400.00	5,200.00	7,300.00	6,700.00	6,500.00	6,968.00	5,600.00
(4).....	1.10	1.00	1.00	1.50	1.00	.70	1.00
(5).....	.50	.25	.05	.50	.03	.20	.02
(6).....	12.50	14.50	14.25	16.00	16.50	13.50	14.00
(7).....	13.50	15.50	15.00	16.50	18.50	14.50	16.00
(8).....	80.00	90.00	81.00	80.00	95.00	92.00	75.00
(9).....	35.00	40.00	30.00	45.00	50.00	35.00	40.00
(10).....	.19	.20	.20	.18	.20	.20	.18
(11).....	.33	.40	.40	.35	.40	.40	.36
(12).....	22.00	23.00	23.00	18.00	23.00	25.00	23.00
(13).....	.80	.90	.100	.75	.75	.75	.90

SAN JOAQUIN COUNTY—BRIDGE—(COUNTY)

SAN JOAQUIN COUNTY, Cal.—Fred Kaus, 2726 E. Main St., Stockton, at \$7912 (under Schedule No. 1) and at \$6319 (under Schedule No. 2) and S. M. McGaw, 425 Lexington Ave., Stockton, at \$6690 (under Schedule No. 3) awarded contract by County Board of Supervisors, Court House, Stockton, for reconstructing 15 small bridges all located on Mariposa Road over a ten-mile section about 2 miles east of Stockton. The contract involves removal of the deck center piers and portions of the abutments and wing walls, the construction of new abutments, piers, footings, wing walls and decks, requiring approximately 1301.27 cu. yds. concrete and 78.79 tons rein-

forcing steel. Complete bids follow:

(A) Fred Kaus, Stockton.
 (B) S. M. McGaw, Stockton.
 (C) S. C. Giles, Stockton.
 (D) Willard & Biasotti & Lovetti, Stockton.
 (E) E. H. Dodd, Stockton.
 (F) T. C. Tunsen, Modesto.
 (G) H. H. Henning, Stockton.
 (H) H. E. Brown, Modesto.
 (I) Pete Freccero, Stockton.
 (J) J. Kristlich, Knightsen.
 (K) Frank Bryant, San Francisco.
 (L) Nelson & Wallace, Escalon.
 (M) Azevedo & Sarmiento, Sacramento
 (N) Nevis & Harp, Santa Clara.
 (O) Bodenhamer Constr. Co., Oakland.
 (P) Carl Swenson, San Jose.
 (Q) E. H. Riley, Stockton.

	Schedule I (Bridges 1,2,3 & 4)	Schedule II (Bridges 5,6,7,8&9)	Schedule III (Bridges 10,11,12,13,14,15)	Schedule IV (Total for Combination of Scheds. 1,2,3)
(A).....	\$ 7912.00	\$6319.00	\$8476.00	\$22,707.00
(B).....	8770.00	6690.00	7960.00	22,950.00
(C).....	8870.00	6490.00	8246.00	22,497.00
(D).....	11,768.00	7516.00	9117.00	27,600.00
(E).....	8684.00	7117.00	8781.00	24,582.00
(F).....	9481.00	.....	.....	.....
(G).....	9639.00	7240.00	9062.00	25,640.00
(H).....	9268.00	7396.00	10,134.00	26,798.00
(I).....	11,100.00	7000.00	8500.00	25,990.00
(J).....	9993.75	7487.97	9601.20	26,832.00
(K).....	9871.75	7216.74	9245.75	25,823.00
(L).....	9384.00	6774.80	8801.00	24,719.00
(M).....	.....	.....	.....	29,555.90
(N).....	.....	.....	.....	29,433.00
(O).....	.....	.....	.....	32,987.00
(P).....	.....	.....	.....	26,600.00
(Q).....	.....	.....	.....	24,777.00

BIDS OPENED

LOS ANGELES COUNTY, Cal.—P. J. Akmadzich, 3028 Gilroy St., Los Angeles, at \$86,970 submitted low bid to State Highway Commission, Sacramento, for grading and paving with asphalt concrete about 1.6 miles bet. Sunland and Tujunga in Los Angeles County involving:

- (1) 84 sta. clear, and grub right-of-way;
- (2) 11,500 cu. yds. rdwy. excav. unclassified;
- (3) 500 sta. yds. overhaul;
- (4) 800 M. gals. water;
- (5) 8500 cu. yds. imported borrow;
- (6) 2400 cu. yds. struc. excav.;
- (7) 11,000 sq. yds. subgrade for pave.;
- (8) 17,300 sq. yds. asph. paint binder;
- (9) 7300 tons asph. conc. base and leveling course;
- (10) 3300 tons asphalt conc. type A surf. course;
- (11) 2570 tons cru. gravel or stone bit. treated surfacing;
- (12) 130 tons cutback asphalt bit. treated surfacing;
- (13) 1450 bbls. fuel oil;
- (14) 1.6 miles mix oil and shoulder material;
- (15) 675 cu. yds. class A Port. cement concrete struc.;
- (16) 2000 cu. yds. class A Port. cem. concrete, curbs, gutters and sidewalks;
- (17) 5.5 cu. yds. class A Port. cement concrete railing;
- (18) 82,000 lbs. bar reinf. steel struc.;
- (19) 32,000 lbs. misc. iron and steel struc.;
- (20) 50 lin. ft. 18-in. CMP;
- (21) 170 lin. ft. 24-in. CMP;
- (22) 90 lin. ft. 36-in. CMP;
- (23) 375 cu. yds. conc. removed from existing pave and struc. and disposed of;
- (24) 1 only exist bridge removed and disposed of;
- (25) 20 each culvert markers;
- (26) 100 lin. ft. bank protection fence;
- (27) 84 sta. finishing roadway.

Complete bids follow:

- (A) P. J. Akmadzich, Los Angeles, \$86,970.
- (M)—Griffith Co., Los Angeles, \$87,557.50.
- (C) Bundo Engineering Co., Los Angeles, \$95,418.25.

Unit bids follow:

	(A)	(B)	(C)
(1).....	\$ 4.00	\$ 4.00	\$ 2.50
(2).....	.36	.34	.30
(3).....	.02	.10	.02
(4).....	1.00	1.00	1.00
(5).....	.30	.60	.50
(6).....	.70	.90	.70
(7).....	.10	.10	.09
(8).....	.02	.02	.015
(9).....	3.00	2.71	2.70
(10).....	3.40	2.90	2.85
(11).....	1.50	2.00	1.60
(12).....	14.00	15.00	20.00
(13).....	1.30	1.50	1.40
(14).....	490.00	500.00	400.00
(15).....	16.70	14.00	18.00
(16).....	1.50	8.50	12.00
(17).....	54.00	125.00	50.00
(18).....	.039	.03	.04
(19).....	.075	.07	.08
(20).....	1.65	1.75	1.60
(21).....	2.45	2.00	2.30
(22).....	4.80	2.25	4.75
(23).....	.70	2.00	1.75
(24).....	575.00	300.00	650.00
(25).....	2.00	2.50	2.50
(26).....	4.00	3.50	5.00
(27).....	2.00	5.00	3.00

ARIZONA STATE.—New Mexico Const. Co., Albuquerque, at \$198,630.61 (as previously reported) submitted the low bid to the Arizona State Highway Commission, Phoenix, Nov. 17, for constructing Flagstaff-Predonia Highway Project N. R. 11. 95-C. The bid on the alternate was \$199,245.11. The work begins at the Grand Canyon bridge near Lee's Ferry and extends south approximately 20 miles and consists of grading and draining, and is to be completed on or before Aug. 31, 1934. Complete bids follow:

- (A) New Mexico Const. Co., Albuquerque, \$198,630.61; Alt., \$199,245.11.
- (B) Strong & Grant, Springville, Utah, \$219,022.35; \$222,709.35.
- (C) Skousen Bros., Albuquerque, \$252-668.80; \$253,897.80.
- (D) Vinson-Pringle and G. R. Daley, Phoenix, \$259,894.51; \$261,238.01.
- (E) Hedgman & MacVicar, P. O. Box 337, Flagstaff, \$279,325.99; \$281,169.49.

The quantities follow:

- (1) 91,823 cu. yds. rdwy. excav., unclassified;
- (2) 2554 cu. yds. struc. do;
- (3) 11,871 cu. yds. drainage do;
- (4) 300 cu. yds. slides and overbreakage;
- (5) 73,123 cu. yds. borrow and excav., unclass.;
- (6) 10,085 sta. yds. earth work overhaul;
- (7) 1007 cu. yds. mi. earth work haul;
- (8) 8194 cu. yds. selected borrow;
- (9) 881 cu. yds. mi. do, haul;
- (10) 8122 cu. yds. selected material;
- (11) 15,434 cu. yds. mi. sel. material, haul;
- (12) 1282 cu. yds. Class A concrete including cement;
- (13) 96,104 lbs. reinf. steel bars CIP;
- (14) 1466 lin. ft. 24-in. CMP, including bands CIP;
- (15) 722 lin. ft. 30-in. do;
- (16) 924 lin. ft. 36-in. do;
- (17) 1262 lin. ft. 42-in. do;
- (18) 210 lin. ft. 48-in. do;
- (19) 12,290 lin. ft. type A cable road guard CIP;
- (20) 723 cu. yds. plain riprap CIP;
- (21) 200 lin. ft. grader ditches;
- (22) 158 ea. right of way markers CIP
- (23) 140 cu. yds. drainage excav., unclassified;
- (24) 1397 cu. yds. struc. excav., unclassified;
- (25) 707 cu. yds. Class A conc., including cement;
- (26) 204 cu. yds. Class B do;
- (27) 70,055 lbs. reinf. steel bars CIP;
- (28) 142,911 lbs. struc. steel CIP;

ALTERNATE

- (19a) 12,290 lin. ft. steel plate road guard CIP.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)
(1) ...	\$.48	\$.75	\$.90	\$.89	\$1.08
(2) ...	1.60	1.50	2.25	2.40	2.50
(3) ...	.61	.40	1.00	.85	.60
(4) ...	.36	.5625	.675	.6675	.81
(5) ...	.34	.30	.35	.44	.40
(6) ...	.04	.03	.05	.04	.05
(7) ...	.25	.40	.40	.26	.75
(8) ...	.37	.30	.35	.32	.40
(9) ...	.80	.40	.50	.31	.75
(10) ...	.27	.35	.50	.32	.40
(11) ...	.17	.20	.30	.20	.20
(12) ...	25.00	24.00	25.00	27.20	31.00
(13) ...	.058	.055	.055	.055	.055
(14) ...	2.80	2.95	3.50	3.20	3.50
(15) ...	3.35	4.00	4.50	4.15	4.25
(16) ...	5.25	6.00	6.50	6.00	5.75
(17) ...	6.30	7.00	9.00	7.20	6.75
(18) ...	9.30	9.50	10.00	10.30	8.00
(19) ...	.70	.90	.60	.85	.90
(20) ...	2.00	3.00	2.25	4.00	3.00
(21) ...	.05	1.00	.20	.40	.10
(22) ...	2.50	3.00	3.00	2.25	3.00
(23) ...	.50	.50	1.00	.85	.60
(24) ...	1.00	1.50	2.25	2.40	2.50
(25) ...	27.50	24.00	26.00	27.20	30.00
(26) ...	23.00	24.00	24.00	27.20	29.50
(27) ...	.058	.055	.055	.055	.055
(28) ...	.07	.06	.06	.065	.06
(19a) ...	.75	1.20	.70	1.00	1.05

SAN BERNARDINO COUNTY, Cal.—United Concrete Pipe Corp., Box 1 Station H, Los Angeles, at \$23,884.78 submitted low bid to State Highway Commission, Sacramento, for grading and paving with Portland cement concrete about 0.4 miles between the west city limits and Mount Vernon Ave. In San Bernardino, involving:

- (1) 2500 cu. yds. rdwy. unclass. excavation;
- (2) 150 cu. yds. struc. excav.;
- (3) 7,100 sq. yds. subgrade for pave.;
- (4) 1,490 cu. yds. Class A port. cem. conc. pave.;
- (5) 3 cu. yds. Class A Port. cem. concrete struc.;
- (6) 310 cu. yds. Class A Port. cem. conc. curbs and gutters;
- (7) 33,700 lbs. bar reinf. steel, pave. and struc.;
- (8) 174 lin. ft. 24-in. CMP;
- (9) 11 tons asph. road oil borders;
- (10) 100 tons screenings, borders;
- (11) 1,320 cu. yds. macadam to be removed from existing pave.;
- (12) 3,130 tons crushed gravel or stone borders;

- (13) 780 bbls. fuel oil borders;
- (14) 2 each cast steel frames and covers for crop inlets;
- (15) 22 sta. yds. missing roadway.

- Complete bids follow:
- (A) United Concrete Pipe Corp., Los Angeles, \$23,884.78.
 - (B) J. E. Haddock, Pasadena, \$24,082.
 - (C) E. L. Yeager, San Bernardino, \$25,298.10.
 - (D) Matich Bros., Elsinore, \$25,884.

Unit bids follow:

	(A)	(B)	(C)	(D)
(1).....	\$.50	\$.55	\$.40	\$.55
(2).....	.60	.60	.50	.60
(3).....	.10	.09	.12	.09
(4).....	6.47	6.10	6.48	7.00
(5).....	20.00	25.00	15.00	20.00
(6).....	10.50	11.00	13.00	11.00
(7).....	.05	.05	.005	.05
(8).....	2.82	2.50	2.00	2.50
(9).....	24.00	23.00	22.00	22.00
(10).....	1.50	1.50	1.30	2.00
(11).....	.50	.50	.25	.50
(12).....	1.35	1.60	1.70	1.70
(13).....	1.58	1.45	1.28	1.55
(14).....	20.00	30.00	25.00	20.00
(15).....	6.00	1.00	1.00	4.00

HAMILTON FIELD — LIGHTING SYSTEM— (GOVT.)

HAMILTON FIELD, Cal.—Bennett & Taylor, 1978 S. Los Angeles St., Los Angeles, at \$32,884 submitted low bid to the Constructing Quartermaster, Hamilton Field, for construction of extensions to electrical distribution and street lighting system at Hamilton Field, involving:

ITEM I

- (1) Excavation (rock);
- (2) Excavation in earth and backfill;
- (3) Type "A" concrete, including forms;
- (4) Type "B" concrete, including forms;
- (5) Reinforcing steel;
- (6) 2-duct line;
- (7) Type "D" manhole, 4'x4'x4' inside
- (8) Type "D" manhole, 4'x6'x4' inside
- (9) Type "C" manhole;
- (10) Trenching, 24-in. deep and backfilling;
- (11) Primary oil fuse cut-bout (ampere);
- (12) Primary expulsion fuse cut-out;
- (13) 3-conductor No. 0 A.W.G. 5000 volt, V.C.L.C. pulled in duct;
- (14) 1-conductor No. 8 A.W.G. 5000 volt metallic armored cable laid in trench;
- (15) 3-conductor No. 00 A.W.G. 600 volt, metallic armored cable laid in trench;
- (16) 3-conductor No. 0 A.W.G. 600 volt metallic armored cable laid in trench;
- (17) 3-conductor No. 1, A.W.G. 600 volt, metallic armored cable laid in trench;

- (18) 3-conductor No. 4 A.W. 600 volt, metallic armored cable laid in trench;
- (19) 3-conductor No. 6, A.W.G. 600 volt, metallic armored cable laid in trench;
- (20) Street lighting standard, completely installed and connected;
- (21) 8-branch second. distrib. box in ground;
- (22) 6-branch do do do;
- (23) 6-circuit distrib. panel installed;
- (24) 4-branch distrib. box laid in ground;
- (25) 25 KVA, single phase outdoor dist. transformer;
- (26) 15 KVA, single phase do;
- (27) 5-in. extra heavy uncoated cast iron pipe installed;
- (28) 4-circuit distribution panel installed;

Complete bids follow:

- (A) Bennett & Taylor, Los Angeles, \$32,884.
- (B) Severin Electric Co., San Francisco, \$35,500.
- (C) Globe Electric Works, San Francisco, \$35,694.
- (D) Radelfinger Bros., San Francisco, \$36,586.
- (E) H. C. Reid, San Francisco, \$37,365.
- (F) A. Soda & Son, Oakland, \$39,606.
- (G) G. M. Gest, Oakland, \$39,685.
- (H) H. S. Tittle Co., San Francisco, \$40,370.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
(1).....	\$ 4.00	\$ 4.50	\$ 4.50	\$ 5.00	\$ 4.00	\$ 5.00	\$ 6.00	\$ 5.50
(2).....	1.50	1.60	2.00	2.00	1.50	1.50	1.25	2.00
(3).....	12.50	16.00	10.00	13.00	15.00	17.00	13.50	15.00
(4).....	11.00	15.00	12.00	16.00	17.00	18.00	2.50	16.00
(5).....	120.00	76.00	78.00	80.00	80.00	120.00	120.00	77.00
(6).....	.52	.90	1.15	.30	1.00	1.00	.85	1.30
(7).....	100.00	1.00	110.00	110.00	110.00	150.00	125.00	171.00
(8).....	125.00	132.00	125.00	125.00	120.00	200.00	145.00	200.00
(9).....	150.00	310.00	400.00	395.00	400.00	400.00	425.00	292.00
(10).....	.20	.06	.07	.10	.075	.10	.10	.15
(11).....	.65	74.00	75.00	75.00	75.00	70.00	78.75	80.00
(12).....	7.50	6.50	8.00	8.00	10.00	10.00	11.60	8.00
(13).....	.79	.85	.90	.90	.90	.82	.72	1.50
(14).....	.35	.22	.25	.25	.25	.20	.18	.25
(15).....	1.01	.94	1.00	1.00	1.00	.90	.83	1.00
(16).....	1.10	1.10	1.00	1.00	1.00	1.00	.99	1.00
(17).....	.88	.72	.75	.75	.80	.70	.64	.75
(18).....	.58	.44	.45	.45	.425	.45	.39	.45
(19).....	.47	.33	.35	.35	.33	.35	.30	.35
(20).....	75.00	73.00	75.00	80.00	.75	85.00	75.00	75.75
(21).....	200.00	211.00	220.00	250.00	225.00	210.00	245.00	230.00
(22).....	155.00	159.00	160.00	180.00	165.00	170.00	185.00	170.00
(23).....	75.00	126.00	90.00	90.00	75.00	120.00	180.00	95.00
(24).....	130.00	132.00	140.00	150.00	125.00	145.00	145.00	144.00
(25).....	217.000	245.00	250.00	240.00	250.00	250.00	255.00	260.00
(26).....	157.00	177.00	180.00	180.00	175.00	175.00	193.00	181.00
(27).....	.60	.61	.50	.50	.50	.40	.45	.58
(28).....	60.00	64.00	45.00	42.00	40.00	120.00	120.00	48.00

SPOKANE, Wash.—David H. Ryan, 1615 Fern St., San Diego, at \$534,500 (Sched. 1, \$266,250; Sched 2, \$268,250) (as previously reported) submitted low bid to the Bureau of Reclamation, Spokane, Wash., for excavation of overburden at the Grand Coulee Dam site, Columbia Basin Project, Washington. Complete bids follow:

- (A) Porter Bros., Porter Bldg., Portland.
- (B) Von der Hellen & Plerson, Medford.
- (C) J. C. Maguire, Butte, and James Crick, Realty Bldg., Spokane.
- (D) J. D. Harms, Inc., Insurance Bldg. Seattle.

(E) J. A. Tertelling & Sons, 511 Sound St., Spokane.

(F) Morrison-Knudsen, Inc., Old National Bank Bldg., Spokane, and Utah Constr. Co., Ogden, Ut.

(G) Guy Atkinson, Henry Bldg., Portland.

(H) George Nelson, 231 Summit N. Seattle.

(I) P. L. Crooks & Co., Henry Bldg. Portland.

(J) Northwest Constr. Co., 2950 Sixth N. W., Seattle.

(K) Edward Peterson, Omaha, Neb. and The Lawler Corp., Butte.

(L) Henry T. Kaiser Co., W. A. Bechtel Co. and Frederick & Watson Constr. Co., Oakland.

(M) Elliott & Co., Insurance Building, Seattle.

(N) Guthrie-McDougal Co., Sherlock Bldg., Portland.

(O) Erickson Paving Co., 1550 N. 34th St., Seattle.

(P) S. S. Magoffin Co., Adrian, Oregon

(Q) Geo. E. Teufel and Paul L. Carlson, Skinner Bldg., Seattle.

(R) Lawler Woodward Co., Colman Bldg., Seattle; Albertson & Cornell Bros., 1113 1/2 A St., Tacoma, and John Rumsey, 3821 Airport Way, Seattle.

(S) Odman & Gjarde, Lyon Bldg., Seattle.

Low bidder recommended for award.

	Schedule I	Schedule II
(A).....	\$278,500.00	\$310,500.00
(B).....	283,050.00	298,050.00
(C).....	297,500.00	309,500.00
(D).....	306,500.00	356,600.00
(E).....	315,500.00	315,500.00
(F).....	323,000.00	323,000.00
(G).....	343,500.00	353,500.00
(H).....	348,500.00	395,500.00
(I).....	356,500.00	387,500.00
(J).....	358,500.00	394,500.00
(K).....	360,750.00	360,750.00
(L).....	362,000.00	362,000.00
(M).....	387,500.00	421,000.00
(N).....	395,000.00	435,000.00
(O).....	399,000.00	.....
(P).....	402,500.00	432,500.00
(Q).....	.....	335,000.00
(R).....	.....	412,500.00
(S).....	.....	323,500.00

HUMBOLDT AND DEL NORTE COUNTIES, Cal.—Hemstreet & Bell, 501 11th St., Marysville, at \$11,094 awarded contract by the Department of Public Works, J. W. Vickrey, Dist. Engineer, for screenings to be furnished and stockpiled at various locations in Humboldt and Del Norte Counties.

KERN COUNTY, Cal.—J. F. Knapp, 1401 Park Ave., Oakland, at \$133,773 awarded contract by the State Highway Commission, Sacramento, to grade 8.7 miles between Westerly boundary and 2.4 mi. south of Maricopa in Kern County.

SAN FRANCISCO. — Anderson and Ringrose, 320 Market St., at \$18,871.70 submitted low bid to Board of Public Works, S. J. Hester, Deputy Director, for the improvement of Bernal Heights Blvd. to grade and macadamize road-

bed, and its connections with Alabama, Folsom and Ellsworth Sts. The work involves:

- (1) 4,624 cu. yds. excavation;
 - (2) 42 cu. yds. mortared rubble masonry wall;
 - (3) 17,060 sq. ft. 8-in. waterbound macadam base;
 - (4) 150 lin. ft. concrete curb (reset);
 - (5) 11,000 lin. ft. 2x8-1n. redwood curb.
- Complete bids follow:
 (A) Anderson & Ringrose.....\$18,871.70

- (B) MacDonald & Kahn..... 19,170.80
- (C) Sibley Grading & Teaming Co. 20,687.20
- (D) Eaton & Smith..... 23,566.00
- (E) Pay Improvement Co. 31,496.69

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)
(1) \$	.24	.32	.355	.45	.54
(2)	10.00	10.00	8.00	5.00	13.50
(3)	.036	.015	.01	.005	.025
(4)	.75	.50	.20	.30	.30
(5)	.10	.12	.20	.15	.15

CONTRA COSTA COUNTY—BRIDGE—(COUNTY)

CONTRA COSTA COUNTY, Cal.—Price Constr. Co., 1723 Webster St., Oakland, at \$9531.15 awarded contract by the Contra Costa Board of Supervisors, Martinez, for the construction of a bridge 70 ft. long, 35 ft. wide, roadbed, and two 5-ft. sidewalks on Tenth Street near Richmond. The bridge will be of concrete and steel construction, involving:

- Complete bids follow:
 (1) 960 lin. ft. steel pile;
 (2) 66,269 lbs. struc. steel;
 (3) 25,015 lbs. reinf. steel;
 (4) 248.4 cu. yds. concrete.

- (A) Price Construction Co., Oakland, \$9531.15.
- (B) Elmer Freethy, Richmond, \$10,402.94.
- (C) Albany Cement Contractors, Inc., Albany, \$10,841.04.
- (D) Lee J. Immel, Berkeley, \$10,947.41
- (E) J. H. Fitzmaurice, Oakland, \$10,990.35.
- (F) Arthur J. Brier, Oakland, \$11,055.15.
- (G) Duncan-Harrelson, San Francisco, \$11,405.30.
- (H) Carl Overaa, Richmond, \$11,885.73.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
(1)	\$ 1.75	\$ 2.45	\$ 3.00	\$ 2.00	\$ 2.14	\$ 1.50	\$ 2.30	\$ 2.65
(2)	.049	.06	.06	.06	.047	.055	.053	.049
(3)	.049	.0464	.06	.05	.05	.05	.052	.05
(4)	13.60	16.00	10.00	15.30	18.40	19.00	17.65	19.50

SAN JOAQUIN CO. — GRADING & SURF. — (STATE)

SAN JOAQUIN COUNTY, Cal.—Tiffany Const. Co., 535 N 7th Street, San Jose, at \$76,851.25 submitted low bid to State Highway Commission, Sacramento, for grading and surfacing with bituminous treated crushed gravel and stone about 4.5 miles, between Lodi and 4.5 miles east of Lodi in San Joaquin County, involving:

- (1) 221 each trees removed and disposed of;
- (2) 2240 each grape vines removed & disposed of;
- (3) 29,000 cu. yds. rdwy. excav. unclass.;
- (4) 162,000 sta. yds. overhaul;
- (5) 1300 cu. yds. imported borrow;
- (6) 2452 cu. yds. struc. excav.;
- (7) 4670 cu. yds. salvaged macadam base;
- (8) 13,100 tons untreated crushed gravel and stone surfacing;
- (9) 750 bbls. heavy fuel oil;
- (10) 8520 tons crushed gravel or stone bituminous treated surfacing;
- (11) 450 tons outback asphalt;
- (12) 65 cu. yds. class A Port. cement conc. struc.;
- (13) 5600 lbs. bar reinf. steel struc.;
- (14) 3328 lin. ft. 18-1n. CMP;
- (15) 405 lin. ft. salvaging existing culverts;
- (16) 3000 M. gals. water;

- (17) 41 cu. yds. removing and disposing of concrete in existing pave. and strucs.;
- (18) 0.84 miles moving and resetting existing property fence;
- (19) 4.77 miles new property fence;
- (20) 73 each fence gates;
- (21) 65 each drop inlet frames and covers;
- (22) 239 sta. finishing roadway;
- (23) 61 each monuments complete in place.

Complete bids follow:

- (A) Tiffany Const. Co., San Jose, \$76,851.25.
- (B) Willard, Biasotti and Lovotti, Stockton, \$77,786.80.
- (C) Heafey-Moore Co., Oakland, \$78,888.85.
- (D) Granite Const. Co., Watsonville, \$82,523.90.
- (E) Fredrickson & Watson, Oakland, \$83,047.75.
- (F) A. Teichert & Son, Sacramento, \$87,908.00.
- (G) Hanrahan Co., San Francisco, \$92,875.80.
- (H) M. J. Bevanda, Stockton, \$93,989.50.
- (I) Eaton and Smith and A. J. Grier, San Francisco, \$94,017.00.

Unit prices follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
(1)	\$ 9.00	\$ 1.25	\$ 1.25	\$ 3.50	\$ 2.50	\$ 8.00	\$ 2.50	\$ 3.00	\$ 3.00
(2)	.15	.20	.20	.30	.20	.40	.15	.50	.25
(3)	.34	.185	.185	.20	.20	.22	.22	.23	.33
(4)	.005	.005	.005	.005	.005	.01	.01	.01	.005
(5)	.35	.50	.50	.65	.50	.60	.85	1.00	.60
(6)	.50	.60	.60	.75	.75	1.00	.80	1.00	1.00
(7)	.30	.60	.65	.50	.40	.35	.50	.60	.50
(8)	1.27	1.33	1.50	1.62	1.65	1.75	2.10	1.70	2.00
(9)	1.62	1.50	1.75	1.65	2.00	1.70	1.90	2.00	2.00
(10)	2.60	2.90	2.73	2.76	2.90	3.00	2.90	3.00	2.50
(11)	15.40	14.00	17.00	15.00	17.00	16.00	18.00	20.00	17.00
(12)	17.50	20.00	22.00	18.00	18.00	18.00	25.00	25.00	20.00
(13)	.06	.04	.06	.05	.05	.05	.05	.06	.06
(14)	1.50	1.50	1.50	1.50	1.50	1.50	1.40	2.00	1.50
(15)	.20	.25	.40	.20	.35	.50	.30	1.00	.40
(16)	.90	1.00	.50	1.26	1.20	1.00	1.20	1.00	1.50
(17)	3.00	3.50	3.00	2.00	2.00	5.00	4.00	5.00	2.00
(18)	150.00	280.00	300.00	180.00	200.00	300.00	200.00	200.00	300.00
(19)	375.00	420.00	350.00	350.00	300.00	400.00	400.00	350.00	500.00
(20)	12.00	15.00	16.00	13.00	15.00	10.00	18.00	15.00	20.00
(21)	12.00	35.00	30.00	25.00	20.00	20.00	25.00	20.00	30.00
(22)	3.00	4.00	5.00	7.50	5.00	5.00	5.00	10.00	5.00
(23)	3.00	3.00	3.00	2.50	2.50	3.00	3.00	3.00	3.00

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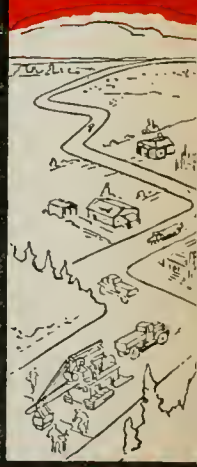
4,128 NRA Highway Projects Approved

Summary of California Highway Awards

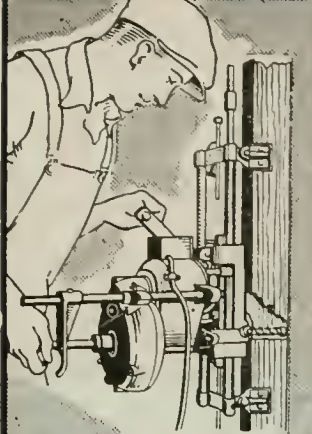
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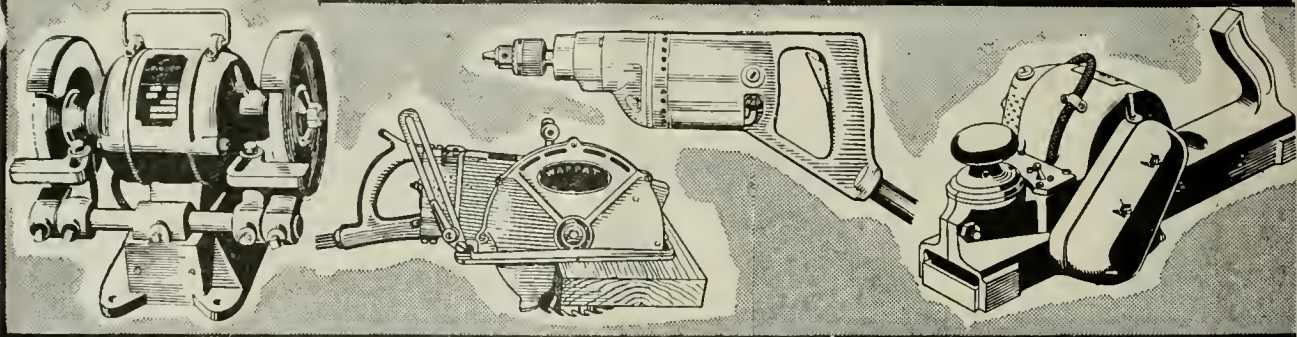
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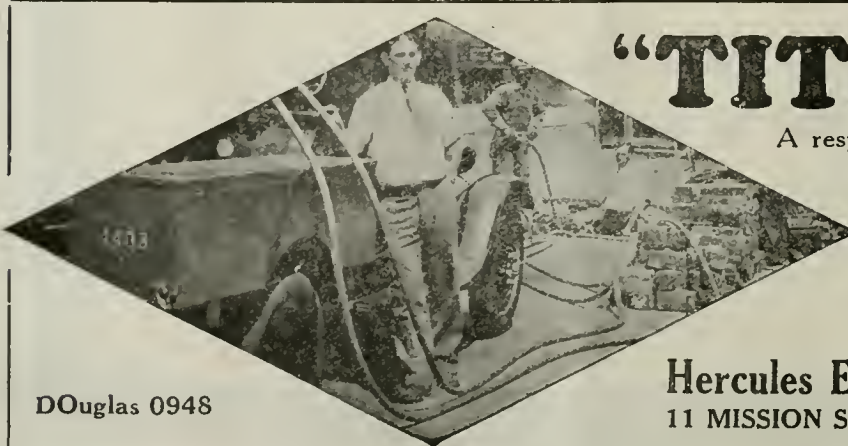
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No. 46

SUIT HALTS STATE HIGHWAY BID OPENING

Test of Alternate Bid Law Instituted on Solano County Contract

SACRAMENTO, Nov. 29.—Opening of bids on the Solano county grading and paving contract, one of the largest highway jobs on today's schedule, was stopped by a suit filed by a Kern county taxpayer to test validity of new state legislation requiring bids on alternate specifications for asphalt and cement concrete paving.

State Director of Public Works Earl Lee Kelly announced at the time set for opening bids that proposals on this contract would not be opened due to a suit filed by W. L. Landsborough of Bakersfield. Mr. Kelly stated that the plaintiff is attempting to test the validity of law enacted by the last state legislature which provides for taking alternate bids on two types of paving.

Mr. Kelly said that his department had proceeded in the past under recommendations of highway engineers as to the type of pavement considered best suited to the job. He deplored the fact that the court action in this case would delay the Colano contract, making it necessary to re-advertise the contract. He said he would be glad to enter a test case on a smaller highway contract if it were sought by any individual or organization, but urged that such action be arranged on a project that would not interfere with the state highway construction program.

The Solano county contract is one approved by the Federal government and financed by NRA money, Mr. Kelly asserted. The contract calls for paving with asphalt concrete about 3.3 miles between 4.2 miles north of Fairfield and 0.6 mile south of Vacaville.

The thirteenth annual meeting of the Highway Research Board will be held in Washington, D. C., at the building of the National Academy of Sciences and National Research Council on Thursday and Friday, Dec. 7 and 8, 1933.

U. S. BUILDING INCREASES S. F. MONTH'S TOTAL

Private Work Total at Level of Last Year; Residential Contracts off

San Francisco building permits for November exclusive of public works totaled \$498,910. The monthly report of the building department includes the contract for the new San Francisco Federal Office building at \$2,521,993 and \$540,726 for other public building, making a grand total of permits issued for the month, \$3,561,629.

The total for November last year was \$4,800,290, including \$4,043,412 for portions of Golden Gate bridge contracts in San Francisco county.

Private building in the past month compares favorably with October and with November a year ago.

This is due to four permits for Class A building, aggregating \$201,500 in value. Permits for dwellings are less than half those of November a year ago both in number and value and are off about fifty percent from October, also.

Following are the comparative totals for the months of November, 1933 and 1932:

Class	Nov., 1933		Nov., 1932	
	No. Pmts	Est. Cost	No. Pmts	Est. Cost
A	4	\$ 201,500	.....	\$.....
B	2	36,500	2	65,000
C	5	32,900	7	18,850
Frames	29	102,005	64	250,145
Alter.	338	126,005	225	107,155
Public	2	540,726	2	4,043,412
Govt.	3	2,521,993	5	315,728
Total	383	\$3,561,629	335	\$4,800,290

EXPERTS TO AID PWA APPLICANTS

To help cities get PWA applications in shape 25 expert service men are being put into the field under the supervision of the American Municipal Association, according to Paul V. Betters, executive director of the association and recently appointed by Secretary Ickes as liaison man between the PWA and cities. Arrangements have recently been made for state leagues of municipalities to give legal aid and advice on PWA applications.

S. F. ANCHORAGE OF BAY BRIDGE 20% COMPLETE

Transbay Company Sinking Two Caissons at Pier Site

With the employment on the bridge construction in the Bay area increasing to 2100, work progressed rapidly on all fronts during the past week, according to the report filed by Chief Engineer C. H. Purcell with State Director of Public Works Earl Lee Kelly.

Rincon Hill, San Francisco

While tons of steel eyebars arrived ready to be placed in the concrete anchorage for the cables, pouring of concrete on the huge an-crogae itself was pushed last week by Healy-Tibbitts Const. Co.

A total of 1700 cubic yards of concrete was placed in the San Francisco anchorage, bringing the total to date to 13,800 cubic yards, or approximately 20 per cent of the ultimate amount of concrete in the anchorage.

West Bay Substructure

In the west bay, Transbay Construction Company continued writing engineering history by the successful sinking of the two compressed air flotation caissons, one of which is the largest ever undertaken.

At Pier 4 the largest caisson of the bridge has now been in place more than two weeks, and 5,000 yards of concrete has been placed within its walls around the cylinders. The cutting edge at the bottom of the caisson is now 50 feet below the water on its way to rock, expected to be found at 180 feet below the waterline. This week the structural frame of this huge caisson around its 55 compressed air cylinders will be built up another lift.

At Pier 6, the first bridge pier west of Yerba Buena Island, the cylinders, domes, and outside walls of the caisson have been raised to a height of 123 feet above the cutting edge, of which 80 feet is below water.

CWA Outlines Projects Eligible For New \$400,000,000 Financing

Projects eligible for grants under the \$400,000,000 Civil Works Administration have been described by Administrator Harry L. Hopkins as follows:

Highways: The civil works division may carry on necessary highway work which is not being done under the regular budget of the state or municipality or provided for by the Bureau of Public Roads or the PWA. Work on highways should not be merely an attempt to provide jobs. Its use has too often been a carry-over from the time when work on roads was the traditional form of poor relief.

Roadways: Reclaiming public lands for highway purposes, brush cutting, shoulders, retaining walls, curbs, filling, grading, leveling, paving, resurfacing, clearing highway obstructions, concrete and masonry construction, bridge and underpasses, sidewalks, pathways and parkways, trees, shrubbery, planting and trimming, materials for highways, quarrying and crushing stone, rock excavating, digging, dredging, piping sand and gravel for road and street work.

Traffic: Erecting, repairing, painting traffic signals and lamp posts, constructing conduits for cables for traffic and road lighting systems; erecting, repainting and painting traffic signal markers, and traffic lanes; building parking spaces, traffic circles, view cut-outs; snow removal; traffic research.

Water Supply: Projects of the civil works division on public water systems are advisable when the labor cost is a major factor of the total cost of the project. This is especially true in the improvement of watersheds, the clearing of land for reservoirs, and manual labor in connection with the laying of mains. Major projects, especially where the other-than-labor costs are greater than 15 per cent of the total cost are discouraged as coming under the domain of the PWA. 1. Watersheds—clearing, filling, cutting fire lanes, planting and trimming trees, clearing tributary stream beds, lakes; 2. Reservoirs—clearing, cleaning, building and repairing dams and dikes; 3. Waterworks—repair of plant, landscaping grounds, digging wells, and auxiliary water supply systems; 4. Distribution system—repairs and extensions.

Sanitation: Wherever possible, sanitary operations should be of a country-wide nature. Communities may make a civil works project of a survey of their sanitary condition to determine the adequacy of sanitation before beginning sanitation projects.

Parks and playgrounds: Work should be of an extraordinary character that could not be carried in the normal budget. Only such construction should be undertaken as can be used and cared for by civil works division workers still in service, determined by the normal expectancy, after the present peak of unemployment has subsided

or by the regular budgeted labor supply. 1. Reclamation and repair of grounds; 2. Thoroughfare construction 3. Recreation facilities such as pools and bathing beaches, tennis courts, rinks, athletic fields, baseball diamonds, fireplaces, camping sites, shelters; 4. Equipment such as benches, tables, swings, drinking fountains, comfort stations, band stands, hot houses, boat houses, outdoor theaters, tool houses, garages, stables.

Land Improvements: 1. Filling and leveling and clearing lots, dumps, abandoned canals and other areas, the ultimate utilization of which is unknown; 2. Flood control and waterfront improvements—retaining walls, jetties and breakwaters; erecting, repairing and painting municipal docks and wharves; dredging, filling and riprapping on rivers, streams, lakes and ponds; 3. Public monuments and historic sites—clearing, painting, repairing, marking and mapping (cf. "professional"); 4. Range improvements—building drift fences, corrals, cattle guards and dipping vats.

Utilities and structures: A great deal of extraordinary work in the repair and maintenance of public institutions can be carried on by the Civil Works Division. This includes work on airports, armories, baths, bridges, canals, cemeteries, city halls, community centers, court houses, docks, firehouses, garages, hospitals, homes for aged and indigent, libraries, lodging houses, markets, museums, orphanages, police stations, repair shops, sanitariums, schools, stables, storehouses, toolhouses, workshops. The actual projects on these properties may be in the nature of minor repairs or extensions that cannot be done under the PWA and that cannot be carried on under the depleted budget of the governmental unit: 1. Concrete work, roofing, plumbing, gas, steam, painting, plastering and stucco work, shoring, moving and wrecking old structures, salvaging; 2. Installation of fire alarms and other special equipment; 3. Servicing, cleaning, portering, sign painting, attendants and watchmen.

Plant disease and pest control: Tick eradication by dipping, poisoning and quarantining; mosquito extermination by draining, oiling, stream clearing and other malaria control measures; rodent control by eradication of rats, prairie dogs and gophers; plant control by eradicating ragweed, poison ivy, artichoke-thistle; and other projects for controlling plant and animal diseases.

Professional: Projects to provide employment for the professional man for whom suitable relief is seldom provided include laboratory work, such as water and soil analysis; additional inspectors to locate illegal electrical connections or water consumption; statistical surveys of a social, political or economic nature; studies to provide needed information on agriculture, traffic, sanitation, health and other conditions.

4,128 PROJECTS APPROVED BY ROADS BUREAU

Department Reports 276,000
Men to be Employed on
Contracts

Public Works highway projects under construction on November 18 total 2,305 as reported by the Bureau of Public Roads, U. S. Department of Agriculture. The program as approved to November 18 includes 4,128 projects requiring an estimated expenditure of \$232,634,000. These projects are expected to furnish direct employment for 276,000 men. During the week ending Nov. 18, there were 280 projects approved.

Contracts have been awarded or State construction authorized on 3,103 of the approved projects and contract construction is in progress on 1,833 of these. In addition to the contract work, construction is also under way on 472 projects on which the labor is directly employed and supervised by the highway authorities.

Analysis of the jobs awarded under the \$400,000,000 of Federal funds authorized in the National Industrial Recovery Act shows the following classes of work: 1,820 projects on the Federal-aid highway system outside of municipalities; 938 projects on extensions of the Federal-aid highway system into and through municipalities; 1,202 projects on secondary or feeder roads; and 168 projects on national park, forest and public land highways.

Increase of employment is the primary purpose of the public works highway projects. Wide-spread distribution of employment is assured by the Public Works Administration requirement that projects be undertaken in at least 75 percent of the counties in each State. Subject to the requirement of widespread employment, transportation needs control the character of the projects. Emphasis is placed upon the elimination of traffic hazards, filling in gaps in the main highway system, the improvement of main routes through cities and the development of feeders to railroad and other transportation agencies. Among additional desirable projects are the widening of inadequate road surfaces, construction of sidewalks, and landscaping and planting roadsides.

Winter construction for the benefit of unemployed men is provided for by special provisions in the contracts requiring prompt beginning and continued work during the winter months.

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NRA CODE FOR ROCK AND SAND FIRMS EFFECTIVE

California - Nevada Region
Meeting Called at Fresno
December 4

The crushed rock, sand and gravel and slag industry of the country is now operating under an N.R.A. code which was signed by the President on November 10 and became operative November 21. The code sets up an optional open price policy and provides for regulation of new production facilities by requiring approval of new plants and extensions of existing plants by a regional committee.

For administrative purposes the country is divided into 16 regions, California and Nevada comprising Region 15. Producers of this region will meet at the California hotel, Fresno, December 4 to select a regional committee consisting of 4 to 10 members. The following temporary regional committee has been appointed to serve until a permanent committee is chosen: Garvin Pelsue, Graham Bros., Long Beach, chairman; Hanson S. Blake, Blake Bros., San Francisco; Charles M. Cadman, Pacific Coast Aggregates, Inc., San Francisco; F. J. Twaits, Consolidated Rock Products Co., Los Angeles, and W. F. Blaikie, Imperial Rock Corp., Los Angeles.

Under the code a 40-hour maximum work week (except for certain classes of employees, few in number, for which a 48-hour week is permitted) and minimum wages ranging from 40 cents an hour in northern states to 25 cents an hour in the deep south, are established. Workers paid on an hourly basis will receive time and one-third for over-time work.

The minimum hourly wage rate fixed for Arizona is 30 cents; for California, Colorado, Idaho, Montana, Oregon, Utah, Nevada and Wyoming, 40 cents.

The code permits the adoption, at the option of district committees subject to the approval of the regional committee and of the Code Authority, of an open price policy as follows:

"No producer selling with a district described in paragraph (c) of this section shall sell any product at less than his prime plant cost thereof, plus 10 per cent. Such cost shall be computed in accordance with the standard uniform accounting and costing system for the industry in which the producer is engaged and shall include all items of cost exclusive of return on capital invested, interest on borrowed capital, depreciation, depletion, administration, selling costs and reserves."

The code requires that in districts where the policy is adopted, all producers shall file with the district committees at least five days in advance of their effective date, all prices, terms and conditions of sale.

Lumber Mill Order File Still Reflects Rush To Beat Code

Due largely to purchases in anticipation of the minimum prices now going into effect, lumber orders received at the mills during the week ended November 18, 1933, as well as those of the preceding week were the heaviest booked since 1930, this week's record surpassing any week since October, 1930, and the preceding week, since May 30.

Production during the week ended November 18, was only slightly heavier than during the three preceding weeks and fell considerably short of any third-quarter week of 1933, according to telegraphic reports to the National Lumber Manufacturers Association from regional associations covering the operations of leading hardwood and softwood mills. The reports were made by 1,372 American mills whose production was 182,522,000 feet; shipments, 164,610,000 feet; orders 273,549,000 feet. The previous week's orders were 315,884,000 feet, with production of 178,783,000 feet. Production of 22 British Columbia mills also reported by the West Coast Lumbermen's Association was 14,205,000 feet; shipments, 9,013,000 feet; orders, 20,792,000 feet.

All regions except the Southern Pine and Northern hardwoods reported orders above output, total softwood orders being 36 percent above production. Hardwood orders were more than twice output. The Southern Pine drop in new business was apparently a reaction from the recent buying in anti-

pation of the establishment of minimum prices which became effective earlier than those of other regions. Southern pine and northern hardwoods were also the only regions where orders were less than during corresponding week of 1932. Total softwood orders were 92 per cent above those of a year ago; southern hardwood orders were nearly four times the 1932 record.

Unfilled orders at the mills on November 18 were the equivalent of 21 days' average production of reporting mills, compared with 15 days' two weeks ago and 14 days' a year ago.

Forest products carloadings during the week ended November 11 of 23,661 cars were 685 cars above those of the preceding week, 7,693 cars above those of similar week of 1932 and 790 cars above the same week in 1931.

The first report of the West Coast Lumbermen's Association reflecting trade conditions following the establishment of cost return prices under the national code was issued yesterday.

The 433 mills reporting orders showed a decrease from 189,000,000 board feet in the previous week to 129,800,000 feet, a dropping off of 60,000,000 feet, about the amount of orders received by all mills in a normal week during this fall. The week's new business of 129,800,000 feet is the highest since May. This is believed by the industry, however, to be a hold-over from the previous rush to secure bargains.

California Third in 1932 Lumber Production, Census Bureau Reports

Revised figures of lumber production in 1932 by the U. S. Census Bureau show total output of 10-151,232,000 feet which compares with 16,522,643,000 feet in 1931 and 36,886,032,000 feet in 1929. Washington, Oregon and California are leading states in 1932, California, as the ranking third state, displacing Louisiana and Mississippi, one of whom had held that position for ten years.

Southern pine and Douglas fir continue as leading species, the former in 1932 exceeding the latter by 6 percent and in 1930 by 15 percent; in 1931, fire production was reported as 5 percent above Southern pine.

On the basis of mill reports to the National Lumber Manufacturers' Association for the first 41 weeks of 1933, lumber production in 1933 will be approximately 13 billion feet, hardwood probably totalling somewhat over two billion

feet and softwoods about 10,750,000,000 feet. In 1932 hardwood production was reported by the Census as 1,405,596,000 feet and softwoods 8,745,636,000 feet. All regions in 1933 will show substantial increase over 1932, the increase in the western regions probably being a little greater than in the South.

The report of the Lumber Survey Committee to the Timber Conservation Board, issued early this month, estimated lumber consumption in 1933 (including anticipated consumption during the fourth quarter of the year) as 13,700,000,000 feet or a billion feet above production, which is the probable net reduction in stocks in the country. The report indicates that manufacturers decreased their stocks by 1,200,000,000 feet; other advices indicate that yard stocks of retailers and other distributors made net addition to their stocks which had been in badly depleted condition,

U. S. BUILDING DROPS 7.4% DURING MONTH

Cities Report Decline in Permit Totals for Residential Work

Expenditures for building in the United States, as indicated by reports from 758 identical cities having a population of 10,000 or over, decreased 7.4 percent in October compared with September, according to the Bureau of Labor Statistics of the United States Department of Labor.

The number of new residential buildings decreased 4.8 per cent while indicated expenditures for this type of structure decreased 39.9 per cent.

New nonresidential buildings increased 4.1 per cent in number and 2.2 per cent in estimated cost.

The number of additions, alterations and repairs to existing buildings increased three tenths of one per cent, while expenditures for these alterations increased 18.1 per cent.

Contracts awarded for Federal building operations during October totaled \$14,489,933. Federal awards for construction projects of all kinds totaled over \$134,000,000. Expenditures for all types of structures (except naval vessels and reclamation projects) financed from public funds, that is, public roads, river, harbor and flood-control projects, street paving, forestry, and water and sewerage work, increased in October as compared with September.

As compared with the year previous, October showed a decrease of 30.1 per cent in the number and a decrease of 20.9 per cent in indicated expenditures for new residential buildings.

New nonresidential buildings decreased 17.8 per cent in number and 20.2 per cent in estimated cost comparing October with the same month of last year.

The number of additions, alterations and repairs increased 9.5 per cent, while expenditures for this type of construction increased 28.8 per cent comparing the two months under discussion.

The number of family-dwelling units provided in new dwellings in these 341 cities decreased 29.3 per cent.

Permits were issued during October for the following important building projects: In West Hartford, Conn., for a school building to cost \$235,000; in Newark, N. J., for a public utilities building to cost \$1,500,000; and in Los Angeles, for factory buildings to cost \$1,600,000. A contract was awarded by the Bureau of Yards and Docks, Navy Department, for a machinery and electrical shop in the navy yard Bremerton, Wash., to cost \$575,000.

NEW BULLETIN REVIEWS STUDY OF SHELL COLUMN

The strength of a thin cylindrical shell as a column has assumed some importance to structural engineers because of the recent development of elevated storage tanks with radial-cone bottoms for which the standpipe functions as a column to carry part of the weight of the tank and its contents.

A thin cylindrical shell loaded as a column may fail either by instability of the wall of the shell which may not at all involve lateral distortion of the axis.

The object of the investigation described in Bulletin No. 255 of the Engineering Experiment Station of the University of Illinois, entitled "The Strength of Thin Cylindrical Shells as Columns" was to study the type of failure characterized by local wrinkling and to investigate the dependence of wrinkling strength upon variables of two kinds (1) physical properties of the material and (2) geometrical properties of the cylinder, such as length, thickness, radius, and end conditions.

The effect of these variables has been studied experimentally, and an attempt has been made to correlate the results with theory as developed by Southwell and others. The investigation was carried on in cooperation with the Chicago Bridge and Iron Works, who furnished the specimens and provided funds from which to pay the direct expenses.

The wrinkling stress indicated by theory was not reached in any of the tests at the failure of the specimen; the highest value obtained was about 60 per cent of the theoretical.

Failure was in almost all cases sudden, and accompanied by large vertical deformation. For fairly thin specimens having no great defects there was little, if any warning of impending failure.

As a result of the investigation a formula is suggested for the working stress to be used in designing thin cylindrical shells that function as columns for which the ratio of length to radius of gyration does not exceed 35.

For a limited time copies of Bulletin No. 255 may be obtained without charge by addressing the Engineering Experiment Station, Urbana, Illinois.

ASPHALT ROOFING CODE IS APPROVED

A national code of fair competition for the asphalt shingle and roofing industry was approved by President Roosevelt on November 6. A minimum wage of 15 cents an hour for employes in the Pacific Coast section is provided, with a 40-hour week for employes excepting in periods of seasonal demand.

SLIGHT GAIN IN MATERIALS DURING MONTH

U. S. Bureau Reports Prices up Nearly Twenty Per Cent From 1932

Continued strengthening of prices of brick and tile, cement, lumber, structural steel and other building materials during October caused an advance in the national price index of building materials of nearly one and one-half percent, according to the monthly report of the Bureau of Labor statistics.

Prepared paint and paint materials registered slightly declining prices.

The price index for the building materials group stood at 83.9 at the end of the month compared with 82.7 at the end of September, and 70.7 in October, 1932.

Metals and metal products as a whole continued on the upgrade due to further advancing average prices of agricultural implements, iron and steel products, and motor vehicles. On the other hand non-ferrous metals showed a general weakening of prices, while plumbing and heating fixtures remained at the September levels. The index for the group as a whole rose by more than 1 percent, standing at 83, compared with 82.1 at the end of September and 80.3 a year ago.

The plumbing and heating group index was 74.7 at the end of October, showing no change from September, but up from 67.5 compared with a year ago.

Following are the comparative figures in the building materials index for October 1932 and 1933:

Building materials	70.7	83.9
Brick and tile	75.3	84.6
Cement	79.0	91.2
Lumber	56.6	84.2
Paint & paint mtl.....	68.3	76.1
Plumbing & heating.....	67.5	74.7
Structural steel	81.7	86.8
Other bldg. mtl.....	80.00	87.1

POUR 204,000 YARDS CONCRETE AT BOULDER

Concrete placed in the dam and power house at Boulder Dam on the Colorado river during month of October amounted to 204,572 cubic yards, according to F. T. Crowe, general superintendent for Six Companies, Inc. This surpasses the record of 175,337 cu. yd. in September and brings the total to the end of October up to 630,271. The September yardage was distributed: dam and power house footings on face of dam, 167,407 cu. yds.; spillways, spillway and penstock tunnels, 7,930 cu. yds.

During the same period the average daily production of concrete was 6,262 cu. yds. and the maximum day's run on the dam was 7,883 yds. By the end of the month the dam had been raised about to the elevation where the maximum number of blocks becomes available for placing concrete.

Attorney-General Rules on CRA Bidding for State Public Works

Attorney-General U. S. Webb has forwarded State Director of Public Works Earl Lee Kelly a ruling on questions arising from bidding on state public works under the California Recovery Act codes. The questions asked by Kelly and the attorney-general's answers follow:

1. Have the approved provisions of the N.I.R.A. Construction Industry Code as to minimum wages and maximum hours superseded the provisions as to such matters of the Excavating and Dump Truck Contractors' code approved under the said supplement to the California Industrial Recovery Act?

(1). Under the National Industrial Recovery Act most industries signed what was commonly called the "Blanket Code." However, it has been pointed out that this is a misnomer and that the so-called "Blanket Code" is in reality not a code at all, but is an agreement entered into under Section 4(a) of the N.I.R.A., properly designated the "President's Re-employment Agreement."

See Section 16012 Prentice-Hall Federal Trade and Industry Service.

After such agreement has been entered into, the various industries, and in this instance, the Construction Industry, have submitted codes of fair competition to the National Administration for approval. Certain provisions contained in such code relating to hours and wages have been substituted for similar provisions contained in the original President's Re-employment Agreement as authorized by Section 13 of said agreement.

Chapter 1037, Statutes 1933 (Supplement to California Industrial Recovery Act) provides that whenever a national code is approved for a certain industry that code supersedes any state code for that industry and becomes the code for said industry in this state.

See Opinion 9844 rendered by this office on October 10, 1933, a copy of which is enclosed herewith.

Your first question is whether the provisions of the Construction Industry Reemployment Agreement containing the substituted provisions above referred to have superseded the state code as to such provisions.

It is only when a "code" has been "approved" under the National Act for that industry.

I do not believe that the President's re-employment agreement can be construed to be a "code" that has been approved and I am therefore of the opinion that a state code is not superseded by such reemployment agreement, notwithstanding that certain provisions of the proposed National Code have been incorporated into such agreement with the approval of the National Administration.

2. Has the approval of certain sections of the proposed Construction Industry code under the N.I. R. A. superseded the state code in its entirety?

(2). Your second question is answered by what has above been said.

3. Does the California Industrial Recovery Act and the supplement thereto (Chapters 1039 and 1037, respectively, Statutes of 1933) authorize the adoption of state codes of fair competition governing the operations of contractors on public works of the State of California, as well as their operations in private industry?

(3). It is the universal rule of statutory construction that a general statute is not binding upon the state and its agencies unless expressly included or unless the intent to bind them otherwise clearly appears. The provisions of Chapters 1037 and 1039, Statutes of 1933 do not expressly include the state so as to make the state subject to the provisions of any code of fair competition approved for a particular industry. However, we think that the intent to subject the state to such provisions in a proper case otherwise clearly appears.

Both of the statutes referred to specifically declare it to be the policy of the State of California to cooperate with and assist the National Government in promoting the rehabilitation of trade and industry and in eliminating unfair competitive practices.

Chapter 1039 provides that it shall be unlawful for any person, firm, association or corporation to engage in business in violation of a code approved for the industry in which it is engaged.

It would seem to be an anomalous situation if the state were to take the position that a given industry must comply with its code when engaged in private enterprise but could disregard such code when engaged on public work. It would seem that to be consistent, government itself should take the lead in requiring persons with whom it contracts to comply with the code approved for the industry in which they are engaged if, by its terms, the code is applicable to them. We feel, therefore, that the state legislature contemplates as a general proposition that a code of fair competition approved under the National Act or the State Act for a given industry is to govern those coming within its provisions when engaged in public, as well as private, work.

In this connection I call your attention to the executive order of the President dated August 10, 1933 requiring contractors entering into contracts with the United States or any of its agencies or instrumentalities to comply with their respective codes.

4. Does the said California recovery legislation authorize price fixing provisions through codes?

(4) Your next question has to do with price-fixing through codes of fair competition. This question is one concerning which there has been considerable controversy. The California Recovery legislation does not expressly authorize price-fixing. It does, however, authorize codes of fair competition if such "codes are not designed to promote monopolies or to eliminate or oppress small enterprises and will not operate to discriminate against them" and providing also that such codes "shall not permit monopolies or monopolistic practices." Section 3, Chapter 1037, Statutes of 1933.

It may be that in order to effectively prevent unfair competition it might become necessary to invoke some form of price-fixing and we are not prepared to say that the same is not authorized where it is done without violating said Section 3 of Chapter 1037.

5. If such price fixing provisions are valid, is it lawful for me to award a contract to a bidder who, when competitive bids are called for, submits a bid lower than the minimum price fixed in the code?

(5). In your fifth question you ask whether it is lawful for you to award a contract to a bidder who, when competitive bids are called for, submits a bid lower than the minimum price fixed in a code.

I assume that by this you mean that the bid is based upon prices or figures for a given commodity or service below those set forth in the code.

The answer to this question, I think, lies in the fact that while you are charged with knowledge of what each code contains, since it becomes law upon approval, you are not charged with the duty of any code.

Under the law you are required to let the contract to the lowest responsible bidder. The bidder must post cash, a bond, or a certified check, as required by law, which is subject to forfeiture under certain circumstances.

If a contractor is under a code and fails to comply therewith he may be punished and may also be enjoined from continuing such non-compliance. The enforcement of these provisions, however, does not devolve upon you.

6. Are the provisions of Article 2 of the said Excavating and Dump Truck Contractors' Code to be construed to mean that the code does not apply to persons who have not become members of the Excavators and Dump Truck Owners' Association of Northern California, so that such non-members would not be bound by the provisions of the said code?

(6). Section 1 of Article 2 of the Excavating and Dump-Truck Contractors' Code relating to participation therein, provides as follows:

"Participation in this Code, and any subsequent amendment thereof, shall be extended to any excavating and/or dump truck contractor in the Northern Section of the State of California who accepts his share of the cost and responsibility, as well as the benefit, of such participation by becoming a member

of the Excavators & Dump Truck Owners' Association of Northern California, hereinafter called the Association."

By the terms of that provision participation in the code is extended to those contractors who accept their share of the cost and responsibility of such participation by becoming a member of the Association. The intent of this section appears to be that participation in the administration and benefits to be derived as members of the Association is to be extended to those sharing the expense thereof.

Section 1 of Article 15 of the Code provides that the provisions thereof "shall govern all public and private excavating * * * work performed by any person, firm, copartnership or corporation within the Northern Section of the State of California," and that provision clearly shows that it was contemplated that all persons in the industry were to be bound by the provisions of the code whether they are members of the Association or not.

7. The following provision has been inserted in the special provisions of the state highway contracts recently awarded:

"(d) Construction Code. The contractor will be expected to comply with any code of fair competition governing the construction industry approved under the authority of the provisions of the National Industrial Recovery Act, and any state statutes relating thereto, and any violation of such code or statute will be reported to the proper authorities."

Should this provision be regarded merely as a warning to the contractor that the Department may report violations, or can it be regarded, in case of failure to comply with any such code, as a breach of contract, authorizing the termination by the Department of the contractor's control over the work?

(i). The provision quoted in your seventh question to the effect that "the contractor will be expected to comply with any code of fair competition," etc., appears to be in the nature of a warning, it being merely a statement of what will be "expected" of the contractor. It is doubtful whether a failure to live up to those expectations would constitute such a breach of the contract as would authorize the termination by the Department of the contractor's control over the work.

AIR-CONDITIONING SALES INCREASING

Definite evidence that the air conditioning industry has passed the "growing pains" stage is given by the large number of buyers this year, according to the Westinghouse Electric and Manufacturing Company.

Business men appear to be very solicitous of comfort in their offices for they are the largest class of buyers of air conditioners, a summary of Westinghouse sales reveals. A trial has proven to these executives that they can do more and better work when they are not inconvenienced by eccentricities of the weather.

U. S. CHAMBER HOLDS WESTERN MEET DEC. 3-4

Business Executives to Convene At Sacramento For Recovery Study

With the general theme "Steps Ahead in National Recovery," the tenth western divisional meeting of the Chamber of Commerce of the United States will convene in Sacramento on Sunday evening, Dec. 3, for a two-day series of general sessions and round table discussions Monday and Tuesday on topics of interest to business generally.

Approximately 1500 business executives from Pacific Coast communities are expected to attend, in addition to an imposing array of guest speakers from the middle west and east. Among those who have accepted invitations to speak are Henry I. Harriman of Boston, president of the National Chamber, speaking on "General Recovery Problems"; James A. Farrell of New York, chairman National Foreign Trade Council, on "Foreign Trade Problems"; and Fred W. Sargent, of Chicago, president of Chicago & Northwestern Railway Co., on "Government Financial Problems." Other prominent speakers on the program include Paul Shoup, head of the Southern Pacific Company; Frederick J. Koster, president California Barrel Company, Ltd.; Oscar Sutro, general counsel for Standard Oil Company of California; C. C. Teague, president, California State Chamber of Commerce; Wallace M. Alexander, Alexander & Baldwin, Ltd., and others. Topics to be discussed include: Trade Relations with Russia; Our Relations with the Orient; The Industrial Outlook; The Present Gold Situation; Taxation and General Expenditures; Public Works and Public Ownership; The Agricultural Adjustment Act, and National Defense. The Lumber and Petroleum codes, and future mining policies will also be taken up.

Headquarters will be maintained at the Hotel Senator. Conference sessions will be held in this hotel, the Civic Auditorium and the Masonic Temple. The sessions begin Sunday evening, December 3, and will be brought to a close on Tuesday afternoon, December 5. Special railroad rates are in effect for business men planning to attend. Hotel reservations may be arranged thru the local Chamber of Commerce.

ISSUE WEEKLY CODE REPORT

A weekly report on "Movement of Timber Products" to the Divisions, has been undertaken by the Lumber Code Authority.

RECONSTRUCTION OF FOUR CITY SCHOOLS ORDERED

Engineers Making Earthquake Survey of Fourteen Other Buildings

With three city schools definitely closed, and four more expected to be closed within the week, the Board of Education declared yesterday that it will continue the 'earthquake hazard' survey to fourteen other San Francisco schools. The buildings will be remodeled where necessary to conform with the recent structural standards set up by the state law.

The schools already closed and the structural changes recommended by the Board and their approximate cost are:

Girls' high school, entire replacement of masonry, \$114,000.

Redding elementary school, 50% replacement of masonry, \$68,400.

John Swett junior high, entire replacement of masonry, \$36,700.

The auditorium of the Daniel Webster school was also ordered closed with the cost of masonry replacement being set at \$11,650.

Lowell high, Bay View, Commodore Stockton, and Washington Irving are the four other schools which will be immediately examined by structural engineers.

Repair plans and specifications for structural changes in steel frames to withstand lateral stresses and entire replacements in masonry work in the condemned schools are now being prepared. These will first be approved by the Board of Education, then sent to Sacramento for examination by the State Bureau of Architecture.

Contracts for the work will be advertised as soon as plans are approved.

Joseph Marr Gwinn, superintendent of Schools, announced the actual work in repairing and altering the buildings will not commence until the first of next year.

The closing of the schools followed a survey by structural engineers who recommended changes necessary, to bring the buildings into conformity with recently enacted legislation providing that all schools throughout the state must be 'earthquake resistant,' President Philip Lee Bush pointed out.

The other schools to come under the investigation include the Columbus (original building), Excelsior, Golden Gate, Jean Parker, Laguna Honda, Washington, Hancock (original building) and the Spring Valley (original building).

The engineers conducting the investigations are Earl Cope, H. J. Brunner, L. H. Nishkian and Walter L. Huber, all employed for the Board of Education by the Department of Public Works.

CALIFORNIA HIGHWAY AWARDS

Following is a tabulation of date of all contracts (exceeding \$10,000) awarded by the California State Highway Commission since October 1, 1933:

Constructing Authority	Contract	Contractor	Bid	Date Awarded
California Highway Commission	Undergrade crossing, Sacto. Co.	Lord & Bishop, Sacramento	\$ 86,871.70	Oct. 2
California Highway Commission	9.5 miles grading and surfacing, Del Norte County	Youdall Const. Co. & Chas. Harlow, S. F.	\$678,799.00	Oct. 2
California Highway Commission	0.4 mi. grade & pave, Marin Co.	A. J. Ralsch, S. F.	\$ 46,437.30	Oct. 2
California Highway Commission	4.2 miles grade and surf., Placer and Nevada Counties	A. Teichert and Son, Sacramento	\$237,293.00	Oct. 2
California Highway Commission	7.3 miles surf., San Diego Co.	Daley Corp., San Diego	\$ 11,375.10	Oct. 3
California Highway Commission	1.0 miles grading and paving, Orange County	Griffith Co., L. A.	\$ 41,801.60	Oct. 3
California Highway Commission	Overpass, San Bernardino Co.	J. F. Knapp, Oakland	\$189,985.50	Oct. 3
California Highway Commission	0.9 miles grading and surfacing, Sonoma County	Peninsula Paving Co., San Francisco	\$ 63,021.00	Oct. 5
California Highway Commission	0.6 miles grading, Santa Barbara County	Kovacevich and Price, Inc., Southgate	\$ 23,839.00	Oct. 6
California Highway Commission	9.7 miles grading and surfacing, Mono County	Southwest Paving Co., Los Angeles	\$191,235.00	Oct. 6
California Highway Commission	9.8 miles grading and surfacing, Siskiyou County	A. Teichert and Son, Sacramento	\$ 59,457.00	Oct. 6
California Highway Commission	15.9 miles grading & surfacing, Shasta County	A. Teichert and Son, Sacramento	\$123,785.00	Oct. 6
California Highway Commission	Bridge, Willow Creek, Monterey County	Associated Constructors, Los Angeles	\$ 33,665.00	Oct. 9
California Highway Commission	Bridge, Carmel River, Monterey County	Bodenhamer Const. Co., Oakland	\$ 36,939.00	Oct. 9
California Highway Commission	Bridge, Calleguas Creek, Ventura County	Associated Constructors, Los Angeles	\$ 26,851.00	Oct. 9
California Highway Commission	5.0 miles surfacing, L. A. Co.	Griffith Const. Co., L. A.	\$ 35,090.00	Oct. 11
California Highway Commission	1.6 miles, widening pave., Ventura County	Kovacevich and Price, Southgate	\$ 30,454.50	Oct. 13
California Highway Commission	25 miles fuel oil treatment, San Bernardino County	Geo. Hertz & Co., San Bernardino	\$ 23,951.50	Oct. 17
California Highway Commission	7.3 miles surf., San Diego Co.	Daley Corp., San Diego	\$ 11,375.10	Oct. 17
California Highway Commission	1.4 miles asphalt concrete paving, Contra Costa County	Peninsula Paving Co., San Francisco	\$ 37,923.50	Oct. 17
California Highway Commission	Undergrade crossing, Los Angeles County	Kovacevich and Price, Southgate	\$ 43,474.50	Oct. 17
California Highway Commission	Overhead crossing, Kern Co.	Oscar Oberg, L. A.	\$ 55,286.00	Oct. 18
California Highway Commission	Overhead Crossing, Mendocino County	Rocca & Calletti, San Rafael	\$ 25,393.00	Oct. 18
California Highway Commission	Overhead crossing, Sonoma Co.	B. A. Howkins, S. F.	\$ 24,890.00	Oct. 18
California Highway Commission	3.5 miles grading and paving, San Bernardino County	C. O. Sparks, Los Angeles	\$ 91,716.00	Oct. 23
California Highway Commission	Bridge, Coyote Creek, Ventura County	Carl Bongiovanni, Hollywood	\$ 26,591.00	Oct. 23
California Highway Commission	1.9 miles grading and paving, San Luis Obispo County	M. J. Bevanda, Stockton	\$ 72,591.00	Oct. 23
California Highway Commission	1.9 miles grading and paving, Humboldt County	Mercer-Fraser Co. Eureka	\$101,939.00	Oct. 23
California Highway Commission	4.2 miles grading and surfacing, Calaveras County	Fredrickson & Watson Const. Co., Oakland	\$ 62,634.00	Oct. 23
California Highway Commission	1.4 miles concrete pave., Montebello, Los Angeles Co.	Oswald Brog., L. A.	\$ 47,658.00	Oct. 28
California Highway Commission	1.30 miles grading & surfacing, Shasta County	J. W. Bertram, Montgomery Creek	\$ 11,702.50	Oct. 28
California Highway Commission	Bridges, Imperial County	Lynch - Cannon Engr. Co., Los Angeles	\$ 76,367.00	Oct. 28
California Highway Commission	4.9 miles grading and paving, Santa Barbara County	Weymouth-Crowell Co., Los Angeles	\$290,887.39	Oct. 31
California Highway Commission	2.7 mi. grade and pave, Santa Clara County	Basich Brothers, Torrance	\$213,461.00	Nov. 7
California Highway Commission	0.7 mi. (irrigation ditch) excav. and lining, Sacramento Co.	J. W. Hoopes, Sacramento	\$ 11,265.00	Nov. 7
California Highway Commission	Widening and oil treat., pave., Los Angeles & Kern Counties	Dimmitt and Taylor, Los Angeles	\$ 45,617.05	Nov. 7
California Highway Commission	Grading 3.7 mi., Yolo County	Young & Sons, Ltd., Berkeley	\$140,708.00	Nov. 7
California Highway Commission	9.9 mi. grade and surface, Monterey County	Jones and King, Hayward	\$103,897.00	Nov. 14
California Highway Commission	Widen bridges, San Diego Co.	Contracting Engr. Inc.	\$ 12,743.25	Nov. 14
California Highway Commission	0.8 mi. grade and pave, Santa Barbara County	P. J. Akmadzich, Los Angeles	\$ 36,725.40	Nov. 14
California Highway Commission	9.8 mile grading and surfacing, San Bernardino County	United Concrete Pipe Corp., Los Angeles	\$ 32,123.00	Nov. 23
California Highway Commission	5.0 miles paving, Alameda and Contra Costa Counties	Peninsula Paving Co., San Francisco	\$ 74,907.00	Nov. 23
California Highway Commission	Grading, Kern County	J. F. Knapp, Oakland	\$133,773.00	Nov. 23
California Highway Commission	Bridge, Pine Creek, Butte Co.	Bodenhamer Const. Co., Oakland	\$ 14,585.00	Nov. 23
California Highway Commission	1.9 mi. grading, surfacing, etc., Monterey County	J. L. Conner, and K. Kristich, Monterey	\$ 48,962.00	Nov. 23
California Highway Commission	Screenings, Humboldt and Del Norte Counties	Hemstreet and Bell, Marysville	\$ 11,094.00	Nov. 23
California Highway Commission	1.6 miles grading and paving, Los Angeles County	P. J. Akmadzich, Los Angeles	\$ 86,970.00	Nov. 27
California Highway Commission	Grading and surfacing, San Joaquin County	Tiffany Const. Co. San Jose	\$ 76,851.25	Nov. 27
California Highway Commission	Grading & paving, San Bernardino County	United Concrete Pipe Corp., Los Angeles	\$ 23,884.78	Nov. 27

PERMITS AND CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
847	Kamokila	Unit	1000
848	Milwaukee	—	80000
849	Norwith	McFarland	1000
850	Mohler	Owner	3800
851	Ferrando	Cappelletti	4850
852	Norwith	McFarland	1000
853	Gravano	Quistad	2500
854	Cordano	Owner	1000
855	Albert	Coburn	8000
856	Klinger	Metz	1175
857	Playground	Owner	1200
858	Bothin	Damico	2000
859	Mager	Mager	3000
858	Richfield	Owner	7500
859	MacDonald	Owner	1500

ALTERATIONS

(847) NO. 960 BUSH ST. Alter club.
Owner—Club Kamokila, Premises.
Architect—Not Given.
Contractor—Unit Built Fixture Co.,
963 Harrison St., \$1000

ADDITION

(848) W TENTH ST. 175 N Bryant.
Five-story Class A addition to
stock house.
Owner—Milwaukee Brewery of San
Francisco, 490 10th St., San Fran-
cisco.
Engineer—W. E. Murray, 908 Hayes
St., San Francisco, \$80,000

DWELLING

(849) SE PIERCE AND LOMBARD.
One-story frame dwelling.
Owner—B. Norwith, 1205 Tenth Ave.,
San Francisco.
Engineer—J. McFarland, 710 47th Ave.
San Francisco.
Contractor—J. McFarland, 710 47th
Ave., San Francisco. \$1000

DWELLING

(850) W TWENTY-EIGHTH AVE 240
N Cabrillo St. One-story and base-
ment frame dwelling.
Owner—T. E. Mohler, 751 28th Ave.,
San Francisco.
Architect—Not Given. \$3800

DWELLING

(851) E UTAH 77 N NINETEENTH.
Two-story and basement frame
dwelling.
Owner—D. Ferrando, 548 Utah St.,
San Francisco.
Architect—Not Given.
Contractor—D. Cappellitti, 667 Hamp-
shire St., San Francisco. \$4850

STATION

(852) SE PIERCE AND LOMBARD.
One-story Class C service station.
Owner—Barney Norwith, 1205 10th
Ave., San Francisco.
Architect—Not Given.
Engineer—J. McFarland, 710 47th Ave.
San Francisco.
Contractor—J. McFarland, 710 47th
Ave., San Francisco. \$1000

STORE

(853) 21st AVE. and Taraval St.; one
story frame store.
Owner—Peter Gravano, 446 24th Ave.
Architect—Not Given.
Contractor—E. J. Quistad, 3666 22nd
Street. \$2500

ALTERATIONS

(854) 3372 MISSION ST.; alter store.
Owner—Jennie Cordano, 3372 Mission.
Architect—Not Given. \$1000

ANNEX

(855) NO. 1859 GEARY ST. Two-
story Class C annex.

Owner—Albert Pike Temple Memorial
Assn., 1859 Geary St., S. F.
Architect—Not Given.
Contractor—Ira W. Coburn, 2048
Market St., San Francisco. \$8000

OVEN

(856) SW GENEVA AVE. 137 NW
Naples. Brick oven for bakery.
Owner—Carl Klinger, 100 Guttenberg
St., San Francisco.
Architect—Not Given.
Contractor—Paul Metz, 855 44th St.,
Oakland. \$1175

STOCKROOM

(857) NO. 4800 CABRILLO ST. Two-
story stockroom.
Owner—Playground-at-the-Beach, Inc.
Premises.
Architect—Not Given. \$1200

ALTERATIONS

(858) NO. 1174 HOWARD ST. Alter
garage building for dairy.
Owner—Bothin Realty Co., Premises.
Architect—Not Given.
Contractor—T. Damico, 2345 Polk St.,
San Francisco. \$2000

DWELLING

(859) E TWELFTH AVE. 175 S
Moraga. One-story and basement
frame dwelling.
Owner—William Mager, 1359 4th Ave.,
San Francisco.
Architect—Not Given.
Contractor—Mager Bros. & Sons, 1359
Fourth Ave. \$3000

STATION

(858) NE BAY AND FILLMORE.
One-story Class C service station.
Owner—Richfield Oil Co., 248 Battery
St., San Francisco.
Architect—Not Given. \$7500

ALTERATIONS

(859) SE POWELL AND SACRA-
mento Sts. Alter apartments.
Owner—G. MacDonald, 315 Mont-
gomery St., San Francisco.
Architect—R. M. Sharpe, 525 Market
St., San Francisco. \$1500

ALAMEDA COUNTY

517 Golden	Owner	1390
518 Brandi	Owner	3000
519 Midgley	Owner	2000
520 Cee Bee	Parsons	2950
523 Havens	Swonstrom	1500
524 Moen	Swanstrom	1500
525 Oddone	Valente	2900

SHED

(517) NO. 559 KIRKHAM ST., OAK-
LAND. One-story shed.
Owner—Golden West Brewing Co.,
Premises.
Architect—Not Given. \$1390

STORE

(518) NO. 10,312 - 14 - 16 E-FOUR-
teenth St., OAKLAND. One-story
store.
Owner—J. Brandi, 10,439 E-14th St.,
Oakland.
Architect—Not Given. \$3000

ALTERATIONS

(519) NO. 647 E-TWELFTH ST.,
OAKLAND. Alterations.
Owner—C. W. Midgley, 895 Rosemount
Road, Oakland.
Architect—Not Given. \$2000

ALTERATIONS

(520) 2372 TELEGRAPH AVE., OAK-
LAND. Alterations.
Owner—Cee Bee Garage, Premises.
Architect—Not Given.

Contractor—P. Parsons, 2372 Tele-
graph Ave., Oakland. \$2950

521 Western Owner \$500
522 Rollins Rodger 2600

LOADING SHED

(521) WESTERN PACIFIC MOLE,
OAKLAND; 1-story loading shed.
Owner and Builder—Western Pacific
Railroad Co., 983 Mills Bldg., San
Francisco.
Architect—Not Given. \$8500

SERVICE STATION

(522) 1950 E 38th ST., OAKLAND;
one-story steel service station, 1-
story comfort station, 1-story lift
building.
Owner—M. H. Rollins, 3719 Canon St.,
Oakland.
Architect—Not Given.
Contractor—J. C. Rodger, 2257 106th
Ave., Oakland. \$2600

ALTERATIONS

(523) NO. 731 - 733 BROADWAY,
OAKLAND. Alterations.
Owner—Weston Havens, Berkeley.
Architect—J. W. Plachek, Berkeley.
Contractor—Geo. Swanstrom, 1615 78th
Ave., Oakland.

BUILDING CONTRACTS SAN FRANCISCO COUNTY

182 Pacific	Bernstein	330
183 Ferrando	Cappelletti	6400
184 S P	Westinghouse	1300

PAINTING WORK

(182) SW BUSH AND LARKIN STS.
Graystone Office. All work for
painting.
Owner—Pacific Telephone & Tele-
graph Co.
Architect—Not Given.
Contractor—William Bernstein, Hearst
Bldg., San Francisco.
Filed Nov. 24, '33. Dated Nov. 8, '33.
On 1st of each month..... 75%
40 days after..... 25%
TOTAL COST, \$330
Bond, \$330. Surety, Hartford Accident
& Indemnity Co. Limit, 20 days.
Forfeit, none. Specifications only filed.

FLAT BLDG.

(183) E UTAH ST. 77-2 N Nineteenth
25x100. All work for two-story
flat building.
Owner—Domenico and Caternia Fer-
rando.
Architect—Not Given.
Contractor—Daniel Cappelletti, 667
Hampshire St., San Francisco.
Filed Nov. 24, '33. Dated Nov. 21, '33.
Roof on.....\$1600
1st coat plaster on..... 1600
When completed..... 1600
Usual 35 days..... 1600
TOTAL COST, \$6400
Bond, \$3200. Sureties, G. Bagnani and
C. Bagnani. Limit, 90 days. Forfeit,
plans and specifications, none.

ELEVATOR REPAIRS

(184) THIRD and Channel Sts.; re-
pairs to elevators in Grocers Ter-
minal Bldg.
Owner—Southern Pacific Co., 65 Mar-
ket Street.
Architect—Not Given.
Contractor—Westinghouse Elec. Ele-
vator Co., 260 5th St.
Filed Nov. 28, '33. Dated Nov. 13, '33.
Monthly.....75%
Usual 35 days.....25%
TOTAL COST, \$1369
Bond, \$1369. Sureties, United States
Guarantee Co. Limit, 90 days. Plans
and Spec. filed.

BUILDING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

- | | |
|---------------------------------|---|
| 1.—Apartments | Offices |
| 2.—Bonds | 11.—Ice and Cold Storage Plants |
| 3.—Churches | 12.—Power Plants |
| 4.—Factories and Warehouses | 13.—Public Buildings, Fire Houses and Jails |
| 5.—Flats | 14.—Residences |
| 6.—Garages and Service Stations | 15.—Schools |
| 7.—Federal Buildings | 16.—Banks, Stores and Theatres |
| 8.—Club Buildings | 17.—Wharves & Docks |
| 9.—Hospitals | 18.—Misc. Const. |
| 10.—Hotels | 19.—Misc. Supplies & Materials |

1— APARTMENTS

SANTA CRUZ, Santa Cruz Co., Cal.—Izant & Wilson, Santa Cruz, awarded a contract to the Pittsburg Heater Company, 898 Van Ness Avenue, San Francisco, to install machinery in the Esplanade Apts., Santa Cruz, in connection with the new heating system being installed.

2— BONDS

SAN DIEGO, Cal.—The Reconstruction Finance Corporation submitted the only bid to the San Diego City Council for the purchase of a block of \$1,500,000 bonds of ElCapitan Dam issue at par and accrued interest.

3— CHURCHES

LONG BEACH, Los Angeles Co., Calif.—Architect W. H. Austin, 532 Chestnut Ave., Long Beach, and V. D. Hedden, 420 Security Bldg., Long Beach, are taking bids for reconditioning a church building at Locust Ave. and Fifth St., Long Beach, for First Christian church. Work does not include interior partitions, painting, plastering and art glass. All exterior walls will be built of reinforced concrete, structural steel, gunite work etc. Cost, \$60,000.

4— FACTORIES & WAREHOUSES

To Be Done By Day's Work.
SHED Cost, \$1500
OAKLAND, Alameda Co., Cal. No. 559 Kirkham Street.
One-story shed.
559 Kirkham St., Oakland.
Owner—Golden West Brewing Co., 559 Kirkham St., Oakland.
Architect—Not Given. A

Contract Awarded.
WAREHOUSE, ETC. Cost, \$12,000
SHELL POINT, Contra Costa Co., Cal. (near Pittsburg).
One-story steel frame combination processing room and warehouse building (122x65 ft.) concrete foundations, corrugated iron, sheet metal, etc.
Owner—Shell Chemical Co., Shell Bldg. San Francisco.
Plans by Engr. Department of Owner. Contractor—Lindgren & Swinerton, 225 Bush St., San Francisco.
As previously reported, structural steel awarded to Schrader Iron Works, 1247 Harrison St., San Francisco

November 25, 1933

Structural Steel Contract Awarded.
BREWERY Cost, \$250,000

SAN FRANCISCO. Tenth and Bryant Streets.

Stock house, bottling house and enlarging present brewery (Class A steel, concrete and brick construction).

Owner—Milwaukee Brewing Co., 490 Tenth Street.
Engineer—W. E. Murray, 908 Hayes.
Structural Steel—Herrick Iron Works, 18th and Campbell Sts., Oakland.
Foundation bids will be asked shortly.

To Be Done By Day's Work.
STOCKROOM Cost, \$1500
SAN FRANCISCO. 4800 Cabrillo St.
Two-story stockroom.
Owner—Playground at the Beach, Inc. 4800 Cabrillo St.
Architect—Not Given.

Additional Sub-Contracts Awarded.
MILK PLANT Cost, \$10,000
SAN JOSE, Santa Clara Co., Cal. 400 block east of Empire Street.
One-story brick mill processing plant (bottling room, cooling room, bottle washing room, etc.)
Owner—Golden State Co., Ltd., 400 N First St., San Jose.

Designer—Engineering Dept. of Owner Mgr. of Const.—E. Perkins, % Owner.
Steel Windows—Borchers Bros., 396 N First St., San Jose.
Plumbing—A. J. Peters, 455 E Washington St., San Jose.
Plastering and electric contracts will be awarded shortly.

HAMILTON FIELD, Marin Co., Cal.—Oliver S. Almlie, 60 Sussex St., San Francisco, awarded the following sub-contracts in connection with the construction of the quartermaster's warehouse at Hamilton Field:
Sheet Metal Work—Edgar W. Anderson, 3103 San Pablo Ave., Oakland.
Metal Shelving—Fred Medart Mfg. Co. 7 Front St., San Francisco.
Reinforcing Steel—Soule Steel, 1750 Army St., San Francisco.
Contractor will do excavating and concrete work.

Construction Postponed Indefinitely.
BREWERY Cost, \$1,250,000
SAN FRANCISCO.
Combination brewery, winery and bonded warehouse.
Owner—Thomas W. Costello et al. San Francisco.
Engineer—Chas. A. Brady, 435 42nd Ave., San Francisco.

LOS ANGELES, Cal.—Viking Automatic Sprinkler Co., 2712 E. 12th St., awarded contract for installing sprinkler system in additions to the baking plant of Helms Bakeries, Ltd., 880 Venice Blvd. Grant & Burner, Ltd., 607 Ferguson Bldg., have completed engineering and architectural plans for the additions and are erecting them for the owner. Total cost, including equipment, \$100,000.

Additional Sub-Contracts Awarded.
HQTRS. BLDG. Cost, \$16,779
SACRAMENTO, Sacramento Co., Cal. Addition to headquarters bldg. (work involves excavation, concrete, masonry, carpentry, millwork, structural steel, sheet metal, steel sash, roofing, painting, glazing, plumbing and electrical installation).
Owner—State of California.
Architect—George B. McDougall, state architect, Public Works Building, Sacramento.
Contractor—Leo Epp, 4745 Geary St., San Francisco.
Electric—Reliable Elec. Co., 1217 17th St., Sacramento.

Mill Work—Liberty Mill, 62 Oak St., San Francisco.
Other awards reported Oct. 21.

5— FLATS

Contract Awarded.
FLATS Cost, \$6400
SAN FRANCISCO. E Utah St. N 19th Two-story frame and stucco flats.
Owner—Domenico and Caterina Ferrando.
Architect—Not Given.
Contractor—Daniel Cappelletti, 667 Hampshire St., San Francisco.

6— GARAGES & SERVICE STATIONS

Contract Awarded.
ALTER GARAGE Cost, \$3900
OAKLAND, Alameda Co., Cal. No. 2372 Telegraph Avenue.
Alterations to garage.
Owner—Cee Bee Garage, 2372 Telegraph Ave., Oakland.
Architect—Not Given.
Contractor—P. Parsons, 2372 Telegraph Ave., Oakland.

Contract Awarded.
SERVICE STATION Cost, \$3500
OAKLAND, Alameda Co., Calif. 1950 E 38th Street.
One-story steel service station, comfort station and one-story steel lift building.
Owner—M. H. Rollins, 3719 Canon St., Oakland.
Architect—Not Given.
Contractor—J. C. Rodger, 2257 106th Ave., Oakland.

Sub-Contracts Awarded.
SERVICE STATION Cost, \$8000
BERKELEY, Alameda Co., Calif. NW Milvia St. and Alston Way.
Frick service station.
Owner—Mrs. Edna Coryell, 2315 Sulton St., Berkeley.
Plans by Engr. Dept. of Lessee.
Lessee—Shell Oil Co., 225 Bush St., San Francisco.
Concrete—Ensor Buel, 2927 Lorina St., Berkeley.
Roofing—Elliott and Elliott, 1429 66th Ave., Oakland.
Lumber—Melrose Lumber and Supply Co., 1201 46th Ave., Oakland.
Iron Work—Geo. R. Borrmann Steel Co., 25 8th St., Oakland.
Concrete Material—Transit Concrete, Ltd., 2500 Peralta, Oakland.
Pumps—Wayne Co., Boyle-Dayton Division, 415 Brannan St., San Francisco.
Brick—W. H. Wisheropp, 3749 Quigley, Oakland.

7— FEDERAL BUILDING

Plans Being Figured—Bids Close Dec. 5th.
DRILL HALL Cost, \$150,000
FORT LEWIS, Washington.
One-story steel and brick drill hall (204x102) steel roof trusses, brick walls, copper roof, clay floor, steel sash, plumbing, electric fixtures.
Owner—United States Government.
Plans by Constructing Quartermaster, Fort Lewis.
Plans and specifications available from above office upon deposit of \$20. Bids will be opened at Fort Lewis.

HAMILTON FIELD, Marin Co., Cal.—W. & J. Sloane, 224 Sutter St., San Francisco, at \$338.18 awarded contract by War Department to furnish and install linoleum in kitchens and pantries of twelve company officers' quarters at Hamilton Field.

HAMILTON FIELD, Marin Co., Cal.—Meyer Construction Co., 735 Portola Drive, San Francisco, awarded the following additional sub-contracts in connection with the construction of ten type "A" field officers' quarters, and five type "D" company officers' quarters and five type "E" officers' quarters, including all utilities at Hamilton Field. Contract price, \$324,000.

Steel Sash—Detroit Steel Products Co., 111 Sutter St., San Francisco.

Linoleum—W. & J. Sloane, 224 Sutter St., San Francisco.

Miscellaneous Iron—Anchor Post Fence Co., 460 5th St., S. F.

Roofing—C. L. Frost, Palo Alto.

Tile—Progressive Tile Co., 1216 Powell St., San Francisco.

Mill Work—National Mill & Lumber Co., 400 High St., Oakland.

Other awards reported Nov. 18.

SAN FRANCISCO—Federal Public Works Administration allotted \$263,500 to Bureau of Prisons for repairs and alterations to the Alcatraz prison in San Francisco Bay. Further details as to work to be done will be announced shortly.

MARCH FIELD, Riverside Co., Cal.—Until 11 A. M., December 4, bids will be received by Constructing Quartermaster, March Field, for installation of a heating system in the air corps supply building at March Field. Plans and specifications may be obtained from Constructing Quartermaster upon deposit of \$5. Work consists of furnishing and installing a gas-fired heating and ventilating system, consisting of the necessary unit heaters, fans, motors, automatic controls, wiring and piping.

PEARL HARBOR, T. H.—Following have procured plans for the purpose of submitting bids to the Bureau of Yards and Docks, Navy Department, Washington, D. C., on January 3 for two electric freight elevators and holstway doors at the Naval Fleet Air Base, Pearl Harbor, T. H.; Spec. No. 7557:

General Electric Co., Schnectady, New York.

Blake-Palm Elevator Co., 1915 E St. NW, Washington, D. C.

Otis Elevator Co., 810 18th St. NW, Washington, D. C.

FORT LEWIS, Wash.—Until December 9, 10 A. M., bids will be received by Constructing Quartermaster, Fort Lewis, Washington, to construct eight gun sheds for 75 m.m. guns at Fort Lewis. Plans and specifications available from above office upon deposit of \$25.

PEARL HARBOR, T. H.—Bureau of Yards and Docks, Navy Department, Washington, D. C., will call for bids shortly for bachelor officers' quarters to be constructed at Pearl Harbor, T. H.; Specifications 7526. A deposit of \$50 will be required for plans.

VENTURA, Cal.—Treasury Department has rejected bids received on March 24 for the construction of the United States Post Office in Ventura. Harold E. Burket, Architect, Ventura.

NORTH HOLLYWOOD, Los Angeles Co., Calif.—Treasury Department has rejected all bids received on July 28 for the construction of the U. S. post office in North Hollywood. Plans were prepared by the supervising architect in Washington.

NAPA, Napa Co., Cal.—Until Monday, Dec. 4, bids will be received by the Purchasing Agent, Post Office Department, Washington, D. C., for 20

Venetian blinds to be installed in the U. S. post office at Napa; Proposal No. 643.

HAMILTON FIELD, Marin Co., Cal.—Azevedo & Sarmento, 920 O Street, Sacramento, at \$46,990 awarded contract by War Department to construct one-story concrete and tile mess building at Hamilton Field. Building will include lounge, card room, refreshment room, dining room, kitchen and loggia.

MARE ISLAND, Cal.—Carl N. Swenson Company, 355 Stockton St., San Jose, awarded contract by Navy Department to construct eight smokeless powder magazines, relocation of quarters A-51 at the Ammunition Depot, Navy Yard, Mare Island, Spec. No. 7343. Following bids received:

(1) Basis bid; (2) changing floor foundations on some of buildings; (3) eliminating one building relative to item 1; (4) eliminating one building relative to item 2.

Carl N. Swenson Co., San Jose (1) \$209,435
..... (2) 220,460
..... (3) 12,500

MacDonald & Kahn, San Francisco (1) \$215,000
..... (2) 222,000
..... (3) 15,500
..... (4) 22,807

K. E. Parker Co., San Francisco (1) \$215,000
..... (2) 228,000
..... (3) 12,000

Cahill Bros., San Francisco (1) \$220,700
..... (2) 234,600
..... (3) 12,500
..... (4) 15,000

William Spivock, San Francisco (1) \$224,700
..... (2) 243,000
..... (3) 13,000
..... (4) 17,000

Clinton Construction Co., San Francisco (1) \$225,000
..... (2) 240,000
..... (3) 13,000
..... (4) 16,300

R. E. Campbell, Los Angeles (1) \$226,800
..... (2) 233,800
..... (3) 15,000
..... (4) 16,000

A. Cederborg, Oakland (1) \$234,348
..... (2) 250,251
..... (3) 14,237
..... (4) 18,000

Barrett & Hiip, S. F. (1) \$236,808
..... (2) 252,408
..... (3) 15,200
..... (4) 19,600

Schuler & McDonald, Oakland (1) \$237,497
..... (2) 251,493
..... (3) 17,000
..... (4) 20,000

Bids held under advisement.

CHEHALIS, Wash.—Until Friday, Dec. 15, bids will be received by the Treasury Department for metal weather strips to be installed in the U. S. post office at Chehalis.

SAN FRANCISCO—Great Lakes Constr. Co., 333 N. Michigan Avenue, Chicago, Ill., at \$2,513,000 awarded contract by Treasury Department to construct five-story, attic and basement reinforced concrete Federal Building in the Civic Center, San Francisco. Contract awarded on item 2, (omitting attic on McAllister Street front), alternate 2, (substituting face brick for terra cotta in connection with exterior facing of court) alternate 4, (insulating all roof surfaces of enclosed spaces). Contract awarded for building complete, excepting elevators and lighting fixtures. Complete bids published Nov. 8.

SAN FRANCISCO.—Rucker Fuller Co., 539 Market St., at \$194.25 awarded contract by U. S. Forest Service to furnish and install two ranges, steel library shelving and dismantling three ranges now in Forest Service library in Ferry building and resetting in new library room in the Wells Fargo Bldg., 2nd and Mission Streets.

Following bids received:
Rucker Fuller Company \$194.25
Remington Rand Company 194.65
M. G. West Company 225.00
General Fireproofing Co. 250.00
Neal, Stratford & Kerr 281.60

HAMILTON FIELD, Marin Co., Cal.—See Unit Bid Summary section, this issue for complete list of bids for Headquarters building at Hamilton Field.

HAMILTON FIELD, Marin Co., Cal.—See Unit Bid Summary section, this issue for complete list of bids for Magazines at Hamilton Field.

HAMILTON FIELD, Marin Co., Cal.—Frank J. Reilly, 6350 Fulton St., San Francisco, awarded the pile driving contract to W. L. Proctor, Petaluma, in connection with the construction of the six double sets of non-commissioned officers' quarters, type C and fourteen double sets of non-commissioned officers' quarters, type D at Hamilton Field. Cost \$242,550.

As previously reported, excavation and grading awarded to Devincenzi Bros., 150 Collins St., San Francisco; steel sash to Detroit Steel Products Co., 111 Sutter St., San Francisco; reinforcing steel to Pacific Coast Steel Co., 20th and Illinois Sts., S. F.

MARCH FIELD, Riverside Calif.—National Drapery Studio, Philadelphia, Pa., was awarded a contract by War Department at \$749 for furnishing and installing stage equipment and draperies in the War Department theater at March Field.

FORT LEWIS, Wash.—Until December 5, 11 A. M., bids will be received by Constructing Quartermaster, Fort Lewis, Washington, to construct drill hall, including all utilities at Fort Lewis, Wash. Plans and specifications available from above office upon deposit of \$20.

HOLLISTER, San Benito Co., Cal.—U. S. Government purchased a site on the southeast corner of East and Fifth Sts. for the proposed new Post Office Building for Hollister. G. Albert Lansburgh, 140 Montgomery St., San Francisco, architect. Present buildings on site will be razed immediately.

SANTA FE, New Mexico.—W. F. Stewart, Santa Fe, at \$3,950 submitted low bid to Treasury Department for cleaning and pointing stone work in the U. S. Courthouse at Santa Fe.

FORT LEWIS, Wash.—Andrew F. Mowat, McDowall Bldg., Seattle, at \$51,625 submitted low bid to Constructing Quartermaster, Fort Lewis, to construct two hay storage buildings, one grain storage building and seven magazines for storage of shell, etc., at Fort Lewis. C. Ted Brady, Seattle, at \$52,116 submitted second low bid and S. Christian Erickson, Tacoma, was third low at \$52,280.

HAMILTON FIELD, Marin Co., Cal.—Following have procured plans for the purpose of submitting bids to the Constructing Quartermaster, Hamilton Field, on Dec. 5, 11 A. M., to construct photographic laboratory at Hamilton Field:

De Luca & Son, 1745 Filbert Street, San Francisco.

Scott Co., 243 Minna St., San Francisco.

V. L. Burt, 2487 24th Avenue, San Francisco.
 I. H. Reimers, 565 Kenmore, Oakland.
 W. G. Thompson, 336 Church Street, San Francisco.
 Soule Steel Co., 1750 Army St., San Francisco.
 Richmond Sheet Metal Works, Richmond.

FORT LEWIS, Wash.—As previously reported, Andrew F. Mowat, McDowell Bldg., Seattle, at \$51,625 submitted low bid to Constructing Quartermaster, Fort Lewis, to construct two hay storage buildings, one grain storage building and seven magazines for storage of shell, etc., at Ft. Lewis.
 Following bids received:

Hay and Grain Sheds	
Andrew F. Mowat, Seattle.....	\$51,625
C. Ted Brady, Seattle.....	52,116
S. C. Erickson.....	52,280
Fitton & Livergreen, Seattle.....	56,789
Dolph Jones, Inc., Tacoma.....	62,202
Gustafson & Olson, Seattle.....	56,202
Western Const. Co., Seattle.....	52,921
Peter I. Hansen, Tacoma.....	54,625
Harry Boyer Son & Co. Olympia.....	62,624
Howard S. Wright, Seattle.....	53,241
A. S. Hansen & Co., Seattle.....	54,990

Ordnance Shops	
Peter I. Hansen, Tacoma.....	\$ 9,547
J. E. Bachelor, Tacoma.....	9,942
H. S. Wright & Co., Seattle.....	10,449
Joseph Potucek, Tacoma.....	11,013
A. S. Hansen & Co.....	11,154
Gustafson & Olson, Seattle.....	11,302
Western Const. Co., Seattle.....	11,414
Andrew F. Mowat, Seattle.....	12,000
Harry Boyer Son & Co. Olympia.....	11,518
C. Ted Brady, Seattle.....	11,296
H. G. Walker, Tacoma.....	11,187

Award of contract will be made in Washington, D. C. Recommendation of award to low bidders on each section of the work has been made.

TUCSON, Arizona—Smythe and Co., 1416 E. St., N. W. Washington, D. C. at \$3,863 submitted low bid to Treasury Department to paint plaster in the U. S. Post Office at Tucson, Arizona. Following bids received:
 Smythe & Co., Wash., D. C..... \$3,862
 Adams Painting Co., Chicago, Illinois..... 4,300
 Wm. Wilson & Sons, Co., Inc Atlanta, Georgia..... 5,300
 Arizona Paint Co., Tucson, Arizona..... 6,436
 Alhambra Painting Contractors Inc., Alhambra..... 6,500
 Bids held under advisement.

SAN FRANCISCO, Cal.—Moe Bridges Co., Milwaukee, at \$3036 submitted low bid to Treasury Department for furnishing and installing interior fixtures at the U. S. Post Office and courthouse in San Francisco.
 Following bids received:
 Walter G. Warren Co., Chicago..... \$4,372
 Edwin F. Guth Co., St. Louis..... 4,764
 Licenix-Day Co., San Francisco..... 4,881
 H. A. Framburg & Co., Chicago..... 4,898
 Bids held under advisement.

SAN YSIDRO, San Diego Co., Cal. Additional contractors who have procured plans for the purpose of submitting bids to the Treasury Department on Dec. 7 for constructing customs and immigration shelter for the U. S. Inspection Station at the Port of San Ysidro, are as follows:
 Wm. Pearce, Butte, Mont.
 Contracting Engineers, 2310½ Vernon Ave., Los Angeles.
 J. A. Hunt, 4123 44th St., San Diego.

8— CLUB BUILDINGS

Planned.
 LODGE BLDG. Cost, \$—
 CONCORD, Contra Costa Co., Cal.
 Site to be Selected.
 Construct new lodge building.

Owner — Order of Red Men (Wahoo Tribe No. 194).
 Architect—To Be Selected.
 Officials of the lodge include: Law Freitas of Stockton, past grand sachem; Julius Finster Rush of San Francisco, great prophet; Great Chief of Records, Porter L. Bliss, Great Mishinewa, Thomas D. Johnston, Great Junior Sagamore William Farcenkopf, and Great Trustee Frank Sargent.

Contract Awarded.
 ALTERATIONS Cost, \$1500
 SAN FRANCISCO, 960 Bush Street.
 Alterations to club.
 Owner—Club Kamokila, 960 Bush St.
 Architect—Not Given.
 Contractor—Unit Built Fixture Co., 963 Harrison Street.

9— HOSPITALS

LOS ANGELES, Cal.—Los Angeles county supervisors have applied to the Public Works Administration for a loan of \$515,135 and a grant of \$170,442 for financing the following improvements at Rancho Los Amigos:
 Reconstruct bathroom ward building with brick exterior walls and metal stud and lath partitions.
 Reconstruct infirmary wards A and B with brick walls.
 Repairs to water tank and tower.
 Construct seven reinforced concrete infirmary buildings.
 Construct one reinforced concrete ward building for men.
 Construct one reinforced concrete ward building for women.
 Construct one reinforced concrete commissary building.
 Wm. Davidson, Los Angeles county mechanical engineer, Hall of Records.

MARCH FIELD, Riverside, Calif.—Until 10 A. M., Dec. 6, bids will be received by Constructing Quartermaster, March Field, for interior alterations to medical buildings at March Field. Plans and specifications may be obtained from the Constructing Quartermaster upon deposit of \$15. Cost of work estimated at \$32,500.

SAN DIEGO COUNTY, Cal.—San Diego County Supervisors have applied to the Public Works Administration for a loan of \$400,000 to finance the construction of a tuberculosis hospital in San Diego County. F. W. Stevenson, 645 Spreckels Bldg., San Diego, architect.

MARCH FIELD, Riverside Co., Cal.—Until 10 A. M., Dec. 6, bids will be received by the Constructing Quartermaster, March Field, for interior alterations to contagious ward and the construction of one medical detachment barracks at March Field. Plans and specifications may be obtained from the Constructing Quartermaster upon deposit of \$15. Estimated cost of the work is \$32,500. The barracks building will be a two-story structure, 75x33 feet in area, with hollow concrete walls, tile roof, concrete floors with tile and linoleum finish, terrazzo base, wrought iron railing, steel sash, steel lockers, waterproofing materials, metal lath, steel door frames, kalamein doors, shades, copper screens, electric water cooler, low pressure, oil-fired steam heating system.

SAN FRANCISCO. — Otis Elevator Co., 1 Beach Street, at \$1,311 submitted low bid to Custodian, U. S. Marine Hospital, San Francisco, for modifying control of freight elevator in main building of the Marine Hospital, 14th Ave. and Lake St. Only other bid was submitted by Westinghouse Electric Elevator Co. at \$1,420. Contract recommended to be awarded to low bidder.

FORT STANTON, New Mexico—Treasury Department rejected all bids received on November 29 for the construction of buildings at the U. S. Marine Hospital, Fort Stanton, New Mexico. The project will be re-advertised at an early date. Complete bids published November 23.

NAPA, Napa Co., Cal.—J. A. Kinkead, 1135 Mission St., at \$332 submitted low bid to State Purchasing Department for sash operators for greenhouse at the Napa State Home. Michel & Pfeffer Iron Works, San Francisco, submitted the only other bid at \$401. An alternate proposal was submitted by J. A. Kinkead at \$295. Bids held under advisement.

STOCKTON, San Joaquin Co., Cal.—Until Dec. 6, 10 A. M., bids will be received by State Purchasing Department, Sacramento, for mill work, sheet metal and miscellaneous iron for addition to cottage "A" at the Stockton State Hospital.

**13— PUBLIC BUILDINGS
 FIRE HOUSES & JAILS**

Plans Being Figured—Bids Close Dec. 15th.
 ADDITION Cost, \$15,000
 WATSONVILLE, Santa Cruz Co., Cal. Reinforced concrete and structural steel addition to public library, (40 by 60 ft.) composition and shingle roofing and remodel present bldg. Owner—City of Watsonville.
 Architect—A. W. Story, Pajaro Valley Bank Bldg., Watsonville.
 Public Works Administration allotted \$3700 to the city to help finance construction of building.

LONG BEACH, Los Angeles Co., Cal.—Long Beach electorate defeated a \$1,061,500 bond issue on Nov. 21. Proceeds were to have been used for the construction of public buildings, including a library, airport improvements, and pier construction.

REDLANDS, San Bernardino Co., Cal.—Architect H. E. Jones, 518 Anderson Building, San Bernardino, has completed plans and specifications for the new Redlands city hall. It will be a fireproof structure, containing about 15,000 sq. ft. of floor space, with reinforced concrete walls and floor space with reinforced concrete walls and floor and roof slabs, and a two-pipe steam heating system. The city will apply to the Public Works Administration this week for a loan and a grant totaling \$76,000 to finance the structure.

Commissioned To Prepare Plans.
 COURTHOUSE & JAIL Cost, \$200,000
 LOS ANGELES, Cal.
 Two - story courthouse and jail bldg. (75x200) 40,000 sq. ft. floor space.
 Owner—County of Los Angeles.
 Architect—P. A. Eisen, Los Angeles.

An election will be held Dec. 19 to vote bonds to help finance construction. Federal grant and gift is being sought by the supervisors.

HUNTINGTON PARK, Los Angeles County, Calif.—All b'ds received on November 20 for reconstructing the Huntington Park city hall were rejected by the Huntington Park city council.

ONTARIO, San Bernardino Co., Cal.—Architects Allison & Allison, 1014 Edison Bldg., Los Angeles, have been commissioned to prepare plans for a new library building at Chaffey Junior College District. Building will contain a repository for books, two reading rooms, and a periodical room. It is planned to secure funds from a

federal public works loan. Cost, \$50,000.

MENLO PARK, San Mateo Co., Cal.—City of Menlo Park will hold an election December 19 to vote bonds in the amount of \$20,000 to finance construction of a new City Hall. A. A. Cantin, 557 Market St., San Francisco, architect.

14— RESIDENCES

Contract Awarded
COTTAGE Cost, \$2500
OAKLAND, Alameda Co., Cal. Rear of 927 44th St.

One-story frame and stucco cottage (4 rooms); tar and gravel roof, hardwood floors, etc.

Owner—L. Oddone, Premises.
 Architect—Not Given.
 Contractor—M. E. Valente, 5118 Clark St., Oakland.

Contract Awarded.
RESIDENCE Cost, \$2000
SACRAMENTO, Sacramento Co., Cal. No. 725 56th Street.

One-story frame residence (5 rooms).
 Owner—Victor Laroco.
 Architect—Not Given.

Contractor—J. O. Black, 2330 K St., Sacramento.

Construction To Start Shortly.
RESIDENCE Cost, \$—
OAKLAND, Alameda Co., Cal. No. 1872 Leimert Blvd.

One-story and basement frame and stucco residence (6 rooms) shingle roof, gas heating system, steel sash, ornamental iron, pine trim, etc.

Owner and Builder—Paul H. Haller, 5243 Golden Gate Ave., Oakland. Plans by Contractor.

Contract Awarded.
RESIDENCE Cost, \$3,242
SALINAS, Monterey Co., Calif. De Lorimer Avenue.

One-story and basement frame and stucco residence (5 rooms).

Owner—R. D. Tindall, Salinas.
 Architect—Not Given.
 Contractor—E. F. Reese, 35 Santa Lucia Ave., Salinas.

Contract Awarded.
RESIDENCE Cost, \$3,000
BERKELEY, Alameda Co., Calif. NE Hilgard Ave. and La Verada.

Two-story frame and stucco residence (5 rooms).

Owner—E. Taylor.
 Architect—M. Goodman, 1745 Highland Place, Berkeley.

Contractor—Phillip Coats, 971 Hillcroft Circle and, Frank M. Pennell, 2730 Buena Vista Ave., Berkeley.

Sub-Contracts Awarded.
RESIDENCE Cost, \$2500
OAKLAND, Alameda Co., Calif. 9927 Holly Street.

One-story frame residence.
 Owner—Harry C. Rose, 1425 100th Ave., Oakland.

Architect—Not Given.
 Contractor—Carl H. Franzen, 883 54th St., Oakland.

Lumber and Mill Work—Oakland Lbr. Co., 6901 E 14th St., Oakland.

Electric—Morgan Elec. Co., 47 Chumalia Ave., San Leandro.

Roofing—Sun Roofing Co., 1420 38th Ave., Oakland.

Plastering—Parrish Brothers, 1958 81st Ave., Oakland.

Sub-Contracts Awarded.
RESIDENCE Cost, \$7000
OAKLAND, Alameda Co., Calif. Leimert Drive, Oakmore Highlands.

Two-story and basement frame and stucco residence.
 Owner—R. H. Seiple, 1137 Hollywood Ave., Oakland.

Architect—F. H. Slocombe, 131 Monte Cresta Ave., Oakland.

Contractor—Harry C. Knight, 1435 Harrison St., Oakland.

Hardwood Floors—Al Marshall Hardwood Floor Co., Inc., 2521 Clay St., Alameda.

Heating—Christiansen & Grutsch, 4444 Piedmont Ave., Oakland.

Millwork—Atkinson Mill & Mfg. Co., 2985 Chapman St., Oakland.

Tile—Howden Tile Co., 337 17th St., Oakland.

Fixtures—Maxwell Hardware Co., 1320 Washington St., Oakland.

Sub-Contracts Awarded.
RESIDENCE Cost, \$—
BERKELEY, Alameda Co., Calif. Craigmont Avenue.

One-story residence (6 rooms).
 Owner—Sigmund Reimer, 15 Marguerite Drive, Oakland.

Architect—Not Given.
 Contractor—W. A. Netherby, 3853 Lyman Road, Oakland.

Steel Sash—Soule Steel Co., 1750 Army St., San Francisco.

Glass—East Bay Glass Co., 621 6th St., Oakland.

Tile—Rigney Tile Co., 3012 Harrison St., Oakland.

Completing Plans.
RESIDENCE Cost, \$10,000
BERKELEY, Alameda County, Calif. Stonewall Road.

Two-story and basement frame and stucco residence (9 rooms and 3 baths) shake roof, oil heating system, hardwood floors and trim, electric refrigeration.

Owner—Withheld.
 Architect—E. L. Snyder, 2101 Addison St., Berkeley.

Bids will be asked in about one week

SAN FRANCISCO.—San Francisco Const. Co., 3159 Fillmore Street, at \$2,110 awarded contract by Coast Guard Department for the construction of alterations and additions to cottage at the Golden Gate Coast Guard Station, San Francisco.

Sub-Bids Being Taken.
RESIDENCE Cost, \$5000
BERKELEY, Alameda Co., Calif. 920 Grizzly Peak Blvd.

Two-story frame and stucco residence (5 rooms).

Owner—Berkeley Hillside Properties Company.
 Architect—Not Given.

Contractor—W. A. Netherby, 3853 Lyman Road, Oakland.

Plumbing—J. A. Fazio, 402 Castro St., Oakland.

Lumber—Swift Lumber Co., 340 29th Ave., Oakland.

Sub-bids are being taken on all other portions of the work.

Sub-Contracts Awarded.
RESIDENCE Cost, \$4000
OAKLAND, Alameda Co., Cal. 34 Oval Road.

One-story and basement frame and stucco residence (5 rooms).

Owner—J. S. Wiggins, 5733 Grisborne Ave., Oakland.
 Architect—Not Given.

Lumber—Swift Lumber Co., Inc., 340 29th Ave., Oakland.

Sheet Metal—David Barnes, 1029 Aquarius Way, Oakland.

Electric—P. W. Parkhurst, 6432 Pinehaven Road, Oakland.

Plumbing—L. Pucknum, Thornhill Rd., Oakland.

Sub-Contracts Awarded.
RESIDENCE Cost, \$5000
OAKLAND, Alameda Co., Calif. 3962 Oakmore Road.

One-story and basement frame and stucco residence (6 rooms).

Owner and Builder—Weldon H. Warren, 3502 Foothill Blvd., Oakland.
 Architect—Not Given.

Lumber and Millwork—Tilden Lumber Co., foot of University Ave., Berkeley.

Roofing—M. and L. Roofing Co., 9221 Foothill Blvd., Oakland.

Erick—Earl Morgan, 1712 79th Ave., Oakland.

Sheet Metal—Holland Furnace Co., 1226 E 14th St., Oakland.

Concrete—Otto Hennig, 3527 Suter St., Oakland.

Contract Awarded.
RESIDENCE Cost, \$15,000
LODI, San Joaquin Co., Cal.

Two-story and basement brick (white-washed) residence (11 rooms and 3 baths) composition roof, gas heating system, wood sash, tiled baths, separate showers, hardwood floors, etc.

Owner—Burton Turner.
 Architect—H. C. Baumann, 251 Kearny St., San Francisco.

Contractor—Louis Francheschi, 100 Capra Way, San Francisco.

Sub-Contracts Awarded.
RESIDENCE Cost, \$—
OAKLAND, Alameda Co., Cal. No. 6545 Liggett Drive.

One-story frame residence (5 rooms).
 Owner—Mr. Beery.

Architect—Not Given.
 Contractor—W. A. Netherby, 3853 Lyman Road, Oakland.

Millwork—Pacific Mfg. Co., 1317 7th St., Oakland.

Electric Fixtures—Dimond Elec. Co., 2100 Hopkins St., Oakland.

Heating—Ruud Heater Co., 472 20th St., Oakland.

Sheet Metal—Atlas Heating & Ventilating Co., 1452 32nd St., Oakland.

Flat Cement Work—Axel A. Johnson, 1280 Monterey Ave., Berkeley.

Scwer Work—McGuire & Hester, 1438 Hopkins St., Oakland.

Brick—C. M. Goodell, 2836 Minna Ave., Oakland.

Tile—Rigney Tile Co., 3012 Harrison St., Oakland.

Plans being Figured—Bids Close Dec. 9th.

RESIDENCE Cost, \$—
ROSS, Marin Co., Cal.

One-story and basement frame residence (six rooms and two baths); rustic type, redwood exterior, wood sash, gas hot air heating system, tiled baths, etc.

Owner—Mr. and Mrs. G. J. Seebe, % Architect.

Architect—W. W. Wurster, 260 California St., San Francisco.

Preparing Working Drawings.
RESIDENCE Cost, \$12,000
SAN RAMON HGTHS., Walnut Creek, Contra Costa Co., Cal.

Two-story and basement frame California Colonial style residence (10 rooms and 3 baths) 2-car garage; terra cotta roof, brick, tile and wood exterior, steel sash, oak plank floors, oil hot air heating system, electric refrigeration, etc.

Owner—R. W. Lowe.
 Architect—Edwin L. Snyder, 2101 Addison St., Berkeley.

Bids will be asked in about 2 weeks.

Additional Sub-Contracts Awarded.
RESIDENCE Cost, \$4000
NORTH BERKELEY, Alameda Co., Cal. 780 Ensenada Avenue.

Two-story and basement frame and stucco residence.

Owner—Mr. Melanthy.
 Architect—F. H. Slocombe, 131 Monte Cresta Ave., Oakland.

Mgr. of Const.—C. G. Garcia, 1656 Ocean View Ave., Berkeley.

Electric—Bradshaw Electric Co., 2016 Shattuck Ave., Berkeley.

Hardware—Marcus Cut-Rate Hdwe. & General Merchandise Co., Seventh

and Washington Sts., Oakland.
Hardwood Floors — Melvin Brodrick, 608 Santa Rosa Ave., Berkeley.
 Other awards reported Nov. 4.

To Be Done By Day's Work.
RESIDENCE Cost, \$4000
OAKLAND, Alameda Co., Calif. 6097
 Monadnock Way.
 One-story frame and stucco residence
 (5 rooms).
 Owner and Builder—O. L. Moen, 4201
 E 16th St., Oakland.
 Plans by Owner.

Sub-Contracts Awarded.
RESIDENCE Cost, \$—
BERKELEY, Alameda Co., Calif. The
 Alameda at Menlo Place.
 One-story frame and stucco residence
 (shingle roof, steel sash, brick ven-
 ueer, gas heating system, etc.)
 Owner—Mrs. Hartman.
 Architect—Not Given.
 Contractor—Ernest W. Urch, 1924 50th
 Ave., Oakland.

Plastering—Clifton E. Davidson, 811
 St. Marys Ave., Oakland.

Painting—R. E. O'Brien, 2151 Buena
 Vista, Alameda.

Tile—Moir Tile Co., 3724 Brookdale
 Ave., Oakland.

Lumber and Millwork—Sunset Lumber
 Co., 400 High St., Oakland.

Concrete—Reichel and Bredhoff, 1555
 Central Ave., Alameda.

Floors—Ambrose Brothers, 48th Ave.,
 Oakland.

Electric—Fred Schm'dts, 430 Moss
 Ave., Oakland.

Plumbing—Ambrose Bros., 206 Chu-
 malia Ave., San Leandro.

Sheet Metal—California Furnace Co.,
 4801 E 14th St., Oakland.

15— SCHOOLS

Commissioned To Prepare Plans.
REPAIR SCHOOL Cost, \$114,000
SAN FRANCISCO. Geary and Scott
 Streets.

Repair Girls' High School (interior
 bracing, replace masonry, etc.)
 Owner—City and County of San Fran-
 cisco.

Plans by Bureau of Architecture (C.
 Sawyer, architect), City Hall.
 Architect—H. A. Minton, 525 Market
 St., San Francisco.

LONG BEACH, Los Angeles Co.,
 Cal.—Long Beach Board of Education
 has applied to the Public Works Ad-
 ministration for loans and grants to
 be used for financing the following
 school work in Long Beach:

Roosevelt School, 15th and Linden;
 loan \$97,000; grant \$33,000; Geo. W.
 Kahrs, architect.

U. S. Grant School; loan \$77,000;
 grant \$25,200; Jas. R. Friend, archi-
 tect.

Franklin Junior High; loan \$402,-
 683; grant, \$101,683; Geo. D. Riddle,
 architect.

Temple School; loan \$107,000; grant
 \$36,000; Geo. W. Kahrs, architect.

Woodrow Wilson School; loan \$20,-
 000; grant \$6600; W. Horace Austin,
 architect.

John Dewey High School; loan \$95,-
 000; grant \$32,400; Siebert & Hedden,
 architect and engineer.

CLEARWATER, Los Angeles Co.,
 Calif.—Architect C. K. Denman, 422
 Washington Bldg., Los Angeles, has
 completed plans for repairing earth-
 quake damage to the Lincoln and
 Roosevelt schools in Clearwater for
 the Clearwater School District. Plans
 for the Roosevelt school have been
 approved by the state architect and
 plans for the other building are now
 being checked. Although funds for
 the work will probably be available
 before the end of December, it has
 not been determined when bids will
 be advertised

LOS ANGELES, Calif.—Los Angeles
 Board of Education has applied to
 the Public Works Administration for
 grants to be used in financing the re-
 construction of the following school
 buildings:

Seventy-fifth Street school, \$23,664;
 Blaine Nolee, engineer.

Bandini school, \$5458; Lawrence J.
 Waller, engineer.

Russell school, \$18,057; C. J. Der-
 rick, engineer.

Pacific Boulevard school, \$6899; W.
 B. Bostock, engineer.

Graham school, \$11,213; Ralph A.
 Deline, engineer.

LOS NIETOS, Los Angeles Co.,
 Calif.—Architect R. L. Warren, Em-
 porium Bldg., Whittier, has prepared
 plans for reconstructing school build-
 ing at Los Nietos, Los Angeles county,
 for the Los Nietos School District.
 California Board of Public Building
 Reconstruction has approved the dis-
 trict's application for a loan of \$20,-
 000 to finance the work and the funds
 will probably be forthcoming before
 the end of the year.

TOPPENISH, Wash.—Edw. Ekrem,
 100 N 74th St., Seattle, at \$44,650 sub-
 mitted low bid on general work; M.
 Morton, Tacoma, at \$19,500 bid low on
 plumbing and Labberton Electric Co.,
 Yakima, at \$4,104 bid low on elec-
 trical work to Toppenish School Dist.
 for improvements to school buildings.

Work involves building an audi-
 torium and cafeteria, repairs to high
 school, repairs to heating and lighting
 systems in Garfield and Lincoln schools
 and constructing a one-room addition
 on McKinley school.

Following bids received:

General Construction	
Edward Ekrem, Seattle.....	\$44,650
Wm. Yeaman, Yakima.....	45,658
Wm. McCulloch, Yakima.....	46,837
Joe Lohrenz, Yakima.....	46,813
Plumbing, Heating and Ventilating	
Labberton Elec. Co., Yakima....	\$ 4,104
Tennent Elec. Co., Yakima.....	4,266
NePage-McKenney, Seattle.....	3,292
A. Gutter, Seattle.....	4,006

PASADENA, Los Angeles Co., Cal.
 —Pasadena electorate affirmed a
 \$990,000 bond issue on November 24,
 the proceeds to be used for strength-
 ening and repairing elementary
 schools in Pasadena. An issue of
 \$860,000, for similar work at Pasadena
 High Schools and Junior Colleges, was
 defeated.

COALINGA, Fresno Co., Cal.—
 Coalinga Union High School District
 will hold an election on December 19
 to vote bonds in the amount of \$150,-
 000 to finance construction of one-
 story reinforced concrete junior high
 school. W. D. Coates, Rowell Bldg.,
 Fresno, architect.

Bids Rejected.
SCHOOL Cost, \$150,000
VANCOUVER, Washington.

Four-story reinforced concrete and
 brick school building, 150x150 feet
 (15 classrooms, auditorium, 90x100
 ft., gymnasium, cafeteria, labora-
 tories, etc.)

Owner—Vancouver High School Dist.
 Architect—W. F. Higgins, Terminal
 Sales Bldg., and Donald J. Stewart,
 Seattle.

Low Bidder—L. H. Hoffman Co., Co-
 lumbia and Broadway, Portland.

Bids ran high and were rejected.
 New bids will be asked shortly.

Plans Awaiting Approval.
SCHOOL IMPROVEMENT \$10,000
HAYWARD, Alameda Co., Cal.

Revamp girls' dressing rooms, etc., in
 Hayward High School; work in-
 volves adding 50 shower rooms,
 90 dressing rooms, 600 metal lock-

ers, plumbing, metal partitions,
 etc.
 Owner—Hayward Union High School
 District.

Architect — Henry Smith, Humboldt
 Bank Bldg., San Francisco.

Plans have been forwarded to Sacra-
 mento for approval. Bids will be
 asked shortly.

**SPECIFICATIONS BEING PRE-
 PARED**

SAN FRANCISCO — Specifications
 are being prepared by the Bureau of
 Architecture, City Hall, for the in-
 stallation of slate blackboards and
 pinning space in the following schools:

- Argonne.
- Junipero Serra.
- Laguna Honda.
- Madison.
- Farragut.
- Marshall.
- Monroe.
- Redding.
- Spring Valley.

Contract Awarded.
SCHOOL Cost, \$3500
EMIGRANT GAP, Placer Co., Cal.

One-story wood frame grammar school
 building (one classroom) rustic ex-
 terior, shingle roof, maple floors.
 Owner—Emigrant Gap School District.
 Architect—W. E. Coffman, Forum
 Bldg., Sacramento.
 Contractor—J. R. Wolert, P. C. Box -
 F, Truckee.

Preparing Sketches.
LIBRARY Cost, \$45,000
MODESTO, Stanislaus Co., Cal. Junior
 College.

Library unit for the Modesto Junior
 College.

Owner—Madesto Junior College Dist.
 (C. Shakelford, president of the
 board).

Architect—J. J. Donovan, 950 Parker
 St., Berkeley.

To Ask Bids.
EDUCATIONAL BLDG. Cost, \$40,000
BERKELEY, Alameda Co., Cal. Dana
 St. and Bancroft Way.

Two-story Class C educational bldg.
 (25 classrooms) concrete outside
 wall, asbestos shingle roof, steam
 heating system, wood floors, etc.

Owner—Trinity Methodist Church.
 Architect—George Rushforth, 21 San
 Mateo St., Berkeley.

Engineer—Henry D. Dewell, 55 New
 Montgomery St., San Francisco.

LONG BEACH, Los Angeles Co.,
 Cal.—Architect W. H. Austin, Spurgin
 Bldg., Santa Ana, and 532 Chestnut
 Ave., Long Beach, is preparing pre-
 liminary plans for reconditioning the
 Los Flores and Lincoln schools for
 the Bellflower School District. Work
 will consist of removing all masonry walls
 and rebuilding of frame. Cost, \$50,000.

RIVERSIDE, Cal.—Architect G. S.
 Wilson, 416 Mission Inn, Riveside, is
 preparing preliminary plans and spec-
 ifications for a new school building to
 be erected on the site of the old Grant
 school in Riverside. It will be a one-
 story structure, containing six class-
 rooms, kindergarten, library and of-
 fice. Materials taken from the old
 building will be utilized in the con-
 struction of the new structure.

SAN FRANCISCO—American Build-
 ing Maintenance Co., 467 O'Farrell St.,
 at \$275 awarded contract by Depart-
 ment of Public Works to steam clean
 portion of the Emerson School, located
 on California St., between Scott and
 Divisadero Sts.

TUCSON, Ariz.—Arizona School for
 Blind and Deaf, Tucson, will apply to
 the Public Works Administration for
 a loan of \$90,000 with which to finance

the construction of a new school building at the institution.

LOS ANGELES, Calif. — California Board of Public Building Reconstruction has approved applications of Los Angeles and Orange county school districts for \$3,549,621 from the \$5,000,000 R.F.C. allocation for reconstructing earthquake-damaged school buildings in Southern California. If the applications are approved by the State R.F.C. board the money will be forthcoming before the end of December. Distribution of the funds will be administered under provisions of the Green bill, passed last May in the State legislature. In most cases the districts will make further application to the Public Works Administration for 30% grants. Districts whose applications were approved and the amounts are:

Bellflower elementary, \$60,125; W. H. Austin architect, Long Beach.

Clearwater elementary, \$30,000; C. K. Denman, architect, Los Angeles.

Compton high school, \$484,000; Marsh, Smith & Powell, architects, Los Angeles.

Compton elementary, \$382,146; H. L. Gogerty, architect, Compton.

Excelsior high school, \$21,600; T. C. Kistner & Co., architects, Los Angeles.

Grant elementary, \$8000; S. E. Lunden, architect, Los Angeles.

Hermosa Beach elementary, \$200,000; S. E. Lunden, architect, Los Angeles.

Los Nietos elementary, \$20,000.

Lynwood elementary, \$199,150.

Norwalk elementary, \$140,000; T. C. Kistner & Co., architects, Los Angeles.

Ranchito elementary, \$30,000.

Rivera elementary, \$5000.

West Whittier elementary, \$49,300.

Willowbrook elementary, \$64,600.

Anaheim high school, \$125,000; T. C. Kistner & Co., architects, Los Angeles.

Anaheim high school auditorium, \$150,000; T. C. Kistner & Co., architects, Los Angeles.

Buena Park elementary, \$9000.

Costa Mesa elementary, \$70,000.

Garden Grove high school, \$15,000; F. H. Eley, architect, Santa Ana.

Huntington Beach elementary, \$200,800; Allison & Allison, architects, Newport Beach elementary, \$185,000; D. B. Kirby, architect, Glendale.

Santa Ana high school, \$700,000; Allison & Allison, architects.

Santa Ana elementary, \$250,000; F. H. Eley, architect, Santa Ana.

Seal Beach elementary, \$90,000; Marsh, Smith & Powell, architects.

Tustin elementary, \$45,000; Frank Lansdown, architect, Santa Ana.

Westminister elementary, \$15,900; H. E. Mackie, architect, Los Angeles.

16—BANKS, STORES AND OFFICES

SAN FRANCISCO—Southern Pacific Co., 65 Market St., awarded a contract to the Westinghouse Electric Elevator Co., 260 Fifth St., at \$1369 for repairs to elevators in Grocers' Terminal Building, Third and Channel Streets.

SEA BEACH, Orange Co., Cal.—H. J. Paschal, 3390 Long Beach Blvd., Long Beach, has filed an application with the Seal Beach City Council for permission to establish a night club at the intersection of 14th St. and Coast Highway in Seal Beach. Mr. Paschal proposes building a structure to cost \$25,000. Furnishings will cost \$20,000.

LOS ANGELES, Cal.—City of Los Angeles has applied to Public Works Administration for a loan of \$148,750

and a grant of \$63,750 for financing the construction of a wholesale fish market at Fish Harbor, including paved approaches, wharf equipment and refrigeration and service equipment. The structure would be two stories in height and 600 ft. long.

Contract Awarded.
REMODEL BANK Cost, \$—
NEVADA CITY, Nevada Co., Calif.
Broad Street.

Remodel bank building (partition work interior remodeling, furnishings).
Owner—Citizens Bank, Nevada City.
Architect—Not Given.
Contractor—Robt. Steger & Son, Nevada City.

Contract Awarded.
ALTERATIONS Cost, \$—
SAN FRANCISCO. Van Ness Avenue
and Market Street.
Alterations to store building.
Owner—Masonic Temple Association.
Architect—Not Given.
Lessee—Levin's Auto Supply Co.
Contractor—Ira Coburn, 2048 Market Street.

To Be Done By Day's Work.
ALTER STORE Cost, \$1500
SAN FRANCISCO. 3372 Mission St.
Alterations to store.
Owner—Jennie Cordano, 3372 Mission Street.
Architect—Not Given.

Contract Awarded.
STORE Cost, \$3000
SAN FRANCISCO. 21st Avenue and
Taraval Street.
One-story frame store building.
Owner—Peter Gravano, 446 24th Ave.
Architect—Not Given.
Contractor—E. J. Quilstad, 3666 22nd Street.

Preparing Working Drawings.
STORES Cost, \$30,000
MENLO PARK, San Mateo Co., Cal.
The Highway.
Group of eight 1-story reinforced concrete store buildings.
Owner—Maloney Estate.
Architect—W. F. C. Gilliam, 1470 Broadway, Burlingame.
Contractor—John W. Morey, Alejandro Ave., Atherton.

Contract Awarded.
ALTER STORE Cost, \$6000
COLUSA, Glenn Co., Calif.
Alterations & additions to store bldg.
Owner—Robinson Drug Co. (Warren Davison, Jr., and Arch B. Davison) Colusa.
Contractor—Claude Peart, Colusa.

Sub-Contracts Awarded.
RESIDENCE Cost, \$6000
SAN FRANCISCO. SW Geneva Ave.
and Naples Street.
Two-story frame and stucco residence and bake shop.
Owner—Carl Klinger.
Architect—Not Given.
Contractor—Ernest Lombardi, 1218 Hollister St., San Francisco.

Grading and Concrete—Carl Frank & Co., 305 Bocano St.
Lumber—Loop Lumber Co., Foot of 16th Street.

Sheet Metal & Heating—Atlas Heating Co., 367 Fourth St.

Tile—Blanchini Tile Co., 270 Francisco St.

Class—Smith Glass Co., 479 Bryant St.

Structural and Ornamental Iron—Folsom St. Iron Works, 1301 17th St.

Stairs—Di Cristina & Son, 3150 18th Street.

Bids are wanted on magnesite flooring.

Contract Awarded.
ALTER STORE Cost, \$1500

OAKLAND, Alameda Co., Cal. SW Eighth and Broadway.
Alterations to store building (plate glass fronts, partition work, etc.)
Architect—James Plachek, Mercantile Bank Bldg., Berkeley.
Contractor—George Swanstrom, 1615 78th Ave., Oakland.

SAN FRANCISCO. — Carl Klinger, 100 Guttenberg St., owner, awarded a contract to Paul Metz, 855 44th St., Oakland, at approximately \$1200 to construct brick oven in the bakery on Geneva and Naples Sts.

Sub-Contracts Awarded.
ALTERATIONS Cost, \$6500
MOUNTAIN VIEW, Santa Clara Co., Calif.

Alterations to garage for auditorium (two stores) stucco work, remove windows, change doors, etc.

Owner—Redwine Motor Co., 480 Castro St., Mountain View.
Architect—Not Given.

Contractor—Vance M. Brown, 532 Emerson St., Palo Alto.

Steel—Schrader Iron Works, 1247 Harrison St., San Francisco.

Plumbing—Geo. Sohler, Mt. View.
Electric—F. A. Pritchett, Mt. View.

Contract Awarded.
MARKET Cost, \$3000
SACRAMENTO, Sacramento Co., Cal. No. 2630 5th St.
One-story frame market.
Owner—Sacramento Farmers Market.
Architect—Not Given.
Contractor—C. S. Mabry, 2123 36th St., Sacramento.

Plans Being Figured.
STORE Cost, \$15,000
VALLEJO, Solano Co., Cal. Sonoma Street near Georgia Street.

Two-story brick, terra cotta and cement store with steel columns and beams (five stores) tar and gravel and part hand-made tile roof.

Owner—Thomas B. Jones, Vallejo.
Architect—F. H. Sloombe, 3830 Harrison St., Berkeley.

To Be Done By Day's Work.
STORE Cost, \$3000
OAKLAND, Alameda Co., Cal. No. 10312-14-16 E-Fourteenth St.
One-story frame store building.
Owner—J. Brandl, 10439 W-14th St., Oakland.

Architect—Not Given.

Sub-Contracts Awarded.
STORES & OFFICES Cost, \$35,000
SAN FRANCISCO. Stockton St. and Card Alley.

One-story reinforced concrete office and store building (tar and gravel roof, steam heating system, concrete and wood floors).

Owner—S. Giannone, % A. Cavali, 255 Columbus Avenue.

Supt. of Const.—Louie Spargo.
Contractor—Vannucci Bros. Const. Co., 1875 San Bruno Avenue.

Plumbing and Heating—J. Gibbs Sons, 1706 Geary Street.

Electric—Aetna Electric Co., 1435 Eddy Street.

Ornamental Iron—Patterson & Koster Iron Works, 280 13th St.

Roofing—Smith Lumber Co., 4th and Channel Sts.

As previously reported, structural steel awarded to Schrader Iron Works 1247 Harrison St.; reinforcing steel to W. C. Hauck & Co., 280 San Bruno Ave.; plastering to Geo. Teranova, 185 Ellsworth St.

RIVERSIDE, Calif.—Engineer Henry L. A. Jekel, 5063 Magnolia Ave., Riverside, is taking general contract bids for a 4-story addition to the Woodcraft Home, located at 8432 Magnolia

Ave., Riverside. The addition will be a 4-story, reinforced concrete structure, 78x227 feet in area, containing 300 rooms and laboratories and eight bathrooms; concrete floors and basement, wood sash, tile and composition roofing, steel and metal lath partitions, steam heating, Welsteel bathroom partitions, wrought iron stair rails, electric elevator, fire escapes, etc. Cost \$150,000.

To Ask Bids Within A Few Days.
STORE Cost, \$6000
OAKLAND, Alameda Co., Cal. Lakeshore Blvd.

One-story reinforced concrete store building (50x80 ft.) wood trusses, tar, gravel and composition roof, Vitrolite front, metal sash bars, etc.

Owner—Withheld.
Architect—Ray Keefer, 770 Wesley St., Oakland.

SAN FRANCISCO.—Pacific Telephone and Telegraph Co. awarded a contract to William Bernstein, Hearst Bldg., at \$330 for painting work on the building at the southwest corner of Bush and Larkin Streets.

Planned.
REMODEL STORE Cost, \$—
PETALUMA, Sonoma Co., Cal. Main and Mary Streets.

Remodel store building.
Owner—J. H. Gwinn, Petaluma.
Architect—Not Given.
Lessee—Ernest Caletti and Frank Mitola, Petaluma (Grocers).

Plumbing Contract Awarded.
REMODEL BLDG. Cost, \$19,578
OAKLAND, Alameda Co., Cal. 13th and Broadway.

Remodel store and office building.
Owner—Matilda E. & Everett J. Brown 600 29th St., Oakland.
Architect—Edw. T. Foulkes, 357 12th St., Oakland.

Contractor—Wilbur C. Cone, 1744 Broadway, and Edwin A. Duval, Broadway Bldg., Oakland.

Plumbing—Carl T. Doell, 467 21st St., Oakland.

As previously reported, tile work awarded to Rigney Tile Co., 3012 Harrison St., Oakland; ornamental iron to Fraucnder Iron Works, 335 8th St., Oakland; mill work to Oakland Planing Mill, 2nd and Washington Streets, Oakland; lumber to Oakland Lumber Co., 6991 E 14th St., Oakland.

Additional Sub-Contracts Awarded.
RESTAURANT Cost, \$100,000

Including equipment
SAN FRANCISCO. 968 Market Street. New restaurant (new entrance from Market Street to basement) work involves cabinet work, plumbing, fixtures, lighting effects, carpets, draperies, upholstering, etc.

Owner—Will King, 35 Taylor Street.
Architect—A. A. Cantin, 557 Market Street.

Contractor—Robert E. Powers Studio, 34 Golden Gate Avenue.

Sash & Doors—Western Door & Sash Co., 5th and Cypress Sts., Oakland
Booths and Tables—Unit Built Fixture Co., 963 Harrison St.

Concrete—Readymix Conc. Co., Carolina and Mariposa Streets.

Building Materials—San Francisco Materials Co., 3070 23rd St.

Ventilating—C. R. Watts, 1111 Fresno St., Berkeley.

Other awards reported Nov. 18.

Planned.
REBUILD BLDG. Cost, \$—

VISALIA, Tulare Co., Calif. Main and Court Streets.

Rebuild store recently destroyed by fire.

Owner—C. G. Enquist, 704 Bush St., San Francisco.

Architect—Not Given.
Contractor—C. G. Enquist, 704 Bush St., San Francisco.

17— THEATRES

To Ask Bids Shortly.
THEATRE Cost, \$—

COMPTON, Los Angeles Co., Calif. 253 E Compton Blvd.

Reinforced concrete theatre (to seat 850) composition roof, concrete floors, marquis, acoustical treatment, ventilating system, etc.

Owner—Not Given.
Architect—H. L. Gogerty, 221 E Compton Blvd., Compton.

Lessee—R. D. Whitson & Albert Hansen.

19—MISC. CONSTRUCTION

LOS ANGELES, Cal.—City of Los Angeles has applied to the Public Works Administration for a loan of \$149,166 and a grant of \$63,928 for financing the construction of a tennis stadium, nine practice courts and parking area in Griffith Park.

SAN FRANCISCO—A. Grapoli, 475 Munich St., awarded contract by Southern Pacific Railway Company to wreck two-story brick building on Mission and Steuart Streets. No improvements are contemplated at this time.

SAN BERNARDINO COUNTY, Cal.—George Gardner & Sons, 445 E. Cypress Ave., Redlands, at \$2970 awarded contract by the State Highway Commission, Sacramento, to improve 4.5 miles of highway in San Bernardino County, between Camp Waterman and Arrowhead Springs.

MONTEREY COUNTY, Cal.—J. L. Conner, P. O. Box 86, and K. Kristich, Serra Hotel, Monterey, at \$48,962 awarded contract by the State Highway Commission, Sacramento, to grade surface and oil treat by the road mix method, about 1.9 miles between Carmel River and Carmel in Monterey County.

ALAMEDA AND CONTRA COSTA COUNTIES, Cal.—Peninsula Paving Co., 715 Standard Oil Bldg., San Francisco, at \$74,907 awarded contract by the State Highway Commission, Sacramento, to pave 5.0 miles between Ashby Ave., Berkeley, and Potrero Ave., El Cerrito, in Alameda and Contra Costa Counties.

SAN BERNARDINO COUNTY, Cal.—United Concrete Pipe Corp., Box 1, Station H, Los Angeles, at \$32,123 awarded contract by the State Highway Commission, Sacramento, to grade and surface with oil treated crushed gravel 0.8 ml. bet. Arrowhead Springs and San Bernardino, in San Bernardino County.

HAMILTON FIELD, Marin Co., Cal.—Frank J. Reilly, 6350 Fulton St., San Francisco, awarded the pile driving contract to W. L. Proctor, 1000 Spring St., Santa Rosa, for the five-ton natural draft type incinerator.

LOS ANGELES, Cal.—Koppel Industrial Car & Equipment Co., by Garlinghouse Bros., 2416 E 16th St., Los Angeles, at \$12,640 awarded the contract by the Metropolitan Water District November 24, for Schedule No. 1, for furnishing complete three exterior and three interior sections of telescopic steel forms in lengths of 11 ft. 3 in. for a semi-elliptical conduit 16 ft. in height, and three sections of telescopic steel forms in lengths of 10 ft. for the interior of a circular siphon 12 ft. 4 in. in diam-

eter, together with all necessary devices and tools for setting and moving same.

Forms are to be delivered, completely assembled, ready for use on the line of the Colorado River Aqueduct at a point 11 miles northwest of Indio, Cal.

MARCH FIELD, Riverside, Calif.—Until 10 A. M., Dec. 5, bids will be received by Constructing Quartermaster, March Field, for the construction of additions to the gasoline fueling system at March Field. Work will consist of installing four additional 25,000 gallon storage tanks with necessary fittings, concrete work, and a filling shelter.

To Be Done By Day's Work.
SHED Cost, \$8500

OAKLAND, Alameda Co., Cal. Western Pacific Mole.

One-story loading shed.
Owner—Western Pacific Railroad Co., 983 Mills Bldg., San Francisco.
Plans by Engineering Dept. of Owner.

SAN FRANCISCO.—San Francisco Const. Co., 3159 Fillmore Street, at \$6,883 awarded contract by the Coast Guard Department to construct combination two-story frame boathouse and garage, 26x48 ft. with asbestos roof, at the Golden Gate Coast Guard Station, San Francisco.

MARE ISLAND, Cal.—The following are additional contractors and others who have procured plans for the purpose of submitting bids to the Bureau of Yards and Docks, Navy Department, Washington, D. C., on Dec. 20 for two 14-ton hammerhead cranes at the Navy Yard, Mare Island; Spec. No. 7540:

The Wellman Engr. Co., 7000 Central Ave., Cleveland, Ohio.

Lakeside Bridge & Steel Co., Milwaukee, Wis.

Treadwell Const. Co., Midland, Pa. Star Iron & Steel Co., 435 E 11th St. Tacoma, Wash.

Orton Crane & Shovel Co., 608 South Dearborn, Chicago.

American Hoist & Derrick Co., St. Paul, Minn.

Victor R. Browning & Co., Kenmore Office, 13021 St. Clair Ave., Cleveland.

SAN JOSE, Santa Clara Co., Cal.—Until Dec. 12, 8 P. M., bids will be received by Walter L. Bachrodt, Secretary, San Jose Board of Education, for the frame dwelling located at 93 Hobson Street, adjacent to the Jefferson School. Specifications for removal of house may be obtained from the superintendent of school's office.

SIGNAL HILL, Los Angeles Co., Cal.—All bids for the construction of the proposed reservoir or concrete tank on Signal Hill have been rejected by the Signal Hill City Council. The work will probably be done by force account under the direction of W. V. Thompson, Water Superintendent. L. W. Odell, 6417 Drevel Ave., Los Angeles, at \$3298 submitted the low bid on October 3.

20—MISC. SUPPLIES AND MATERIALS

LOS ANGELES, Cal.—Pennsylvania Iron & Steel Corp., 2308 Santa Fe Ave. Los Angeles, at \$1313.80 (265 pieces on item 2) awarded contract by Saul A. Joseph, Purchasing Agent, Metropolitan Water District, Nov. 22, and Pacific Iron & Steel Co., 241 W Avenue 26, Los Angeles, at \$832.50 (170 pieces on item 3) for furnishing steel columns, under Bid No. 17740. Items 1, 4, 5 and 6 were rejected. The bids were: Pacific Iron & Steel Co., item (3) \$832.50.

Pennsylvania Iron & Steel Co., item (2) \$1313.50; (3) \$1028.50.
 McClintic-Marshall Corp. (3) \$904.40.
 Kyle Steel Const. Co., item (2) \$1,372.10; (3) \$1001.37.
 Consolidated Steel Corp. (2) \$1551.22.

OAKLAND, Cal.—Gilmore Steel and Supply Co., 825 Folsom St., San Francisco, at \$6595.10 submitted low bid to John H. Kimball, Secretary, East Bay Municipal Utility District, Oakland, for furnishing gate valves under Spec. No. LS-114. The bids were taken as follows:
 (1) 200 4-in. diameter valves;
 (2) 250 6-in. do;
 (3) total for (1) and (2);
 (4) lump sum if awarded both (1) and (2).

Complete bids follow:
 Gilmore Steel & Supply Co., S. F., (1) \$2436; (2) \$4712.50; (3) \$7148.50; (4) \$6595.10.
 Warren & Bailey Co., San Francisco (1) \$2400; (2) \$5462.50; (3) \$7862.50; (4) \$7862.50.

M. & H. Valve Fittings Co., S. F., (1) \$2576; (2) \$5880; (3) \$8456; (4) no lump sum.

Identical bids at (1) \$2340; (2) \$5,005; (3) \$7345; (4) \$6610.50, were received from the following:

Traverse City Iron Works, Traverse City, Mich.; Kennedy Valve Co., San Francisco; Oakland Plumbing Supply Co., Oakland; Richmond Sanitary Co., Oakland; Rensselaer Valve Co., San Francisco; Grinnell Co., San Francisco; Walworth-Calif. Co., San Francisco; A. P. Smith Mfg. Co., East Orange, N. J.; Chapman Valve Co., San Francisco; Waterworks Supply Co., San Francisco; Crane Co., San Francisco; Ludlow Valve Mfg. Co., Troy, N. Y.

BOULDER CANYON, Nevada — Laclede Tube Co., at \$67,710 awarded contractor by the Bureau of Reclamation, Denver, Colorado, for furnishing 1-in. tubing for Boulder Dam. Bid No. A-3262-A.

BOULDER CANYON, Nev.—Jones & Laughlin Steel Co., at \$4212 awarded contract by the Bureau of Reclamation, Denver, Colo., for furnishing reinforcing bars for galleries in dam. Bid No. 3321-A.

BOULDER CANYON, Nevada — Pacific Coast Steel Corp., at \$41,189.47 and Colorado Fuel & Iron Products Co. at \$84,486.76 awarded contract by the Bureau of Reclamation, Denver, Colo., for furnishing reinforcing bars for power plant. Bid No. A-3285-A.

BOULDER CANYON, Nev.—Following contracts awarded by the Bureau of Reclamation, Denver, for furnishing reinforcing bars for intake towers, Bid No. 2-3270-A:
 Colorado Fuel & Iron Co.....\$22,798.86
 Pacific Coast Steel Co.....\$1,610.50

BOULDER CANYON, Nev.—Crane-O'Fallen Co. at \$22,060 awarded contract by the Bureau of Reclamation, Denver, Colo., for furnishing annealed copper strip for grout stops. Bid No. A-3271-A.

BOULDER CANYON, Nev.—The following contracts awarded by the Bureau of Reclamation, Denver, Colo., for furnishing pipe fittings for contraction joint grouting system. Bis No. A-3281-A:
 Graybar Electric Co.....\$21,489
 Appleton Electric Co.....19,000
 Tay-Holbrook, Inc.....433
 H. & B. M. & S. Co.....4,180

BOULDER CANYON, Nev.—The following contracts awarded by the Bureau of Reclamation, Denver, Colo., for furnishing pipe, fittings and con-

duit box covers for grouting construction joints. Bid No. A-3319-A:
 Grinnell Co.\$950.25
 Graybar Electric Co.....296.10
 Kelly Pipe Co.....2866.00

LOS ANGELES, Cal. — Contracts awarded by Saul A Joseph, Purchasing Agent, Metropolitan Water District, Nov. 27 for furnishing lumber under Bid No. 17728 are:

Items 1 to 5 (item 2 rejected) to E. K. Wood Lumber Co., 4701 Santa Fe, at \$13,487.50.

Item 6 to Patten-Blinn Lumber Co., 521 E. Fifth St., at \$600.

The bids were:
 Urban Lumber Co., 1 to 5, incl., \$17,450.

Public Mill & Lumber Co., 1 to 5, inc., \$15,725.

Santa Fe Lumber Co., 1 to 5 inc., \$15,768.20.

Vineland Builders Supply Co., 1 to 5, inc., \$15,725.

A. E. Fickling Lumber Co., 1 to 5, inc., \$15,662.

Whiting-Mead Co., 1 to 5, inc., \$15,187.50.

Daugherty Lumber Co., 1 to 5, inc., \$14,664.70.

Jno. A. Rudbach, representing Thompson Lumber & Piling Co., 1 to 5 inc., \$14,496.65.

E. J. Stanton & Son, 1 to 5 inc., \$14,337.50.

Glick Bros. Lumber Co., 1 to 5 inc., \$14,337.50.

Lounsberry & Harris, 1 to 5 inc., \$14,088.50.

Geo. M. Huff Lumber Co., 1 to 5 inc., \$14,050.75.

W. E. Cooper Lumber Co., 1 to 5 inc., \$13,912.50.

San Pedro Lumber Co., 1 to 5 inc., \$13,862.50.

Consolidated Lumber Co., 1 to 5 inc., \$13,850.

Patten-Blinn Lumber Co., 1 to 5 inc. (partial bid), \$13,850.

Owens-Parks Lumber Co., 1 to 5 inc., \$13,827.50.

Hammond Lumber Co., 1 to 5 inc., \$13,720.

C. Ganah' Lumber Co., Inc., 1 to 5 inc., \$13,700.

C. M. Chapman, 1 to 5, inc., \$13,640.50
 Coffey Lumber Co., Ltd., 1 to 5 inc., \$13,510.

E. K. Wood Lumber Co., \$13,487.50.
 Globe Lumber Co., 1 to 5 inc., (partial bid), \$2107.82.

E. U. Wheelock, Inc. 5 (partial bid), \$2100.
 Urban Lumber Co., 6, \$4500.
 Daugherty Lumber Co., 6, \$1009.40.
 Vineland Builders Supply Co., 6, \$1000.

Public Mill & Lumber Co., 6, \$950.
 Globe Lumber Co., 6, \$833.
 Whiting-Mead Co., 6, \$830.
 A. E. Fickling Lumber Co., 6, \$800.
 Lounsberry & Harris, 6, \$779.
 E. J. Stanton & Son, 6, \$750.
 Consolidated Lumber Co., 6, \$725.
 W. E. Cooper Lumber Co., 6, \$725.
 Owens-Parks Lumber Co., 6, \$715.
 Geo. M. Huff Lumber Co., 6, \$710.50.
 San Pedro Lumber Co., 6, \$700.
 Glick Bros. Lumber Co., 6, \$700.
 Santa Fe Lumber Co., 6, \$699.06.
 C. H. Chapman, 6, \$693.
 C. Ganah' Lumber Co., Inc., 6, \$676.
 E. K. Wood Lumber Co., 6, \$675.
 Coffey Lumber Co., Ltd., 6, \$625.
 Patten-Blinn Lumber Co., 6, \$600.
 Hammond Lumber Co., 6, \$400.

BOULDER CANYON, Nev.—The following contracts awarded by the Bureau of Reclamation, Denver, Colo., for furnishing grouting apparatus. Bid No. 2-3312-A.
 Hendrie & Blothoff Co.....\$758.25
 Grinnell Co.....868.94

BOULDER CANYON, Nev.—Santa Fe Pipe & Supply Co. at \$6300 awarded contract by the Bureau of Reclamation, Denver, Colo., for furnishing galvanized pipe for grouting system. Bid No. 32009-A.

BOULDER CANYON, Nevada—The following contracts awarded by the Bureau of Reclamation, Denver, Colo., for furnishing tubing or galvanized pipe for grouting system. Bid No. A-3272-A:
 Graybar Electric Co.....\$45,956.00
 Grimes Pipe & Supply Co.....777.22
 Crane-O'Fallen Co.....162.72

MINIDOKA, Idaho.—Following contracts awarded by the Bureau of Reclamation, Denver, for furnishing gate hoists, trash rack and flap valve for pumping station No. 1; Bid No. S-600-D:
 Long Beach Iron Works.....\$920.00
 Pacific Iron & Steel Works.....770.00
 Commercial Iron Works.....154.00
 Wagner Arch. Iron Works.....287.00

BOULDER CANYON, Nev.—Crane-O'Fallen Co. at \$4666.92 (pipe) and John W. Beam, at \$326.88 (fittings) awarded contract by the Bureau of Reclamation, Denver, Colo., for furnishing pipe and fittings for tunnel plugs. Bid No. A-3292-A.

BOULDER CANYON, Nev.—Pacific Coast Steel Corp. at \$5660.86 awarded contract by the Bureau of Reclamation, Denver, Colo., for furnishing reinforcing bars for Nevada spillway. Bid No. 3294-A.

BOULDER CANYON, Nev.—Grinnell Co., at \$43,650 awarded contract by the Bureau of Reclamation, Denver, Colo., for pipe and fittings for cableway. Bid No. A-3303-A.

BOULDER CANYON, Nev.—Crane-O'Fallen Company, Denver, Colo., at \$0.105 each (f.o.b. Chicago, Ill., with freight allowance of 40c cwt.) awarded contract by the Bureau of Reclamation, Custom House, Denver, Colo., for furnishing 200,000 expansion couplings, under Bid Invitation No. NIRA 23,005-A.

SAN FRANCISCO—California Corrugated Culvert Co., Fifth and Parker Sts., Berkeley, at \$10,773 submitted low bid to the U. S. Forest Service, Ferry Bldg., San Francisco, for furnishing corrugated metal pipe culverts and couplings, involving:

- (1) 6108 ft. 12-in. C.M.P. culverts;
- (2) 354 ft. 15-in. do;
- (3) 2408 ft. 18-in. do;
- (4) 1294 ft. 24-in. do;
- (5) 128 ft. 30-in. do;
- (6) 634 ft. 36-in. do;
- (7) 241 12-in. couplings;
- (8) 105 18-in. do;
- (9) 13 15-in. do;
- (10) 57 24-in. do;
- (11) 5 30-in. do;
- (12) 31 36-in. do;

The complete bids follow:
 (A) California Corrugated Culvert Co., \$10,773.
 (B) Western Pipe & Steel Co., San Francisco, \$10,916.

Unit bids follow:

	(A)	(B)
(1).....	\$0.64	\$0.65
(2).....	.78	.77
(3).....	.91	.93
(4).....	1.46	1.47
(5).....	1.83	1.82
(6).....	2.94	2.96
(7).....	.74	.72
(8).....	.82	.94
(9).....	.92	.82
(10).....	1.17	1.22
(11).....	1.39	1.41
(12).....	1.91	2.04

MACHINERY & MATERIAL

Bid calls for construction machinery and materials and miscellaneous equipment and supplies purchased by Federal, State, Municipal and other public agencies.

NAVY DEPARTMENT

WASHINGTON, D. C.—Bids will be received by the Bureau of Supplies and Accounts, Navy Department, Washington, D. C., as follows:

- SHEAR, rotary, motor-driven, Puget Sound. Sch. 1171; Dec. 5.
 GRINDER, motor - driven, Puget Sound. Sch. 1172; Dec. 5.
 COMPRESSORS, air, portable, 8, San Diego. Sch. 1173. Dec. 5.
 GRINDER, surface, motor-driven, San Diego. Sch. 1190; Dec. 5.
 SHOVELS, power, and drag shovel attachments, Mare Island. Sch. 1185-R; Dec. 5.
 SHOVELS, steam, East and West Yards. Sch. 1177; Dec. 5.
 MACHINES, potato-peeling, motor-driven, and spares, East and West Yards. Sch. 1219; Dec. 8.
 COMPRESSOR, 4 generator air units and spares, San Diego. Sch. 1224; Dec. 8.
 GOVERNORS, 4 main feed pump, and spares, Puget Sound. Sch. 1222; Dec. 8.
 GUNS, metal spray, 2, San Pedro. Sch. 1215; Dec. 8.
 CABINETS, sandblast, 2, San Pedro. Sch. 1214; Dec. 8.
 URNS, electric coffee, and spares, 8 Mare Island. Sch. 1213; Dec. 8.

WASHINGTON, D. C.—Bids will be received by the Bureau of Supplies & Accounts, Navy Department, Washington, D. C., as follows:

- LINOLEATE, manganese, 25,000 lbs., for Mare Island. Sch. 1174; Dec. 5.
 POWDER, bronze, 5000 lbs., Mare Island. Sch. 1175; Dec. 5.
 BLADES, hacksaw, 7000 doz., Mare Island. Sch. 1182; Dec. 5.
 WHITING, 60,000 lbs., Mare Island. Sch. 1176; Dec. 5.
 ZINC, siba, 55,000 lbs., Mare Island. Sch. 1154; Dec. 5.
 ELECTRODES, welding, iron or steel, brass welding rods, iron or steel welding rods, for Mare Island. Sch. 1151; Dec. 5.
 STEEL, corrosion-resisting bar, 15,000 lbs., Mare Island. Sch. 1153; Dec. 5.
 STEEL, rivet, 100,000 lbs., Mare Island. Sch. 1154; Dec. 5.
 LEAD, pig, 36,000 lbs., Mare Island. Sch. 1155; Dec. 5.
 TUBING, seamless steel, East and West Yards. Sch. 1239; Dec. 5.
 FLASKS, seamless steel, 80, East and West Yards. Sch. 1236; Dec. 5.
 GLOBES, flanged-heel, 10,000, Mare Island. Sch. 1211; Dec. 8.
 STEEL, medium, bar, 20,700 lbs., Mare Island. Sch. 1152; Dec. 5.
 LITERS, metal, 13, Mare Island. Sch. 1183; Dec. 5.
 FLANGES, steel, East Yards and Puget Sound. Sch. 1198; Dec. 5.
 FIRE EXTINGUISHING system outfits, carbon dioxide, 16, East and West Yards. Sch. 1207; Dec. 5.
 CORDS, telephone, 1300, Mare Island. Sch. 1203; Dec. 8.
 GUAGES, draft, for measuring boiler room air pressure and spares, East Yards and Puget Sound. Sch. 1210; Dec. 5.
 CARTRIDGE, submarine loop, 3000 ft., Mare Island. Sch. 1205; Dec. 8.
 TUBES, vacuum, 2450, Mare Island. Sch. 1204; Dec. 8.
 FIRE EXTINGUISHERS, foram gen-

erator, East and West Yards. Sch. 1254; Dec. 5.

COCKS, faucets, and valves. Sch. 1131; bids postponed from Dec. 5 to Dec. 12.

BREMERTON, Wash.—Until Dec. 11, 10 A. M., bids will be received by the Supply Officer, Puget Sound Navy Yard, for 300,000 ft. B. M. of lumber, either Sitka Spruce, West Coast Hemlock or Douglas fir under Req. NSA 212, for delivery under three alternatives as follows:

- (A) To be delivered on contractor's barge F. A. S. vessel, Puget Sound Navy Yard.
 (B) To be delivered f.o.b. Government barge at contractor's loading dock at Puget Sound ports.
 (C) To be delivered f.o.b. cars for shipment to Mare Island Navy Yard or to Puget Sound Navy Yard.

Specifications obtainable at the office of the Supply Officer of any Navy Yard, or from the Navy Purchasing Officer, San Francisco.

WAR DEPARTMENT

FORT MASON, San Francisco, Cal.—Until Dec. 8, 10 A. M., bids will be received by the Quartermaster Supply Officer, San Francisco General Depot, Fort Mason, under Circular No. 928-34-104-Misc., for the following:

POLES, iron, tubular;
 SINKS, kitchen, enameled cast iron;
 TUBS, bath, enameled inside, complete with fixtures.

Specifications obtainable at above office.

VET'S ADMINISTRATION

PALO ALTO, Santa Clara Co., Cal.—Until Dec. 5, 2 P. M., bids will be received by the Veterans' Administration Facility Hospital, A. L. Brown, Business Manager, under Proposal No. 126, for the sale of a redwood tank, without cover but with chime timbers, capacity about 100,000 gallons, size approximately 35-ft. diameter by 14 ft. high; complete equipment of hoops.

The tank is dismantled and may be inspected between the hours of 9 A. M. and 4 P. M. any day except Saturday or Sunday.

EUREKA CITY

EUREKA, Humboldt Co., Cal.—Bids will be received by A. Walter Kildale, city clerk, City Hall, Eureka, as follows:

OIL, lubricating, and grease, for the city's needs in 1934; Dec. 5, 8 P. M.;

GRAVEL screened, 1,000 cu. yds. more or less; Dec. 5, 5 P. M.;

GASOLINE, for the city's needs in 1934, Dec. 5, 8 P. M.

FUEL OIL, gas the city's needs in 1934 Dec. 5, 8 P. M.

Specifications obtainable from the above office.

CALIFORNIA STATE

SAN QUENTIN, Marin Co., Calif.—Until Dec. 6, 10 A. M., bids will be received by State Purchasing Department, Sacramento, for reinforcing steel at San Quentin:

- (1) 125,000 lin. ft. ½-in.;
 (2) 30,000 lin. ft. ¾-in.

U. S. FOREST SERVICE

GOVERNMENT ISLAND, Cal.—Until Dec. 8, 2 P. M., bids will be received by Frank Haynie, Supply Officer, Forest Service Supply Depot, Government Island, Oakland, under Bid 627, as follows:

CUTTING EDGES, for trailbuilders, complete as specified below:

- (1) Master-Cat. 50 (9 ft. 10 in. long, 25 each);
 (2) Woolbridge-Cle. 40-55 (8 ft. 6 in. long) 200 each;
 (3) Isaacson-Cle. 35 (7 ft. 7½-in.) 4 each;
 (4) La Plante-Choate-Cat. 50 (8 ft. 11½-in.) 25 each;

GRADER BLADES, 20 ft. long (in two sections) 25 each.

Specifications obtainable from above office.

SAN FRANCISCO CITY

SAN FRANCISCO.—Until Dec. 4, 3 P. M., bids will be received by T. A. Brooks, Purchasing Agent, Room 270, City Hall, under Bid No. 1119 for furnishing cast steel covers and frames and bolts for Hetch Hetchy Project.

Specifications obtainable from above office.

MET. WATER DISTRICT

LOS ANGELES, Cal.—Until December 4, 10 A. M., bids will be received by Saul A. Joseph, Purchasing Agent, Metropolitan Water District, Room 504, 306 W. Third St., Los Angeles, for furnishing conveying and screening equipment for concrete aggregate plant as per Specifications E-72-A, dated November 18, 1933. All prices f.o.b. cars or trucks at manufacturer's plant. The items are:

- (1) one bar grizzly,
 (2) one apron feeder and one continuous bucket elevator complete with motor and starter.
 (3) two double deck vibrating screens complete with motors and starters
 (4) six bottom discharge gates.
 (5) two 16-in. belt conveyors, 30 ft. long between head and tail shafts; two 16-in. belt conveyors, 50 ft. long between head and tail shafts; above conveyors together with motor and starter.

Bidders may bid, under alternate proposal, on equipment similar to equipment specified. Such proposals shall be marked "Alternate" and shall cover equipment having the same capacity and performing the same functions as that specified. The same factors that govern selection of regular equipment shall apply in the selection of alternate equipment proposal. Alternate proposals to receive consideration shall contain complete description of equipment and all data pertaining to installation and performance. Bidder shall quote f.o.b. cars or trucks at factory ad state estimated and approximate shipping weights. Bid No. 18113.

LOS ANGELES, Cal.—Until Dec. 11, 10 A. M. (time extended from Dec. 4, previously reported) bids will be received by Saul A. Joseph, Purchasing Agent, Metropolitan District, for furnishing one electric dynamometer under Bid No. 18201.

WAR DEPARTMENT AWARDS

Following is a tabulation to date of recent principal awards (exceeding \$10,000) made by U. S. War Department, Pacific Division, under Rivers and Harbors and special project appropriations.

Constructing Authority	Contract	Contractor	Bid	Date Awarded
U. S. War Department (Dist. Engr., Sacramento)	Construct levee, Sacramento	Roberts Island Dredging Co., Antioch	\$ 58,752.00	Sept. 20
U. S. War Department (Dist. Engr., San Francisco)	Dredg Richmond harbor channel	Standard Dredging Co., Los Angeles	\$ 97,678.06	Sept. 25
U. S. War Department (Dist. Engr., Sacramento)	Channel dredging, Stockton	San Francisco Bridge Co., San Francisco.....	\$316,543.00	Sept. 25
U. S. War Department (Dist. Engr., Sacramento)	Dredging, Suisun Bay	American Dredg. Co., San Francisco	\$197,316.90	Sept. 26
U. S. War Department (Dist. Engr., Sacramento)	Dredging, San Joaquin river.....	Hydraulic Dredg. Co., Oakland	\$278,410.00	Sept. 26
U. S. War Department (Dist. Engr., Portland)	Repair South Jetty, Oregon & Washington	Winston Bros. Co. & G. F. Atkinson Co., Portland, Ore.	\$ 1,111,945	Sept. 26
U. S. War Department (Dist. Engr., Portland)	Dredging, Columbia river channel	Tacoma Dredging Co., Tacoma, Wash.	\$376,750.00	Sept. 29
U. S. War Department (Dist. Engr., Seattle)	Dredging — Lake Washington ship canal	Puget Sound Bridge & Dredg. Co., Seattle.	\$ 49,700.00	Sept. 29
U. S. War Department (Dist. Engr., San Francisco)	Breakwater extension, Monterey	Guy F. Atkinson, San Francisco	\$196,652.00	Sept. 29
U. S. War Department (Dist. Engr., Los Angeles)	Breakwater extension, Los Angeles Harbor	Rohl-Connolly Co. Los Angeles	\$ 1,520,000	Oct. 4
U. S. War Department (Dist. Engr., Portland)	Core drilling, Bonneville Dam.....	F. P. Cannon, Compton, Cal.	\$ 14,725.00	Oct. 16
U. S. War Department (Dist. Engr., Los Angeles)	Dredging, Los Angeles Harbor	San Francisco Bridge Co., San Francisco.....	\$ 52,700.00	Oct. 18
U. S. War Department (Dist. Engr., Sacramento)	Dredging, Suisun Bay channel, Stockton	San Francisco Bridge Co., San Francisco.....	\$148,200.00	Oct. 18
U. S. War Department (Dist. Engr., Portland)	Excavation, Bonneville dam site Bonneville, Oregon	General Const. Co., Seattle, Wash.	\$668,509.00	Nov. 1
U. S. War Department (Dist. Engr., Seattle)	Dredging, Wrangell Narrows, Alaska	Puget Sound Bridge & Dredg. Co., Seattle.	\$131,539.00	Nov. 6
U. S. War Department (Dist. Engr., Honolulu)	Dredging, Honolulu Harbor	Hawaiian Dredg. Co., Honolulu	\$696,875.00	Nov. 14
U. S. War Department (Dist. Engr., Sacramento)	Bank Protection, Sacramento River	Lord & Bishop, Sacramento	\$ 34,650.00	Nov. 15
U. S. War Department (Dist. Engr., San Francisco)	Dredging, Sacramento river.....	San Francisco Bridge Co., San Francisco.....	\$299,584.00	Nov. 17
U. S. War Department (Dist. Engr., San Francisco)	Breakwater, Port Allen, T. H.....	Kauai Railway Co., Port Allen, T. H.....	\$648,960.00	Nov. 17

NAVY DEPARTMENT AWARDS

Following is a tabulation to date of principal construction awards (exceeding \$10,000) made by the Navy Department at Pacific bases since October 1, 1933:

Constructing Authority	Contract	Contractor	Bid	Date Awarded
Navy Department	Water main—Puget Sound	Queen City Const. Co., Seattle, Wash.	\$ 21,695.54	Oct. 7
Navy Department	Fuel oil storage improvement, San Diego	Chicago Bridge & Iron Works, Los Angeles	\$ 34,450.00	Oct. 11
Navy Department	Heating plant bldg., San Diego.....	B. O. Larsen, San Diego	\$ 30,958.00	Oct. 11
Navy Department	Oil tanks—Mare Island	Thos. J. Doyle, S. F.....	\$ 15,957.00	Oct. 11
Navy Department	Shop bldg.—Puget Sound	K. E. Parker Co., S. F.	\$655,400.00	Oct. 16
Navy Department	Boilers—San Diego	R. G. Meyler Corp., Los Angeles	\$ 61,370.00	Oct. 18
Navy Department	Assembly shop bldg., San Diego	B. O. Larsen, San Diego	\$174,500.00	Oct. 18
Navy Department	Roads & walks, Rockwell Field	Miracle Co., San Diego	\$ 31,192.00	Oct. 19
Navy Department	Landing field improvement, San Diego	B. G. Carroll, San Diego	\$ 39,690.00	Oct. 20
Navy Department	Electric system, Rockwell Field	Miracle Co., San Diego	\$ 16,350.00	Oct. 20
Navy Department	Range water supply system, Pearl Harbor, T. H.....	R. E. Finlayson, Honolulu	\$ 14,920.00	Nov. 6
Navy Department	Water system improvements, San Diego	Chas. and F. W. Steffen, San Diego.....	\$ 10,100.25	Nov. 8
Navy Department	Flood lights, Air Station, Sunnyvale	Wm. Spivock, S. F.....	\$ 12,690.00	Nov. 13
Navy Department	Drill ground improvement, San Diego	Daley Corp. San Diego	\$ 22,270.00	Nov. 17
Navy Department	Repair basin, Pearl Harbor	Hawaiian Dredg. Co., Honolulu	\$ 2,789,600	Nov. 17
Navy Department	Cranes—Pearl Harbor	Star Iron & Steel Co., Tacoma, Wash.	\$257,480.00	Nov. 17
Navy Department	Foundry Bldg. extension, Pearl Harbor	Ralph Woolley, Honolulu	\$ 65,000.00	Nov. 17
Navy Department	Dike extension, Mare Island	Geo. Pollock, Sacramento	\$236,720.00	Nov. 18
Navy Department	Dredging, Naval Operating Base San Diego	George Hess, Los Angeles	\$ 46,800.00	Nov. 23
Navy Department	Magazines, Ammunition Depot, Mare Island Navy Yard	Carl N. Swenson Co., San Jose	\$220,460.00	Nov. 28
Navy Department	Concrete Mixing Plant, Mare Island Navy Yard	Edward R. Bacon Co., San Francisco	\$ 16,315.00	Nov. 28

ENGINEERING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

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|-------------------------------------|-------------------------------------|
| 21.—Bridges | 30.—Reservoirs and Dams |
| 22.—Dredging, Harbor Works, Excava. | 31.—Pipe Lines and Wells |
| 23.—Irrigation Proj. | 32.—Sewers & Sewage Disposal Plants |
| 24.—St. Light. Systems | 33.—Water Works |
| 25.—Machinery and Equipment | 34.—Parks & Playgrounds |
| 26.—Railroads | 35.—Tunnels |
| 27.—Fire Alarm Sys. | |
| 28.—Fire Equipment | |
| 29.—Streets & Highways | |

21— BRIDGES

LOS ANGELES, Cal.—The City of Los Angeles has applied to the Federal Administration of Public Works for a loan of \$1,262,750 and a grant of \$219,750 to finance the removal of existing draw-bridge at the mouth of the west basin at the harbor, construction of roadbed and trackage, the relocation of existing trackage and reclamation of an existing slip and necessary bulkhead construction so that the rail traffic may be rerouted around the west basin.

BUTTE COUNTY, Cal.—Bodenhammer Constr. Co., 354 Hobart St., Oakland, at \$14,585 awarded contract by the State Highway Commission, Sacramento, to construct a reinforced concrete bridge across Pine Creek, about 12 miles north of Chico.

PEND OREILLE COUNTY, Wash.—Colonial Building Co., Spokane, Wash., at \$9917 awarded contract by the Director of Highways, Olympia, Washington, for grading 0.2 miles of approaches to and constructing treated timber pile and frame trestle 135 ft. long over Ruby Creek on State Road No. 6, Unit 1 of National Recovery Secondary Highway Project No. NRS 193E in Pend Oreille County.

Other low bidders were: Interstate Engineering & Constr. Co., Newport, at \$10,552 and Joslin & McAllister, Spokane, at \$10,963.

ALAMEDA COUNTY, Ca.—Federal Administration of Public Works has granted \$190,000 to the County of Alameda representing 30% of the estimated cost of \$633,250 for labor and materials in replacing a swing bridge over tidal canal at Park St., Oakland, with a modern electrically operated double leaf bascule highway bridge complete with approaches.

The design is a double-leaf, through truss bascule, providing a 44 ft. roadway and two 6-ft. sidewalks. The span will be 288-ft. between trunions and have an overall length of 433 ft. with approaches. An electrical control system powered by four 65-hp. motors is specified.

County Surveyor Burnett Hamilton will submit plans and specifications to the Board of Supervisors Dec. 5 at which time a date for receiving bids probably will be set. The contract will involve the following approximate quantities:

- (1) lump sum — excavation, cofferdams, etc.;
- (2) 10,000 lin. ft. steel piles;
- (3) 1040 cu. yds. tremie concrete;
- (4) 7300 cu. yds. struc. concrete;
- (5) 390 cu. yds. counterweight conc.;
- (6) 1,100,000 lbs. reinf. steel;
- (7) 900,000 lbs. silicon steel;

- (8) 2,000,000 lbs. carbon steel;
- (9) 12,000 lbs. anchor bolts;
- (10) 400,000 lbs. machinery;
- (11) 1000 lin. ft. elec. fillet welding;
- (12) lump sum—operators' houses;
- (13) 40 MPM creosoted timber;
- (14) 1200 lin. ft. creosoted timber piles;
- (15) 2 drainage pumps and motors;
- (16) lump sum — conduits across estuary;
- (17) lump sum—removal of existing bridge and clearing site.

Bruce Jameyson, bridge engineer, Alameda County Courthouse, Oakland.

DOUGLAS, Ariz.—Kersey & Co., Amogordo, N. M., at \$2,998 (item 1) and \$2,468 (item 2) submitted low bid to the Treasury Department, Procurement Division, Public Works Branch Washington, D. C., for constructing a concrete bridge and approaches at the U. S. Inspection Station, Douglas. James A. Wetmore, Acting Supervising Architect.

SONOMA - MENDOCINO COS. — Until December 8, 10 A. M., the Board of Directors of Joint Highway District No. 19, Supervisor Chambers, County Court House, Santa Rosa, will receive bids for construction of a steel bridge to replace the existing bridge over the Russian River at Monte Rio. The structure will be 770 ft. long with concrete deck and concrete sidewalks on both sides, consisting of a five 100 ft. steel pony truss spans with approach sections of three 40-ft. spans on the north and four 37½ ft. spans on the south, involving:

- (1) Clearing and grubbing;
 - (2) 16,000 cu. yds. roadway excav.;
 - (3) 8000 sta. yds. overhaul;
 - (4) 88 lin. ft. 18-in. corr. metal pipt;
 - (5) 90 lin. ft. fence;
 - (6) 1200 cu. yds. struc. excav.;
 - (7) 190 cu. yds. Class A conc. in footings;
 - (8) 2190 cu. yds. Class A conc. in struc.;
 - (9) 75 cu. yds. Class E conc. (railings);
 - (10) 17,500 lbs. cast steel incl. phosphor bronze plates;
 - (11) 170,000 lbs. reinf. steel;
 - (12) 760,000 lbs. struc. steel;
 - (13) 8800 lin. ft. redwood timber pile;
 - (14) 500 lin. ft. guardrail;
 - (15) 1 existing bridge removed;
 - (16) 6 M.B.M. redwood timber in place
- A charge of \$15 will be made for plans obtained from J. B. Piatt, District Engineer, Dougherty-Shea Bldg., Santa Rosa. Plans on file at the office of the County Clerk, Santa Rosa.

SAN FRANCISCO—Eaton & Smith, 715 Ocean Ave., at \$1,047,292 awarded contract by the Golden Gate Bridge and Highway District, 111 Sutter St., for the construction of the San Fran-

cisco approach to the Golden Gate Bridge. The contract includes construction of the high and low viaducts, but omits grading and paving due to possible changes in plans. Bids were opened October 14, 1932.

HUMBOLDT COUNTY, Cal.—Until December 20, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for construction of a reinforced concrete girder bridge across Dean Creek about 5.0 miles north of Garberville, consisting of three 44-ft. spans with reinforced concrete piers and abutments, in Humboldt County, involving:

- (1) 1 only remove and dispose of exist. bridge;
- (2) 240 cu. yds. struc. excav.;
- (3) 51 cu. yds. class A Port. cement concrete footing blocks;
- (4) 293 cu. yds. class A Port. cement conc. struc.;
- (5) 8 cu. yds. Class A Port. cement concrete railing;
- (6) 53,400 lbs. bar reinf. steel;
- (7) 1510 lbs. cast steel;
- (8) 1 lot misc. items of work.

Plans and specifications obtainable from above office, and are on file at the office of the District Engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

LOS ANGELES, Cal.—Associated Constructors, Inc., 1226 S. La Brea Ave., at \$77,521.95 (for unit No. 1) and McClintic-Marshall Co., 11,100 S. Central Ave., Los Angeles, at \$33,718 (unit No. 2—Steel) awarded contract by the Los Angeles Board of Public Works, for constructing the Soto St. bridge across the Pacific Railway and Ramona Blvd., improving the intersection of Soto St. and Marengo St., and Soto St. and Charlotte Sts., including approaches to the bridge; also the relocation of a sewer across the Los Angeles River between Soto St. and Vernon-Downey Road.

MONTEREY COUNTY, Calif.—Until December 20, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for construction of three timber bridges between 52- and 56-miles south of Monterey in Monterey Co., as follows: (1) Bridge across Anderson Canyon, consisting of one 76-ft. truss span and twenty 19-ft. stringer spans; (2) Bridge across Buck Creek, consisting of one 57-ft. truss span and fourteen 19-ft. stringer spans; and (3) Bridge across Lime Creek, consisting of ten 19-ft. stringer spans, involving:

- (1) 600 cu. yds. stripping;
- (2) 1,800 cu. yds. struc. excav.;
- (3) 153 cu. yds. Class A Port. cement concrete;
- (4) 385 cu. yds. Class A do;
- (5) 24,000 lbs. bar reinf. steel;
- (6) 60,300 lbs. struc. metal;
- (7) 402 MFBM redwood timber dense select all-heart struc. grade;
- (8) 190 MFBM redwood timber select all-heart struc. grade;
- (9) 1 lot misc. items of work.

Plans and specifications obtainable at above office, and are on file at the offices of the District Engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

OREGON STATE—Until December 7, 9 A. M., bids will be received by the Oregon State Highway Commission, R. H. Baldock, State Highway Engineer, Multnomah Hotel, Portland, Ore., for bridge construction as follows:

CAPITAL CITY TITLE COMPANY

▼

J. C. PALEN,
Manager

▼

914 Seventh Street
Sacramento :: California

Beneke Creek on Nehalem, Secondary Highway at Jewell, National Recovery Project No. NRS 213-B, involving:

- (1) 120 cu. yds. excav.
- (2) 500 lin. ft. treat. trestle piling;
- (3) 183 cu. yds. concrete;
- (4) 29,000 lbs. metal reinf.;
- (5) 16 M.F.B.M. treat. lumber;
- (6) 53,000 lbs. struc. steel;
- (7) 302 lin. ft. composite handrail;
- (8) 6000 cu. yds. excavation;
- (9) 1800 cu. yds. roadbed topping;
- (10) 600 cu. yds. rock surfacing;
- (11) 90 lin. ft. 18-in. culvert pipe.

COOS COUNTY—Hoffman bridge over Coquille River on Powers Secondary Highway near Myrtle Point, National Recovery, Project No. NRS 206-A. The work involves the following approximate quantities:

- (1) 250 cu. yds. excav.
- (2) 1700 lin. ft. foundation piling;
- (3) 7200 lin. ft. Port Orford cedar trestle piling;
- (4) 317 cu. yds. concrete;
- (5) 25,000 lbs. met. reinf.;
- (6) 30 M.F.B.M. Port Orford cedar lumber;
- (7) 820 lin. ft. Port Orford cedar trestle superstructure;
- (8) 229,000 lbs. structural steel;
- (9) 14,000 cu. yds. excavation;
- (10) 600 cu. yds. gravel;
- (11) 80 lin. ft. 18-in. culvert pipe;

DOUGLAS COUNTY—Bridge over Yellow Creek on Elkton-Sutherland Secondary Highway, near Elkton National Recovery Project No. NRS 216. The work involves the following approximate quantities:

- (1) 80 cu. yds. excavation;
- (2) 205 cu. yds. concrete;
- (3) 21,000 lbs. met. reinforcement;
- (4) 17 M.F.B.M. treat. lumber;
- (5) 46,000 lbs. struc. steel;
- (6) 294 lin. ft. composite handrail;
- (7) 3100 cu. yds. excavation;
- (8) 800 cu. yds. screened gravel;

JACKSON COUNTY—Bridge over Applegate River on Medford-Provost Secondary Highway near Provost National Recovery Project No. NRS 218. The work involves the following approximate quantities:

- (1) 110 cu. yds. excavation;
- (2) 403 cu. yds. concrete.
- (3) 43,000 lbs. metal reinforcement;
- (4) 22 M.F.B.M. treated lumber;
- (5) 290,000 lbs. structural steel;
- (6) 195 lin. ft. composite handrail;
- (7) 6000 cu. yds. embankment;
- (8) 700 cu. yds. gravel surfacing;
- (9) 100 lin. ft. 12-in. culvert pipe;

JOSEPHINE COUNTY—Bridge over Williams Creek on Williams Secondary Highway near Provost, National Recovery Project No. NRS 208. The work involves the following approximate quantities:

- (1) 200 cu. yds. excavation;
- (2) 180 cu. yds. concrete;
- (3) 28,000 lbs. metal reinforcement;
- (4) 11 M.F.B.M. treated lumber;
- (5) 73,000 lbs. struc. steel;
- (6) 350 lin. ft. composite handrail;
- (7) 3800 cu. yds. embankment;
- (8) 5 M.F.B.M. flume lumber;
- (9) 700 cu. yds. screened gravel;
- (10) 39 lin. ft. culvert pipe.

KLAMATH COUNTY—Bridge over U. S. R. S. Canal on the Dalles-California Highway near Klamath Falls, National Recovery Highway Project No. NRS 31. The work involves the following approximate quantities:

- (1) 190 cu. yds. excavation;
- (2) 150 cu. yds. concrete;
- (3) 20,000 lbs. metal reinforcement;
- (4) 11 M.F.B.M. treated lumber;
- (5) 55,000 lbs. structural steel;
- (6) 208 lin. ft. composite handrail;
- (7) 20,000 cu. yds. excavation;
- (8) 800 cu. yds. salvaged surfacing materials;
- (9) 90 lin. ft. culvert pipe;

LINN COUNTY—Bridge over Samsam overflow channel on Albany-Lyons Secondary Highway near Albany, National Recovery Project No.

NRS 223. The work involves the following approximate quantities:

- (1) 1650 lin. ft. treated trestle piling;
- (2) 103 cu. yds. concrete;
- (3) 23,000 lbs. metal reinforcement;
- (4) 30 M.F.B.M. treated lumber;
- (5) 372 lin. ft. composite handrail.

MULTNOMAH COUNTY—Bridge over Vermont Street Gulch and bridge over Newberry Street Gulch on Fourth Street extension of West Side Pacific Highway in Portland, National Recovery Project No. NRM 203-A. The work involves the following approximate quantities:

- (1) 720 cu. yds. excavation;
- (2) 1490 cu. yds. concrete;
- (3) 216,000 lbs. metal reinforcement;
- (4) 670 M.F.B.M. treated lumber;
- (5) 1644 lin. ft. composite handrail.

Bridge over McCarty Creek on the Columbia River Highway near Burlington, National Recovery Project No. NRH 171-A, in Multnomah County. The work involves the following approximate quantities:

- (1) 1200 lin. ft. treated trestle piling;
- (2) 115 cu. yds. concrete;
- (3) 25,000 lbs. metal reinforcement;
- (4) 34 M.F.B.M. treated lumber;
- (5) 190 lin. ft. composite handrail.

YAMHILL COUNTY—Bridge over Chealem Creek on Yamhill-Newberg Secondary Highway near Newberg, National Recovery Project No. NRS 219-A. The work involves the following approximate quantities:

- (1) 600 lin. ft. treated trestle piling;
- (2) 95 cu. yds. concrete;
- (3) 9500 lbs. metal reinforcement;
- (4) 16 M.F.B.M. treated lumber;
- (5) 160 lin. ft. composite handrail.

Plans and specifications obtainable upon deposit of \$5 for each set at the office of the State Highway Commission, Room 322 State Office Building, Salem, Oregon.

22—DREDGING HARBOR WORKS EXCAVATION

NORTH ISLAND, San Diego Bay—Lieut.-Col. Virgil L. Peterson, U. S. Engineer, Los Angeles, has announced that Maj.-Gen. Edward M. Markham, Chief of Army Engineers, has recommended to the President the expenditure of \$1,800,000 for widening the main ship channel of North Island. The proposed work will involve widening the channel to 2200 ft. and the creation of 450 acres fill at the naval air station. The channel will ultimately be 35 fth in depth.

SACRAMENTO, Cal.—Olympian Dredging Co., 249 First St., San Francisco, at \$540 (\$6.75 per hour) submitted the only bid received by the U. S. Engineering Office, Sacramento, for furnishing and operating one dragline, and performing all work as directed by the engineer, for reshaping a short section of the easterly levee of the Yolo By-Pass about ¼ mile southerly of the drainage pumping plant of Reclamation Dist. 1600. Govt. estimate, \$7.40 per hour.

SAN DIEGO, Cal.—George Hess, 431 S Westmoreland Ave., Los Angeles, at \$46,800 was awarded the contract by Bureau of Yards and Docks November 22 for dredging for floating dry dock at the Naval Operating Base (Destroyer base) San Diego. Spec. No.

LONG BEACH, Calif.—The city of Long Beach has applied to the Federal Administration of Public Works for a loan of \$25,012.50 and a grant of \$9,987.50 to finance repairs to the Belmont Pier. The work will involve:

- (1) 175 concrete piles;
- (2) 20 MBM ft. gags and splices;
- (3) 20 MBM ft. stringers;
- (4) 50 MBM ft. flooring;
- (5) 2400 lin. ft. facia;
- (6) 740 tons remove existing asphalt

concrete pavement;
(7) 740 tons resurfacing rdwy.
Total cost, \$35,000.

FORT MASON, Cal.—Until December 7, 10 A. M., bids will be received by the Constructing Quartermaster, Fort Mason, for the construction of an extension to Pier No. 3 at Fort Mason.

Plans and specifications may be obtained from the above office upon deposit of \$25.

ALAMEDA COUNTY, Cal.—Until December 6, 2 P. M., (as previously reported), bids will be received by the State Highway Commission, Sacramento, for constructing a rock retaining wall about 4.1 miles in length and placing miscellaneous riprap between the westerly end of the Key Mole Fill and the Foot of Folger Ave., Berkeley, on the East Bay approach to the San Francisco-Oakland Bay Bridge. The work involves:

- (1) 107,000 tons base rock;
- (2) 120,000 tons core rock.

Plans and specifications obtainable from the above office, and on file at the office of the District Engineers at Los Angeles and San Francisco, and at the office of the San Francisco-Oakland Bay Bridge, 500 Sansome St., San Francisco.

LOS ANGELES, Cal.—E. C. Eaton, 202 N Broadway, County Flood Control Engineer, has recommended that the County Supervisors award a contract to Karl B. Kumpe, Ltd., 800 Ocean Ave., Long Beach, at \$25,825.12 for the construction of earth levees with rock riprap on the Los Angeles river, between Stewart and Gray Rd.

SACRAMENTO, Cal.—Paul Erickson Marysville, at \$0.20 per cu. yd., total \$440 submitted low bid to the U. S. Engineer Office, Sacramento, for constructing an embankment across overflow channels on the northely side of the Yuba River about 0.5 mile east of the City of Marysville, approximately in line with Tenth St., involving about 2,200 cu. yds. embankment in place.

Hemstreet & Bell, Marysville, submitted the only other bid at \$0.30 per cu. yd., total \$660.

Bids held under advisement.

CORONADO, San Diego Co., Cal.—Until Dec. 4, 10 A. M., bids will be received by the Coronado city council for dredging in Glorietta Bay, involving 65,000 cu. yds. dredging, exclusive of over-all depth and side slope. Plans may be obtained upon deposit of \$5.00.

E. A. Ingham, city manager and engineer.

YOLO COUNTY, Calif.—Olympian Dredging Co., 249 First St., San Francisco, at \$115,395 awarded contract by the U. S. Engineer Office, Sacramento, for placing 525,000 cu. yds. embankment along existing levee on the east side of Yolo By-pass, between Yolo Causeway and Miner Slough, a distance of about 20.2 miles.

23—IRRIGATION PROJ.

NOGALES, Ariz.—The State Department, Washington, D. C., has authorized the International Boundary Commission, to proceed immediately with the construction of the international flood control water way in Arizona and Mexico at an estimated cost of \$433,000. The Government of Mexico will pay one-half of the cost.

ONTARIO, Oregon—J. A. Tertelling & Sons, Spokane, Wash., at \$492,075.75 (under Schedules 1 to 8) awarded contract by the U. S. Department of the Interior, Bureau of Reclamation, Ontario, Oregon, for construction of

earthwork, concrete lining and structures, North Canal, Station 513 to Station 2051 (Malheur River Siphon) and Mitchell Butte lateral, Mitchell Butte division, Owyhee Project Oregon-Idaho. Spec. No. 546.

IMPERIAL COUNTY, Cal. — Until December 20, 10 A. M., (time extended from Dec. 4), bids will be received by the Bureau of Reclamation, Yuma, Ariz., for furnishing all labor and materials and performing all work for the construction of earthwork. All-American Canal, Station 1130 to Station 1860, Boulder Canyon Project, Arizona-California-Nevada. The work is located from 6 to 8 miles west of Yuma, Arizona.

The principal items and the estimated quantities involved in three schedules are as follows:
 (1) 21,290,000 cu. yds. common excav.;
 (2) 484,000 cu. yds. rock excav.

In accordance with the specifications schedules and drawings, all of which are designated as Spec. No. 561, Federal Emergency Administration of Public Works Project, copies of which will be available at the Yuma office, December 3. Copies may also be obtained at the Denver office and at Washington, D. C. R. M. Priest, Yuma, engineer and superintendent in charge; R. F. Walter, Denver, Colo., Chief Engineer.

Spec. No. 554, which called for the excavation of 4,105,000 cu. yds. (common) and 484,000 cu. yds. rock, has been recalled and the new specifications ordered prepared to include additional stations between 1340 and 1860, making a total of about 13.8 miles.

25—MACHINERY AND EQUIPMENT

SACRAMENTO, Cal.—Harron, Rickard & McCone Co., 1600 Bryant Street, San Francisco, at \$239.50 (add \$7.75 for insulated hose) submitted low bid to the State Bureau of Purchases, Sacramento, Nov. 22 for furnishing one 75-gal. capacity asphalt heating kettle under Quotation No. 15153, Req. No. 8879. Complete bids follow:
 Harron, Rickard, McCone\$239.50
 Brown-Bevis Equip. Co., L. A., Macleod No. 598, 2% 30 days 270.00
 A. L. Young, S. F. 294.00
 Spears-Wells Co., Oakland 350.00
 Associated Equip. Co., S. F. 450.00

C. H. Gildersleeve, Napa, submitted a bid on second-hand equipment as follows: one at \$40; two at \$30, or 500-lb. roller fire box, \$20.

GOVERNMENT ISLAND, Cal. — Austin Western Road Machinery Co., 435 Brannan St., San Francisco, at \$97.50 (snow blade) and \$265 (plow) submitted low bid to Bureau of Public Roads, Government Island, to furnish:
 (1) Snow blade, height 24-in. length 120-in. shaped and curved to roll snow off to one side;
 (2) V-shaped snow plow, wide type, height 30-in., length 70-in., each side along bottom of blade.

Following bids received:
 Austin Western Road Machinery Co., San Francisco(1) \$ 97.50
 F.O.B. Cedar City (2) 265.00
 Scholzen Products Co., f.o.b. Cedar City(1) \$109.30
 F.O.B. Fredonia 110.50
 F.O.B. Cedar City (2) 330.80
 F.O.B. Fredonia 333.00
 Lang Co., Salt Lake City, Utah, f.o.b. Cedar City.....(1) \$109.30
 F.O.B. Fredonia 110.50
 F.O.B. Cedar City (2) 330.80
 F.O.B. Fredonia 333.00
 Sacramento Tractor & Equipment Co., Sacto., f.o.b. Fredonia(1) \$244.00
 F.O.B. Cedar City 293.80
 F.O.B. Fredonia (2) 220.00
 F.O.B. Cedar City 271.40

Edward R. Bacon Co., San Francisco, f.o.b. Cedar City(1) \$333.50
 F.O.B. Fredonia 340.50
 F.O.B. Cedar City (2) 300.00
 F.O.B. Fredonia 307.00

SAN FRANCISCO—Following bids received by the U. S. Forest Service, Perry Bldg., San Francisco, for furnishing rippers as follows:
 (1) 4 road rippers, heavy duty, 6200-6400 class;
 (2) 12 road rippers, 4400-4600 class;
 (3) 1 road ripper, 3200-3500 class.

Associated Equipment Co., Ltd., San Francisco, (1) \$637.50, (2) \$449.50, (3) \$342.50 each.

Isaacson Iron Works, Seattle, Wash., (1) \$1250, (2) \$750, (3) 650; 10% cash 10 days. Discount (1) 30%, (2) 30%, (3) 30%.

Atlas Scraper Co., Bell, Los Angeles Co., (1) \$640, (2) \$460, (3) \$350 net.

Killefer Mfg. Co., Los Angeles, (1) \$807, (2) \$616.72, (3) \$435.50 net.

Contractors Machinery Exchange, Oakland, \$450 (1 used machine only).

SAN FRANCISCO.—Edward R. Bacon Co., 17th and Folsom Sts., at \$16,315 awarded contract by the Purchasing Officer, 12th Naval District, 100 Harrison St., for furnishing one concrete mixing plant complete.

SACRAMENTO, Cal.—Smith, Booth, Usher Co., 2001 Santa Fe Ave., Los Angeles, at \$252 (Littleford HD 84) submitted low bid to the State Bureau of Purchases, Sacramento, under Req. No. 6364 for furnishing three asphalt heating kettles, 100-gal. capacity. Complete bids follow:
 Smith, Booth, Usher Co., Los Angeles, Littleford 84, \$252.
 Garlinghouse Bros., Los Angeles, White, \$293.50.
 Brown Bevis Co., Los Angeles, MacLeod Special Build, \$295.
 Peerless Machine Mfg. Co., Oakland, \$296.70.
 Kratz & McClelland, San Francisco, Chausse and White, \$297.50.
 A. L. Young, Compton, Alco, \$315.85.
 Spears Wells Co., Oakland, \$360.
 Associated Equip. Co., San Francisco, American Model R, \$386.

BOULDER CANYON, Nevada—Harnischfeger Corp., Milwaukee, Wis., at \$207,868 (item 1) and at \$17,184 (item 2) submitted low bid to the Bureau of Reclamation, Denver, Colorado, for furnishing and delivering f. o. b. cars at the factory shipping point, (1) four 300-ton, double-trolley, motoroperated, overhead traveling cranes, and (2) one 50-ton, single-trolley motor-operated, overhead traveling crane, for installa-

tion in the Boulder power plant, Boulder Canyon Project. Spec. No. 549. All apparatus will be installed by the Government. Complete bids follow:
 (A) Harnischfeger Corp., Milwaukee.
 (B) Whiting Corp., Harvey, Illinois.
 (C) Margon Engr. Corp., Alliance, O.
 (D) Shepard Niles Crane & Hoist Co., Philadelphia, Pa.

	(1)	(2)
(A)	\$207,868	\$17,184
(B)	226,637	17,990
(C)	239,595	
(D)		18,500

SAN FRANCISCO.—A. L. Young Machinery Co., 26 Fremont St., at \$231 awarded contract by the U. S. Forest Service, Perry Bldg., for furnishing 3-in. gasoline engine powered centrifugal pump. Complete bids follow:
 A. L. Young Mch. Co., S. F.\$231.00
 Sterling Pump Co., Stockton 233.00
 Edw. R. Bacon, S. F. 224.45
 H. C. Wood Mch. Co., S. F. 268.00
 Harron, Rickard McCone, S. F. 301.00
 Kratz & McClelland, S. F. 298.00

OAKDALE, Cal.—The Oakdale City Council has instructed city clerk to obtain prices on Diesel engines for operating the municipal water plant. The city contemplates substituting Diesel power plant for the present electrical system.

SAN FRANCISCO—Western Machinery Co., 760 Folsom St., San Francisco, at \$145 a month for four months and \$135 a month thereafter, awarded contract by the U. S. Forest Service, San Francisco, for the rental of a double-drum gasoline engine-powered hoist. Complete bids follow:
 Western Machinery Co., San Francisco, first 4 months, \$145; each additional month, \$135.
 Harron, Rickard & McCone, San Francisco, first 4 months, \$145; each additional month, \$135.
 Kratz & McClelland, Inc, San Francisco, per month, \$85.
 Edward R. Bacon Co., San Francisco, per month, \$55; (Alt.) \$75; (Alt.) \$50.

SAN FRANCISCO—Western Machinery Co., 760 Folsom St., San Francisco, at \$45 a month submitted low bid to the U. S. Forest Service, San Francisco, for the rental of Concrete Mixer. Complete bids follow:
 Western Machinery Co., San Francisco \$45 per month.
 Harron, Rickard & McCone, San Francisco, first 4 months, \$47.50; each additional month, \$45.
 Kratz & McClelland, Inc., San Francisco, \$54 per month (Ala.) \$69.
 Edward R. Bacon Co., San Francisco, \$60 per month.
 Bids held under advisement.

Move More Dirt Faster with LE TOURNEAU Equipment

A complete line of grading machinery — designed by a contractor — developed on actual construction jobs — built to stand continuous use under the worst conditions.

ENGINEER'S CONSULTATION FREE

R. G. LE TOURNEAU, INC.

Wilson Way at Roosevelt Stockton, Calif.

26—RAILROADS

FORT MASON, Cal.—Fay Improvement Co., 760 Market St., San Francisco, at \$27,255 awarded contract by Constructing Quartermaster, Fort Mason, for relaying and reconditioning railroad tracks at Fort Mason.

30—RESERVOIRS & DAMS

PRESCOTT, Arizona.—Prescott city council has set Dec. 27 as the date for an election on a bond issue of \$60,000 to finance construction of a diversion dam on the Hassayampa river, repairs to Lake Goldwater dam, pipe line from Goldwater Dam to Upper Banning Creek dam, and an issue of \$40,000 to finance construction of a sewage disposal plant.

TACOMA, Wash.—Tacoma Wash. has received a Federal Public Works loan and a grant of \$1,000,000 for reconstruction of approximately 18,400 feet of the main gravity water supply conduit and construction of an additional gravity line 44,500 feet bet. the storage reservoir and the city. Thirty per cent of the cost of labor and material, which totals approximately \$717,000 is a grant. The balance is secured by revenue bonds.

GRASS VALLEY, Nevada Co., Cal.—The Pacific Gas & Electric Co. has started construction by day labor on a 660 ft. long gunite lined tunnel 9½-ft. horseshoe shape, on Bear River Canal. Cement will be purchased. Estimated cost \$50,000.

SAN DIEGO, Cal.—San Diego County Superior Court has ruled that a separate contract will have to be let for the extension of El Capitan Dam spillway. Estimated cost, \$150,000, and plans are ready whenever the council sets a date for bids. Work involves: 200,000 cu. yds. excavation; 8,000 cu. yds. concrete; 450,000 lbs. reinforcing steel.

H. N. Savage, city hydraulic engineer.

31—PIPE LINES & WELLS

MARCH FIELD, Cal.—W. A. Rice, 3395 Larchwood St., Riverside, submitted low bid to the Constructing Quartermaster, March Field, Riverside, November 23, at \$2637.50 (using cable tool method) for drilling and testing a gravel wall well at March Field. Specifications No. W-664-QM-34-S. The proposed well will be 261 ft. in depth, 14-in. inside diameter, with 26-in. outside casing to a depth of 50 ft., with gravel pack wall. The bids were:

W. A. Rice—(1) rotary method, no bid; (2) cable tool method, \$2637.50.
F. M. Beary, Ferris—(1) \$3840; (2) \$2929.

W. D. Anderson, San Bernardino—(1) no bid; (2) \$2975.

The engineer recommended that the award be made to the low bidder.

32—SEWERS & SEWAGE DISPOSAL PLANTS

LONG BEACH, Cal.—Bond issues in the sums of \$58,000 for the construction of storm drains, and \$15,000 for repairs to the Belmont pier were defeated at the Long Beach election November 21.

PALO ALTO, Cal.—Complete bids received for sewage plant included in Unit Price Ection.

33—WATERWORKS

SAN LUIS OBISPO CO., Cal.—San Luis Obispo County Waterworks Dist. No. 2 will hold an election Dec. 3 on a proposition to annex lands in Morro Bay Vista Tracts Nos. 1 and 3 to the waterworks district.

RIVERSIDE, Riverside Co., Calif.—Until Dec. 4, 10 A. M., bids will be received by the Riverside county supervisors, Riverside, for furnishing and/or installing at the county hospital, Arlington, the following:

- (1) deep well turbine pump;
- (2) California code pressure tank;
- (3) 4-in. cast iron water pipe;
- (4) two sewage pumps;
- (5) vitrified sewer pipe.

Specifications may be obtained from the engineer, John H. Chase, Security Title Bldg., Riverside. Certified check or bond, 10%.

FRESNO COUNTY, Cal.—The Fresno County Water Works District No. 2 has been organized under the authority granted by the voters at the recent election. The district will apply for federal aid under the P.W.A. construction program. The cost of the proposed improvement is limited to \$34,500 for labor and materials, and \$3300 for incidentals. The work will involve:

- (1) 6640 ft. 4-in. cast iron pipe;
- (2) 8850 ft. 6-in. cast iron pipe;
- (3) 3200 ft. 8-in. cast iron pipe;
- (4) Gate valves;
- (5) Service connections and fittings;
- (6) One deep well turbine pump 60-ft. 20 hp.

The existing standpipe at the Bullard Mutual Water Dist. will be used. A. Segal, Engineer.

34—PARKS AND PLAY-GROUNDS

SACRAMENTO, Cal.—The following firms submitted identical bids at \$880,477 to City Council to furnish and erect steel fencing at the Municipal airport, Sacramento:

Western Steel & Wire Co., San Francisco.

Emigh Hardware Co., Sacramento.
Thomson Diggs Co., Sacramento.
Shorroek Smith Co., Sacramento.
Michel & Pfeffer Iron Works, San Francisco.

Anchor Post Fence Co., San Francisco.

Diamond Match Co., Sacramento.
West Coast Wire & Iron Works, San Francisco.

Dolan Building Materials Co., Sacramento.

E. R. Jamieson, Sacramento.

SACRAMENTO, Cal.—The following firms submitted identical bids at \$1,198,227 to the City Council to furnish and erect steel fencing around the Southside Park Lake, Sacramento:

Western Steel & Wire Co., San Francisco.

Emigh Hardware Co., Sacramento.
Thomson Diggs Co., Sacramento.
Shorroek Smith Co., Sacramento.
Michel & Pfeffer Iron Works, San Francisco.

Anchor Post Fence Co., San Francisco.

Diamond Match Co., Sacramento.
West Coast Wire & Iron Works, San Francisco.

Dolan Building Materials Co., Sacramento.

E. R. Jamieson, Sacramento.

SAN FRANCISCO.—Until Dec. 4, 10 A. M., bids will be received by the U. S. Public Health Service, Marine Hospital, 14th Ave. and Lake St., for furnishing 322 trees and shrubs to the U. S. Marine Hospital. H. N. Krenkel, Material Officer.

SAN MATEO, San Mateo Co., Cal.—San Mateo city council has adopted a resolution of intention and set Dec. 11 as the date for hearing protests on plans to improve parkway by planting trees, shrubs, plants, or grass along the following streets:

Tenth, 11th, 12th, 13th, 14th, 15th and 16th avenues between Palm Ave. and B St. and on Palm Ave. and B St. between 10th and 16th avenues.

E. P. Wilsey, Superintendent of Streets, San Mateo.

SACRAMENTO, Cal.—Until December 11, 7:30 P. M., bids will be received by the Board of Education, Sacramento City High School District, School Administration Bldg., 21st and L Sts., Sacramento, for furnishing and erecting a chain link fence at the Kit Carson Junior High School, located at 54th and M Sts. The work involves approximately 2059 ft. of chain link fence, and includes gates.

Plans and specifications obtainable from the Business Manager of the Board of Education. Chas. C. Hughes, Secretary.

BRIGHAM, Utah.—Until 2 P. M., Dec. 5, bids will be received by the U. S. Department of Agriculture for fencing material for Brigham; Spec. 5452.

29—STREETS AND HIGHWAYS

ASOTIN COUNTY, Wash.—C. E. Martin, Seattle, Wash., at \$19,851.00 awarded contract by the Director of Highways, Olympia, Washington, for surfacing 9.4 miles of the Asotin-Oregon State Line Road, Anaton South, Unit 2 of the National Recovery Secondary Highway Project No. NRS 199-A in Asotin County.

Second low bidder was D. A. Sullivan & Co., Inc., and Materne Bros., Spokane, at \$21,754; third, E. H. Deatley & Co., Lewiston, Idaho, at \$23,682.

ASOTIN COUNTY, Wash.—D. A. Sullivan & Co., Inc., and Materne Bros., Spokane, Wash., at \$55,305 awarded contract by the Director of Highways, Olympia, Washington, for grading 2.8 miles of the Asotin-Oregon State Line Road, Anaton South Section 5, Unit 1 of the National Recovery Secondary Highway Project No. NRS 199-A, in Asotin County.

Other bids were Colonial Building Co., Spokane, at \$58,426; and F. H. Deatley & Co., Lewiston, Idaho, at \$61,814.

FERRY COUNTY, Wash.—Until December 8, 10 A. M., bids will be received by the U. S. Bureau of Public Roads, W. H. Lynch, District Engineer, 316 New Post Office Bldg., Portland, Oregon, for grading 3.329 miles of the Republic-Kettle Falls Project NR-20-B, National Forest Road Project, located within the Colville National Forest, County of Ferry, Wash., involving:

- (1) 26 acres clearing;
- (2) 18 acres grubbing;
- (3) 181,160 cu. yds. unclass. excav.;
- (4) 167,700 sta. yds. overhaul;
- (5) 3,329 mi. finish. earth graded road;
- (6) \$5 cu. yds. class A concrete;
- (7) 9500 lbs. reinf. steel;
- (8) 674 lin. ft. reinf. concrete pipe;
- (9) 618 lin. ft. culverts (Alt.);
- (10) All lump const. and maint. of detours;
- (11) 5 acres roadside cleanup;
- (12) 10,000 lin. ft. flatt. and round. cut slopes.

Plans and specifications obtainable from above office upon deposit of \$10.

TULARE CO., Cal.—Until Dec. 12, 2 P. M., bids will be received by C. H. Sweetser, Dist. Engr., Bureau Public Roads, 807 Sheldon Bldg., 461 Market St., San Francisco, for placing a bituminous treated crushed rock base course on Sections C1, C2, D1 and D2 of Route 1, the Generals Highway, Sequoia National Park, in Tulare Co., involving:

- (1) 7000 cu. yds. unclass. excav.;
- (2) 130 cu. yds. unclass. excav. for structures;
- (3) 9.287 miles fine grading subgrade and shoulders;
- (4) 1750 M. gals. watering;
- (5) 16,500 tons crushed rock for bott. layer of base course;
- (6) 11,100 tons cru. rock for top layer of base course;
- (7) 1000 tons suppl. crushed rock;
- (8) 27,000 gals. liquid asph. material—Type S. C.-1A in place;
- (9) 650 tons liquid asph. material—Type M.C.-5 in place;
- (10) 456 lin. ft. C.M.P. in place;
- (11) 100 cu. yds. crushed rock or gravel for backfill;
- (12) 1.80 M.F.B.M. redwood planking in place;
- (13) 7000 cu. yds. mi. haul unclass. excavation;

Plans and specifications from above office upon a deposit of \$10.

SAN FRANCISCO.—Eaton & Smith, 715 Ocean Ave., at \$794.17 awarded contract by Board of Public Works for surfacing Webster St. between Valjejo and Broadway.

OREGON STATE.—Until Dec. 7, 9 A. M., bids will be received by the Oregon State Highway Commission, R. H. Baldock, State Highway Engineer, Multnomah Hotel, Portland, for highway construction as follows:

Douglas County

Rice Hill Section of Pacific Highway National Recovery Project No. NRH 189-A, 1.06 miles portland cement concrete pavement and 0.12 mile crushed rock or gravel surfacing.

Douglas County

South Roseburg Section of Pacific Highway, National Recovery Project No. NRM 78-C, pavement widening, involving:

- (1) 1,100 lin. ft. concrete curbs;
- (2) 3,000 sq. yds. 7-in. Port. cement concrete pavement;
- (3) 140 tons asphaltic concrete.

Douglas County

Winston Bridge Section of Pacific Highway, National Recovery Project No. NRH 78-B, for 0.95 mile grading and paving, involving:

- (1) 43,000 cu. yds. embank. const.;
- (2) 11,200 sq. yds. Port. cem. concrete pavement.

Gilliam County

Arlington Section of Columbia River Highway, National Recovery Project No. NRM 44, involving:

- (1) 9,800 sq. yds. penetration type bit. macadam;
- (2) 2,300 lin. ft. conc. curb and gutter.

Plans and specifications obtainable at the office of the State Highway Commission, Room 322, State Office Bldg., Salem.

Gilliam County

Condon Section of John Day Highway, National Recovery Project No. NRM 114-A, involving approximately 15,500 sq. yds. penetration type bituminous macadam.

Harney County

Stinkingwater Mountain Section of Central Oregon Highway, National Recovery Project No. NRH 187-C and NRFLH-4-D, 3.76 miles grading, involving:

- (1) 153,900 cu. yds. excavation;
- (2) 3,800 cu. yds. roadbed topping.

Jackson County

North Ashland Section of the Pacific Highway, National Recovery Project No. NRM 190-B, pavement widening and resurfacing, involving:

- (1) 9,500 sq. yds. asphaltic concrete pavement;
- (2) 2,700 sq. yds. rock shoulders.

Jackson County

South Medford Section of the Pacific Highway, National Recovery Project No. NRM 157-A, pavement widening, involving:

- (1) 1,550 lin. ft. concrete curbs;
- (2) 6,400 sq. yds. Portland cement concrete pavement.

Josephine County

Grants Pass Section of the Pacific Highway, National Recovery Project No. NRM 131-E, pavement widening and resurfacing, involving 9,600 sq. yds. asphaltic concrete pavement.

Linn County

Sanderson Bridge Section of Albany-Lyons Secondary Highway, National Recovery Project No. NRS 223, for grading and surfacing 1.8 miles, involving:

- (1) 37,000 cu. yds. embank. const.;
- (2) 2,300 cu. yds. crushed gravel.

Malheur County

Ontario Sections of Old Oregon Trail National Recovery Project No. NRM 158-B, for 0.99 mile regrading, and 8,500 sq. yds. penetration type bituminous macadam, involving:

- (1) 3,500 cu. yds. excavation;
- (2) 4,500 cu. yds. pit run gravel topping;
- (3) 400 cu. yds. crushed gravel shoulders.

Washington County

Cummings Hill Section of Nehalem Secondary Highway, National Recovery Project No. NRS 213-C, 2.18 miles grading and surfacing, involving:

- (1) 60,000 cu. yds. excavation;
- (2) 6,600 cu. yds. crushed gravel or rock.

Plans and specifications obtainable at the office of the State Highway Commission, Room 322, State Office Bldg., Salem, upon deposit of \$5.00 for each set.

LOS ANGELES COUNTY, Cal.—Until December 20, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for grading and paving about 3.8 miles with Portland cement concrete and asphalt concrete, between Evergreen Avenue and Atlantic Blvd., in Los Angeles County, involving:

- (1) 201 sta. clear and grub right-of-way;
- (2) 270,000 cu. yds. rdwy. excav., unclass.;
- (3) 174,000 mi. yds. overhaul;
- (4) 165 tons asph. road oil seal coat;
- (5) 12,000 cu. yds. struc. excav.;
- (6) 83,000 sq. yds. subgrade for pave.
- (7) 8300 sq. yds. asph. paint binder;
- (8) 17,000 cu. yds. class A Port. cem. concrete pavement;
- (9) 1250 cu. yds. class A Port. cem. concrete structures;
- (10) 1200 cu. yds. class A Port. cem. conc. curbs and sidewalks;
- (11) 462,000 lbs. bar reinf. steel pave and structures;
- (12) 32,600 lbs. misc. iron and steel structures;
- (13) 3800 tons asph. concrete;
- (14) 2300 tons crushed gravel or stone bit. treated surface;
- (15) 130 tons cutback asphalt;
- (16) 220 lin. ft. 8-in. CMP;
- (17) 60 lin. ft. 12-in. CMP;
- (18) 880 lin. ft. 18-in. CMP;
- (19) 900 lin. ft. 24-in. CMP;
- (20) 1600 lin. ft. 36-in. CMP
- (21) 4 each spillway assemblies;
- (22) 300 cu. yds. conc. removed from exist. curbs, sidewalks, driveways and strucs. and disposed of
- (23) 3750 bbls. fuel oil;
- (24) 3.74 mi. prep. mix. and shaping shoulders;
- (25) 6800 M gals. water;
- (26) 0.6 mi. new property fence;
- (27) 4 each fence gates;
- (28) 700 lin. ft. solid timber guard rail;

- (29) 38 each timber culvert markers;
- (30) 170 each timber guide posts;
- (31) 12 each moving and resetting electrollovers;
- (32) 100 lin. ft. 8-in. sewer vitrified clay pipe;
- (33) 90 lin. ft. 8-in. cradled sewer vitrified clay pipe;
- (34) 105 lin. ft. 8-in. encased sewer vitrified clay pipe;
- (35) 3100 lin. ft. 6-in. vitrified clay pipe house connections;
- (36) 345 lin. ft. 6-in. vitrified clay pipe repl. 4-in. line and connection to 4-in. sewer at property line;
- (37) 2 drop manholes;
- (38) 20 lin. ft. extensions to brick sewer structures;
- (39) 18 sewer strucs. adj. to new grade;
- (40) 1 lot misc. items of work sewer;
- (41) 201 sta. finish roadway.

Plans and specifications obtainable from above office, and are on file at the office of the District Engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

PIERCE COUNTY, Wash.—Colonial Building Co., 326 1th St., Spokane, at \$91,533 (metal pipe) and \$91,656 (concrete pipe) submitted low bid to the U. S. Bureau of Public Roads, Portland, for grading 0.933 miles of Stevens Canyon Road, Project NR-4-C1, Mt. Rainier National Park, Pierce County, Washington. Complete bids follow:

Colonial Building Co., Spokane, \$91,533 (metal pipe); \$91,656 (concrete pipe).

Holmberg & Norman, Port Orchard, \$97,749; \$97,872.

Sam Orino, Spokane, \$98,707; \$90,989.

Myers & Goulter, Seattle, \$98,960; \$99,083.

Alec Besoloff, Seattle, \$113,674; \$113,965.

LOS ANGELES COUNTY, Cal.—P. J. Akmadzieh, 3028 Gilroy St., Los Angeles, at \$86,970 awarded contract by the State Highway Commission, Sacramento, for grading and paving with asphalt concrete about 1.6 miles between Sunland and Tujunga in Los Angeles County.

SNOHOMISH COUNTY, Wash.—J. D. Harms, 24 W Mercer, Seattle, at \$38,246 (metal pipe) and at \$38,372 (concrete pipe) submitted low bid to the U. S. Bureau of Public Roads, Portland, for grading the South Fork of the Stillaquamish Project NR-7-B, National Forest Road Project, Snoqualmie National Forest, Snohomish County, Wash. Complete bids, in order of metal pipe and concrete pipe, follow:

J. D. Harms, Seattle, \$38,246; \$38,372. Fiorito, Northwest Const. Co., Seattle, \$39,219; \$39,244.

Halleran Bros., Seattle, \$39,258; \$39,309.

Doolittle Bros. & Cowan & Hubbard, Woodenville, Wash., \$51,487; \$51,777.

L. Ramano Engr. Corp., Seattle, \$52,442; \$52,568.

Alec Besoloff, Seattle, \$57,704; \$57,704.

MONTEREY COUNTY, Cal.—S. Westcott Plumbing & Electrical Co., Soledad, Calif., at \$2497 awarded contract by the State Highway Commission, Division of Highways, District V, San Luis Obispo, for constructing 7.2 miles of property fence in Monterey County, between Gonzales and Soledad.

ALAMEDA COUNTY, Calif.—Until December 15, at 3 P. M., bids will be received by the San Francisco Public Utilities Commission, Room 287, City Hall, for constructing a 44-in. diameter welded steel pipeline from Calaveras Dam, about 8½ miles southerly from the town of Sunol, Alameda Co., to the Alameda Creek Siphon, on the Hetch Hetchy Aqueduct, a distance of approximately 30,000 ft. Estimated cost, \$350,000.

The pipe to be used for the construction of this line is to be obtained by removing as much of the 44-in. portion of the existing Newark-San Lorenzo Pipe Line as will be required.

The work includes, also, the construction of an 8-foot diameter horse-shoe shaped concrete lined tunnel, trestle bents and piers to support the pipe above ground and across creeks, structures appurtenant to the pipe line and certain permanent roads.

The Calaveras Pipe Line will be approximately 30,000 ft. long, of which a section about 1000 ft. long will consist of a double line of 44-in. pipes, making a total of approximately 31,000 ft. of pipe line required to be installed. Approximately 27,000 ft. of the line will be in trench and 3,000 ft. on piers. The balance, or approximately 1,000 ft., will be either in tunnel or on piers and trestle bents, depending upon whether the line is constructed under Proposition A, B or C.

Pipe above ground and across creeks will be supported on trestles, consisting of concrete piles, concrete piers, steel trestle bents or a combination of these.

During the periods of low stream flow in the Calaveras Creek, a maximum of 90 million gallons of water will be released daily from Calaveras reservoir for San Francisco's water requirements. The trestle bents which have to be constructed under water will be supported on cast in place concrete piles.

In order to make the pipe line accessible for construction and maintenance, the excavation for certain permanent roads is to be done under this contract.

The Newark-San Lorenzo Pipe Line, from which the pipe is to be obtained, extends from Newark, about 13 miles in a northerly direction to San Lorenzo, all in Alameda County. The southerly 34,720 ft. of this line is constructed of 44x½-in. pipe, the balance being 36x¼-in. pipe. Of the 44-inch pipe, there is approximately 30,150 ft. which is laid on ground, 11,180 ft. laid on blocking and timber trestles, and 3,390 ft. buried under road crossings, spur tracks and other places.

The pipe to be removed, in addition to that required for the construction

of the Calaveras Pipe Line, shall include approximately 1200 ft. of 44-in. pipe and 600 ft. of 36-in. pipe, which are to be delivered either to the San Francisco Water Department's corporation yard at Sunol, or to the Alameda Creek Portals of the Hetch Hetchy Aqueduct. All timber trestle and wooden blocking are to be removed from the portion of the Newark-San Lorenzo Pipe Line which is to be dismantled, appurtenances other than manholes are to be removed and all trenches remaining after removing buried sections of pipe, shall be back-filled.

Alternate tunnel locations are provided for in three separate propositions, as follows:

(Proposition A): A tunnel approximately 1,060 feet long and on a grade of 6.7%.

(Proposition B): A tunnel approximately 520 feet long and on a grade of 7.9%.

(Proposition C): A tunnel approximately 450 feet long and on a grade of 0.9%.

Item	Estimated Quantities Follow:			
	Unit	(A)	(B)	(C)
(1) removing and relaying portions of existing 44-in. pipe, not buried:				
(a) removing & relaying in trench.....	lin. ft.	27,100	27,000	27,050
(b) removing & relaying on trestle, bents or piers	lin. ft.	3,000	3,500	3,600
(c) removing & relaying in tunnel.....	lin. ft.	1,060	520	450
(2) removing buried portion of existing 44-in. pipe	lin. ft.	1,200	1,200	1,200
(3) removing portions of 36-in. pipe not buried	lin. ft.	600	600	600
(4) furnish and install pipe specials,	bevelled			
(a) elbows	courses	455	450	455
(b) other specials	lin. ft.	70	70	70
(5) removing valves and fittings from existing line:				
(a) misc. fittings and valves 8-in. or smaller	pound	16,000	16,000	16,000
(b) valves, tapers and flanges larger than 8-in.	pound	28,000	28,000	28,000
(6) installing fittings, valves & Venturi meter furnished by city or removed from existing line:				
(a) misc. fittings and valves 8-in. or smaller	pound	12,000	12,000	12,000
(b) valves larger than 8-in. and Venturi meter tapers & flanges..	pound	32,000	32,000	32,000
(c) furnish and install cast steel saddles, nozzles and flanges.....	pound	3,200	3,200	3,200
(d) furnish & install 6-in. gate valves	each	5	5	5
(9) furnish & install 8-in. gate valves	each	5	5	5
(10) furnish & install 6-in. vac. valves	each	5	5	5
(11) furnish & install air release valv.	each	15	15	15
(12) furnish & install misc. metal work:				
(a) cast iron pipe and fittings.....	pound	15,000	15,000	15,000
(b) wrought iron & misc. pipe and fittings	pound	5,000	5,000	5,000
(c) galv. corrugated culverts.....	pound	2,000	2,000	2,000
(d) reinf. plates, stiffeners and miscellaneous steel work	pound	4,000	4,000	4,000
(13) trench & misc. excavation:				
(a) earth and gravel	cu. yds.	45,000	45,000	45,000
(b) rock	cu. yds.	1,000	1,500	1,500
(14) screenings material for backfill.....	l. f. trench	9,000	9,000	9,000
(15) hauling material for backfill.....	l. f. trench	8,000	8,000	8,000
(16) concrete: (a) Class A.....	cu. yd.	320	350	360
(b) Class B	cu. yd.	100	100	100
(17) reinforcing steel in place.....	pound	28,000	31,000	32,000
(18) tunnel excavation	cu. yd.	3,500	1,700	1,400
(19) tunnel lining	cu. yd.	2,000	1,000	900
(20) cast - in - place concrete piles for pier footings	lin. ft.	400	400	400
(21) grouting under pier footings.....	sacks cem.	1,000	1,000	1,000
(22) furnish & install structural steel trestle bents	pound	110,000	160,000	160,000
(23) excav. for permanent roads:				
(a) earth and gravel.....	cu. yd.	3,500	3,500	3,500
(b) rock	cu. yd.	500	500	500
(24) transporting mtl. for road fills.....	cu. yd.	400	400	400
(25) construct road 26+00 to 34+00	lin. ft.	800	800	800
(26) Misc. timber structures:				
(a) Douglas fir	M.E.M.	20	20	20
(b) Redwood	M.E.M.	8	8	8

Specification W.D. 45 and drawings obtainable from Felton Taylor, Secretary, San Francisco Water Dept., 425 Mason St., San Francisco. E. G. Cahill, Manager Public Utilities.



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UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

LAKE COUNTY — GRADE AND SURFACE — (STATE)

LAKE COUNTY, Cal.—Fredrickson & Watson, 873 81st Ave., Oakland, at \$122,397.70 submitted low bid to State Highway Commission, Sacramento, for grading and surfacing with crusher run base & bituminous treated crushed gravel or stone surfacing about 4.6 miles in Lake County, involving:

- (1) 33 acres clear and grub right of way;
- (2) 141,600 cu. yds. rdwy. excav., unclassified;
- (3) 740,900 sta. yds. overhaul;
- (4) 7,900 cy. yds. imported borrow;
- (5) 2,310 cu. yds. struc. excav.;
- (6) 18,550 tons crusher run base;
- (7) 10,570 tons crushed gravel or stone bit. treated surfacing;
- (8) 565 tons cut-back asphalt;
- (9) 550 bbls. light fuel oil;
- (10) 4,560 tons untreated crush. stone or gravel surf.;
- (11) 420 tons screenings;
- (12) 390 M. gals. water;
- (13) 150 cu. yds. Class A Port. cem. conc. struc.;
- (14) 26 cu. yds. Class B do, footings and deadmen;
- (15) 4,000 lbs. bar reinf. steel struc.;
- (16) 80 lin. ft. 8-in. CMP;
- (17) 1,84½ lin. ft. 18-in. do;
- (18) 350 lin. ft. 24-in. do;
- (19) 80 lin. ft. 36-in. do;
- (20) 52 lin. ft. 48-in. do;
- (21) 38 lin. ft. 60-in. do;

- (22) 500 lin. ft. 8-in. perf. metal pipe underdrains;
 - (23) 32 lin. ft. CMP clean and relay;
 - (24) 5 each spillway assemblies CIP;
 - (25) 220 each timber guide posts and culvert markers CIP;
 - (26) 24 MFBM dense select all-heart struc. grade redwood timber;
 - (27) 24 MFBM select all-heart struc. redwood timber;
 - (28) 5.0 mi. new property fence, type A;
 - (29) 2.0 miles do, type B;
 - (30) 16 each gates CIP;
 - (31) 244 sta. yds. finish rdwy.;
 - (32) 65 each monuments CIP.
- Complete bids follow:
- (A) Fredrickson & Watson, 873 81st Ave., Oakland, \$122,397.70.
 - (B) Hemstreet and Bell, Marysville. \$130,066.69.
 - (C) Peninsula Paving Co., San Francisco, \$137,158.50.
 - (D) Hanrahan Co., San Francisco, \$138,934.00.
 - (E) Larsen Bros. & Heim Bros. Basalt Rock Co., Sacramento, \$146,347.42.
 - (F) Von Der Hellen & Pierson, Castaic, \$147,555.50.
 - (G) A. Teichert & Son, Sacramento, \$148,242.90.
 - (H) Heafey-Moore Co., Oakland, \$149,482.50.
 - (I) Eaton & Smith and A. J. Grier, Oakland, \$154,342.00.
- Unit prices follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
	\$ 60.00	\$ 75.00	\$ 90.00	\$ 90.00	\$100.00	\$ 50.00	\$150.00	\$100.00	\$ 80.00
(1).....	.29	.33	.26	.32	.34	.395	.35	.365	.35
(2).....	.003	.005	.015	.005	.005	.005	.005	.005	.005
(3).....	.38	.25	.50	.40	.50	.30	.40	.50	.40
(4).....	1.00	.75	1.00	.85	.90	1.25	1.00	1.25	1.00
(5).....	1.00	1.13	1.48	1.45	1.39	1.20	1.37	1.35	1.59
(6).....	1.60	1.48	1.60	1.65	1.98	1.70	1.50	1.60	1.80
(7).....	22.00	18.00	18.00	20.00	19.50	20.00	20.00	19.00	20.00
(8).....	2.00	2.25	2.00	2.25	2.00	2.25	2.10	2.50	2.00
(9).....	.85	1.15	.85	1.15	1.10	1.20	1.40	1.55	1.60
(10).....	1.20	3.00	1.00	1.65	1.90	2.00	3.00	2.50	3.00
(11).....	1.20	1.25	1.50	1.00	1.50	2.00	2.00	2.50	2.00
(12).....	17.00	20.00	18.00	18.50	22.00	25.00	25.00	22.00	20.00
(13).....	17.00	20.00	16.50	17.00	22.00	20.00	20.00	20.00	15.00
(14).....	.05	.05	.05	.06	.06	.06	.05	.06	.06
(15).....	1.00	.90	1.00	.80	.90	1.00	1.20	1.00	1.00
(16).....	1.50	1.50	2.00	1.50	1.87	1.50	1.75	1.75	2.00
(17).....	2.30	2.50	2.75	2.20	2.72	2.50	2.50	2.50	3.00
(18).....	5.50	4.75	5.00	4.50	4.80	4.50	5.00	5.00	5.00
(19).....	7.50	8.50	9.00	7.50	8.26	8.00	9.00	8.00	8.00
(20).....	13.00	14.00	14.00	12.00	12.00	10.00	12.00	12.00	11.00
(21).....	1.30	1.35	1.25	1.00	.90	1.25	2.00	1.25	1.00
(22).....	.35	.75	.75	.50	.50	.50	.50	1.00	1.00
(23).....	15.00	13.50	13.00	12.00	14.00	20.00	12.00	10.00	12.00
(24).....	2.50	2.00	1.50	1.80	1.25	2.50	2.50	2.50	3.00
(25).....	86.00	85.00	85.00	90.00	90.00	100.00	100.00	100.00	100.00
(26).....	80.00	85.00	81.00	80.00	80.00	95.00	95.00	100.00	100.00
(27).....	450.00	425.00	500.00	550.00	500.00	600.00	500.00	500.00	750.00
(28).....	375.00	300.00	400.00	430.00	500.00	550.00	450.00	500.00	750.00
(29).....	18.00	15.00	20.00	20.00	18.00	20.00	20.00	20.00	20.00
(30).....	4.50	5.00	5.00	5.00	5.00	5.00	6.00	5.00	5.00
(31).....	2.50	3.00	2.50	2.50	3.00	3.00	3.00	3.00	3.06
(32).....									

LOS ANGELES, Cal.—Bids for furnishing treated poles by rail to Glendale, under Request No. MJP-133, were opened by the U. S. Forest Service, Los Angeles, November 27. Bids were taken as follows:

- (1) 150 poles, 20 ft., fully treated as per specifications, 4-in. to 5-in. diameter at to;
- (2) 50 poles, 25 ft., fully treated, 5-in. to 6-in. in diameter at top;
- (3) 25 poles, 30 ft., fully treated, 5-in to 6-in. diameter at top.

The bids were:

- (A) *H. A. Browning Lumber Co.
- (B) Texas Creosoting Co.
- (C) Bank Line Lumber Co.

- (D) Graybar Electric Co.
 - (E) J. H. Baxter & Co.
 - (F) Pan-Pacific Piling & Constr. Co.
- | | (1) | (2) | (3) | Total |
|-----------|--------|--------|--------|-----------|
| (A) | \$2.40 | \$4.37 | \$5.57 | \$ 717.75 |
| (B) | 2.45 | 4.30 | 5.47 | 719.25 |
| (C) | 2.46 | 4.32 | 5.48 | 722.00 |
| (D) | 2.38 | 4.45 | 5.71 | 722.25 |
| (E) | 4.65 | 5.06 | 7.10 | 1127.50 |
| (F) | 4.90 | 6.63 | 8.10 | 1269.00 |
- *Minimum carload, 60,000 lbs.

SOLANO COUNTY, Cal.—Bids were returned unopened by the State Highway Commission, Sacramento, for grading and paving with asphalt concrete about 3.3 miles between 4.2 miles

north of Fairfield and 0.6 miles south of Vacaville in Solano County. State Director of Public Works Earl Lee Kelly announced that the bids would not be opened because of a suit filed by W. L. Landsborough of Bakersfield to test the validity of the recently enacted state law to require alternate bids on asphalt and cement concrete paving. The contract involved the following items:

- (1) 2,413 each trees to be removed & disposed of;
- (2) 76,000 cu. yds. rdwy. excav., unclassified;
- (3) 170,000 sta. yds. overhaul;
- (4) 43,500 cu. yds. imported borrow;
- (5) 2,230 cu. yds. struc. excav.;
- (6) 35,440 sq. yds. subgrade for pave.
- (7) 500 sq. yds. asph. paint binder;
- (8) 15,010 tons asph. concrete;
- (9) 1,108 lin. ft. 18-in. CMP;
- (10) 63 lin. ft. 24-in. do;
- (11) 252 lin. ft. 30-in. do;
- (12) 248 lin. ft. 36-in. CMP close riveted and soldered;
- (13) 94 lin. ft. 66-in. CMP;
- (14) 312 lin. ft. 84-in. CMP;
- (15) 42 lin. ft. salvaging exist. culverts
- (16) 40 lin. ft. CMP clean and relay;
- (17) 1 only cast steel frame and cover for drop inlet;
- (18) 616 cu. yds. Class A port. cem. conc. struc.;
- (19) 59,600 lbs. bar reinf. steel struc.;
- (20) 520 cu. yds. salvaged mac. base;
- (21) 200 tons untreated crushed gravel or stone surf.;
- (22) 230 tons crushed gravel or stone bit. treated surfacing;
- (23) 12 tons cutback asphalt;
- (24) 1,030 bbls. heavy fuel oil;
- (25) 319 sta. mix fuel oil and earth shoulders;
- (26) 420 cu. yds. remove and dispose of conc. in existing pave. & struc.;
- (27) 2 each culvert headwalls to be removed and reset;
- (28) 0.1 mile remove and reset exist. property fences;
- (29) 1.0 mile new property fence;
- (30) 7 each fence gates;
- (31) 16 each conc. joint pipe culvert;
- (32) 2,000 M. gals. water;
- (33) remove and dispose of exis. conc. bridge;
- (34) 732 lin. ft. furnish steel piles, including test piles;
- (35) 28 each drive steel piles including test piles;
- (36) 7 cu. yds. Class A port. cem. concrete bridge railing;
- (37) 516 lbs. bronze expansion plates;
- (38) 176 sta. finish roadway;
- (39) 68 each monuments complete in place.

SACRAMENTO, Cal. — Lord & Bishop, Native Sons Bldg., Sacramento, at \$34,875 (\$2.75 per ton) submitted low bid to the U. S. Engineer Office, Sacramento, for furnishing and placing 12,500 tons of rip-rap stone along the banks of the Sacramento River in the vicinity of Knights Landing. Specification No. 5808. Complete bids follow:
 Lord & Bishop, Sacramento, \$2.75 per ton; total \$34,875.
 Daniel Contracting Co., San Francisco, \$3.55 per ton; total, \$44,375.
 Poulous & McEwen, Sacramento, partial delivery, \$3.65 per ton; \$5575.
 Partial delivery, \$3.65 per ton; total, \$18,250.
 Government Estimate, \$3.83 per ton; total, \$47,923.

SANTA CRUZ COUNTY—GRADE & SURF.—(STATE)

- SANTA CRUZ COUNTY, Cal.—
 Union Paving Co., 624 Call Bldg., San Francisco, at \$43,620.60 submitted low bid to State Highway Commission, Sacramento, for grading and surfacing with crusher run base and bituminous surfacing about 0.6 miles between the north city limits and Ocean St. in Santa Cruz, involving:
 (1) Clear and grub right-of-way;
 (2) 52,500 cu. yds. rdwy. excav. un-class.;
 (3) 197,000 sta. yds. overhaul;
 (4) 510 M. gals. water;
 (5) 2110 cu. yds. struc. excav.;
 (6) 167 cu. yds. Class A Port. cement concrete struc.;
 (7) 15 cu. yds. Class A Port. cement conc. curbs and gutters;
 (8) 14,200 lbs. bar reinf. steel struc.;
 (9) 5800 tons crusher run base;
 (10) 17 tons emuls. asph. road oil;
 (11) 1290 tons natural rock asphalt;
 (12) 300 bbls. fuel oil;
 (13) 0.64 mile mix oil and shoulders material;
 (14) 160 lin. ft. 8-in. CMP.;
 (15) 1310 lin. ft. 12-in. CMP.;
 (16) 786 lin. ft. 18-in. CMP.;
 (17) 26 lin. ft. 24-in. CMP.;
 (18) 140 lin. ft. 72-in. CMP.;
 (19) 5 each spillway assemblies complete in place;

- (20) 50 cu. yds. concrete removed from exist. pavement, curbs, sidewalks and structures;
 (21) 45 cu. yds. rubble masonry walls and slope paving;
 (22) 0.56 M.F.B.M. redwood timber dense select, allheart structural grade;
 (23) 2.32 M.F.B.M. redwood timber select, allheart structural grade;
 (24) 1 only special catchbasin;
 (25) 0.43 mile new property fence;
 (26) 2 each gates complete in place;
 (27) 8 each culverts markers;
 (28) 34 stations finish roadway;
 (29) 24 each monuments, complete in place.
 Complete bids follow:
 (A) Union Paving Co., San Francisco, \$43,620.60.
 (B) Granite Constr. Co., Watsonville, \$43,929.20.
 (C) J. L. Connor and K. Kristich, Monterey, \$45,982.82
 (D) Willard & Biasotti, Stockton, \$48,976.90.
 (E) Mitty Bros., Los Angeles, \$50,312.30.
 (F) Kennedy Constr. Co., Oakland, \$54,373.90.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)
(1).....	\$50.00	\$500.00	\$200.00	\$100.00	\$1850.00	\$1000.00
(2).....	.25	.23	.25	.26	.29	.30
(3).....	.01	.005	.005	.01	.01	.01
(4).....	.50	1.30	.50	2.00	.50	1.00
(5).....	.50	.85	.75	1.00	.50	1.00
(6).....	14.00	16.50	15.00	15.00	14.00	25.00
(7).....	12.00	20.00	15.00	16.00	20.00	15.00
(8).....	.04	.05	.06	.05	.05	.06
(9).....	1.50	1.79	2.00	2.10	2.25	2.15
(10).....	18.00	24.00	25.00	25.00	25.00	20.00
(11).....	5.50	4.80	5.00	5.00	3.50	5.00
(12).....	2.00	1.90	2.00	3.25	1.50	2.50
(13).....	100.00	400.00	400.00	400.00	300.00	400.00
(14).....	1.50	.85	.97	1.05	1.00	1.00
(15).....	2.00	1.10	1.39	1.15	1.60	1.35
(16).....	2.20	1.60	1.74	1.50	2.00	1.80
(17).....	2.50	2.50	2.33	1.50	2.85	2.60
(18).....	12.00	15.50	15.00	15.00	13.10	17.00
(19).....	10.00	13.00	15.00	16.00	12.50	15.00
(20).....	2.00	2.00	2.00	3.50	1.00	2.00
(21).....	5.00	7.00	10.00	5.00	9.50	15.00
(22).....	80.00	90.00	100.00	125.00	70.00	100.00
(23).....	80.00	85.00	75.00	120.00	75.00	100.00
(24).....	60.00	60.00	50.00	65.00	200.00	100.00
(25).....	300.00	400.00	500.00	500.00	400.00	500.00
(26).....	12.00	15.00	20.00	15.00	16.00	15.00
(27).....	1.50	2.00	2.00	2.00	1.50	2.50
(28).....	3.00	6.00	5.00	5.00	28.00	5.00
(29).....	2.00	2.50	3.00	2.50	5.00	3.00

KERN COUNTY — BRIDGES — (STATE)

- KERN COUNTY, Cal.—Parish Bros. 1222 N Grower St., Hollywood, at \$26,344 submitted low bid to State Highway Commission, Sacramento, to construct 6 timber bridges between junction with Route 140 and junction with Route 58, having a total length of approximately 494 ft, involving:
 (1) 1 lot exist. timber bridges to be removed and disposed of;
 (2) 500 cu. yds. struc. excav.;
 (3) 6,400 lin. ft. furnish redwood piles, including test piles;
 (4) 248 each driving redwood piles, including test piles;
 (5) 188 MFBM redwood timber dense select all-heart struc. grade;
 (6) 42 MFBM redwood timber sel. all heart struc. grade;
 (7) 1 lot misc. items of work.

- Complete bids follow:
 (A) Parish Bros., Los Angeles, \$26,344.00.
 (B) R. R. Bishop, Long Beach, \$27,438.00.
 (C) F. D. Bohnett, Campbell, \$27,826.
 (D) Byerts & Dunn, Los Angeles, \$28,451.00.
 (E) M. B. McGowan, San Francisco, \$28,551.00.
 (F) Macco Const. Co., Clearwater, \$28,705.00.
 (G) Geo. K. Thompson, Los Angeles, \$29,215.26.
 (H) Alfred H. Vogt Co., San Francisco, \$31,400.00.
 (I) C. Bongiovanni Const. Co., Hollywood, \$32,590.00.

Unit prices follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
(1).....	\$350.00	\$750.00	\$1250.00	\$1000.00	\$1000.00	\$1700.00	\$1200.00	\$ 750.00	\$ 500.00
(2).....	1.00	.90	1.00	1.00	.60	.60	1.00	1.50	.80
(3).....	.44	.49	.60	.50	.43	.47	.60	.45	.54
(4).....	16.00	12.00	14.00	16.00	14.00	17.00	20.00	16.00	14.00
(5).....	78.10	85.00	75.00	83.00	90.00	83.00	80.00	94.00	94.00
(6).....	78.10	77.00	75.00	80.00	87.00	80.00	77.00	92.00	90.00
(7).....	731.60	900.00	1500.00	803.00	439.00	500.00	421.26	1500.00	3296.00

ENGINEERING NEWS

(Continued from Page 25)

- SAN BERNARDINO CO., Cal.—Until December 20, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for grading and paving with asphalt concrete, about 2.1 miles between Pomona and Ontario, in San Bernardino County, involving:
 (1) 113 sta. clear and grub right of way;
 (2) 35 each move and replant palm trees;
 (3) 2,100 cu. yds. rdwy. excav. un-classified;
 (4) 7,000 cu. yds. imported borrow;
 (5) 1,690 cu. yds. struc. excav.;
 (6) 8,000 sq. yds. subgrade for pave.;
 (7) 32,000 sq. yds. asph. paint binder
 (8) 13,250 tons asph. concrete;
 (9) 356 cu. yds. Class A Port. cement conc. structures;
 (10) 3 cu. yds. Class A Port. cement concrete railing;
 (11) 43,000 lbs. bar reinf. steel struc.;
 (12) 178 lin. ft. 24-in. CMP;
 (13) 6 lin. ft. 30-in. CMP;
 (14) 138 lin. ft. 36-in. CMP;
 (15) 62 lin. ft. CMP clean and relay;
 (16) 980 bbls. heavy fuel oil;
 (17) 2.1 miles mix fuel oil and shoulder material;
 (18) 22 tons asph. road oil;
 (19) 170 tons screenings;
 (20) 171 cu. yds. conc. removed from exist. pave. and struc. and disposed of;
 (21) 142 lin. ft. temporary timber guard rail and wheel guards;
 (22) 113 sta. finish roadway;
 (23) 40 each monuments, complete in place.
 Plans and specifications obtainable at above office, and are on file at the offices of the District Engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

- STANISLAUS COUNTY, Cal.—Until December 20, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for paving with asphalt concrete, about 1.3 miles at Modesto, in Stanislaus County, involving:
 (1) 50 each trees to be removed and disposed of;
 (2) 1,095 cu. yds. remove and dispose if exist. curbs, gutters and pave.
 (3) 19,400 sq. yds. grade and subgrade preparation for pave., curbs, and pavement approaches;
 (4) 1,580 cu. yds. Class A Port. cem. conc. curbs, gutters and pave. approaches;
 (5) 35,800 sq. yds. asph. paint binder;
 (6) 3,900 tons asphalt concrete.

- Plans and specifications obtainable at above office, and are on file at the offices of the District Engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

\$38.

- SAN JOAQUIN COUNTY, Cal.—Tiffany Construction Co., 535 N. 7th St., San Jose, at \$76,851.25 awarded contract by the State Highway Commission, Sacramento, for grading and surfacing with bituminous treated crushed gravel and stone about 4.5 miles between Lodi and 4.5 miles east of Lodi, in San Joaquin County.

- SANTA CLARA COUNTY, Cal.—A. J. Raisch, Burrell Bldg., San Jose, at \$8437 awarded contract by the Santa Clara Board of Supervisors, San Jose, for resurfacing Lincoln Ave. in Willow Glen. Union Paving Co., San Francisco, at \$8976 only other bidder.

(Continued on Page 29)

ENGINEERING NEWS

(Continued from Page 28)

ARIZONA STATE—Until Dec. 13, 1934, A. M., bids will be received by Arizona State Highway Commission, T. S. O'Connell, Engineer, Phoenix, for highway construction on the Ashfork-Kingman Highway (NRH 80-G; AFE 6626). The work, which begins at Kingman and extends northeasterly approximately 23.6 miles to within two miles of the town of Hackberry, consists of the grading and draining and placing of base course and is to be completed on or before Oct. 31, 1934. The principal items are:

- (1) 250,000 cu. yds. grading;
- (2) 4,800 cu. yds. structural excav.;
- (3) 15,100 lin. ft. grader ditches;
- (4) 30,400 cu. yds. aggregate base course;
- (5) 87,300 cu. yd. mi. do. haul;
- (6) 3,400 cu. yds. concrete;
- (7) 320,000 lbs. reinf. steel;
- (8) 5,846 lin. ft. CMP various sizes;
- (9) 1,820 lin. ft. of cable or steel plate road guard;
- (10) 136,400 lin. ft. stand. line fence;
- (11) miscellaneous items.

Plans and specifications obtainable from above office.

SAN BERNARDINO COUNTY, Cal.—United Concrete Pipe Corp., Box 1, Station H, Los Angeles, at \$23,884.78 awarded contract by the State Highway Commission, Sacramento, for grading and paving with Portland cement concrete about 0.4 miles bet. the west city limits and Mount Vernon Ave. in San Bernardino County.

SAN FRANCISCO—Bids received by the Constructing Quartermaster, Ft. Mason, for grading and constructing concrete roads with curbs in parking area in rear of Bldg. No. 220; binding coat in rear of old area of main buildings; section of parade grounds to be plowed and rolled and furnished with lawn sprinkler system at the Presidio, have been rejected.

ARIZONA STATE.—New Mexico Const. Co., Albuquerque, at \$198,630 awarded contract by the Arizona State Highway Commission, Phoenix, for constructing Flagstaff-Fredonia Highway Project NRH 95-C. The bid on the alternate was \$199,245.11.

LEWIS COUNTY, Wash.—Sam Orino Spokane, at \$135,355 submitted low bid to W. H. Lynch, District Engineer, U. S. Bureau of Public Roads, Portland, for grading 2.3909 miles of the Stevens Canyon Project, located within Mount Rainier National Park, Lewis County. The concrete pipe bid was \$135,655.

Other bids were:
Colonial Bldg. Co., Spokane, (metal pipe) \$147,822; (concrete pipe) alt. \$147,972.

J. D. Harms, Seattle, \$148,663; \$148,888.

Meyers & Goulter, Seattle, \$174,875; \$174,875.

Halleran Bros. & Coyle, Seattle, incomplete.

SAN DIEGO, Cal.—Until Dec. 7, 1934, A. M., bids will be received by Capt. DeWitt C. Webb, Public Works Officer, Headquarters, 11th Naval Dist., foot of Broadway, San Diego, under Spec. 7572, for improvement of landing field (oiling Area K) at the Naval Operating Base (Air Station), San Diego. The work will consist of treating an area indicated as "Area K" (approximately 58,300 sq. yds.) by grading, loosening of the soil, oiling, mixing and compacting to form an additional airplane runway.

Plans and specifications obtainable from the above office upon deposit of \$1.00.

HOSPITAL AND BARRACKS — HAMILTON FIELD

HAMILTON FIELD, Marin Co., Cal.—Leo Epp, 4745 Geary St., San Francisco, at \$109,377 submitted low bid to Constructing Quartermaster, Hamilton Field, to construct hospital and detachment barracks building at Hamilton Field. Work involves:

Excavating, filling, grading, concrete and cement finish, cast stone, waterproofing and dampproofing, brick and building tile, miscellaneous iron and steel, insect screens and steel window and door frames, copper screen cloth, mission tile roof, built-up roof over concrete slabs, metal lath, plaster ceilings and walls, acoustic plaster, stucco, marble thresholds, quarry tile in lobby, ceramic tile floors, terrazzo, asphalt tile and cork floors, linoleum, dumbwaiter, window and door shades, finishing hardware, painting, glazing, plumbing, fixtures, hot water storage tank, chilled water system, pressure instrument sterilizers, water sterilizers and stills, utensil sterilizers, fire protection, gas fitting, gas-fired gravity hot water heating system, electrical wiring and fixtures, nurses' call system, radio system, storage battery, emergency lighting system.

- Total bids follow:
- (A) Leo Epp, San Francisco, \$109,377.
 - (B) William Spivock, San Francisco, \$114,530.
 - (C) Young & Horstmeier, San Francisco, \$114,700.
 - (D) San Francisco Constr. Co., San Francisco, \$119,900.
 - (E) Schuler & McDonald, Oakland, \$124,790.

Complete bids with unit prices follow:

- (1) Job complete;
- (2) If ornamental cast stone grilles shown in arches or portecochere, iron gates shown in garden walls of two rear courts and ornamental tile panels under windows and enclosing garden walls around two rear courts are

(1).....	\$109,377.00	\$114,530.00	\$114,700.00	\$119,900.00	\$124,790.00
(2).....	700.00	1,600.00	700.00	1,780.00	600.00
(3).....	90.00	100.00	200.00	50.00	220.00
(4).....	390.00	400.00	700.00	100.00	350.00
(5).....	1,400.00	1,900.00	1,800.00	1,000.00	600.00
(6).....	1,400.00	900.00	1,700.00	450.00	71.00
(7).....	3,800.00	2,100.00	5,000.00	4,700.00	400.00
(8).....	150.00	160.00	200.00	200.00	65.00
(9).....	420.00	650.00	700.00	728.00	700.00
(10).....	1.00	1.00	1.00	1.00	1.50
(11).....	14.00	16.00	15.00	14.00	14.50
(12).....	15.00	16.50	16.00	16.00	15.00
(13).....	70.00	77.50	80.00	80.00	80.00
(14).....	.17	.20	.25	.18	.18
(15).....	.34	.40	.45	.36	.35

omitted, deduct.

- (3) If all the partitions shown in basement of Detachment Barracks section, except around boiler room and morgue are omitted, deduct.
- (4) If all asphalt tile floors and terrazzo base and border is omitted and in lieu is installed glazed falcote tile base and 3/16-inch battleship linoleum, deduct.
- (5) If all tile wainscoting in corridors is omitted and in lieu is installed Keenes cement colored plaster and 6-in. high cement base, deduct.
- (6) If all floor finished (except that indicated in prophylaxis dressings No. 24, dressings No. 217 sterilizer, operating and scrub-up rooms and toilets) are omitted and in lieu is installed an applied cement finish, deduct.
- (7) If all sterilizers except main battery in sterilizer room are omitted and only roughing in of piping and electrical connections installed, deduct.
- (8) If electric panel board is omitted and in lieu is installed a type N.A.E. 30 amp. heavy duty, dead front, safety type panelboard having 30 amp. toggle switches and branch fuses, with lugs only in mains, deduct.
- (9) If thickness of all exterior basement walls is reduced from 14-in. to 12-in. and all thickness of exterior concrete walls above water table is reduced from 12-in. to 10-in. and pipe chases are furred out with lath and plaster, deduct.
- (10) Excavation, per cu. yd.
- (11) Concrete, Type "A" including forms, per cu. yd.
- (12) Concrete, Type "B" including forms, per cu. yd.
- (13) Reinforcing steel, per ton.
- (14) 4-in. partition tile, per sq. ft.
- (15) 8-in. partition tile, per sq. ft.

PALO ALTO — SEWAGE PLANT — (CITY)

PALO ALTO, Santa Clara Co., Cal.—Following bids received by the Palo Alto City Council for construction of a sewage disposal system, involving: TRENCHING, LAYING AND BACK-FILLING

- (1) 763 lin. ft. 8-in. vitrified pipe;
- (2) 600 lin. ft. 10-in. do;
- (3) 7422 lin. ft. 12-in. do;
- (4) 1067 lin. ft. 14-in. dq;
- (5) 6450 lin. ft. 15-in. do;
- (6) 886 lin. ft. 20-in. do;
- (7) 2420 lin. ft. 21-in. do;
- (8) 2709 lin. ft. 27-in. do;
- (9) Construct 34 Type "S" standard manholes;
- (10) Construct 7 Type "P" manholes;
- (11) Construct 1 Special manhole at Arroyo Road and Embarcadero Road;
- (12) 4600 lin. ft. 22-in. wood stave pipe outfall sewer, including trenching, backfilling, hauling, construction of pile bents and dredging;
- (13) Construct pump house, heating plant, gas controller, sedimentation tank, screening chamber, sludge digestion tank including the furnishing of all machinery,

piping and appurtenances complete as per specifications;

- (14) Furnishing and installing one 16-in x 10 1/2-in. Herschell Standard Venturi Tube with one 40-in. Chronoflo mercury unit with register and recorder, add. This tube would be installed in the 16-in. cast iron effluent line from the sedimentation tank, and the recorder would be located in the Heating Plant.
- (15) Furnishing and installing one Link Belt Company's Type C Combination Grit Chamber and bar screen mechanism in place of the bar screen and davit hoisting mechanism as shown on plans.
- (16) Alt. for constructing one digester as per specifications.

J. F. Byxbee, City Engineer.

- Complete bids follow:
- (A) Neves & Harp, Santa Clara.
 - (B) Chas. L. Harney, San Francisco
 - (C) Robert B. McNair, Oakland.
 - (D) Oakland Sewer Const. Co., Oakland.

Unit prices follow:

	(A)	(B)	(C)	(D)
(1)	\$.25	\$.55	\$.40	\$.35
(2)	.25	.70	.65	.42
(3)	.25	.90	.65	.48
(4)	.30	.85	.83	.55
(5)	.50	.95	.72	.60
(6)	.75	1.60	1.35	.65
(7)	1.00	2.00	2.00	1.65
(8)	2.00	2.95	3.65	3.50
(9)	125.00	85.00	86.00	65.00
(10)	150.00	110.00	143.00	85.00
(11)	200.00	275.00	164.00	100.00
(12)	27,600.00	13,340.00	19,500.00	16,550.00
(13)	51,000.00	58,333.00	59,500.00	43,124.20
(14)	1,250.00	1,100.00	1,200.00	1,155.00
(15)	1,000.00	1,500.00	1,600.00	1,835.00
(16)	1,000.00	1,000.00	.....	300.00

Bids were referred to Board of Public Works for recommendation to be made at city council meeting, December 4.

WASHOE CO.—HIGHWAY RECONST.—(STATE)

WASHOE COUNTY, Nevada—Union Paving Co., 624 Call Bldg., San Francisco, at \$253,579.67 awarded contract (as previously reported) by Department of Highways, Carson City, for reconstructing approximately 13.51 mi. of State Highway Route 1, Sections B2, and C1, between Vista and Clark, Washoe County. Complete bids follow:

- (A) Union Paving Co., San Francisco, \$253,579.67.
 - (B) Dodge Const. Co., Inc., Fallon, \$259,932.12.
 - (C) Fredrickson & Watson Const. Co. & Fredrickson Bros. Oakland, \$265,653.38.
 - (D) Jack Casson, Oakland, \$277,363.24.
 - (E) Isbell Const. Co., Carson City, \$286,505.81.
 - (F) Morrison-Knudsen Co., Boise, Ida. \$224,835.43.
 - (G) Engineer's estimate, \$287,849.05.
- Quantities follow:
- (1) 217,100 cu. yds. rdwy. excav.;
 - (2) 2150 c. yds. struc. excav.;
 - (3) 7400 cu. yds. select borrow.;
 - (4) 389,426 sta. yds. overhaul.;
 - (5) 13.51 mi. subgrade.;
 - (6) 13.51 mi. shoulders.;
 - (7) 41,300 cu. yds. crushed gravel or stone surf.;
 - (8) 42,650 tons plant mix do. base.;
 - (9) 24,230 tons plant mix asph. surf.;

- (10) 19,825 gal. asph. road material, type MC-2.;
- (11) 52,800 gal. asph. road material, type SC-2.;
- (12) 57,927 gal. asph. road material, type SC-1-A.;
- (13) 16,377 lin. ft. remove fence.;
- (14) 10,177 lin. ft. construct fence.;
- (15) 16,377 lin. ft. reconstr. fence.;
- (16) 50 each move pipe culvert head-walls.;
- (17) 20 each remove do.;
- (18) 4326 M. gal water.;
- (19) 178 cu. yds. Class A concrete.;
- (20) 38 cu. yds. Class B concrete.;
- (21) 18,000 lbs. reinf. steel.;
- (22) 394 lin. ft. 15-in. C.M.P.;
- (23) 1178 lin. ft. 18-in. do.;
- (24) 466 lin. ft. 24-in. do.;
- (25) 18 lin. ft. 30-in. do.;
- (26) 170 lin. ft. 36-in. do.;
- (27) 118 lin. ft. 48-in. do.;
- (28) 221 lin. ft. remove pipe culverts.;
- (29) 136 lin. ft. relay pipe culverts.;
- (30) 430 cu. yds. cem. rubble masonry.;
- (31) 225 each monuments.;
- (32) 2.0 miles traffic stripe.;
- (33) 19 cu. yds. remove cement rubble masonry.;
- (34) 9500 lbs. castings.;
- (35) lump sum construct cellar.;
- (36) 13.51 miles finish roadway.

Unit prices follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
(1)	\$.36	\$.39	\$.38	\$.40	\$.40	\$.54	\$.40
(2)	1.20	1.00	1.00	1.50	1.25	1.50	1.00
(3)	.35	.35	.38	.50	.50	.60	.40
(4)	.01	.02	.005	.02	.02	.02	.02
(5)	300.00	150.00	100.00	200.00	250.00	200.00	200.00
(6)	240.00	150.00	100.00	150.00	150.00	150.00	100.00
(7)	.70	.50	.78	.70	.50	.60	.80
(8)	1.00	1.10	1.12	1.00	1.25	1.20	1.25
(9)	1.99	2.20	2.40	2.50	2.69	2.85	2.25
(10)	.10	.09	.10	.10	.10	.085	.10
(11)	.07	.06	.06	.06	.07	.06	.07
(12)	.06	.055	.06	.06	.063	.055	.07
(13)	.02	.03	.02	.02	.02	.02	.02
(14)	.10	.10	.10	.11	.12	.15	.12
(15)	.05	.05	.07	.07	.03	.10	.08
(16)	10.00	7.50	10.00	10.00	5.00	20.00	7.50
(17)	6.00	5.00	5.00	5.00	3.00	5.00	5.00
(18)	1.00	1.00	1.20	1.50	1.50	1.75	1.75
(19)	36.00	23.00	20.00	25.00	25.00	25.00	25.00
(20)	35.00	23.00	20.00	27.00	25.00	25.00	25.00
(21)	.06	.06	.06	.05	.06	.07	.06
(22)	1.40	1.50	1.30	1.15	1.50	1.50	1.50
(23)	1.60	2.00	1.55	1.40	1.75	2.00	1.90
(24)	2.50	2.50	2.40	2.10	2.50	2.50	2.50
(25)	3.00	3.25	3.00	2.20	3.25	3.50	3.50
(26)	5.00	4.50	4.00	3.80	4.50	5.00	4.50
(27)	9.00	7.50	7.00	6.40	7.50	8.00	7.00
(28)	.60	.50	.40	1.00	.75	1.00	.50
(29)	.60	.50	.40	1.00	.50	1.00	.75
(30)	12.00	15.00	8.00	10.00	15.00	12.00	12.00
(31)	3.00	3.00	2.50	2.00	3.50	3.00	3.00
(32)	80.00	100.00	100.00	125.00	200.00	100.00	100.00
(33)	3.50	5.00	2.00	3.50	2.00	5.00	2.50
(34)	.10	.10	.15	.22	.06	.08	.20
(35)	.....	.....	.....	.....	.....	.....	.....
(36)	100.00	150.00	150.00	150.00	150.00	150.00	150.00

- LOS ANGELES COUNTY, Cal.—J. L. McClain, 3452 W Slauson Ave., Los Angeles, at \$216,962.50 submitted low bid to State Highway Commission, Sacramento, for grading and paving with portland cement concrete about 3.5 mi. between Olive View and Tunnel station in Los Angeles, involving:
- (1) 190 sta. clear and grub right-of-way.;
 - (2) 275,000 cu. yds. rdwy. excav. un-class.;
 - (3) 2,600,000 sta. yds. overhaul.;
 - (4) 6400 cu. yds. struc. excav.;
 - (5) 38,500 sq. yds. subgrade for pave.;
 - (6) 8100 cu. yds. Class A Portland cement concrete pavement.;
 - (7) 1450 cu. yds. Class A Portland cement concrete struc.;
 - (8) 206,500 lbs. bar reinf. steed pave and struc.;
 - (9) 1800 lbs. misc. iron and steel strucs.;
 - (10) 500 tons asph. concrete.;
 - (11) 1500 tons cru. gravel or stone bit.

treated surfacing;

- (12) 80 tons cutback asphalt.;
- (13) 5000 M. gals. water.;
- (14) 650 lin. ft. 18-in. CMP.;
- (15) 370 lin. ft. 24-in. CMP.;
- (16) 80 lin. ft. 30-in. CMP.;
- (17) 70 lin. ft. 36-in. CMP.;
- (18) 160 lin. ft. 60-in. CMP.;
- (19) 160 lin. ft. 72-in. CMP 8 gauge.;
- (20) 80 lin. ft. 84-in. CMP 8 gauge.;
- (21) 270 lin. ft. 105-in. multiplate metal pipe, 5 gauge.;
- (22) 120 lin. ft. 180-in. multiplate pipe, 1 gauge.;
- (23) 100 lin. ft. 150-in. multiplate metal arch, 3 gauge.;
- (24) 140 lin. ft. 180-in. multiplate metal arch 1 gauge.;
- (25) 1650 hhls. fuel oil.;
- (26) 3.5 miles preparing and shaping shoulders.;
- (27) 50 each guideposts.;
- (28) 200 lin. ft. laminated timber guard rail.;
- (29) 3 miles new property fence.;
- (30) 6 each gates complete in place.;
- (31) 190 stations finishing roadway.

Complete bids follow:

- (A) J. L. McClain, Los Angeles, \$216,962.50.
- (B) Jahn & Bressi, Los Angeles, \$217,764.50.
- (C) Griffith Co., Los Angeles, \$220,673.00.
- (D) P. J. Akmadzich, Los Angeles, \$274,334.60.
- (E) Sharp and Fellows, Los Angeles, \$275,859.50.

Unit prices follow:

	(A)	(B)	(C)	(D)	(E)
(1)	\$17.00	\$19.00	\$20.00	\$40.60	\$ 6.00
(2)	.29	.27	.302	.33	.44
(3)	.003	.002	.0025	.005	.004
(4)	.75	.60	.72	1.00	1.00
(5)	.10	.07	.09	.096	.10
(6)	6.00	6.80	6.10	7.60	7.00
(7)	12.00	14.00	13.00	20.80	12.50
(8)	.045	.04	.038	.048	.045
(9)	.10	.15	.06	.087	.10
(10)	3.00	3.25	3.00	3.80	4.50
(11)	1.60	2.00	2.45	2.25	3.00
(12)	15.00	17.00	14.00	15.00	16.00
(13)	.50	.40	.65	1.25	.75
(14)	1.50	1.75	1.45	1.77	1.50
(15)	2.50	2.15	2.15	2.80	2.25
(16)	3.25	2.55	2.60	3.45	2.75
(17)	5.00	4.50	4.15	5.23	4.35
(18)	11.00	10.50	10.50	12.67	11.00
(19)	15.00	14.00	14.00	16.83	15.00
(20)	18.00	15.50	17.00	20.20	18.50
(21)	25.00	30.00	25.00	29.40	29.00
(22)	50.00	56.50	48.00	55.13	55.00
(23)	25.00	26.00	24.00	26.80	26.00
(24)	35.00	31.00	32.50	38.22	38.00
(25)	1.50	1.55	1.50	1.50	1.60
(26)	400.00	300.00	425.00	400.00	330.00
(27)	1.50	2.50	2.50	2.50	2.50
(28)	1.00	.75	1.50	1.05	1.00
(29)	400.00	450.00	370.00	400.00	440.00
(30)	15.00	30.00	11.00	23.00	15.00
(31)	4.00	7.00	5.00	5.00	6.00

CLARK COUNTY—HIGHWAY RECONSTRUCTION—(STATE)

CLARK COUNTY, Nevada. — Dodge Const. Co., Inc., Fallon, Nev., at \$210,-819.89 awarded contract (as previously reported) by the Department of Highways, Carson City, S. C. Durkee, State Highway Engineer, for reconstructing 11.9 miles of state highway, Route 6, Section C2, between Bard and Las Vegas, involving:

- (1) 46,800 cu. yds. rdwy. excav.;
- (2) 3,400 cu. yds. struc. excav.;
- (3) 84,100 cu. yds. select borrow;
- (4) 7,428 sta. yds. overhaul;
- (5) 11.85 miles subgrade;
- (6) 55,600 cu. yds. crushed gravel or stone subbase;
- (7) 37,000 tons plant mix crushed gravel or stone base;
- (8) 21,100 tons plant mix asph. surf.;
- (9) 27,832 gals. asph. road material, type MC-2;

- (10) 74,000 gals. do, type SC-2;
- (11) 51,401 gals. do, type SC-1A;
- (12) 11.85 miles shoulders;
- (13) 5,129 M. gals. water;
- (14) 480 cu. yds. Class A conc.;
- (15) 162 cu. yds. Class B concrete;
- (16) 53,800 lbs. relin. steel;
- (17) 166 lin. ft. 18-in. CMP;
- (18) 1,604 lin. ft. 24-in. do;
- (19) 332 lin. ft. 30-in. do;
- (20) 146 lin. ft. 36-in. do;
- (21) 735 lin. ft. 24-in. vit. pipe;
- (22) 26 each move pipe culvert head-walls;
- (24) 1,028 lin. ft. remove pipe culverts;
- (25) 116 lin. ft. relay pipe culverts;
- (26) 188.5 MFBM redwood;
- (27) 11.90 miles finish rdwy.

- (B) Olof Nelson, Logan, Utah, \$222,-277.60.
- (C) Isbell Const. Co., Carson City, Nevada, \$229,184.46.
- (D) Jack Casson, Oakland, \$238,523.29.
- (E) W. W. Clyde, Springville, Utah, \$239,446.39.
- (F) Gibbons & Reed Co., Salt Lake City, \$262,429.77.
- (G) M. J. Bevanda, Stockton, \$263,410.
- (H) Morrison-Knudsen Co., Boise, Ida, \$266,176.00.
- (I) Imperial Rock Corp. and A. G. Wright, Inc., Los Angeles, \$272,-980.00.
- (J) Jas. J. Burke & Co., Salt Lake City, \$331,832.00.
- (K) Engineer's estimate, \$275,198.00.

Complete bids follow:
(A) Dodge Const. Co., Fallon, \$210,-819.89.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)
(1)....	\$.27	\$.25	\$.30	\$.30	\$.52	\$.36	\$.35	\$.30	\$.38	\$.52	\$.40
(2)....	1.00	.80	1.00	.75	.95	1.00	1.00	1.00	1.00	1.00	1.00
(3)....	.28	.40	.30	.40	.46	.40	.35	.44	.45	.68	.50
(4)....	.02	.04	.04	.05	.04	.04	.02	.04	.02	.02	.04
(5)....	150.00	100.00	150.00	200.00	100.00	250.00	110.00	100.00	150.00	400.00	200.00
(6)....	.52	.65	.48	.70	.65	.60	.90	.80	.77	.80	.80
(7)....	.90	.90	1.00	1.00	1.22	1.28	1.25	1.08	1.00	1.30	1.25
(8)....	2.20	2.10	2.60	2.15	1.26	2.21	2.50	2.63	2.30	3.70	2.25
(9)....	.08	.09	.125	.10	.09	.10	.09	.09	.09	.20	.085
(10)....	.05	.05	.065	.06	.065	.06	.06	.055	.11	.06	.06
(11)....	.05	.05	.06	.05	.06	.05	.05	.05	.05	.05	.06
(12)....	150.00	100.00	150.00	100.00	100.00	700.00	50.00	125.00	250.00	115.00	100.00
(13)....	1.00	1.00	1.50	1.50	1.60	1.65	2.00	1.25	3.80	2.00	1.75
(14)....	22.50	22.00	21.00	20.00	21.00	22.00	20.00	26.00	22.00	22.00	25.00
(15)....	22.50	22.00	21.00	20.00	20.00	21.00	19.00	28.00	22.00	21.50	25.00
(16)....	.045	.045	.05	.05	.05	.06	.06	.075	.05	.05	.055
(17)....	2.00	1.60	1.90	1.70	1.60	1.90	2.00	2.30	2.00	2.00	1.90
(18)....	2.75	2.20	2.65	2.50	2.60	2.80	3.00	3.00	2.50	2.60	2.50
(19)....	3.25	3.00	3.25	3.10	3.20	3.60	3.00	3.80	3.00	3.40	3.50
(20)....	5.00	4.50	5.00	4.50	4.80	5.20	4.00	5.50	4.65	5.00	4.50
(21)....	3.25	3.00	3.56	4.20	3.70	3.50	3.50	4.00	3.80	3.30	3.75
(22)....	7.50	10.00	5.00	10.00	8.00	20.00	15.00	15.00	20.00	10.00	7.50
(23)....	5.00	2.00	3.00	5.00	4.00	20.00	10.00	6.00	10.00	6.00	5.00
(24)....	.50	.50	.75	.50	.35	.60	.50	.60	.40	.50	.50
(25)....	.50	1.00	.75	1.00	.50	.60	1.00	1.25	.50	.50	.75
(26)....	95.00	100.00	98.00	100.00	98.50	120.00	90.00	110.00	108.00	110.00	110.00
(27)....	150.00	100.00	150.00	200.00	100.00	100.00	100.00	125.00	150.00	100.00	150.00

HEADQUARTERS BUILDING—HAMILTON FIELD

HAMILTON FIELD, Marin Co., Cal.—Meyer Const. Co., 735 Portola Dr., San Francisco, at \$86,430 submitted low bid to Constructing Quartermaster, Hamilton Field, to construct one-story headquarters building at Hamilton Field. Work involves:

Excavation, filling and grading, concrete piling, concrete and cement finish, sidewalks, brick and building tile cast stone, architectural terra cotta, waterproofing, dampproofing, structural steel and miscellaneous iron and steel, bronze and brass, insect screens, tubular steel window and wood door frames, copper screen cloth, steel lockers, tile roof, metal latb, plaster walls and ceilings, stucco, marble and quarry tile floors, linoleum, window and door shades, finishing hardware, painting, glazing, plumbing, electric sump pump, gas fitting, gas-fired hot water heating system, chilled water system, electrical wiring and lighting fixtures, flood lighting system.

- Total bids follow:
(A) Meyer Const. Co., San Francisco, \$86,430.
(B) Leo Epp, San Francisco, \$91,377.
(C) K. E. Parker Co., San Francisco, \$95,950.
(D) Wm. Spivoek, San Francisco, \$96,335.
(E) H. L. Petersen, San Francisco, \$97,331.
(F) Azevedo & Sarmiento, Sacramento \$97,600.
(G) Young & Horstmeyer, San Francisco, \$98,200.
(H) Schuler & McDonald, Oakland, \$99,919.
(I) Fred J. Early, Jr., San Francisco, \$105,787.

- (4) if cast in place piles are used in lieu of precast concrete piles, deduct;
- (5) precast concrete piles, per lin. ft.;
- (6) cast in place concrete piles, per lin. ft.;
- (7) wood test piles (50 ft. long) each;
- (8) excavation, per cu. yd.;
- (9) overhaul beyond free haul of 300 ft., per sta. yd.;
- (10) concrete (type A, includ. forms) per cu. yd.;
- (11) concrete (type B, includ. farms) per cu. yd.;
- (12) reinforcing steel, per ton;
- (13) brick in walls, 4-in. thick, per sq. ft.;
- (14) brick in walls, 8-in. do;
- (15) 4-in. partition tile, in place, per sq. ft.;
- (16) 8-in. partition tile, in place, per sq. ft.;
- (17) linoleum floors (installed) per sq. ft.;
- (18) insulation board do;
- (19) roofing tile (in place) per 100 sq. ft.

Complete bids with unit prices follow:
(1) job complete;
(2) if patio walls A and B and fountain on both sides are omitted, deduct;
(3) if terra cotta at main entrance is omitted and in lieu is installed cast stone, deduct;

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
(1).....	\$86,430.00	\$91,377.00	\$95,950.00	\$96,335.00	\$97,331.00	\$97,600.00	\$98,200.00	\$99,919.00	\$105,787.00
(2).....	3,330.00	1,870.00	2,600.00	4,000.00	2,704.00	3,060.00	2,500.00	4,500.00	3,875.00
(3).....	2,569.00	1,400.00	2,600.00	2,500.00	2,400.00	2,200.00	2,300.00	500.00	2,000.00
(4).....	1,212.00	4,875.00	2,230.00	2,000.00	500.00	1,212.00	775.00	465.00	1,000.00
(5).....	.50	1.80	1.75	1.35	2.25	1.55	1.80	1.90	1.90
(6).....	1.00	2.80	2.00	1.75	2.15	1.80	2.50	1.70	1.70
(7).....	20.00	75.00	65.00	60.00	100.00	75.00	100.00	77.00	250.00
(8).....	.35	1.00	.25	.75	1.00	1.00	1.00	1.50	.80
(9).....	.01	.15	.06	.50	.50	.50	.50	.35	.02
(10).....	9.00	14.00	12.25	16.00	13.00	16.25	15.00	14.50	10.00
(11).....	10.00	15.00	12.75	16.50	13.50	16.75	16.00	15.00	17.00
(12).....	70.00	72.00	65.00	80.00	78.00	80.00	80.00	80.00	85.00
(13).....	.25	.21	.30	.25	.275	.25	.30	.22	.24
(14).....	.50	.42	.50	.50	.55	.50	.48	.44	.40
(15).....	.16	.16	.15	.18	.22	.18	.25	.18	.16
(16).....	.32	.32	.30	.36	.44	.37	.48	.35	.33
(17).....	.11	1.75	1.25	2.00	1.80	.16	.15	.31	.20
(18).....	.04	.06	.08	.06	.06	.09	.08	.08	.06
(19).....	20.00	23.00	20.00	22.00	35.00	22.00	23.00	23.00	35.00

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Building and Engineering News

IN THIS ISSUE



**Half of NRA Highway Fund
Projects Started**

New Price List Slows Lumber Orders

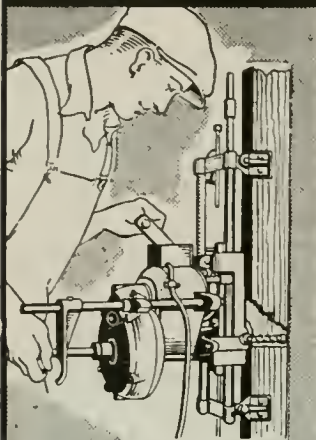
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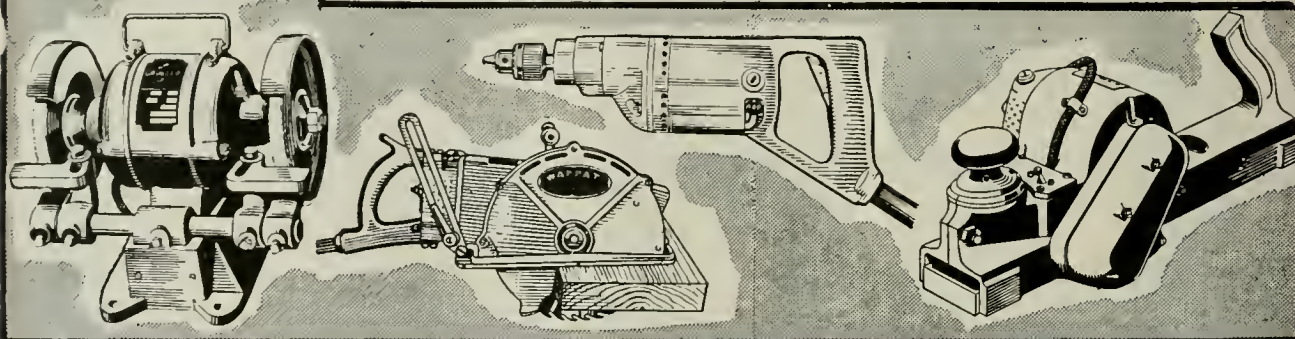
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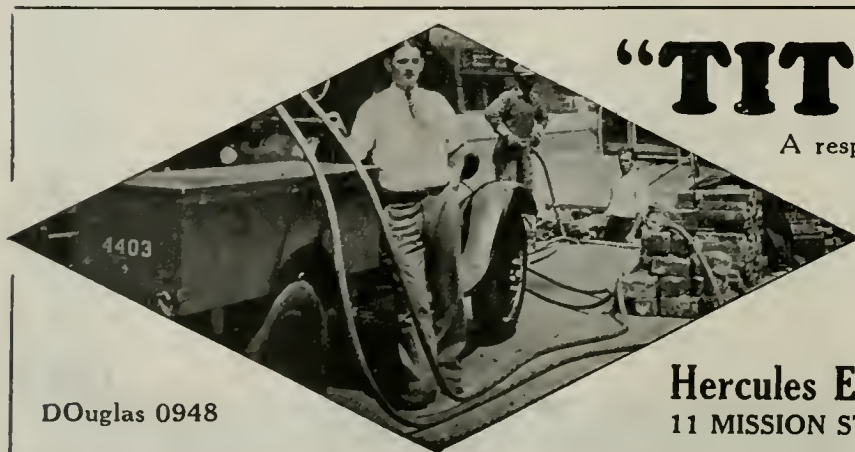
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PACIFIC CONSTRUCTOR

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SAN FRANCISCO, CALIF., DECEMBER 9, 1933

No. 47

\$165,309,000 NRA HIGHWAY WORK AWARDED

Projects Underway on Nov. 25
Represent 50 Per Cent
Of Fund Voted

Completion of 59 public works highway projects up to November 25, at a cost of \$1,301,000, is announced by the Bureau of Public Roads, U. S. Department of Agriculture, in a tabulation of highway construction. This work was completed under the Public Works Administration highway fund allotment provided for in the National Industrial Recovery Act.

Awards on 3,266 projects at a cost amounting to \$165,309,000 have been made, out of a total of 4,239 projects advertised for contract amounting to an estimated expenditure of \$213,551,000. On November 25, the work advertised for contract or started by day labor employed by the highway authorities represented 50.1 per cent of the \$400,000,000 provided for highways by the Public Works Administration under Section 204 of the National Industrial Recovery Act.

Highway work under construction by the States under Section 204 was employing directly on highway work a total of 134,805 men on November 25, the Bureau of Public Roads reports. This force of men was divided between contract and day labor as follows: 100,512 men on 1,890 contract projects and 34,293 men on 533 projects on which the labor is directly employed by the highway authorities.

The estimated total cost of the work under construction on November 25 was \$129,060,000, of which \$116,525,000 was by contract and \$12,535,000 was by day labor employed directly by the highway authorities.

Awards have been made on 77 per cent of the projects approved by the district engineers of the Bureau of Public Roads, and construction is actually under way on 57 per cent of the approved projects.

A. G. C. CHAPTER TO MEET DEC. 15

The annual meeting of the Associated General Contractors, Northern California chapter, will be held in San Francisco on December 15, Floyd O. Booe, secretary-manager, announced yesterday. Many men prominent in the construction industry will be on the program for addresses during the all-day meeting, Booe said. Directors for the new year will be elected at the annual business meeting which will be a part of the session. A banquet and entertainment program is being arranged for the evening. The entire day's meeting will be held in the roof lounge of the Clift hotel.

\$274,687 BID IS LOWEST FOR APPROACH WALL

Joint Offer by Two Contractors
Made on Bay Bridge
Job

SACRAMENTO, Dec. 6—Low bid on the construction of a rock retaining wall along the approach road from Berkeley to the San Francisco-Oakland bay bridge was submitted by Fredrickson & Watson and Basalt Rock Co., bidding jointly at \$274,687.

The contract involves placing 227,000 tons of rock, having been readvertised under new specifications after previous bids had been rejected. It is the second contract let for bridge approach construction, an award having been made already to the American Dredging Company for placing dredger fill and grading on the 4.1 mile right-of-way into Berkeley. The American company was low bidder at \$869,063.

Architects of Northern California are invited to participate in a design competition conducted by the City of Paris, San Francisco. The subject is an eight-room model house. Sketches are to be submitted before January 5. One entry will be accepted from each architect. Prizes will be awarded by a committee selected by the store.

ROAD BUILDERS PLAN FIGHT FOR GASOLINE FUNDS

Tendency Toward Diversion
From Construction Will
Be Opposed

The financing of an economically sound highway program in the next few years will occupy a position of major importance at the annual convention and road show of the American Road Builders' Association which will be held in the Hotel Stevens, Chicago, during the week of January 22.

Although a planned road building and improvement campaign forms the backbone of the Public Works project, state and municipal highway officials view with alarm the tendency of the last two years to divert road money to other and less profitable budgets, said Charles M. Upham, Engineer-Director of the American Road Builders' Assn.

Revenues derived directly from the highway user, formerly used almost exclusively for the construction of modern, safe roads and streets, are being diverted into other channels at an ever-increasing pace.

"From 1928 to 1931 inclusive, the total amount of revenue derived from gasoline taxes and registration fees increased steadily. In 1932 and 1933 there has been a steady decline due to general business conditions. In spite of this decline, however," Mr. Upham said, "the amount of diversion in 1932 was nearly 100 per cent over 1931 and the available figures for this year indicate that the next diversion figures will show more than 100 per cent additional."

One of the factors which raises most doubts in the minds of the officials who see their highway departments' programs dwindling is the fact that not only is the new construction program sharply curtailed, but a large part of the regular, unyielding maintenance needs must necessarily be neglected. In some sections improved roads have been so neglected that they must be rebuilt at a far greater price than regular care would have cost. The latest available figures show that 150,000 miles of roads in the state highway systems require reconstructing.

REVOKE STATE LICENSE OF L. A. BUILDER

Failure to Carry Compensation Insurance Brings Action

SACRAMENTO, Nov. 28.—Accused of wilful negligence in failing to carry compensation insurance to protect his workers, one of whom was injured, the state contractor's license of Harry T. Grundy, 2707 S. Harvard Blvd., Los Angeles, today had been revoked.

The license was ordered unconditionally revoked by Col. Carlos W. Huntington, registrar of contractors, following a formal hearing and investigation conducted by Referee I. L. Swearingen.

L. A. Harris, 2211 South Highland Avenue, Hollywood, complaining witness, testified he suffered a fractured skull when he was struck on the head by a plank falling from a scaffold while employed by Grundy on a construction job at 2619 Wilshire Blvd., Los Angeles.

According to evidence filed with Registrar Huntington, Harris was confined in a hospital for several weeks, and prevented from returning to work for four months. He recently obtained a judgment for \$165 against Grundy from the industrial accident commission. However, Grundy has already paid his hospital bill and a part of the doctor bills.

"There should be no excuse for the failure of a contractor to protect his workmen," declared Huntington.

"A contractor who does not protect his men with compensation insurance is not playing fair with his men, nor with his competitors, because he can submit a lower bid on any project by dodging the insurance premium. It is also a violation of the spirit of the President's fair competition agreement.

"We intend to continue to rigidly enforce provisions of the contractors act requiring builders to protect their employees. In this case, the cost of the insurance would have been far less than the amount Grundy has already paid in hospital bills for Harris. A builder failing to carry adequate insurance jeopardizes his employees and their dependents, as well as his own standing in the industry," he said.

Steel Institute To Publish New Manual of Construction

The following is a description of contents and scope of the new Manual of Steel Construction now in preparation by the American Institution of Steel Construction.

The mills producing wide flange sections have recently issued catalogues showing a revised and standardized series. As these catalogues show only the dimensions and properties of these sections it was necessary that the institute prepare at once a revised manual in which the details and allowable loads will be given.

The manual committee was appointed early in May, 1933, and its first meeting was held on May 18, at which time the scope, contents and arrangements were discussed and tentatively agreed upon. This committee consists of P. A. Blackwell, chief engineer, Virginia Bridge & Iron Co.; G. H. Danforth, contracting engineer, Jones & Laughlin Steel Corp.; V. E. Ellstrom, manager of sales engineering, Bethlehem Steel Co.; Jonathan Jones, chief engineer, McClintic-Marshall Corp.; Richard Khuen, Jr., chief engineer, American Bridge Co.; J. R. Lambert, chief engineer, The Phoenix Bridge Co.; F. T. Llewellyn, consulting engineer, U. S. Steel Corp.; Robt. A. Marble, structural engineer, Carnegie Steel Co., and F. H. Frankland, A.I.S.C. As the committee was faced with the necessity of producing a new manual, practically rewritten in its entirety, within the space of a few months, the effective method of doing the work by assignments was resorted to, wherein specific items were worked up by the committee members and their assistants. At times upwards of fifty engineers have been simultaneously engaged in this work.

Many important users were consulted by the committee and from the suggestions received the Manual has been recast as to form, size and to a great extent as to contents. The book is divided into five parts, so that Part I gives the dimensions and properties of steel structural products, the balance of the book furnishes information on how to use these products safely and efficiently. Part II furnishes structural details; Part III, allowable load tables; Part IV, specifications, and Part V, miscellaneous data commonly useful in structural engineering.

The structural details given in Part II embrace a mass of information now standardized for the first time and never before published. This data will be invaluable to designing engineers and will aid

materially in realizing the benefits accruing to all concerned by the standardization of structural details.

Part IV will include the A. I. S. C. Standard Specification, the A. I. S. C. Code of Standard Practice, the A. I. S. C. Fireproofing Specifications, the A. S. T. M. Standard Specifications for Structural Steel for Buildings and for Bridges, and the American Welding Society's recently revised Code for Fusion Welding and Gas Cutting of Structural Steel for Buildings. The American Society for Testing Materials has approved three new tentative specifications for steel for bridges, steel for buildings, and for mild steel plates. The specifications for both bridges and building steel provide for a minimum yield point of 33,000 lbs. per sq. in., an ultimate tensile strength of 60,000 to 72,000 lbs. per sq. in. The specification for mild steel plates covers a grade of steel comparable to the existing standard structural grade and, as the material will not be used for bridges or buildings, it will not be included in the Manual. In the new bridge and building steel specifications there are a number of changes, such as special requirements for rolled base plates over 2 in. in thickness for bearing purposes. These must be of open-hearth or electric-furnace steel, of 0.20 to 0.35 per cent carbon. Physical tests are not required for this material. The new specifications also exempt from tension tests flat rolled steel 3/16-in. and under in thickness, shapes less than one sq. in. in cross-section, and bars, other than flats, less than 1/2 in. in thickness and diameter. The minimum elongation in 8 in., minimum per cent, in the new bridge steel is 1,500,000 divided by the tensile strength, and for the building steel, 1,400,000 divided by the tensile strength. The bridge steel must be made either by the open-hearth or electric-furnace processes, and the building steel may be made by one or more of the following processes: open-hearth or electric-furnace or acid-bessemer, but in the latter specification steel plates and shapes over 7/16-in. in thickness which are to be punched must be made by either or both the open-hearth or electric-furnace processes.

Recognition by the committee of the growing need for making readily available to users of the Manual authoritative information on welding led to the decision to incorporate the American Welding Society's recently revised Code for welding steel.

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SET RECORD PLACING GATE BRIDGE STEEL

**Ten Percent of Marin Tower
Erected in Less
Than Week**

More than 5,000,000 pounds or approximately 10 per cent of the Marin tower steel of the Golden Gate bridge was in place yesterday after less than a week's work on the site, marking a new world record in steel erection.

During the past week 1,070,000 pounds of Marin tower steel was shipped from the eastern fabricating plants, bringing the total shipments of Marin tower steel to date to 33,408,000 pounds. This represents more than 78 per cent of the structural steel for the Marin tower.

At the same time word was received from the eastern foundries of the McClintic-Marshall Corporation, steel superstructure contractors, that all of the cable saddles for the Marin tower have been cast. This represents in the neighborhood of 680,000 of castings.

From the Trenton, New Jersey, plant the John A. Roebings Sons Company, cable contractors, advices have been received by James Reed, general manager of the Golden Gate Bridge and Highway District, that more than 10 per cent of the galvanized steel cable wire, or approximately 4,538,000 pounds has been drawn, tested, accepted and stored.



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SAN FRANCISCO

In the meanwhile work has been rushed in preparation for a second start on the fender for the south pier of the bridge. Four structural steel frames of fender units are in readiness to be placed in position. A total of 22 units will be required to complete the fender wall.

Work on the caisson for the south pier is progressing rapidly at the plant of the Moore Drydock Company in Oakland. The man locks have been installed on the caisson and the material shafts are being assembled and welded. Work on the cable anchorages on both sides of the Golden Gate has progressed rapidly during the past week, 9,264 cubic yards of concrete having been poured. This brings the total concrete used in the entire project to date to 112,432 cubic yards, approximately 31 per cent of all concrete required in construction of the bridge.

General Manager Reed reported that the average number of men per day employed upon the bridge proper during the past week was 349. This is exclusive of men employed in quarries, cement manufacturing plants, steel mills and other industrial organizations producing materials to be used in the bridge.

COSTS REDUCED IN NEWARK BUILDING

Short cuts in construction to bring costs to a minimum have been employed in the erection of a block of low-rent apartments exclusively for negroes of Newark, N. J. Some of the methods are described by the "Business Week" current issue as follows:

Long life with low maintenance was one requirement. This resulted in determination on reinforced concrete structural frame, concrete slab floors, concrete sectional walls, brick block exterior, cast stone ornamental spandrels.

Floor concrete was laid on plywood forms which stripped so evenly that lower surfaces were perfectly smooth, making ceiling plaster unnecessary. A neutralizer and a finish coat of paint gave an attractive ceiling. A special hardwood flooring is employed. It consists of 9-inch hardwood squares with metal tongues which are driven firmly into grooves of the next unit. They rest on a cork and mastic composition. Result is a floor which contracts and expands as a unit, which refuses to buckle or wave. Windows have no counterweights. Instead Unique Window Balances were used. These are light spirals which work inside a cylinder allowing the sash to be raised or lowered to any point. The installation did away with the hauling and handling of 42 tons of window weights.

Arrangement of the six buildings is unusual. Three units are in rows, each consisting of a 6-story building flanked by 2 of 5 stories. Between is a playground 147 ft. wide. The rows are without courts or angles, insuring light and privacy. Nearly every apartment has a cross-draught. There are no elevators.

NEW PRICES SLOW ORDERS FOR LUMBER

**Reduction in New Business
Seen as First Effect of
Code Operation**

Lumber orders booked at the mills during the week ended Nov. 25, 1933, were lowest of any week of the last ten with one exception; production was slightly heavier than during the preceding three weeks, according to telegraphic reports to the National Lumber Manufacturers Association from regional associations covering the operations of leading softwood and hardwood mills. The big drop in orders from the preceding two weeks indicates a cessation of the heavy buying anticipatory of the establishment of minimum prices, which went into effect during the month. The reports were made by 1,449 American mills, whose production was 183,954,000 ft.; shipments 167,502,000 ft.; orders, 161,030,000 ft. Orders of the previous two weeks had been 315,884,000 ft. and 280,676,000 ft. Report of 22 British Columbia mills during the week ended November 25 also showed decline in orders; their production was 14,449,000 ft.; shipments, 14,744,000 ft.; orders, 11,928,000 ft.

All regions except the Western pine, Northern pine and Redwood reported orders below output, total softwoods being 9 per cent below; hardwoods, 26 per cent below. All regions showed gain in new business over the corresponding week of last year except Southern pine, Northern hemlock and Northern hardwoods. Total softwoods were 26 per cent above those of last year; hardwoods, 9 per cent above.

During 47 weeks of 1933 to date, production was 27 per cent above that of the same period of 1932; orders were 20 per cent above the 1932 record.

Unfilled orders at the mills on November 25 were the equivalent of 20 days' average production of reporting mills, compared with 21 days' the week before and 14 days' a year ago.

Forest products carloadings during the week ended November 19 of 24,007 cars were 346 cars above those of the preceding week, 7,931 cars above those of similar week of 1932 and 2,780 cars above the same week of 1931.

Manufacturers of malleable castings operated at 28.4% of capacity in October, compared with 14.5% in the corresponding month a year ago. Production totaled 24,381 tons compared with 12,274 tons in October, 1932. Tonnage produced to date this year is 224,824, comparing with 143,729 in the same period last year.

PERMITS AND CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
860	Wyss	Anderson	3000
861	McKeever	Owner	3500
862	North	Owner	3900
863	Wells	Eick	1200
861	Crocker	Hannah	10000
865	Lee	Lee	1150
866	Thomas	Salomon	1200
529	Coryell	Buel	3500
867	National Biscuit	Bradley	1800
868	Nelson	Owner	3750
869	Kent	Rosemont	1000

ALTERATIONS

(860) NO. 3638-40 TWENTIETH ST. Alter manufacturing plant and flats.
Owner—Pauline C. Wyss, 999 Holloway Ave., San Francisco.
Architect—Not Given.
Contractor—Chris Anderson, 580 Market St., S. F. \$3000

DWELLING

(861) E THIRTY-FIRST AVE 198 S Balboa. One-story and basement frame dwelling.
Owner—Mrs. Mary C. McKeever, 591 Ninth Ave., San Francisco.
Architect—Not Given. \$3500

ALTERATIONS

(862) NO. 645 BROADWAY. Alter theatre.
Owner—North Beach Theatre, Inc., 25 Taylor St., San Francisco.
Architect—Not Given. \$3900

ALTERATIONS

(863) NE SECOND AND MISSION. Alter office building.
Owner—Wells Fargo Bldg., Prem.
Architect—Not Given.
Contractor—Eick G. Euistaur, 629 Commercial St., S. F. \$1200

ALTERATIONS

(864) ST FRANCIS HOTEL. Alter hotel.
Owner—Crocker Hotel Co., St. Francis Hotel, San Francisco.
Engineer—W. Adrian, 417 Market St., San Francisco.
Contractor—J. D. Hannah, 251 Kearny St., San Francisco. \$10,900

ALTERATIONS

(865) 730 GRANT AVE.; alter store.
Owner—M. Lee, 730 Grant Ave.
Architect—Not Given.
Contractor—Jim Lee, 113 Waverly Pl. \$1,150

REPAIRS

(866) NO. 2576 McALLISTER ST. Repair fire damage to dwelling.
Owner—Mrs. Marie V. Thomas, 1734 Broderick St., San Francisco.
Architect—Not Given.
Contractor—L. Salomon, 1734 Broderick St., San Francisco. \$1200

STATION

(529) NO. 1999 ALLSTON WAY, BERKELEY. One-story 2-room Class C service station.
Owner—Edna Coryell, 2315 Fulton St., Berkeley.
Architect—C. H. Piatt, Builders Exchange, Berkeley.
Contractor—E. H. Buel, 2927 Lorina St., Berkeley. \$3500

REPAIRS

(867) 815 BATTERY ST.; repair factory.
Owner—National Biscuit Co., 815 Battery Street.
Architect—Not Given.
Contractor—P. Bradley, 639 Brannan Street. \$1900

DWELLING

(868) W TWENTY-FIRST AVE 196 S Ocean Ave. One-story and basement frame dwelling.
Owner—Fernando Nelson & Sons, 2919 19th Ave., San Francisco.
Architect—Not Given. \$3750

GARAGE

(869) N TWENTY-FIFTH 50 E Vermont St. One-story garage.
Owner—L. Kent, NE 25th and Vermont Sts., San Francisco.
Architect—Not Given.
Contractor—Ed Rosemont, 176 Duboce Ave., San Francisco. \$1000

ALAMEDA COUNTY

526	Recagno	Ungaretti	5000
527	El Dorado	Owner	12000
528	Taylor	Coats	2800
530	Bowes	DeVelbiss	1500
531	Stanley	Rose	1900
532	McCaslin	Owner	1280
533	Finzel	Falk	1800

DWELLING

(524) NO. 6007 MONADNOCK WAY OAKLAND. One-story five-room dwelling.
Owner—O. L. Moen, 4201 E-16th St., Oakland.
Architect—Not Given. \$3000

DWELLING

(525) 923 44th ST., OAKLAND; one-story 4-room dwelling.
Owner—L. Oddone.
Architect—Not Given.
Contractor—M. E. Valente, 5118 Clarke St., Oakland. \$2900

DWELLING

(526) 3000 WASHINGTON ST., ALAMEDA; one-story 8-room dwelling.
Owner—Pietro Recagno.
Architect—Not Given.
Contractor—Charles Ungaretti, 1727 Foothill Blvd., Oakland. \$5000

WAREHOUSE

(527) FOOT OF ADELIN STREET, OAKLAND. One-story warehouse
Owner—El Dorado Oil Works, 230 California St., San Francisco.
Architect—Not Given. \$12,000

DWELLING

(528) 1615 LA VAREDA, BERKELEY; two-story four-room frame dwelling.
Owner—Edgar Taylor, Northgate Hotel, Berkeley.
Architect—J. H. Piatt, Builders' Exchange, Berkeley.
Contractor—Phillip Coats, 971 Hillcroft Circle, Berkeley. \$2800

REPAIRS

(530) NO. 1475 E-THIRTY-EIGHTH ST., OAKLAND. Fire repairs.
Owner—Mrs. Geo. E. Bowes.
Architect—Not Given.
Contractor—C. Dudley DeVelbiss, 354 Hobart St., Oakland. \$1500

STORE

(531) NO. 7215 E-FOURTEENTH ST., OAKLAND. One-story brick store.
Owner—E. C. Stanley.
Architect—Not Given.
Contractor—Mervin P. Rose, 6329 Shattuck Ave., Oakland. \$1900

DWELLING

(532) NO. 2719-21 HUMBOLDT AVE. OAKLAND. One-story 4-room 2-family dwelling.
Owner—C. H. McCaslin, 2723 Humboldt Ave., Oakland.
Architect—Not Given. \$1280

BUILDING CONTRACTS SAN FRANCISCO COUNTY

185	Furch	Hamill	1430
186	Bellbrook	D'Amico	6150
187	Wallace	Malloch	9000
188	Delbex	Cornely	1088

BUNGALOW

(185) S TWENTY-SEVENTH ST. 243 E Castro 50x114. All work for one-story frame bungalow.
Owner—Mary I. Furch, Berkeley.
Architect—Not Given.
Contractor—Robert Hamill, 6211 Geary St., San Francisco.

Filed Nov. 29, '33. Dated Nov. 15, '33.
Frame up\$357.50
Brown coat plaster on..... 357.50
When completed 357.50
Usual 35 days..... 357.50
TOTAL COST, \$1430.00
Bond, none. Limit, 60 days. Forfeit, plans and specifications, none.

ALTERATIONS

(186) NO. 1198 HOWARD ST. All work for remodeling dairy office and plant.
Owner—Bellbrook Daries, Inc., % Theo Jenkel, 150 Post St., S. F.
Architect—William Gaw, 1409 Edith St., Oakland.
Contractor—Tony D'Amico, 2345 Polk St., San Francisco.

Filed Dec. 1, '33. Dated Nov. 29, '33.
On 25th of each month 75%
Upon completion a sum sufficient to increase total payments to 75%
Usual 35 days..... 25%
TOTAL COST, \$6150
Bond, \$6150. Surety, General Casualty Co. of America. Limit, to commence Dec 1, 1933; to complete Jan. 24, 1934. Forfeit.. Plans and specifications, none.

STORE BLDG.

(187) N SUTTER 37-6 E Hyde St. E 50xN 87-6. Excavation, shoring, foundation work, construction, plastering, painting, etc., necessary to complete store building.
Owner—J. P. and Edith C. Wallace, Santa Clara County.
Consulting Structural Engrs.—Ellison & Russell, 712 Pacific Bldg.
Contractor—J. S. Malloch, 3701 Clay St., San Francisco.

Filed Dec. 4, '33. Dated Dec. 1, '33.
When side and rear walls of building have been poured to the ceiling line of the 2 store rooms to be erected in bldg. 25%
Brown coat plaster on..... 25%
Building completed 25%
Usual 35 days..... 25%
TOTAL COST, \$9000
Bond, none. Limit, on or before Mar. 15, 1934. Forfeit, none. Plans and specifications filed.

BOILER

(188) 250 McALLISTER ST.; furnish and installing low pressure heating and hot water boiler in apt. bldg.
Owner—Josephine Delbex and Charlotte Chariot, 747 37th Ave.
Architect—Not Given.
Contractor—E. A. Cornely, Inc., 1452 Bush Street.
Filed Dec. 5, '33. Dated Nov. 28, '33.
With order\$208.80
Six monthly installments, ca. 146.54
TOTAL COST, \$1088.00
Bond, \$1088. Surety, Glens Falls Indemnity Co.

BUILDING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

1.—Apartments	Offices
2.—Bonds	11.—Ice and Cold Storage Plants
3.—Churches	12.—Power Plants
4.—Factories and Warehouses	13.—Public Buildings, Fire Houses and Jails
5.—Flats	14.—Residences
6.—Garages and Service Stations	15.—Schools
7.—Federal Buildings	16.—Eanks, Stores and
8.—Club Buildings	17.—Theatres
9.—Hospitals	18.—Wharves & Docks
10.—Hotels	19.—Misc. Const.
	20.—Misc. Supplies & Materials

1— APARTMENTS

Planned.
APARTMENTS Cost, \$—
EUREKA, Humboldt Co., Cal.
 Apartments to house 192 men (48 apts., 2 wings, 207x100 ft.)
 Owner—County of Humboldt.
 Engineer—Frank L. Kelly, County Engineer, Eureka.

SAN FRANCISCO—E. A. Cornely, Inc., 1452 Bush St., at \$1,088 awarded contract by Josephine Delbex and Charlotte Chariot, 747 37th Ave., to furnish and install low pressure heating and hot water boiler in apartment building.

2— BONDS

SAN FRANCISCO—Finance Committee of the San Francisco Board of Supervisors recommended rejection of only bid received for \$20,480,000 in municipal improvement bonds. The bid was that of the City Co. of New York, Inc., quoting 6% discount on the following issues:

\$3,500,000 for raising O'Shaughnessy Dam.
 \$260,000 for Airport improvements.
 \$9,740,000 for water System improvements.

No bids were received on the balance of the issue offered. The City probably will apply to the Public Works Administration for a loan, secured by the bonds, in order to proceed with the work proposed.

4— FACTORIES & WAREHOUSES

Contract Awarded.
MFG. PLANT Cost, \$500,000
ELMHURST, Alameda Co., Cal. Jones Avenue.
 Group of 1- 2- and 3-story steel frame and brick buildings for manufacturing plant (tile roof, steel sash).
 Owner—Standard Brands, Inc., 595 Madison Ave., New York City.
 Architect—Bliss & Fairweather, Balboa Bldg., San Francisco.
 Local Engineer—L. H. Nishkian, 252 Market St., San Francisco.
 Engineer—G. J. Patitz, 595 Madison Ave., New York City.
 Contractor—Barrett & Hilp, 918 Harrison St., San Francisco.

Foundation Bids Being Taken—Close Dec. 19, 5 P. M.
BREWERY Cost, \$250,000
SAN FRANCISCO, Tenth and Bryant Streets.
 Stock house, bottling house and enlarging present brewery (Class A

steel, concrete and brick construction).

Owner—Milwaukee Brewing Co., 490 Tenth Street.

Engineer—W. E. Murray, 908 Hayes.

As previously reported, structural steel contract was awarded to Herrick Iron Works, 18th and Campbell Sts., Oakland.

As previously reported, structural steel contract awarded to Herrick Iron Works, 18th and Campbell Sts., Oakland.

(1664) 1st report May 31; 6th, Nov. 25, 1933.

Construction To Start Shortly.

SHOP Cost, \$11,000
SAN FRANCISCO, W Russ St. 100 S Howard.

One-story and mezzanine floor Class C shop building.

Owner—Amalgamated Laundries, 385 Eighth Street.

Engineer—Ellison & Russell, Pacific Building.

Contractor—Barrett & Hilp, 918 Harrison Street.

Contract Awarded.
REPAIR FACTORY Cost, \$2000
SAN FRANCISCO, 815 Battery St.

Repairs to factory.

Owner—National Biscuit Co., 815 Battery Street.

Architect—Not Given.

Contractor—P. Bradley, 639 Brannan Street.

Planned.
REMODEL BREWERY \$500,000
SEATTLE, Washington.

Remodel present building for brewery (install distributing plant, etc.); 500,000 barrel capacity annually.

Owner—Rainier Brewing Co. (George Wolf, Sales Mgr.), 1550 Bryant St., San Francisco.

Mr. Wolf is in Seattle and upon his return further details will be announced.

MARCH FIELD, Riverside Co., Cal.
 —As previously reported, until 10 A. M., December 12, bids will be received by Constructing Quartermaster, March Field, for construction of an ordnance warehouse at March Field. Alternate proposals are invited for steel deck roofing, with insulation and three-ply surface, and A.P.M. roofing. Roads curbs and walks are included in the project. Plans and specifications may be obtained from the Constructing Quartermaster upon deposit of \$15. Appropriation for building is \$43,379. It will be a one-story structure, 123x 68 feet in area, with concrete foundations, asbestos protected metal roofing or steel deck with built-up roofing, hollow tile walls, brick partitions, stucco exterior, steel roof trusses, reinforced concrete floor, steel sash, metal folding doors, metal ventilators, slate work and gas-fired unit heating system.

Contract Awarded.
PLATFORM Cost, \$2,303
OAKLAND, Alameda Co., Cal. Second and Harrison Streets.
 Erect loading platform.
 Owner—Safeway Stores, Inc., Fourth and Jackson Sts., Oakland.
 Architect—Not Given.
 Contractor—K. E. Parker Co., 135 So. Park, San Francisco.

Foundation Bids Being Taken.
BREWERY Cost, \$250,000
SAN FRANCISCO, Tenth and Bryant Streets.

Stock house, bottling house and enlarging present brewery (Class A steel, concrete and brick construction).

Owner—Milwaukee Brewing Co., 490 Tenth Street.

Engineer—W. E. Murray, 908 Hayes.

HAMILTON FIELD, Marin Co., Cal.
 —Robert E. McKee, 108 W. 18th St., Los Angeles, awarded the following sub-contracts for the construction of the operations hangar and double hangars at Hamilton Field. Cost, \$945,650:

Reinforcing Steel—Concrete Engr. Co., 1280 Indian St., San Francisco.

Gunite—Cement Gun Constr. Co., 852 Second St., San Francisco.

Plaster and Stucco—Chas. L. O'Hsklins, 3055 Gough St., San Francisco.

Roofing—Alta Roofing Co., 976 Indiana St., San Francisco.

Tile Work—Art Tile & Mantel Co., 221 Oak St., San Francisco.

Steel Sash—Truscon Steel Co., Call Bldg., San Francisco.

Transit Mixed Concrete—Basalt Rock Co., 900 8th St., Napa.

Steel Deck—United States Gypsum Co., 2501 Harrison St., San Francisco.

Painting—R. P. Paoli & Co., 3159 Fillmore St., San Francisco.

Slating Work—Clervi Marble Co., 1721 San Bruno Ave., San Francisco.

Sheet Metal Work—Forderer Cornice Works, 269 Potrero Ave., San Francisco.

Plumbing and Heating—Anderson & Rowe, 45 Belcher St., S. F.

Glass and Glazing—W. P. Fuller & Co., 301 Mission St., San Francisco

Screens—Bates-Carpenter & Co., 557 Market St., San Francisco.

Terrazzo—M. H. Gnecco & Co., 36 Wood St., San Francisco.

Wiring—W. K. Jennings Jr., 907 Lincoln Ave., San Rafael.

Metal Stools and Frames—Forderer Cornice Works, 269 Potrero Ave., San Francisco.

Dumbwaiter—Vincent Whitney Co., 130 Tenth St., San Francisco.

Shades—A. J. Rulman & Co., 444 Golden Gate Ave., San Francisco.

Millwork—National Mill & Lumber Co., 230 California St., S. F.

Hollow Tile—W. S. Dickey Clay Mfg. Co., 116 New Montgomery St., San Francisco.

Contract Awarded.
ALTERATIONS Cost, \$4000
SAN FRANCISCO, 3638-40 20th St.

Alterations to manufacturing plant & flats.

Owner—Pauline C. Wyss, 999 Holloway Avenue.

Architect—Not Given.

Contractor—Chris Anderson, 580 Market Street.

Contract Awarded.
ALTERATIONS Cost, \$6150
SAN FRANCISCO, No. 1193 Howard Street.

Alterations to dairy, offices, etc.

Owner—Bellbrook Dairies, Inc., % Theo Jenkel, 150 Post St., S. F.

Plans by William Gaw, 1409 Edith St., Oakland.

Contractor—Tony D'Amico, 2345 Polk St., San Francisco.

Brick Bids Being Taken.
BREW HOUSE Cost, \$100,000
STOCKTON, San Joaquin Co., Calif.

626 N American Street.

Four- or five-story brick and steel brew house (40 feet square, 90 ft. in height).

Owner—Eldorado Brewing Co. (A. D. Rothenbush), 626 N American St., Stockton.

Designer—C. M. Fraenkel, Industrial economist, 461 Market Street, San Francisco.

Bucket Elevator—Western Machinery Co., 760 Folsom St., San Francisco.

Brick bids are being taken from Stockton contractors only.

As previously reported, freight elevator awarded to Otis Elevator Co., 1 Beach St., San Francisco; reinforcing steel to Smith Co., Sacramento; tile to Forstelain Tile Co., 66 12th St., San Francisco; electric to Drendell-Trumbull Elec. Mfg. Co., 260 Van Ness Ave. south, San Francisco; structural steel to Schrader Iron Works, 1247 Harrison St., San Francisco. (1457) 1st report May 11; 8th, Nov. 23, 1933.

6—GARAGES & SERVICE STATIONS

Contract Awarded.
GARAGE Cost, \$—
SAN FRANCISCO. N 25th Avenue 50
E Vermont Street.
One-story garage building.
Owner—L. Kent, 25th and Vermont.
Architect—Not Given.
Contractor—Ed. Rosemont, 176 Duboce Street.

7—FEDERAL BUILDING

FORT BLISS, Texas.—Ramey Bros., El Paso, Texas, submitted the low bid to the Constructing Quartermaster at Fort Bliss, at \$153,000, for the construction of six stables, three stable guard quarters and three blacksmith and saddlery shop buildings at Fort Bliss. Bids were referred to the Quartermaster General.

PHOENIX, Ariz.—Treasury Department rejected all bids for the construction of the post office building to be erected in Phoenix. Funds are not available.

OAHU, T. H.—As previously reported, A. Nekomoto, Honolulu, T. H., at \$30,000 submitted low bid to Bureau of Yards and Docks, Navy Department, Washington, D. C., to construct gate houses, two vegetable lockers, two garbage houses, seven hose reel houses, 22 hose shelters, 18 clothes yard enclosures, three tennis courts, two flag poles, one beacon tower, two beacon fixtures installations, sidewalks, road, one cesspool and one dry well at the Naval Ammunition Depot, Oahu (West Loch) and Luahualel, T. H. Spec. No. 7055.

Following b'ds received:

A. Nekomoto, Honolulu.....	(1)	\$30,000
.....	(2)	30,300
Young Engr. Co., Honolulu (1)		\$34,300
.....	(2)	37,300
R. G. Whinery, Honolulu.....	(1)	35,117
.....	(2)	36,117
E. S. Black, Honolulu.....	(1)	37,000
.....	(2)	.....
John Hansen, Honolulu.....	(1)	39,248
.....	(2)	39,748
Jonah Kumalae, Honolulu.....	(1)	40,600
.....	(2)	42,100
Hawaiian Contracting Co.....	(1)	40,933
.....	(2)	.....
S. W. Ching, Honolulu.....	(1)	41,984
.....	(2)	.....
Chas. H. Hill, Ltd., Hilo.....	(1)	53,000

Bids held under advisement.

PEARL HARBOR, T. H.—As previously reported, Otis Elevator Co., 1 Beach St., San Francisco, at \$3,750 submitted low bid to Bureau of Yards & Docks, Navy Department, Washington, D. C., for electric freight elevator and metal covered hoistway doors at the Naval Submarine Base, Pearl

Harbor. Spec. No. 7260.

Following bids received:

Otis Elevator Co.....	\$3,754
Blake Palm Elev. Co., Washing- ton, D. C.....	3,840
A. Kleckhefer Elec. Co., Milwau- kee, Wis.....	5,975

Bids held under advisement.

FRANCE FIELD, Canal Zone—Until December 15, bids will be received by Bureau of Yards and Docks, Navy Department, for night lighting system at France Field, Canal Zone. Estimated cost \$6297.

PEARL HARBOR, T. H.—As previously reported, E. E. Black, Honolulu, T. H., at \$142,000 submitted low bid to Bureau of Yards and Docks, Navy Department, Washington, D. C. to construct extension to storehouse at the Naval Fleet Air Base, Pearl Harbor. Spec. No. 7085.

Bids held under advisement.

Following bids received:

E. E. Black, Honolulu.....	(1)	\$142,000
.....	(2)	11,400
.....	(3)	22,500
Hawaiian Contracting Co., Honolulu.....	(1)	\$145,928
.....	(2)	12,773
.....	(3)	25,566
Chas. H. Hill, Ltd., Hilo.....	(1)	\$166,000
.....	(2)	15,000
.....	(3)	30,000

Following bids received:

GRAND CANYON, Ariz.—Public Works Administration allotted \$10,000 to the Department of Interior, to finance construction of a new community building in Grand Canyon National Park, Arizona, to replace the structure recently destroyed by fire.

CALIFORNIA—Public Works Administration in Washington announced allotments for the construction of Post Office buildings in California, as follows:

Hollister, \$45,100; G. Albert Lansburgh, architect, San Francisco.

Lodi, \$55,000; S. Heiman, architect, San Francisco.

Montebello, \$45,100; A. R. Walker and P. A. Eisen, architects, Los Angeles.

North Hollywood, \$56,100; plans by supervising architect in Washington. Redding, \$79,200; Albert F. Roller, architect, San Francisco.

Roseville, \$51,000.

Santa Clara, \$40,500; Clarence R. Ward, architect, San Francisco.

Santa Monica, \$130,900; Newton & Murray, architects, Los Angeles.

South Pasadena, \$63,800; March, Smith & Powell, architects, Los Angeles.

Ventura, \$85,800; Harold E. Burket, architect, Ventura.

Van Nuys, \$57,200; J. Robert Harris, architect, Los Angeles.

Whittier, \$71,500; R. L. Warren, architect, Whittier.

Construction Postponed Indefinitely.
BUILDINGS Cost, \$—

ALBROOK FIELD, Canal Zone.

Construct fire house, guard house, dispensary, garage, warehouse, and headquarters and operations bldg. Owner—United States Government. Plans by Constructing Quartermaster, Albroom Field, Canal Zone.

Bids were scheduled to be opened December 12.

Addenda will be published later fixing a new date for opening.

PORT ANGELES, Wash.—Bids will be asked shortly by Coast Guard Department for the construction of an air base project at Ediz Hook. Work involves construction of a hangar, 120 by 100 feet with a ramp extending into the bay for seaplanes, lean-to, 20x100 feet to house shops and offices,

barracks building, 24x100 feet, radio building, etc. Construction will be of corrugated metal and tile with steel truss frame. Estimated cost, \$290,000. Andre Fourchy, Pacific Coast Civil Engineer, Coast Guard, Government Island, Alameda.

CHEHALIS, Wash.—Until December 15, bids will be received by Purchasing Agent, Post Office Department, Washington, D. C., to furnish metal weather strips in the Post Office Bldg. at Chehalis, Wash. Proposal 104.

SACRAMENTO, Cal.—Watson Manufacturing Co., Jamestown, New York, at \$4334 submitted low bid to Treasury Department for furnishing metal shelves and counters for the Sacramento Post Office.

NAPA, Cal.—E. C. Dehn, Hearst Bldg., San Francisco, at \$273 submitted low bid to Purchasing Department, Washington, D. C., to furnish 20 Venetian blinds to be installed in the U. S. Post Office at Napa.

GLENDALE, Los Angeles Co., Cal.—Lyon Metal Products Co., at \$913.33 submitted low bid to Purchasing Department, Post Office Department, Washington D. C., for metal shelving in the Post Office at Glendale. Following bids received:
Lyon Metal Products Co.....\$ 913.33
Penn Metal Co..... 1036.35
Interior Steel Equip. Co..... 1104.25
Berger Mfg. Co..... 1057.64
Jamestown Metal Equip. Co..... 1295.13
Metal Office Furniture Co..... 1320.18
Worley & Co..... 1526.97

SEATTLE, Wash.—Until December 8, bids will be received by Purchasing Agent, Post Office Department, Washington, D. C., to furnish furniture and screen-line equipment for the Post Office building at Seattle. Proposal No. 678.

NAPA, Cal.—Lyon Metal Products Co. at \$515.70 submitted low bid to Purchasing Dept. Post Office Division, Washington, D. C., to furnish metal shelving in the U. S. Post Office at Napa. Following bids received:
Lyon Metal Products Co.....\$515.70
Berger Mfg. Co..... 551.55
Interior Steel Equip. Co..... 567.25
Penn Metal Co..... 576.50
Metal Office Furniture Co..... 652.92
Jamestown Metal Equip. Co..... 707.33
Worley & Co..... 862.98

FORT LEWIS, Washington—Until December 15, 11 A. M., bids will be received by the Constructing Quartermaster, Fort Lewis, Washington, for the construction of one Quartermaster warehouse, one medical detachment barracks and one bakery at Fort Lewis, Wash.

Warehouse will be two stories and basement, 123 by 47 feet in area, concrete frame, concrete slab floors, brick exterior and tile roof.

Medical detachment barracks will be 123 by 37 feet in area, two stories and basement, concrete frame, concrete slab floors, tile roof and brick exterior walls.

Bakery structure will be but one-story in height, 81 by 82 feet, with an "L" 48 by 8 feet, concrete frame, tile roof and exterior brick walls. A small basement for heating plant only is specified.

Plans and specifications available from above office upon deposit of \$25 for warehouse; \$25 for medical bldg. and \$10 for the bakery.

NORTH HOLLYWOOD, Los Angeles Co., Cal.—Treasury Department rejected all bids for the construction of the post office building at North Hollywood. Funds are not available.

PEARL HARBOR, T. H.—Ralph E. Woolley, Honolulu, at \$143,700 awarded contract by Bureau of Yards and Docks, Navy Department, to construct facilities building at the Navy Yard, Pearl Harbor. Specification No. 7071

HAMILTON FIELD, Marin Co., Cal.—Meyer Construction Co., 735 Portola Drive, San Francisco, at \$83,100 awarded contract by War Department to construct one-story headquarters building at Hamilton Field

HAMILTON FIELD, Marin Co., Cal.—Fred. J. Early, Jr., 369 Pine St., San Francisco, at \$19,387 awarded contract by War Department to construct (1) black powder magazine; (1) demolition bombs magazine; (1) loading building magazine; (1) primers and detonators magazine; (1) pyrotechnics magazine; (1) chemical storage magazine.

LOS ANGELES, Cal.—Public Works Administration allotted additional funds in the amount of \$6500 to aid in the construction of a quarantine station at Los Angeles. Increase was made necessary by a change in plans for the building the original allotment being for \$63,000.

HAMILTON FIELD, Marin Co., Cal.—Azevedo & Sarmiento, 920 O Street, Sacramento, at \$38,900 submitted low bid to Constructing Quartermaster, Hamilton Field, to construct photographic laboratory at Hamilton Field. Following bids received:
Azevedo & Sarmiento, Sacto. \$38,900
DeLuca & Son, Inc., S. F. 40,875
Frank J. Reilly, S. F. 45,851
A. H. Seimer, San Anselmo 49,614
Bids held under advisement.

FORT LEWIS, Wash.—Peter Hansen, Tacoma, was awarded a contract by the War Department on Dec. 4 at \$9,547 for the construction of seven magazines for storage of shells at Ft. Lewis.

MARSHFIELD, Ore.—Treasury Department, Office of the Supervising Architect, rejected all bids received July 14 for the construction of the U. S. post office at Marshfield. Johnson & Wallwork, U. S. Bank Bldg., Portland, architects.

FORT LEWIS, Wash.—Andrew F. Mowat, McDowell Bldg., Seattle, at \$53,280 awarded contract by War Department for the construction of two hay storage buildings and one grain storage building at Fort Lewis, Wash.

SACRAMENTO, Cal.—As previously reported, Watson Mfg. Co., Jamestown New York, at \$4,334 submitted low bid to Treasury Department to furnish metal shelves and counters for the Sacramento post office. Following bids received:
Watson Mfg. Co., Jamestown \$4,334
The Berger Mfg. Co., Canton, O. 5,347
General Fireproofing Co., Washington, D. C. 5,652
Remington - Rand, Washington 7,165

NAPA, Napa Co., Cal.—As previously reported, E. C. Dehn, Hearst Bldg., San Francisco, at \$273.50 submitted low bid to Purchasing Agent, Washington, D. C., to furnish 20 Venetian blinds to be installed in the U. S. post office at Napa. Following bids received:
E. C. Dehn, San Francisco \$273.50
Warren Shade Co., Minneapolis 281.79
Bostwick Doodell Co., Norwalk, Ohio 284.27
E. C. Richardson, Los Angeles 285.93
Venetian Blind Corp., L. A. 286.40
McRee Green Mfg. Co. St. Louis 468.43
*Areoshade Co. Waukesha, Wis. 224.09
*Bid not considered as not under specifications.

ELY, Nevada.—Treasury Dept. rejected all bids for the construction of the post office building to be erected at Ely. Funds are not available.

SILVER CITY, New Mexico—Treasury Department rejected all bids to construct post office in Silver City. Funds are not available.

9— HOSPITALS

WASHINGTON, D. C.—Public Works Administration in Washington announced allotments for the construction of hospital facilities on Indian reservations, including the following:
Eastern Navajo, New Mexico, \$180,000.

Zuni, New Mexico, \$125,000.
Western Shoshone, Nev., \$75,000.
Fort Yuma, Arizona, \$75,000.

SAN FRANCISCO — Bids will be asked shortly by U. S. Public Health Service, Marine Hospital, 14th Ave. and Lake St., for copper gutter and downspout for building No. 7 at the U. S. Marine Hospital, 14th Ave. and Lake St., San Francisco. H. N. Krenkel, Material Officer.

NAPA, Cal.—J. A. Kinkead, 1135 Mission St., San Francisco, at \$332, awarded contract by State Purchasing Department for sash operators for greenhouse at the Napa State Home.

10— HOTELS

Contracts Awarded.
ALTERATIONS, ETC. Cost, \$25,000
SAN FRANCISCO, Powell Street, bet. Geary and Post Sts.

Alterations and re-decorating Garden Room of St. Francis Hotel (partitions work, carpentry, painting, etc.)

Owner—St. Francis Hotel (Mr. McCabe Manager).

Architect—Not Given.

Decorator — John R. Sovls, Denver, Colorado.

Ventilating—Scott Co., 243 Minna St., San Francisco.

Electric Wiring—H. S. Tittle, 85 Columbia Square, San Francisco.

Contract Awarded.
ALTERATIONS, ETC. \$25,000
SAN FRANCISCO, Powell Street, bet. Geary and Post Sts.

Alterations and re-decorating Garden Room of St. Francis Hotel (partitions work, carpentry, painting, ect.)

Owner—St. Francis Hotel (Mr. McCabe Manager).

Architect—Not Given.

Decorator — John R. Sovls, Denver Colorado.

Contractor—J. D. Hannah, 251 Kearny St., San Francisco.

As previously reported, ventilating awarded to Scott Co., 243 Minna St.; electric wiring to H. S. Tittle, 85 Columbia Square.

CHOWCHILLA, Madera Co., Cal.—Fire destroyed the Chowchilla Hotel November 29. Damage estimated at \$75,000. Pacific Building & Loan Association, owner. H. Uaget, manager.

12— POWER PLANTS

LODI, San Joaquin Co., Cal.—Lodi City Council has authorized an application to the Federal Public Works Administration for a grant and loan of \$550,000 to finance construction of a municipal power plant on a site owned by the city on the Mokelumne river below Pardee Dam, and a transmission line to the city.

13— PUBLIC BUILDINGS
FIRE HOUSES & JAILS

Seek Funds.
ADDITION Cost, \$90,000

VISALIA, Tulare Co., Cal.
Three-story addition to courthouse (central heating plant) approx. 20,000 sq. ft. of floor space.

Owner—County of Tulare.
Architect — Ernest J. Kump, Rowell Bldg., Fresno.

Structural Engineer—F. W. Kellberg, 320 Market St., San Francisco.

Tulare County supervisors applied to the Public Works Administration for a grant of \$39,251 to be used in finishing construction.

Contract Awarded.
ALTER FIREHOUSE

Cont. Price, \$6850
STOCKTON, San Joaquin Co., Cal.

Remodel interior of fire house (work involves carpentry work, plastering small amount of cabinet work, lockers, etc.)

Owner—City of Stockton.

Architect—Not Given.

Contractor—John Hackman, Borden Highway, Stockton.

Following bids received:
John Hackman, Stockton \$6850.00
J. C. Nunley, Stockton 6864.75
J. J. Cavanagh, Stockton 7290.00
C. H. Dodd, Stockton 7324.00

ALAMEDA COUNTY, Cal.—Federal Public Works Administration has granted \$462,000 to Alameda County to aid in the construction of the proposed new county courthouse in Oakland. A bond issue of \$1,712,000 will be voted on at the December 19 election to complete the financing.

Preliminary Plans Approved.
COURTHOUSE Cost, \$180,000
SAN LUIS OBISPO, Calif. Monterey Street and Palm.

Three-story reinforced concrete courthouse (14,255 sq. ft. floor space on ground floor) California - Spanish style, common brick facing, precast concrete trim, tile roof, elevator.

Owner—County of San Luis Obispo.
Architect—A. R. Walker and P. A. Eisen, Ltd.

An election will be held Dec. 19 to vote bonds to finance construction.

Planned.
FIREHOUSE Cost, \$—
PETALUMA, Sonoma Co., Cal.
Construct new firehouse.

Owner—City of Petaluma.
Architect — Brainard Jones, 226 Washington St., Petaluma.

Further details will be announced at a later date.

REDWOOD CITY, San Mateo Co., Cal.—Gus Waller, Redwood City, at \$2396 awarded contract by County Supervisors for alterations and reconstruction of certain portions of the San Mateo County Courthouse. Following bids received:
Gus Waller, Redwood City \$2396
H. H. Larsen, San Francisco 2713
C. L. Wold, San Francisco 2837
W. H. Toepke, 74 New Montgomery St., San Francisco, architect.

Planned.
MEMORIAL Cost, \$60,000
MONTEREY, Monterey Co., Cal.

Construct memorial building (fireproof construction).
Owner—City of Monterey and Agatha Few Estate.

Architect—W. O. Raiguel, Del Monte Hotel and C. J. Ryland, Monterey.

Proposed work is in a very preliminary stage.

SAN FRANCISCO—J. W. Bender Roofing & Paving Co., 18th and Bryant Sts., at \$623 awarded contract by Department of Public Works for roofing the Sarah B. Cooper School, located on the southwest corner of Lombard and Jones Sts.

Commissioned To Prepare Plans.
REPAIR SCHOOL Cost, \$11,650
SAN FRANCISCO. Twentieth and Mission Streets.
 Repairs and strengthening of Daniel Webster School auditorium.
 Owner—City and County of San Francisco.
 Engineer—C. H. Snyder, 251 Kearny St., San Francisco.

Plans Approved.
SCHOOL Cost, \$120,000
BAKERSFIELD, Kern Co., Cal. F St., bet. 31st and California Sts. High School Building (21 classrooms) Class A steel frame and reinforced concrete construction.
 Owner — Kern County Union High School District.
 Architect—Charles H. Biggar, Habermfeld Bldg., Bakersfield.
 It has not been definitely decided when bids will be asked.

Seek Funds.
ADDITION Cost, \$50,000
HEALDSBURGH, Sonoma Co., Cal. Steel and concrete wing addition to High School and alterations to present structure.
 Owner—Healdsburg High School Dist. (Paul Crabb, Principal).
 Architect—John I. Easterly, 302 Grant St., Healdsburg.
 Application for a loan from the Public Works Administration has been filed.

COALINGA, Cal.—Coalinga Union High School District will hold an election on December 18 at which time it is proposed to vote bonds in the sum of \$150,000, the proceeds to be used for constructing a senior high school building to cost \$100,000, a plunge to cost \$35,000 and tennis courts. W. D. Coates Jr., Rowell Bldg., Fresno, is the architect for the district.

Commissioned To Prepare Plans.
SCHOOL Cost, \$26,000
PORTOLA, Plumas Co., Cal. One-story frame and stucco grammar school (5 classrooms and recreation room)
 Owner—Portola Grammar School District.
 Architect—Harry Devine, California State Life Bldg., Sacramento.
 A bond election will be held on December 20 to finance construction.

SAN FRANCISCO—Engineers L. H. Nishkian, H. J. Brunner, W. L. Hunter and E. L. Cope are making a survey for earthquake weakness in the following schools:
 Lowell High School and annex; Bay View; Columbus (original building); Commodore Stockton (original building); Excelsior; Golden Gate; Hancock (original building); Jean Parker; Laguna Honda; Spring Valley (original building); Washington, ungraded, and the Washington Irving.

Contract Awarded.
DETENTION HOME Cost, \$—
VISALIA, Tulare Co., Cal. Northwest Third Avenue.
 One-story fireproof detention home (to accommodate 14 children).
 Owner—County of Tulare.
 Architect—Ernest J. Kump, Rowell Bldg., Fresno.
 Contractor—J. K. Hougham, 513 South Court St., Visalia.

PASADENA, Calif.—Pasadena board of education applied to the Public Works Works Administration for a loan and grant totaling \$100,000 to be used for financing the strengthening of Washington elementary school in Pasadena. Brick walls are to be replaced with concrete and cross-walls constructed.

SAN FRANCISCO.—Gill-Mann, 629 Folsom St., at 1,875 submitted low bid to Department of Public Works for painting Monroe School, Excelsior Avenue and Lisbon St. Complete bids follow:
 **Gill-Mann, San Francisco.....\$1,875
 W. G. Thompson 2,500
 Lee Dixon Painting Co..... 2,670
 Reliable Painting Co..... 2,740
 Raphael Company 2,750
 Patterson Brothers 2,900
 H. Ankers 3,000
 R. P. Paoli & Co. 3,170
 **Low bidder claims error.

SAN FRANCISCO.—J. Harold Johnson, 639 Brannan St., at \$3,029 submitted low bid to Department of Public Works for the installation of new wood floors at the Franklin School, Eighth St. bet. Harrison and Bryant. Following bids received:
 J. H. Johnson, 639 Brannan St.....\$3,029
 alternate 386
 Total 3,415
 De Luca & Sons 3,170
 alternate 425
 Total 3,595
 M. E. Vukicevich..... 3,267
 alternate 300
 Total 3,567
 H. L. Petersen..... 3,323
 alternate 420
 Total 3,743
 Jacks & Irvine..... 3,351
 alternate 372
 Total 3,723
 Ernest Icardi 3,409
 alternate 3,783
 Barrett & Hillp..... 3,447
 alternate 396
 Total 3,843
 William Martin 3,449
 alternate 142
 Total 3,591
 C. L. Wold..... 3,877
 alternate 460
 Total 4,337
 A. Petry 3,884
 alternate 250
 Total 4,134
 San Francisco Const. Co..... 3,989
 alternate 460
 Total 4,449
 Monson Bros. 4,060
 alternate 600
 Total 4,660
 Anderson & Ringrose..... 4,211
 alternate 569
 Total 4,783
 F. C. Amoroso & Sons..... 4,798
 alternate 376
 Total 5,168

Bids held under advisement.
 (3082) 1st report Nov. 16, 1933. 15

SAN FRANCISCO.—Lee Dixon Painting Co., 18 Eureka St., at \$2,148 submitted low bid to Department of Public Works for interior painting of the Emerson School, located on California St. between Scott and Divisadero. Following bids received:
 Lee Dixon Painting Co.....\$2,148
 R. P. Paoli..... 2,178
 Reliable Painting Co. 2,320
 atterson Bros., Oakland..... 2,600
 H. Ankers 2,600
 Raphael Company 2,740
 Gill-Man Company 2,897
 Reliable Painting Co. 2,950
 Bids held under advisement.

SAN FRANCISCO.—J. W. Bender Roofing & Paving Co., 18th and Bryant Sts., at \$623.00 submitted low bid to Department of Public Works for roofing the Sarah B. Cooper School,

located on the SW corner of Lombard and Jones Sts. Complete bids follow:
 J. W. Bender Co..... \$623.00
 Alta Roofing Co..... 626.00
 Malott & Peterson..... 683.00
 Empire Roofing Co..... 719.00

Plans Completed.
GYMNASIUM Cost, \$65,000
SANTA ROSA, Sonoma Co., Cal. One-story reinforced conc. and brick veneer gymnasium (171x235) reinf. concrete walls (separate gym. for men and women) swimming tank.
 Owner — Santa Rosa Junior College Dist. (Floyd Bailey, dean, Santa Rosa).
 Architect — Wm. Herbert, Rosenberg Bldg., Santa Rosa.
 Plans have been forwarded to Sacramento for approval.

To Ask Bids In About One Week.
EDUCATIONAL BLDG. Cost, \$40,000
BERKELEY, Alameda Co., Cal. Dana St. and Bancroft Way.
 Two-story Class C educational bldg. (25 classrooms) concrete outside wall, asbestos shingle roof, steam heating system, wood floors, etc.
 Owner—Trinity Methodist Church.
 Architect—George Rushforth, 21 San Mateo St., Berkeley.
 Engineer—Henry D. Dewell, 55 New Montgomery St., San Francisco.

SAN FRANCISCO—W. G. Thompson, 336 Church St., at \$2500 awarded contract by Department of Public Works for painting Monroe School, Excelsior Ave. and Lisbon St.

SAN FRANCISCO—J. Harold Johnson, 639 Brannan St., at \$3415 awarded contract by Department of Public Works for the installation of new wood floors at the Franklin School, Eighth St., between Harrison and Bryant Sts.

16—BANKS, STORES AND OFFICES

Contract Awarded.
STORE Cost, \$5400
SAN JOSE, Santa Clara Co., Calif. SW Post and San Pedro Sts.
 One - story reinforced concrete and brick store bldg. (3 stores).
 Owner—Rose Picetti and Egisto Cerredi, 169 Clifford Ave., San Jose.
 Plans by L. C. Rossi, San Jose.
 Contractor—Mike Perino, 148 Race St., San Jose.

Contract Awarded.
ADDITION Cost, \$21,400
BAKERSFIELD, Kern Co., Calif. 21st and I Streets.
 Reinforced concrete addition to automobile building.
 Owner—General Motors Garage.
 Architect—Edwin J. Symmes, Habermfeld Bldg., Bakersfield.
 Contractor—Carl Ingalls, Inc., P. O. Box 1593, Bakersfield.
 (2953) 1st report Oct. 31; 2nd, Nov. 17, 1933.

To Ask Bids.
OFFICES Cost, \$—
PETALUMA, Sonoma Co., Cal. Fourth and D Streets (50x100 feet).
 One-story frame and stucco medical office building (medical and dental equipment, etc.)
 Owner—Dr. Mark L. Lewis and Dr. Max Kameny, 41 Main St., Petaluma.
Private Plans.
 Owners will ask bids in about one week.

Plans Being Prepared.
STORES AND OFFICES \$15,000
ALBANY, Alameda Co., Cal. Solano Avenue.
 One-story frame and stucco store building (3 stores) and one two-

story frame and stucco store and office building (3 stores, 4 offices for dentists); tile and composition roof, wood floors, etc.

Owner and Builder—C. M. McGregor, Care W. W. Dixon.
Plans by W. W. Dixon, 1844 5th Ave., Oakland.

Bids will be asked after January 1.

Contract Awarded.

ALTER STORE Cost, \$2000
SAN JOSE, Santa Clara Co., Cal. 340 South First Street.

Alterations to store front.
Owner—Melvin, Roberts & Horworth, 167 S First St., San Jose.
Architect—Not Given.
Contractor—San Jose Commercial Co., 78 S Market St., San Jose.

Sub-Contracts Awarded.

REPAIRS Cost, \$4000
OAKLAND, Alameda Co., Calif. 394 11th Street.

Repair fire damage to building.
Owner—Bank of America N. T. & S. A., 12th and Broadway, Oakland.
Plans by Engineering Dept. of Owner.
Contractor—C. Dudley De Velbiss, 354 Hobart St., Oakland.

Sheet Metal—Scott Sheet Metal Works
2201 Brush St., Oakland.

Electric—Scott - Buttner Elec. Co., 19 Grand Ave., Oakland.

Sub-Bids Being Taken.

STORE Cost, \$18,000
SAN MATEO, San Mateo Co., Cal. Third Avenue.

One-story reinforced concrete store building (2 stores) tile and composition roof, wood floors, gas steam heating system, etc.

Owner—Martin Stelling 155 Montgomery St., San Francisco.
Architect—Earl Bertz, Monadnock Bldg., San Francisco.

Contractor—Barrett & Hlpl, 918 Harrison St., San Francisco.

Sub-bids are being received on all portions of the work.

Contract Awarded.

ADDITION Cost, \$7000
SAN FRANCISCO, NE Third and Eighteenth Streets.

One-story frame and stucco addition to office building (tile roof).
Owner—Gilmore Oil Co., Premises.

Architect—Hibbard, Gerity & Kerton, 816 W. 15th St., Los Angeles.
Contractor—J. Harold Johnson, 639 Brannan St., San Francisco.

Plans Being Prepared.

CAFE, ETC. Cost, \$—
SACRAMENTO, Sacramento Co., Cal. Auburn Highway, 12 miles out of Sacramento.

One-story reinforced concrete cafe, restaurant (dance floor, etc.)

Owner—H. Meredith et al.
Architect—Charles Dean, California State Life Bldg., Sacramento.

Plans Being Figured—Bids Close Dec. 13, 5 P. M.

STORE Cost, \$6000
OAKLAND, Alameda Co., Cal. Lakeshore Boulevard.

One-story reinforced concrete store building (50x80 ft.) wood trusses, tar, gravel and composition roof, Vitrolite front, metal sash bars.

Owner—L. B. Hoge.
Architect—Ray Keefer, 770 Wesley St., Oakland.

Structural Engineer—V. P. O'S., 2929 Russell St., Berkeley.

Following will submit bids:

C. Dudley DeVelbiss, 354 Hobart St., Oakland.

Price Const. Co., 1723 Webster St., Oakland.
A. T. Beckett, 224 Scenic Ave., Berkeley.

B. F. Woolley, 5621 Thorn Road, Oakland.

C. H. Thrans, 28 Home Place, Oakland.

J. R. Armstrong, 1131 Fleet Road, Oakland

Sub-Bids Being Taken.

ALTERATIONS Cost, \$8,000
SALINAS, Monterey Co., Cal. Main Street.

Alter two-story Class C store building.
Owner—Montgomery Ward & Co., 125 Monterey St., Salinas.

Plans by Engr. Dept. of Owner, Chicago.

Supt. of Const.—W. H. Cook, % Montgomery Ward & Co., 125 Monterey St., Salinas.

Sub-bids are being received by Mr. Cook.

17— THEATRES

Contract Awarded.

ALTER THEATRE Cost, \$12,000
SAN FRANCISCO, No. 645 Broadway.

Alterations to theatre building.
Owner—North Beach Theatre, Inc., 25 Taylor St., San Francisco.

Architect—Not Given.
Contractor—Alfred J. Hopper, 1769 Pleasant Valley Rd., Piedmont.

Planned.

THEATRE Cost, \$2,850,000
PORTLAND, Oregon, SW Sixth and Morrison Streets.

Civic theatre (to house history museum, planetarium, space for mining exhibit, art shops, headquarters for State game commission, etc.)

Owner—City of Portland.
Architect—Lawrence, Holford & Allyn Farling Bldg., Portland.

Structural Steel Contract Awarded.
ALTER THEATRE Cost, \$12,000
SAN FRANCISCO, No. 645 Broadway.

Alterations to theatre building.
Owner—North Beach Theatre, Inc., 25 Taylor St., San Francisco.

Architect—Not Given.
Contractor—Alfred J. Hopper, 1769 Pleasant Valley Rd., Piedmont.

Structural Steel—Judson Pacific Co., 609 Mission St., San Francisco.

18— WHARVES & DOCKS

Prospective Bidders.

December 5, 1933

SHED Cost, \$—
SAN FRANCISCO, Pier No. 1, Fort Mason.

Two-story steel and concrete shed and utilities (concrete walls, steel floor and roof).

Owner—United States Government.
Plans by Constructing Quartermaster Fort Mason.

Following have procured plans. Bids open Dec. 14, 10 a. m.:

James L. McLaughlin Co., 251 Kearny St., San Francisco.

J. M. Peters, 797-35th Ave., San Francisco.

K. E. Parker & Co., 135 So. Park, San Francisco.

Eaton & Smith, 715 Ocean Ave., San Francisco.

Barrett & Hlpl, 918 Harrison St., San Francisco.

H. L. Peterson, 731 Treat Ave., San Francisco.

Healy-Tibbitts Construction Co., 64 Pine St., San Francisco.

Clinton Construction Co., 923 Folsom St., San Francisco.

R. E. Campbell, 711 Central Bldg., Los Angeles.

C. L. Wold Co., 4412 Fulton St., San Francisco.

McDonald & Kahn, 206 Financial Center Bldg., San Francisco.

Dinwiddle Construction Co., 1101 Crocker Bldg., San Francisco.

Moore Dry Dock Company, Foot of Acline, Oakland.

Frank J. Kelly, 666 Mission St., San Francisco.

William Sp'voek, Hobart Bldg., San Francisco.

Schuler & McDonald, Inc., 1723 Webster St., Oakland.

M. E. Vukicevich, 666 Mission St., San Francisco.

Butte Construction Co., 2014 Folsom St., San Francisco.

Plans and specifications available from above office upon deposit of \$25.

19—MISC. CONSTRUCTION

HAMILTON FIELD, Cal.—Until December 13, 11 A. M., bids will be received by the Constructing Quartermaster, Hamilton Field, San Rafael, for the construction of the A.C. oil distribution system and oil house at Hamilton Field.

Plans and specifications obtainable from the above office upon deposit of \$5.

SAN FRANCISCO.—Golden Gate Iron Works, 1541 Howard St., at \$423 awarded contract by the U. S. Forest Service, Ferry Bldg., for furnishing and fabricating structural steel for one 40-ft. beam span for the Orleans bridge, and at \$1,090 for furnishing and fabricating steel for one 75-ft. truss span for Indian Creek bridge. Judson-Pacific Co., 609 Mission St., at \$540 awarded contract for furnishing and fabricating structural steel for one 50-ft. beam span for Orleans bridge No. 2. The bids were taken as follows:

1) 40 ft. beam span for Orleans Bridge No. 1;
2) 50-ft. do for Orleans Bridge No. 2;
3) 75-ft. truss span for Indian Creek Bridge.

Complete bids follow:

Golden Gate Iron Works, San Francisco (1) \$423 f.o.b. plant; (2) \$546 f.o.b. plant; (3) \$1090 f.o.b. plant.

(1) 465 f.o.b. Eureka; (2) \$606 f.o.b. Eureka; (3) \$1230 f.o.b. Hornbrook.

McClintic-Marshall Co., San Francisco, 1) \$435 plant; 505 Eureka; (2) \$550 plant, \$635 Eureka; (3) \$1372 plant, \$1372 Hornbrook.

Eureka Boiler Works, Eureka, (1) \$48.75 plant; (3) \$1601.60 plant.

Independent Iron Works, Oakland, (1) \$489 plant, \$558 Eureka; (2) \$594 plant, \$679 Eureka; (3) \$1190 plant, \$1362 Hornbrook.

Judson-Pacific Co., San Francisco, 1) 504 plant, \$540 Eureka; (2) \$540 plant, \$588 Eureka; (3) \$1309 plant, \$1479 Hornbrook.

Kyle Steel Const. Co., Los Angeles, (1) 529 plant; (2) \$635 plant; (3) \$1,240 plant.

Dyer Bros. Golden West Iron W'ks, San Francisco, 1) \$556 plant; (2) \$541 plant; (3) \$1536 plant.

Schrader Iron Works, San Francisco, (1) \$557 plant, \$635 Eureka; (2) \$582 plant \$678 Eureka; (3) \$1240 plant \$1380 Hornbrook.

*Moore Dry Dock Co., Oakland, (1) \$422 plant; (2) \$538 plant; (3) \$1250 plant.

*Moore Dry Dock Co. did not meet time limit of 30 days.

SAN FRANCISCO.—City Improvement Co., 2625 Harrison St., Oakland, at \$843.55 submitted low bid to Signal Officer, Headquarters Ninth Corps Area, Presidio, San Francisco, for Rehabilitation of Telephone Project, West Cantonment Area, Presidio of San Francisco. Complete bids follow: City Imp. Co., Oakland.....\$ 843.50
Bradshaw & Degan, Oakland.... 986.00
G. M. Gest, Oakland..... 1470.00
American Electric Co., S. F.... 1680.00
Severin Electric Co., S. F..... 1775.00
Eureka Elec. Radio Co., S. F. 1840.00

L. Hecht & T. J. Doyle, S. F. 4937.09
All bids held under advisement.

PEARL HARBOR, T. H.—Until Dec. 29 (date postponed from Dec. 13) bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., for construction of fleet moorings at Pearl Harbor. Spec. No. 7093.

OAHU, T. H.—A. Nekomoto, Honolulu, at \$12,000 submitted low bid to Bureau of Yards and Docks, Navy Department, to construct reinforced concrete magazine and barricade wall, asphalt surfaced road, boiler house equipment and alterations to an existing building at the Naval Ammunition Depot, Oahu. Spec. No. 7257.

SAN FRANCISCO.—Until Dec. 26, 2 P. M. bids will be received by Supt. of Lighthouses, Custom House, San Francisco, for conversion of Lightship No. 83 at Yerka Buena Island. Work involves changing from coal burner to oil burner, water tube boilers, fuel tank, etc.

Contract Awarded.
WALL, ETC. Cost, \$—
SAN FRANCISCO—NW Sixteenth and Alabama Streets.
Class B concrete boundary wall and yard.
Owner—S. F. Society for Prevention of Cruelty to Animals.
Engineer—C. Heller, 111 Sutter St., San Francisco.
Contractor—DeLuca & Sons, 1745 Filbert St., San Francisco.

Preparing Sketches.
BLEACHERS, ETC. Cost, \$—
OAKLAND, Alameda Co., Cal. Bushrod Park.
Bleacher seats, combination dressing rooms and showers.
Owner—City of Oakland.
Engineers—Hussey & Belcher, Syndicate Bldg., Oakland.

PORT TOWNSEND, Wash.—Treasury Department, Office of the Supervising Architect, rejected all bids received for the construction of the U. S. quarantine station, boat basin and grading at Port Townsend.

HAMILTON FIELD, Marin Co., Cal.—Bennett & Taylor, 1978 S Los Angeles St., Los Angeles, at \$32,884 awarded contract by the Constructing Quartermaster, Hamilton Field, for construction of extensions to electrical distribution and street lighting systems at Hamilton Field.

SAN FRANCISCO.—Golden Gate Iron Works, 1541 Howard St., at \$1337 f.o.b. San Francisco, and \$1477 f.o.b. Hornbrook, submitted low bid to the U. S. Forest Service, Ferry Bldg., for furnishing one 84-ft. steel truss span fabricated. Complete bids follow:

Golden Gate Iron Works, San Francisco, \$1337 f.o.b. San Francisco; \$1477 f.o.b. Hornbrook.
Kyle Steel Const. Co., Vernon, \$1,363 f.o.b. Vernon.
Schrader Iron Works, San Francisco \$1403 f.o.b. San Francisco.
McClintic-Marshall Corp., San Francisco, \$1406 f.o.b. Alameda; \$1530 f.o.b. Hornbrook.
Independent Iron Works, Oakland, \$1505 f.o.b. Oakland; \$1675 f.o.b. Hornbrook.
Western Iron Works, San Francisco \$1520 f.o.b. San Francisco.
Eureka Boiler Works, Eureka, \$1,664 f.o.b. Eureka.
Dyer Bros. Golden West Iron Works, San Francisco, \$1955 f.o.b. San Francisco.

PEARL HARBOR, T. H.—Industrial Piping & Engineering Co., Baltimore,

at \$153,900 submitted low bid to the Bureau of Yards & Docks, Navy Department, Washington, D. C., for improvement of fuel oil system at Pearl Harbor. Spec. No. 7136. Engineer's estimate, \$112,000. Complete bids will be published shortly.

20—MISC. SUPPLIES AND MATERIALS

SAN FRANCISCO.—Following bids received by the U. S. Forest Service, Ferry Bldg., for furnishing the following Douglas fir:

(A) 10,640 ft. struc. grade, f.o.b. mill, Hornbrook and bridge site near Happy Camp;
(B) 24,228 ft., struc. grade, f.o.b. mill, Hornbrook and bridge site.
Hammond Lumber Co., San Francisco, (A) \$232.93 f.o.b. Mill City, Ore.; \$272 f.o.b. Hornbrook, Cal.; \$362 f.o.b. bridge site; (B) \$560.73 f.o.b. Mill City; \$653 f.o.b. Hornbrook; \$859 f.o.b. bridge site.

Chas. Nelson Co., San Francisco (A) \$233.03 f.o.b. Cottage City, Ore.; (B) \$560.91 f.o.b. Cottage City.

Santa Fe Lumber Co., San Francisco, (A) \$254 f.o.b. Forest Grove, Ore.; \$319 f.o.b. Hornbrook; (B) \$398 f.o.b. Forest Grove; \$759 f.o.b. Hornbrook.

McCormick Supply Co., San Francisco, (A) \$270 f.o.b. Springfield, Ore.; \$337 f.o.b. Hornbrook; (B) \$663 f.o.b. Springfield, \$813 f.o.b. Hornbrook.

MacDonald & Harrington, San Francisco, (A) \$276 f.o.b. Cottage Grove, (B) \$628 f.o.b. Cottage Grove.

Neidermeyer Martin, Portland, (A) \$508 f.o.b. Portland; Alt. (A) \$244 f.o.b. Portland; (B) \$654 f.o.b. Portland, Alt. (B) \$508 f.o.b. Portland.

Loop Lumber Co., San Francisco, (A) \$822 f.o.b. San Francisco; (B) \$355 f.o.b. San Francisco.

SAN FRANCISCO.—Milham Exploration Co., 4175 Hill St., Los Angeles, at \$2580 submitted high bid to T. A. Brooks, Purchaser of Supplies, City Hall, San Francisco, for purchase of used pipe and pumping plant, under Sale No. 84. Complete bids follow:

(A) Milham Exploration Co., Los Angeles, \$2580.00.
(B) H. Krieger, San Francisco, \$1,666.60.
(C) Pacific Iron & Metal Co., San Francisco, \$1640.75.
(D) Harry A. Key, \$1250.00.
(E) Pioneer Pipe Co., San Francisco, \$1155.00.
(F) Sacramento Plumbing Supply Co., Sacramento, \$885.00.

Quantities and unit prices follow:
(1) 4000 ft. 2½-in. used stand. wrought steel pipe, uncoupled, per ft.;
(2) 11,000 ft. 3-in. do;
(3) Corral Hollow Wells used pumping plant.
Milham Exploration Co., (1) \$.10; (2)

\$.13; (3) \$750.00.

H. Krieger, \$166.60 (submitted total only).

Pacific Iron & Metal Co., (1) \$.9775; (2) \$.09875; (3) \$252.00.

Harry A. Key, (1) \$.06; (2) \$.08; (3) \$130.00.

Pioneer Pipe Co., (1) \$.95; (2) \$.07; (3) \$185.00.

Sacramento Plbg. Supply Co., (1) \$.05; (2) \$.06; (3) \$25.00.

SAN MATEO, San Mateo Co., Cal.—Until Dec. 18, 8 P. M., bids will be received by E. W. Foster, city clerk, for furnishing rock, cement and oil in connection with setting back walls and gates at the DeLaveaga Home, San Mateo. Estimated cost, \$3,000.

WASHINGTON, D. C.—All bids received under Schedule 990 by the Bureau of Supplies & Accounts, Navy Department, Washington, D. C., for furnishing fuel oil, bunker, grade B, have been rejected.

PANAMA CANAL ZONE.—Barber Asphalt Co., Philadelphia, at \$1,200, 2% discount, awarded contract by the Bureau of Supplies & Accounts, Navy Department, Washington, D. C., for furnishing 100,000 lbs. cement, asphalt, steep roofing.

BOULDER CANYON, Nev.—Pioneer Paper Co., 5500 S Alameda St., Los Angeles, was awarded the contract by A. MacD. Brooks, Purchasing Agent, Bureau of Reclamation, Dec. 1, at \$0.24 per gal. Los Angeles, for furnishing 155 drums of asphalt emulsion.

LOS ANGELES, Cal.—Soule Steel Co., 6200 Wilmington Ave., Los Angeles, at \$10,093.98 awarded contract by Board of Directors, Metropolitan Water District, for furnishing 265,000 lbs. steel reinforcing bars under Spec. No. M-2020. Bid No. 18112. The bids were opened November 28.

SAN FRANCISCO.—Following bids received by T. A. Brooks, Purchasing Agent, City Hall, under Bid No. 1119 for furnishing (5) five units, consisting steel covers, frames and appurtenances; (2) five units, consisting of bolts, studs, and nuts. Complete bids follow:

Union Machine Co., (1) \$4419; (2) \$1045
Enterprise Foundry Corp., (1) \$5370; (2) \$475.
Payne's Bolt Works, (2) \$960.
A. J. Glesner Co., (2) \$973.
A. M. Castle & Co., (2) \$825.
Joshua Hendy Iron Works, (1) \$4540; (2) \$817.
California Screw Co., Inc., (2) \$983.
Bethlehem Shipbuilding Corp., (1) \$5,200.
General Metals Corp., (1) \$4885.
All bids held under advisement.

Move More Dirt Faster with LE TOURNEAU Equipment

A complete line of grading machinery — designed by a contractor — developed on actual construction jobs — built to stand continuous use under the worst conditions.

ENGINEER'S CONSULTATION FREE

R. G. LE TOURNEAU, INC.

Wilson Way at Roosevelt

Stockton, Calif.

MACHINERY & MATERIAL

Bid calls for construction machinery and materials and miscellaneous equipment and supplies purchased by Federal, State, Municipal and other public agencies.

LOS ANGELES CITY

LOS ANGELES, Cal.—Until Dec. 14, 11 A. M., bids will be received by A. J. Holm, Los Angeles City Purchasing Agent, 107 City Hall, for furnishing and delivering to Water & Power Dept. services of hauling transmission line tower steel under Specifications No. 3264. The bids will be taken on the following approximate quantities to be hauled and delivered at various locations on the transmission line road:

Item I 915 tons (consisting of 96 towers).

Item II 1401 tons, (134 towers).

Item III 2664 tons, (296 towers).

Item IV 2700 tons, (306 towers).

Item V 1405 tons, (133 towers).

Specifications obtainable from above office.

CANAL ZONE

PANAMA CANAL ZONE—Until December 15, bids will be received by the General Purchasing Officer, the Panama Canal, Washington, D. C., under Schedule 2923, as follows:

1 gasoline-driven lawn mower, 1 paint mixer, 3 1-h. p. electric motors, 3 5-kva transformers, 300 telephone condensers, 225 electric fixtures, 6 sheets insulating fiber, 25,000 ft. wire, 400 lbs. magnet wire, 5000 ft. cord, 1000 ft. rigid steel conduit, assorted files, 20,000 lin. ft. copper wire cloth, 32,000 lin. ft. galv. wire poultry netting, 2174 pcs. window glass, 84 pcs. polished plate glass, 48 pcs. desk glass, 500 sq. yds. battleship linoleum, 500 lbs. sheet rubber packing, 37 pcs. slate blackboard, 3 rolls cork bulletin boards, and 25 pcs. untreated piling.

MADERA CITY

MADERA, Cal.—Until December 18, bids will be received by the Board of Trustees of the City of Madera, at the City Hall in Madera for one set of Turbine pump bowls which are to replace present bowls, which are located at Tenth and D Streets, at well No. 6, Madera, Column of which is of Byron Jackson manufacture.

Specifications obtainable from the above office. James K. Wakefield, City Clerk.

NAVY DEPARTMENT

BREMERTON, Wash.—Until Dec. 15 10 A. M., bids will be received by the Supply Officer, Puget Sound Navy Yard, under Req. NSA 210, as follows: STEEL, plate, hull, medium, grade M, black. 59,274 lbs.;

FLASHLIGHTS, electric, 21,400, Western Yards. Sch. 1249; Dec. 12.

KETTLES, galley and kitchen, steam jacketed, aluminum or corrosion-resisting steel, 20-gal. capacity, 10, Mare Island. Sch. 1247; Dec. 12.

RANGES, oil-burning, and equipment, East & West Yards. Sch. 1269; Dec. 15.

FURNACE, non-ferrous electric, 50-k.w., Mare Island. Sch. 1320; Dec. 15.

PLANNER, metal-cutting, motor-driven, Puget Sound. Sch. 1307; Dec. 19.

WASHINGTON, D. C.—Bids will be received by the Bureau of Supplies & Accounts, Navy Department, Washington, D. C., as follows:

LINOLEUM, 360 sq. yds., San Diego; 25,000 sq. yds., San Diego and Mare Island. Sch. 1246; Dec. 12.

BRICKS, diatomaceous earth calcined, 36,000. Puget Sound; diatomaceous earth bricks, 6,000, Mare Island; diatomaceous earth bricks 8,000, Puget Sound; diatomaceous earth, 2,700 lbs., Mare Island. Sch. 1258; Dec. 12.

TAPE, friction, 3,800 lbs. San Diego; 16700 lbs., Mare Island; 1,800 lbs., Puget Sound; insulating tape, 15,933 lbs. Western yards. Sch. 1257; Dec. 12.

HOSE, rubber-metal, gasoline, 11,300 ft., Western Yards. Sch. 1248; Dec. 12.

HOSE, cotton and rubber, East & West Yards. Sch. 1286; Dec. 12.

COMPOUND, rust-preventive, 28,400 lbs., Western Yards. Sch. 1260; Dec. 12.

GREASE, mineral and graphite lubricating, East & West Yards. Sch. 1265; Dec. 12.

FUEL OIL, bunker "B," as required during the month of January, West Coast. Sch. 1338; Dec. 15.

ASPHALT, road and pavement, 600,000 lbs., Mare Island. Sch. 1274; Dec. 15.

METAL, expanded steel, 23,000 sq. ft., Mare Island. Sch. 1301; Dec. 19.

HOSE, fire, 3,000-ft., Mare Island; 3,500-ft., Puget Sound. Sch. 1290; Dec. 19.

LUMBER, pine, East & West Yards. Sch. 1281; Dec. 19.

LUMBER, white oak, 56,500-ft., Mare Island; 75,000-ft., Puget Sound. Sch. 1270; Dec. 19.

GLASS, window and plate, East & West Yards. Sch. 1306; Dec. 19.

REDWOOD, 365,000-ft., Mare Island. Sch. 1280; Dec. 19.

ASH, white, 111,000-ft., Mare Island; 30,600-ft., Puget Sound. Sch. 1271; Dec. 19.

STEEL, corrosion-resisting, Mare Island. Sch. 1300; Dec. 19.

PLANKING, boat, 70,000-ft., Mare Island; 15,000-ft., Puget Sound. Sch. 1303; Dec. 19.

BALSA, 40,000-ft. b. m., Mare Island. Sch. 1304; Dec. 19.

OIL, soluble cutting, mineral lard, paraffin, and petrolatum, East & West Yards. Sch. 1305; Dec. 19.

ALLOYS, aluminum. Sch. 1129. Bids postponed from Nov. 28 to Dec. 27.

SAN FRANCISCO—Bids will be received by the Purchasing Officer, 12th Naval District, 100 Harrison St., San Francisco, for the following materials for the New Magazine Buildings at Mare Island:

STEEL, strand, Messenger, 3/16-in., 2500 ft. Sch. 9323; Dec. 13.

CABLE, telephone, 6 pair, 3000 ft. Sch. 9322; Dec. 13.

CABLE, 3-conductor, stranded copper, 4000 ft. Sch. 9321; Dec. 13.

CONDUIT, fibre, electric, 3/4-in. inside, 2500 ft. Sch. 9320; Dec. 13.

BRASS, rolled naval, 3000 lbs. Sch. 9317; Dec. 14.

Specifications obtainable from the above office.

MET. WATER DISTRICT

LOS ANGELES, Cal.—Until December 12, 10 A. M., bids will be received by Saul A. Joseph, Purchasing Agent, Metropolitan Water District, Room 504, 306 W. Third St., Los Angeles, for furnishing lumber under Bid No. 18484. The items are:

LOT 1

(1) 950,000 B. F. 2x12x6-ft. No. 2 common rough Douglas fir (the successful bidder on item 1 may furnish longer lengths than 6 ft. if convenient at the price quoted for 6-ft.);

(2) 150,000 B. F. 2x12x16-ft. No. 2 common rough Douglas fir;

(3) 150,000 B. F. 2x12x18-ft. No. 2 common rough Douglas fir;

(4) 950,000 B. F. 2x12x6-ft. No. 2 common rough Douglas fir (the successful bidder on item 4 may furnish longer lengths than 6 ft. if convenient at the price quoted for 6-ft.);

(5) 150,000 B. F. 2x12x16 ft. No. 2 common rough Douglas fir;

(6) 150,000 B. F. 2x12x18 ft. No. 2 common rough Douglas fir.

Delivery f.o.b. care and/or trucks Los Angeles Harbor or Long Beach Harbor.

Bidder to show any sales tax or any other tax not included in prices quoted.

LOT 2

(1) 950,000 B. F. 2x12x6 ft. No. 2 common rough Douglas fir (the successful bidder on item 1 may furnish longer lengths than 6 ft. if convenient at the price quoted for 6-ft.);

(2) 150,000 B. F. 2x12x16 ft. No. 2 common rough Douglas fir;

(3) 150,000 B. F. 2x12x18 ft. No. 2 common rough Douglas fir;

(4) 950,000 B. F. 2x12x6 ft. No. 2 common rough Douglas fir (the successful bidder on item 4 may furnish longer lengths than 6 ft. if convenient at the price quoted for 6-ft.);

(5) 150,000 B. F. 2x12x16 ft. No. 2 common rough Douglas fir;

(6) 150,000 B. F. 2x12x16 ft. No. 2 common rough Douglas fir.

Delivery f.o.b. cars at mill.

CALIFORNIA STATE

SACRAMENTO, Cal.—Until December 12, 10 A. M., bids will be received by the State Bureau of Purchases, Sacramento, under Quotation No. 18739, and Requisition No. 1145½ for two motor graders, 1-man, scarifier attached. Delivery f.o.b. San Bernardino, for Division of Highway-Shop 8. Specifications obtainable from the above office.

WAR DEPARTMENT

MASON, CAL.—Until December 15, 10 a. m., bids will be received by the Quartermaster Supply Officer, San Francisco General Depot, Fort Mason, San Francisco, as follows:

GAUGES, 2,000-l. f. wrought-iron pipe, return bends, valves, unions, couplings reducer, tees, 19,200 sq. ft. cork, 8,000 lbs. mineral wool, 36 bbls. asphalt, induction motor, ammonia condensers, and a centrifugal pump.

Circular No. 928-34-110-Miscellaneous. Specifications obtainable from the above office.

ENGINEERING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

- | | |
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| 21.—Bridges | 30.—Reservoirs and Dams |
| 22.—Dredging, Harbor Works, Excava. | 31.—Pipe Lines and Wells |
| 23.—Irrigation Proj. | 32.—Sewers & Sewage Disposal Plants |
| 24.—St. Light. Systems | 33.—Water Works |
| 25.—Machinery and Equipment | 34.—Parks & Playgrounds |
| 26.—Railroads | 35.—Tunnels |
| 27.—Fire Alarm Sys. | |
| 28.—Fire Equipmant | |
| 29.—Streets & Highways | |

21— BRIDGES

VENTURA COUNTY, Calif.—Until Jan. 5, 10 A. M., b'ds will be received by the Ventura County Supervisors for the construction of a reinforced concrete box culvert and catchbasin inlet in Foothill Blvd. at Brent St., at the Ventura city limits, under Contract No. 860, involving:

- (1) 22 cu. yds. Class A concrete;
- (2) 3500 lbs. reinf. steel;
- (3) one catchbasin cover;
- (4) 120 sq. ft. asph. conc. paving.

C. W. Petit, county surveyor; L. E. Hallowell, county clerk.

VENTURA COUNTY, Calif.—J. T. Innell, P. O. Box 192, Ventura, was awarded contract by Ventura County Supervisors Dec. 1 at \$791 for the construction of the Telegraph Road culvert at Palomares Ave. and Day Rd., under cash contract No. 857, involving:

- (1) 140 ft. 18-in. x No. 14 corr. metal pipe;
- (2) 4 cu. yds. Class A concrete;
- (3) 100 lbs. reinf. steel;
- (4) 2750 sq. ft. oil macadam.

C. W. Petit, county surveyor. Silveria & Robbins, Inc., Ventura, submitted the only other bid at \$800.

LOS ANGELES, Cal.—E. G. Perham, 1128 Stearns Drive, at \$5100 submitted low bid to the Los Angeles County Supervisors, December 4, on Proposal No. 1, for constructing a timber and steel bridge on Carmenita (Moody) Road over Coyote Creek. Wm. Hess, 8009 S. Hooper St., submitted the low bid on Proposal No. 2 at \$5200. The items are:

- (1) timber and steel bridge, part redwood and part Douglas fir;
- (2) timber and steel bridge complete, being all redwood.

The bids were:

	(1)	(2)
E. G. Perham.....	\$5100	\$5350
Wm. Hess.....	5300	5300
Bongiovanni Constr. Co.....	5444	5694
J. B. McIntosh.....	5661	5936
G. P. Kristensen, et al.....	5800	5950
Byerts & Dunn.....	5851	5840
G. A. Grebisch.....	6080	6250

All bids but the three low were rejected. George W. Jones, County Rd. Commissioner.

CALAVERAS COUNTY, Cal.—Until December 27, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for constructing two bridges between 6 and 7 miles south of San Andreas; one across San Antonio Creek consisting of five 30-ft. steel stringer spans on concrete piers and abutments, and the other across San Domingo Creek, consisting of five 30-ft. steel stringer spans

on concrete piers and abutments, involving:

- (1) 275 cu. yds. struc. excav.;
- (2) 95 cu. yds. Class A Port. cement concrete footing blocks;
- (3) 475 cu. yds. Class A Portland cement concrete;
- (4) 57,000 lbs. bar reinf. steel;
- (5) 140,000 lbs. struc. steel;
- (6) 1,200 lbs. cast steel;
- (7) 685 lin. ft. solid timber railing;
- (8) 150 cu. yds. light riprap;
- (9) 1 lot misc. items of work.

Plans and specifications obtainable at above office, and are on file at the offices of the District engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

LOS ANGELES, Cal.—Until Dec. 27, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for constructing bridge across Ramona Blvd. at Cornwell St. in Los Angeles, consisting of two reinforced concrete slab spans approximately 50 ft. in length and two timber spans approximately 19 ft. in length, and grading and surfacing the roadway approach with crushed rock and oil, involving:

- (1) remove and dispose of portions of existing bridge;
- (2) 2,250 cu. yds. rdwy. excav., unclassification;
- (3) 750 cu. yds. struc. excavation;
- (4) 855 cu. yds. Class A Portland cement concrete struc.;
- (5) 14 cu. yds. do, sidewalks;
- (6) 17 cu. yds. do, curbs and gutters;
- (7) 50 cu. yds. Class C Portland cement concrete;
- (8) 20 cu. yds. Class E Portland cement concrete orna. railing;
- (9) 162,000 lbs. bar reinf. steel;
- (10) 6.5 MFBM salvaged timber;
- (11) 9.5 MFBM cresoted Douglas fir timber;
- (12) 105 tons rock and oil surface;
- (13) 73 tons asphalt concrete, type A surface;
- (14) 1 lot sanitary sewers;
- (15) 1 lot storm drains.

Plans and specifications obtainable at above office, and are on file at the offices of the District engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

KERN COUNTY, Cal.—Parish Bros., 1222 N. Grower St., Hollywood, at \$26,344 awarded contract by the State Highway Commission, Sacramento, to construct six timber bridges between Junction with Route 140 and Junction with Route 58, having a total length of approximately 494 feet.

LOS ANGELES, Cal.—Until Dec. 18, 2 P. M., bids will be received by the

Los Angeles County Supervisors for construction of a reinforced concrete bridge over the spillway at San Gabriel Dam No. 2. The work involves:

- (1) 300 cu. yds. abutment excavation;
- (2) 615 cu. yds. reinf. concrete;
- (3) 500 cu. yds. rdwy. excavation,
- (4) 250 cu. yds. road fill.

E. C. Eaton, 202 North Broadway, County Flood Control engineer, Mame B. Beatty, 501 Hall of Records, clerk of the board.

MENDOCINO COUNTY, Cal.—Until December 27, 2 P. M., bids will be received by State Highway Commission, Sacramento, for constructing a steel through truss bridge across South Fork Eel River, 65 miles north of Willits, consisting of two 183 ft. spans founded on the pier and abutments of an existing bridge, involving:

- (1) 5000 cu. yds. rdwy. excav.;
- (2) 24 M.F.B.M. timber detour bridge;
- (3) 1 only remove existing bridge;
- (4) 110 cu. yds. remove concrete;
- (5) 95 cu. yds. Class A Port. cement concrete;
- (6) 4400 lbs. bar reinf. steel;
- (7) 554,000 lbs. structural steel;
- (8) 4810 lbs. cast steel;
- (9) 65 M.F.B.M. redwood timber dense select allheart structural grade;
- (10) 1 lot miscellaneous items of work

Plans and specifications obtainable from above office, and on file at the offices of the District Engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

22—DREDGING HARBOR WORKS EXCAVATION

PEARL HARBOR, T. H.—Until December 20 (postponed from Dec. 13, previously reported) bids will be received by Bureau of Yards and Docks, Navy Dept., Washington, for dredging 2,900,000 cu. yds. at Pearl Harbor. Spec. No. 7337.

ALAMEDA COUNTY, Cal.—American Dredging Co., 255 California St., San Francisco, at \$869,063 awarded contract by State Highway Commission, Sacramento, for grading 4.1 mi. between the westerly end of the Key Mole Fill and the foot of Folger Ave., Berkeley. Eastbay approach to the San Francisco-Oakland Bay Bridge. Complete bids published Nov. 15.

HAMILTON FIELD, Marin Co., Cal.—Until Dec. 14, 11 A. M., bids will be received by the Constructing Quartermaster, Hamilton Field, for dredging a channel and turning basin in San Pablo Bay at Hamilton Field, involving 337,000 cu. yds. dredging material. Plans and specifications are obtainable from above upon deposit of \$5. Frank's Contracting Co., 260 California St., San Francisco, at \$54,600 submitted low bid on October 23.

VENTURA COUNTY, Cal.—Silveria & Robbins, Inc., P. O. Box 902 Ventura, at \$7,050 (\$2.35 ft.) awarded the contract by the Ventura County Supervisors December 1 for the construction of protection work along the Santa Clara river at Bardsdale and South Mountain road, involving:

- (1) 3000 lin. ft. steel jetty.

The other bids were: Kellner Jetties Corp., Alhambra, \$2.30 ft.; Geo. Hess, Los Angeles, \$2.49 foot; George K. Thompson, Los Angeles, \$3.30 ft. Cash Contract No. 856. C. W. Petit, county surveyor.

CAPITAL CITY TITLE COMPANY

J. C. PALEN,
Manager

914 Seventh Street
Sacramento :: California

BELLINGHAM, Wash.—Bellingham Port Commission will proceed with construction of breakwater by day labor, without calling for bids. Estimated cost, \$90,000.

SACRAMENTO, Calif.—Daniel Contracting Co., 503 Market Street, San Francisco, at \$48,000 (\$1.60 per ton) awarded contract by the U. S. Engineer Office, Sacramento, for furnishing and placing approximately 30,000 tons of riprap stone along the banks of the Sacramento river at various points between the mouth of Cache slough and Collinsville.

STOCKTON, Cal.—Until Dec. 14, 9 A. M., bids will be received by Ohm & Raab, civil engineers, 109 E Weber Ave., Stockton, for sloping about 2000 feet of river levee located about 15 miles from Stockton, involving 30,000 cu. yds. of cut and will require a dragline having a boom reach of about 40 feet.

No plans will be mailed out, but interested dragline owners may obtain information at the above office as to the approximate sections, and also be directed to the site.

CORONADO, San Diego Co., Cal.—Sparkes & McClellan, Newport Beach, at \$9710 submitted low bid Dec. 4 to the Coronado City Council for dredging in Glorietta Bay, involving 65,609 cu. yds. dredging, exclusive of ever-depth and side slope.

LOS ANGELES, Cal.—Until December 18, 2 P. M., bids will be received by the Los Angeles County Supervisors for constructing outlet at Alamos Bay, San Gabriel River Unit No. 6. The work will involve:

- (1) 95,000 cu. yds. excav.;
- (2) 7500 tons riprap rock;
- (3) Construct 10 type A current deflators;
- (4) Construct 10 type B current deflators (alternate);
- (5) Construct 10 type C current deflators (alternate).

E. C. Eaton, 202 N. Broadway, County Flood Control Engineer, Mame B. Beatty, 501 Hall of Records, Clerk of the Board.

SACRAMENTO, Calif.—Basalt Rock Co., Napa, at \$52,500 (\$1.75 per ton) awarded contract by the U. S. Engineer Office, Sacramento, for furnishing and placing approximately 30,000 tons of riprap stone along the banks of the Sacramento river at various points between Cache slough and Collinsville. Spec. No. 5574.

SEATTLE, Wash.—Until Dec. 21, 10 A. M., bids will be received by Seattle Board of Public Works for construction of a seawall and improvement of Railroad Ave., under revised specifications. The work involves:

- (1) 245,000 cu. yds. embankment;
- (2) 3,614 tons steel sheet piling;
- (3) 403,000 lin. ft. timber piling;
- (4) 2,288 MFEM lumber;
- (5) 1,754 tons reinf. steel;
- (6) 15,000 cu. yds. concrete;
- (7) 40,640 sq. yds. 9-in. conc. paving;
- (8) 9,740 lin. ft. cast iron water mains;
- (9) 6,200 lin. ft. pipe sewers.

Plans and specifications obtainable from the above office upon deposit of \$25. Estimated cost, \$1,396,000.

23—IRRIGATION PROJ.

MADERA COUNTY, Calif.—Madera Irrigation District has applied to the Federal Public Works Administration for a loan and grant of \$3,270,900, estimated cost of a system of laterals to serve lands within the district, including 376 miles of main canals and 128 miles of ditches. Harry Barnes, district engineer.

24—STREET LIGHTING SYSTEM

SAN FRANCISCO—Until December 13, 2:30 P. M., bids will be received by the Board of Public Works, S. J. Hester, Deputy Director, Room 251, City Hall, for lighting Sunset Blvd., from South Drive in Golden Gate Park to Skyline Blvd., involving:

- (1) 102 ornamental concrete standards, hauling and erecting;
- (2) 102 luminaries and lamps, furnishing and installing;
- (3) 102 constructing concrete foundations for standards with conduit bends;
- (4) 2 constructing concrete pull boxes
- (5) 21,200 ft. 1½-in. black conduit furnishing and installing;
- (6) 200 ft. 2-in. galv. conduit, do;
- (7) 2 series control switches with 20-ampere series operating coil, furnishing and installing;
- (8) 2 45-ampere, 220-volt, A. C. Magnetic switches, complete with standard contractors, furnishing and installing;
- (9) 41,000 ft. furnishing and installing 1500-volt single conductor solid No. 6 R. & L. C. wire.

Estimated cost, \$20,000. Plans and specifications obtainable from above office upon deposit of \$10. Lump sum bid asked.

25—MACHINERY AND EQUIPMENT

SAN FRANCISCO—Union Machine Co., 934 Brannan St., at \$1406 submitted low bid to the U. S. Engineer Office, San Francisco, for furnishing one hydraulic control for the 26-inch gate valve on the U. S. Seagoing Hopper Dredge "A. Mackenzie." The other bids were: Golden State and Miner's Iron Works, \$1638; Bethlehem Steel, \$1735; Aldrich Pump Co., Allentown, Pa., \$1627.

Bids held under advisement.

LOS ANGELES, Cal.—Leo Gibbons, 1528 Golden Gate Ave., Los Angeles, at \$575 month; Northwest 105, 1-yd.; \$50 transportation; \$3 hour overtime, submitted low bid to the U. S. Forest Service, 751 S. Figueroa St., Los Angeles, for furnishing under Request MJP-151 one gasoline operated power shovel, dipper type, together with the services of an operator. The government will furnish gasoline and oil. Delivery to San Antonio Wash, 2 miles north of Claremont. Complete bids follow:

Leo Gibbons, \$575 month; Northwest 105, 1-yd.; \$50 transportation; \$3 hour overtime.

Mono Const. Co., \$960 month; Link-Belt K-38, 1½-yd.; \$400 transportation \$5 hour overtime.

Frank T. Hickey, \$1250 month, including transportation; Erie-Thew-Lorraine; \$6.50 overtime.

Flickinger Const. Co., \$1100 month; Lorraine 75-B, 1¼-yd., \$150 transportation; \$6.50 overtime.

A. J. Callahan Co., \$900 mo; Northwest, 1½-yd.; \$400 transportation to job; \$200 return from job; \$4 hour overtime.

S. J. Coffey, \$750 month; Northwest, 1¼-yd., \$220 trans.; \$5.90 overtime.

Dimmitt and Taylor, \$1456 month; Link-Belt K-1, \$150 trans.; \$7.65 hour overtime.

Leigh M. Railsbach, \$910 mo.; Link-Belt, 1¼-yd.; \$55 transportation to job; \$75 return from job; \$4.50 hour overtime.

Martort & Boeck, Ltd., \$920 month; Northwest 1½-yd.; \$150 trans.; \$5.00 hour overtime.

California Equipment Co., \$933 mo.; Erie, 1-yd.; \$150 trans.; \$4.50 overtime.

Wm. C. Horne, \$860 month; Erie, 1¼-yd.; \$146 trans.; \$4.75 overtime.

Garlinghouse Bros., \$860 mo.; \$146 transportation; \$4.75 hour overtime.

Wieland Equip. Co., \$1092 month; P. A. Model 600, 1-yd.; \$150 transportation; \$5.25 hour overtime.

C. G. Willis & Son, \$1100 month; Bucyrus-Erie, 1¼-yd., \$300 transportation; \$5.34 hour overtime

LOS ANGELES, Cal.—Pacific Iron & Steel Co., 11601 S. Alameda St., Los Angeles, at \$1095 awarded contract by Saul A. Joseph, Purchasing Agent of the Metropolitan Water District, December 2, for furnishing and installing a traveling crane at the California Institute of Technology, Pasadena, under bid No. 18,110. Other bids were:

A. V. Swartz (Agent for Radiating Chain & Block Corp.), \$1145.62
Coast Engr. & Equip. Co., 1147.00
Harnischfeger Sales Corp., 1150.00
Industrial Constr. Corp., Ltd. 1319.37
Shaw-Box Crane & Hoist Co.,
Co., Inc. 1323.400
Rooper Crane & Hoist Works
Inc., (Copper & Livingston,
Representatives) 1643.07

RIVERSIDE, Riverside Co., Calif.—Roy E. Hanson, 1924 Compton Ave., Los Angeles, at \$208 submitted low bid to Riverside County Purchasing Agent, December 4, for furnishing a 1500-gal. code pressure (100 lb.) tank. Other bids were:

State Steel Products Co., \$224.00
Chas. W. Kennecott, 230.00
Western Pipe & Steel Co., 240.00
American Pipe & Steel Co., 258.00
Grinnell Company, 261.00
Western Welding Works, 375.00

Bids were referred to J. H. Chase, Riverside, consulting engineer.

RIVERSIDE, Riverside Co., Calif.—Sterling Pump Co., 646 S California St., Stockton, at \$884 net, plus tax, submitted low bid to the Riverside County Purchasing Agent, W. L. Carlson, December 4 for furnishing a deep well pump at the county hospital. Identical bids were received from the following at \$980.69, 5% 30 days, plus sales tax:

Peerless Pump Co., Layne & Bowler Corp., Pacific Pump Works, Johnson Pump Co., Wintroath Pumps, Ltd. Fairbanks-Morse Co., Byron Jackson Co., Pomona Pump Co. and Kimball-Krogh Co.

Bids were referred to John H. Chase, Riverside, consulting engineer.

RIVERSIDE, Riverside Co., Calif.—Bryon Jackson Pump Co., 2150 East Slauson Ave., Los Angeles, at \$589.29 submitted low bid to the Riverside County Supervisors December 4 for furnishing pumping equipment in connection with the water and sewer systems at the County Hospital at Arlington. The other bids were: Fairbanks Morse Co., \$630.20; Worthington Pump Co., \$758; (alt., \$734); Chicago Pump Co., \$1399.80 (alt. \$596.80).

30—RESERVOIRS & DAMS

MARCH FIELD, Riverside, Cal.—H. G. Klusman, 154 N Archibald Ave., Cucamonga, at \$9,000 submitted low bid to the Constructing Quartermaster, March Field, November 29, for the construction of a 400,000-gal. concrete reservoir, with piping, at March Field. Bid No. W 6694-QM-34-9. The engineer has recommended that the contract be awarded to the low bidder.

The proposed reservoir will be of reinforced concrete construction, inside diameter 60 ft., height from finish floor to roof, 21 ft. The roof will be of 6-in. reinf. conc., with 12-inch walls and 8-in. floor. There will be four inside columns, 20x20-in.

Piping will involve construction of connections to present pumping plant, and will include about 200 ft. 10-in. cast iron suction line, about 200 ft. 12-in. overshot line into tank from well, and about 200 ft. 6-in. drain line. All pipe will be AWWA Class B, or Class 150 pipe, and fittings and specials Class D. The other bids were:
 L. F. Dow, Santa Monica.....\$ 9,375
 Cresmer Mfg. Co., Riverside..... 9,500
 L. A. Cline, Los Angeles..... 10,807
 T. P. Schultz, Compton..... 10,940
 Martin Green, San Bernardino.. 11,532
 Beyer Corp., Los Angeles..... 11,986
 F. F. Greenfield Co., L. A..... 11,996
 Chas. F. Fletter, 1st Lieut., Q. M. C., constructing quartermaster.

32—SEWERS & SEWAGE DISPOSAL PLANTS

SAN LUIS OBISPO, Cal.—The Federal Administration of Public Works has granted \$9000 to the City of San Luis Obispo to aid in the construction of extensions to sewage treatment plant. The work will include removal of sections of present outfall screen and grit chamber, and installation of clarifiers, chlorine contact chamber, sludge and water piping, new creek crossing, roadway, walks and outside lighting. Chas. G. Hyde, care University of California, Berkeley, is the consulting engineer. The total estimated cost is \$34,575.

SPARKS, Nevada.—A \$45,000 Public Works Administration loan was approved by a vote of 442 to 175 by the Sparks voters. Formal application for the loan was made by city officials on November 4. The money will finance sewer extensions, construction of a drainage system and construction of culverts.

PALO ALTO, Santa Clara Co., Cal.—Palo Alto city council has rejected all bids received Nov. 28 for the construction of a sewage disposal system and has instructed the Department of Public Works to proceed with the project under force account, the work to be supervised by J. F. Byxbee city engineer. The work will be financed in part by an appropriation from the Federal Public Works Administration.

SAN FRANCISCO.—Until Dec. 20, 2:30 P. M., bids will be received by the Board of Public Works, Room 251, City Hall, W. A. Worden, Director, for the construction of a sewage effluent disposal pump and pipe line at the San Francisco County Jail, Sneath Ranch, San Mateo County. Estimated cost, \$5,200.

Plans and specifications obtainable from the above office upon deposit of \$10.00.

33— WATERWORKS

REDWOOD CITY, Cal.—W. J. Tobin, 3701 Balfour Ave., Oakland, at \$19,696.78 awarded contract by the Redwood City Council for extensions to the municipal water system in the Emerald Lake District. Complete bids follow:
 W. J. Tobin, Oakland.....\$19,696.78
 Nevis & Harp, Santa Clara.. 20,032.60
 W. O. Tyson, Redwood City.. 20,398.45
 Lowrie Paving Co., S. F..... 20,598.70
 F. W. Snook, San Francisco 22,469.62
 C. L. Harney, San Francisco 23,654.00
 M. B. McGowan, Inc., S. F. 26,287.00

VISALIA, Tulare Co., Cal.—Visalia City Council fail to take action on a proposal for an engineering survey of the proposed municipal water system at a meeting December 4. The cost of the survey was estimated at between \$5,000 and \$6,000 by S. J. Floyd,

San Francisco, consulting engineer, who met with the council.

SAN DIEGO, Calif.—M. H. Golden, 404 California Bank Bldg., San Diego, at \$9,096 submitted low bid to Public Works Office, San Diego, for distribution and service lines at the Naval Operating Base (Fuel Depot) San Diego. Spec. No. 7556. Complete bids follow:
 M. H. Golden, San Diego.....\$ 9,096
 Marke Matick, Los Angeles..... 9,477
 Maritler & Bock, Ltd., L. A..... 9,499
 Garrett Co., San Pedro..... 9,650
 G. R. Abbott, Sr., La Jolla..... 9,839
 Miracle Co., San Diego..... 10,094
 S. J. Harris, San Diego..... 10,487
 Harry Barkelev Co., L. A..... 10,850
 Johnson & Reeves, Glendale.. 11,125
 H. H. Peterson, San Diego..... 11,405
 A. O. Reed & Co., San Diego..... 12,748
 Dudley Haverty Co., L. A..... 12,890
 The bids have been forwarded to the Bureau of Yards & Docks, Navy Dept. Washington, D. C., with the recommendation that award be made to low bidder, M. H. Golden.

DOS PALOS, Merced Co., Cal.—Dos Palos Chamber of Commerce has appointed a committee to report on formation of a water district. A petition probably will be filed with the county board of supervisors December 18 asking formation of the district for the purpose of distributing water for domestic use.

COLTON, Cal.—The \$100,000 water and sewer bond issue carried at the election December 1. The water bond issue is for \$70,000 and the sewer \$30,000. In addition, the federal government will advance \$33,900 under the PWA program. Of the grand total, \$93,000 will be expended on the water and \$40,000 for the sewer system.

The sewage disposal plant is to be of the activated sludge type plant, the engineer's estimate being \$27,700.

Currie Engr. Co., Anderson Block, San Bernardino, is the engineer for both projects.

29—STREETS AND HIGHWAYS

SHASTA COUNTY, Cal.—Until Dec. 19, 2 P. M., bids will be received by the U. S. Bureau of Public Roads, 461 Market St., San Francisco, for placing crushed rock subgrade reinforcement on 4.483 miles of Section A of Route 75, Manzanita Lake National Forest Highway, Lassen National Forest, Shasta County, involving:

- (1) 12,000 tons subgrade reinforcement
- (2) 1,000 tons suppl. do;
- (3) 1,000 cu. yds. unclass. excav.;
- (4) 600 M. gals. watering;
- (5) 24,000 gals. liquid asph. rd. mt'l.

Specifications and plans obtainable from the above office upon deposit of \$10. C. H. Sweetser, district engineer.

LAKE COUNTY, Cal.—Fredrickson & Watson, 873 81st Ave., Oakland, at \$122,398 awarded contract by the State Highway Commission, Sacramento, for grading and surfacing with crusher run base and bituminous treated crushed gravel or stone surfacing about 4.6 miles in Lake County, between Middletown and Putah Creek.

SANTA CRUZ COUNTY, Cal.—Union Paving So., 624 Call Bldg., San Francisco, at \$43,620 awarded contract by the State Highway Commission, Sacramento, for grading and surfacing with crusher run base and bituminous surfacing about 0.6 miles between the north city limits and Ocean Street in Santa Cruz.

LOS ANGELES COUNTY, Cal.—Until December 27, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for grading

and paving with Portland cement concrete, about 0.6 ml. between State Street and Fickett Street in Los Angeles, involving:

- (1) 34 sta. clear and grub right-of-way;
- (2) 58,000 cu. yds. rdwy. excav unclass.;
- (3) 14,500 sq. yds. subgrade for pave.;
- (4) 3050 cu. yds. Class A Port. cem. concrete pavement;
- (5) 550 cu. yds. Class A Port. cem. concrete curbs, gutters, side-walks and pier guards;
- (6) 275 cu. yds. Class A Port. cement concrete drain ditch;
- (7) 55,000 sq. ft. gunite ditch lining;
- (8) 90,000 lbs. bar reinf. steel pave. struces, curbs and gutters;
- (9) 1650 lin. ft. 6-in. plain conc. or vitrified clay pipe;
- (10) 1150 lin. ft. 8-in. plain conc. or vitrified clay pipe;
- (11) 50 lin. ft. 12-in. plain cons. do;
- (12) 24 lin. ft. 15-in. plain do;
- (13) 375 lin. ft. 18-in plain do;
- (14) 130 lin. ft. 24-in. centrifugally cast concrete pipe;
- (15) 700 tons broken stone or gravel;
- (16) 8 each curb special catchbasins;
- (17) 8 each curb drainage openings;
- (18) 5 each sub-drain outlet boxes;
- (19) 100 bbls. light fuel oil subgrade treatment;
- (20) 25 tons asphaltic road oil sub-grade treatment;
- (21) 450 bbls. heavy fuel oil shoulders
- (22) 1 only existing electric sub-station to be demolished and disposed of;
- (23) 3100 lin. ft. cable guard rail;
- (24) 34 stations finishing roadway.

Plans and specifications obtainable from above office, and on file at the office of the District Engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

SAN DIEGO COUNTY, Calif.—All bids for riprap protection to be placed about three miles south of Coronado tent city, San Diego county, opened Nov. 10 have been rejected by the state highway engineer. All work will be done by day labor. The work involves 1000 tons riprap. Frank Doran, 345 Spreckels Theatre Bldg., San Diego, at \$3800 submitted low bid. E. E. Wallace, Union Bldg., San Diego, is the district engineer.

YAKIMA COUNTY, Wash.—Elliott & Co., Seattle, at \$40,881 (metal pipe) and \$41,531 (concrete pipe) submitted low bid to the U. S. Bureau of Public Roads, Portland, Ore., for grading 2.89 ml. of the Randle-Takima Highway in Yakima County. Complete bids in order of metal pipe and concrete pipe follow:

- Elliott & Co., Seattle, \$40,881; \$41,531.
- Fred G. Redmon, Yakima, \$42,239; \$42,239.
- March Construction Co., Spokane, \$43,494; \$43,494.
- L. Romano Engineering Co., Seattle, \$44,061; \$44,541.
- James Coyle, Seattle, \$45,412; \$45,927.
- Columbia Power & Investment Co., Stevenson, \$51,715; \$51,840.
- L. Coluccio, Seattle, \$59,418; \$59,541.

CLACKAMAS COUNTY, Oregon.—Babler Bros., Portland, at \$47,105 submitted low bid to the U. S. Bureau of Public Roads, Portland, for bituminous macadam surfacing on 10 miles of the Mt. Hood and Wapanita Highway, Clackamas County. Complete bids follow:

- Babler Bros., Portland.....\$47,105
- F. J. Kerman, Faloma..... 51,516
- Northwest Roads Co., Portland 52,505
- Newport Constr. Co., Portland 54,207
- Harold Blake, Portland..... 54,556
- A. Milne, Portland..... 54,557

MENDOCINO COUNTY, Calif.—Until December 27, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for grading and surfacing with crushed run base and untreated crushed gravel or stone surfacing and treat with fuel oil about 0.7 mile at Rattlesnake Creek in Mendocino county, involving:

- (1) 7 acres clear and grub right of way;
- (2) 44,800 cu. yds. rdwy. excav., unclassified;
- (3) 128,200 sta. yds. overhaul;
- (4) 1,930 cu. yds. struc. excav.;
- (5) 770 cu. yds. backfill cribs;
- (6) 500 cu. yds. backfill trenches;
- (7) 4,460 cu. yds. crusher run base;
- (8) 1,530 cu. yds. untreated crushed gravel or stone surfacing;
- (9) 105 bbls. heavy fuel oil;
- (10) 310 cu. yds. screenings stockpiles;
- (11) 825 M. gals. water;
- (12) 37 cu. yds. Class A Port. cement concrete struc.;
- (13) 70 cu. yds. Class B Port. cement concrete bridge;
- (14) 3,920 lbs. bar reinf. steel, struc.;
- (15) 80 lin. ft. 8-in. CMP;
- (16) 386 lin. ft. 18-in. CMP;
- (17) 96 lin. ft. 24-in. CMP;
- (18) 750 lin. ft. 8-in. perf. metal pipe underdrain;
- (19) 24 lin. ft. CMP, clean and relay;
- (20) 550 lin. ft. 8-in. perf. metal pipe, remove and salvage;
- (21) 4 each spillway assemblies complete in place;
- (22) 75 each timber guide posts and culvert markers comp. in place;
- (23) 43 MFBM dense select all-heart struc. grade redwood timber truss;
- (24) 100 MFBM do, timber superstruc.
- (25) 25 MFBM select all-heart struc. grade redwood timber cribs;
- (26) 36.5 MFBM do, timber cribs;
- (27) 6,225 lbs. cast steel;
- (28) 1 lot misc. items of work, bridge;
- (29) 36 sta. yds. finish roadway;
- (30) 24 each monuments complete in place.

Plans and specifications obtainable at above office, and are on file at the offices of the District engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

LOS ANGELES, Cal.—J. L. McClain, 3452 W. Slauson Ave., Los Angeles, at \$216,962 awarded contract by the State Highway Commission, Sacramento, for grading and paving with Portland cement concrete about 3.5 mi. between Olive View and Tunnel Station in Los Angeles.

ARIZONA STATE.—Until Dec. 19, 2 P. M., bids will be received by the Arizona State Highway Commission, Phoenix, for furnishing road oil for Project No. 80-E and F (Ashfork-Kingman Highway). The work consists of furnishing and delivering road oil and emulsified asphalt, as follows: 175,400 gals. road oil f.o.b. insulated tank cars at refinery;

R. R. freight on 102,300 gals. road oil delivery to Hackberry, Ariz.;

R. R. freight on 73,100 gals. road oil delivered to Valentine, Ariz.; 107 tons emulsified asphalt f.o.b. tank cars at refinery;

R. R. freight on 107 tons emulsified asphalt delivered to Hackberry, Ariz.; 76 tons emulsified asphalt f.o.b. tank cars at refinery;

R. R. freight on 76 tons emulsified asphalt delivered to Valentine.

Specifications obtainable from above office. T. S. O'Connell, State Highway Engineer.

COCONINO COUNTY, Ariz.—Until December 14, 10 A. M., bids will be received by the U. S. Bureau of Public Roads, for placing a bituminous treated crushed rock surface on 15.488 miles

of Sections B and C of Route 4, Ashfork-Flagstaff-Angell National Forest Highway, Tusayan National Forest, Coconino Co., Ariz. involving:

- (1) 1,600 M. gals. watering;
- (2) 13,500 tons crushed rock for leveling;
- (3) 26,660 tons bit. treated crushed rock;
- (4) 1,500 tons suppl. crushed rock;
- (5) 18,000 tons crush. rock for shoulders;
- (6) 1,500 tons suppl. crushed rock do;
- (7) 45,500 gals. apply Govt. furnished asph. material, prime coat;
- (8) 75 tons do, seal coat;
- (9) 39,000 lin. ft. type I protection ditch

Plans and specifications obtainable from the above office and from the office of the Bureau of Public Roads, 807 Sheldon Bldg., San Francisco. C. H. Sweetser, District Engineer.

VENTURA COUNTY, Calif.—Until Jan. 5, 10 A. M., bids will be received by the Ventura County Supervisors for constructing the Foothill Blvd. storm water concrete lined ditch on Terry Ranch, 908 lin. ft., under Contract No. 861, involving:

- (1) 1030 cu. yds. earth excav.;
- (2) 181 cu. yds. Class A concrete;
- (3) 8260 lbs. reinf. steel;

C. W. Petit, county surveyor; L. E. Hollowell, county clerk.

COCONINO COUNTY, Ariz.—Skousen Bros., Albuquerque, N. M., at \$41,860 awarded contract by the U. S. Bureau of Public Roads, Phoenix, for placing subgrade reinforcement on the Grand Canyon Route 10 and Sections A, B, and C of the Cameron-Desert View Approach to Grand Canyon National Park.

ARIZONA STATE.—Until Dec. 19, 19 A. M., bids will be received by the Arizona State Highway Commission, Phoenix, for the furnishing and delivery of structural steel either to Holbrook or McNary, Ariz., for the White River Bridge, A.F.E. No. 3401. The items are:

- (1) 55,000 lbs. struc. steel f.o.b. McNary;

ALTERNATE

- (2) 55,000 lbs. struc. steel f.o.b. Holbrook;
- (3) haul struc. steel from Holbrook to McNary.

Specifications obtainable from the above office. T. S. O'Connell, State Highway Engineer.

APACHE AND NAVAJO COS., Ariz.—Everly & Allison, Albuquerque, N. M., at \$46,682.50 submitted low bid to the Bureau of Public Roads, Phoenix, for grading Section B-1 of Route 1, for grading all of Route 2, and for performing miscellaneous construction on Section A of Route 1, Petrified Forest National Monument, Apache and Navajo Counties. The bids were:

Everly & Allison, Albuquerque, N. M., \$46,682.50.

Skousen Bros., Phoenix, \$50,047.10.

Lee Frost, Snow Flake, \$51,931.70.

Engineer's Estimate, \$60,709.

Award recommended to Everly & Allison.

SPOKANE COUNTY, Wash.—Clifton & Applegate, Spokane, Wash., at \$84,842 awarded contract by L. V. Murrow, State Director of Highways, Olympia, Wash., for paving with Portland cement concrete about 0.2 mile of approaches and constructing an under-crossing, National Recovery Highway Project No. NRH 182-B, in Spokane County.

Second low bidder, West Coast Constructing Co., Seattle, at \$88,295; third, D. Nygren, Seattle, at \$91,185.

SAN FRANCISCO — Theo Cohn, Russ Bldg., Sn Francisco, at \$3174 submitted low bid to the Constructing Quartermaster, Fort Mason, for roads, curbs, sidewalks, parking areas and car shelter at the Presidio of San Francisco. Bids were taken as follows:

- (1) Project complete;
- (2) Alt. Deduction if grading is done by Government;
- (3) Alt. Deduction if car shelters in rear of center section of Building 220 are omitted, except catchbasin and drain;
- (4) Alt. Deduction if both sections of car shelters except catchbasin and drain are omitted;
- (5) Deduction if section of car shelters in rear of the South section of Building No. 220 is omitted;
- (6) Deduction if concrete sidewalk and step in rear of North section of building are omitted.

The bidders were:

- (A) Theo Cohn, San Francisco.
- (B) Wm. Martin, San Francisco.
- (C) Lowrie Paving Co., San Francisco

Complete bids follow:

	(1)	(2)	(3)	(4)	(5)	(6)
(A)	.....\$3174	\$120	\$474	\$1089	\$884	\$103
(B)	.....	3848	—	—	—	—
(C)	.....	4043	174	600	1375	700

SAN FRANCISCO — Until December 13, 2:30 P. M., bids will be received by Board of Public Works, S. J. Hester, Deputy Director, Room 251, City Hall, for improvement of Golden Gate Park Roads, Contract No. 5, involving:

- (1) 98,000 sq. ft. 2-in. asph. concrete wearing surface including preparation of subgrade and incidental work;
 - (2) 46,000 sq. ft. 2-in. asph. concrete wearing surface and 6-in. reinf. conc. base;
 - (3) 2500 sq. ft. 8-in. waterbound macadam base;
 - (4) 300 cu. yds. red rock;
 - (5) 8 storm water inlets;
 - (6) 1600 sq. ft. 6-in. open tile grain including gravel;
 - (7) 500 lin. ft. 6-in. vitrified clay pipe culvert;
 - (8) 1 seepage pit;
 - (9) 500 lin. ft. 2-in. galv. (hot dipped) N.E.C. conduit;
 - (10) 3600 cu. yds. excav. under 6-in. reinf. conc. base;
 - (11) 3000 cu. yds. sand backfill under 6-in. reinf. conc. base;
- Estimated cost, \$23,000. Plans and specifications obtainable from above office upon deposit of \$10.

FAIRFAX, Ca!—Until January 19, 8 P. M., bids will be received by the Fairfax City Council for street improvements on Tamalpais Rd., Scenic Road, Maple Road, Redwood Road, and Park Road, involving the following quantities:

- (1) 15,410 cu. yds. grading;
 - (2) 10,380 lin. ft. curbs and gutters;
 - (3) 164,622 sq. ft. penetration asph. pavement;
 - (4) 186 lin. ft. 10-in. C.G.M.P. culvert
 - (5) 356 lin. ft. 12-in. do;
 - (6) 192 lin. ft. 18-in. do;
 - (7) 46 lin. ft. 48-in. do;
 - (8) 22 catchbasins;
 - (9) 33 cu. yds. Class B concrete retaining wall;
 - (10) 250 lin. ft. 6-in. sanitary sewers;
 - (11) 1 lamphole.
- Estimated cost, \$30,000. Plans obtainable from J. C. Oglesby, Engineer, 530 B St., San Rafael, at a charge of \$3.

KLAMATH & DOUGLAS COS., Ore.—Until Dec. 14, 10 A. M., bids will be received by W. H. Lynch, District Engineer, U. S. Bureau of Public Roads, 316 New Postoffice Bldg., Portland, for surfacing and bituminous surfacing the Diamond Lake and Cascade

Lake Highways, Project NR-43-A1 & NR-46-A1, National Forest Road Project located within or adjacent to the Itogue River and Umpqua National Forests, Klamath and Douglas counties, Oregon, involving:

- (1) 2,254 miles fine grading of sub-grade and shoulders;
- (2) 60,500 tons crush, rock or gravel bottom course;
- (3) 19,200 tons do top course;
- (4) 2,000 tons supplc. crushed gravel or crushed rock;
- (5) 6,000 ml. yds. binder haul;
- (6) 2,000 M. gals. watering;
- (7) lump sum providing and maintaining roller;
- (8) 200 days operation of roller;
- (9) 130 tons SC-2 grade liquid asph.;
- (10) 260 tons SC-4 do;
- (11) 130 tons MC-2 do;
- (12) 6,000 cu. yds. binder;
- (13) 40 cu. yds. cement rubble masonry;
- (14) 20,254 mi. prepare & finish rdwy. for bit. treatment.

Plans and specifications obtainable from above office upon a deposit of \$10.00.

APACHE COUNTY, Arizona.—Until Dec. 15, 10 A. M., bids will be received by C. H. Sweetser, District Engineer, Bureau of Public Roads, 802 Title and Trust Bldg., Phoenix, Ariz., for grading 6.849 miles of Section K of Route 20, the Springerville - Alpine State Line National Forest Highway, Apache National Forest, Apache Co., Ariz., involving:

- (1) 24 acres clearing;
- (2) 35,000 cu. yds. unclass. excav.;
- (3) 900 cu. yds. unclass. excavation, struc.;
- (4) 19,800 cu. yds. unclass. excavation borrow;
- (5) 21,700 sta. yds. overhaul;
- (6) 31.43 MFEM treated timber, in place;
- (7) 310 cu. yds. cement rubble masonry;
- (8) 1,260 lin. ft. corr. metal pipe in place;
- (9) 506 lin. ft. treated timber piling in place;
- (10) 46 each right of way monuments;
- (11) 191 sq. yds. asph. seal coat bridge flooring;
- (12) 24,900 lin. ft. type I protection ditch;
- (13) 6,600 cu. yds. miles borrow haul;
- (14) 106 lin. ft. remove and salvage and dispose CMP; x
- (15) 444 lin. ft. remove and relay existing CMP;
- (16) 23,000 lin. ft. remove and reset fence;
- (17) 18,500 cu. yds. subgrade reinf.

Plans and specifications obtainable from above office upon deposit of \$10.

PACIFIC COUNTY, Wash.—Andrew McLean, Seattle, Wash., at \$19,163 awarded contract by L. V. Murrow, State Director of Highways, Olympia, Wash., for constructing slope protection and patching existing pavement with Portland cement concrete on about 0.2 mile of State Road No. 12, Water Street in the City of South Bend, National Recovery Municipal Highway Project No. NRM 178-G.

Second low bidder, Teufel & Carlson, Seattle, at \$23,573; third, Graham Bros. & Medley, Chehalis, \$14,848.

ARIZONA STATE.—Lee Moor Contracting Co., 1202 Bassett Tower, El Paso, Texas, at \$420,544.19 awarded contract by the Arizona State Highway Commission, Phoenix, for grading and draining the roadway and placing base course and plant mix, using either cutback or emulsified asphalt on 22.25 miles of the Prescott-Ashfork Highway from Jerome Highway junction north.

SAN FRANCISCO — Anderson & Ringrose, 320 Market St., at \$18,871.70 awarded contract by the Board of Public Works, for grading and macadamizing roadbed on Bernal Heights Blvd. and its connections with Alabama, Polson and Ellsworth Sts.

29

SAN FRANCISCO—Adam Arras, 2476 Howard St., at \$1825.35 awarded contract by the Board of Public Works, for street improvement involving 18,752 sq. ft. of sidewalk on Jackson, Steiner, Clay and Scott Sts.

KITTITAS & YAKIMA Cos., Wash.—James Cyle, Seattle, at \$29,156.00 (metal pipe) and \$39,671.00 (concrete pipe) submitted the low bid to W. H. Lynch, District Engineer, U. S. Bureau of Public Roads, Portland, for grading 8.125 miles (including WYO connecting) Little Naches, Jungle Creek Section, Project NR-A1, Washington Forest Development Road, located within the Columbia National Forest, Kittitas and Yakima Counties. Other bids were:

- Halleran Bros., Seattle, (metal pipe) \$43,032; (concrete pipe) alt., \$43,452.
- Fred Redmon, Yakima, \$45,977; \$46,271.00.
- L. Romano Engr. Corp., Seattle, \$53,324; \$53,839.
- Dillard, Younker & Weickes, Medford, Ore., \$55,483; \$56,524.

ARIZONA STATE.—Until Dec. 13, 2 P. M., bids will be received by the Arizona State Highway Commission, Phoenix, for highway construction on the Phoenix-Tempe Highway, N.R.H. 30. The work, which is to begin at the Phoenix city limits at 16th St. and is to extend east one mile to 24th St., consists of the moving and reconstructing of a school overpass and pavement widening with asphaltic concrete, and is to be completed on or before Feb. 15, 1934.

- The work involves:
- (1) 5 cu. yds. Class A concrete;
 - (2) 7 cu. yds. removal of old concrete, moving of school overpass;
 - (3) 12,100 sq. yds. grading;
 - (4) 2,800 cu. yds. gravel base course;
 - (5) 11,600 sq. yds. asphaltic pave.;
 - (6) 2 miles shoulders.

Certified check or cashier's check, 3%.

Funds have been programed for the construction of this project in the amount of \$23,000. In the event contract unit prices indicate a total cost of the project as planned in excess of the amount of funds programed for the work, the length of the project will be shortened, if necessary, to keep the cost within the funds allotted thereto.

WASHINGTON STATE.—Until Dec. 19, 2 P. M., bids will be received by L. V. Murrow, State Director of Highways, Olympia, for projects on highway construction, as follows:

Skagit County

Grading about 2.7 miles of State Rd. No. 1 Lake Samish branch) Burlington Northern Skagit County, involving:

- (1) 73,370 cu. yds. excav. and gravel borrow;
- (2) 349 lin. ft. pipe culverts;
- (3) miscellaneous items;

King County

Grading about 1.0 mile of State Rd. No. 5, Kent Bridge approaches, King County, involving:

- (1) 47,400 cu. yds. excavation;
- (2) 7,327 lin. ft. cable guard rail;
- (3) 279 lin. ft. of pipe culverts;
- (4) miscellaneous items.

Spokane & Pend Oreille Counties

Grading and surfacing about 6.3 mile of State Road No. 6, Rogers Pass to

West Branch Revision, and West Branch Revision to Bear Creek Revision, in Spokane and Pend Oreille Cos., involving:

- (1) 26 acres of clearing;
- (2) 126,650 cu. yds. excav. and gravel borrow;
- (3) 19,320 cu. yds. crushed stone surf.;
- (4) 750 lin. ft. of pipe culverts;
- (5) miscellaneous items.

Kittitas County

Grading about 7.7 miles of State Rd. No. 7, Alkali Lakes to Rock Canyon, in Kittitas County, involving:

- (1) 190,000 cu. yds. excavation;
- (2) 430 cu. yds. concrete;
- (3) 60,800 lbs. steel reinf. bars;
- (4) 1,800 lin. ft. of pipe culverts;
- (5) miscellaneous items.

Franklin County

Grading and surfacing about 3.1 mi. of State Road No. 11, Connell to Etopia, Revision, in Franklin Co., involving:

- (1) 97,690 cu. yds. excavation;
- (2) 12,420 cu. yds. crushed stone surf. and ballast;
- (3) 804 lin. ft. of pipe culvert;
- (4) miscellaneous items.

Cowlitz County

Stockpiling about 16,700 cubic yards of 3-in. crusher run ballast for about four miles of State Road No. 12, Longview to Coal Creek Slough, in Cowlitz County.

Chelan County

Grading about 2.2 miles of State Rd. No. 15, Berne East Extension in Chelan County, involving:

- (1) 27 acres of clearing;
- (2) 125,270 cu. yds. excavation;
- (3) 236 cu. yds. concrete;
- (4) 725 lin. ft. of pipe culverts;
- (5) miscellaneous items.

Benton County

Surfacing about 14.3 miles of the Maryhill to Plymouth Road, Carley to Paterson, in Benton County, involving:

- (1) 5,240 cu. yds. excavation;
- (2) 8,170 cu. yds. gravel borrow;
- (3) 14,270 cu. yds. crushed stone surf.;
- (4) miscellaneous items.

Plans and specifications obtainable from above office by depositing \$2.00 for each set of plans.

LEWIS CO., Wash.—J. D. Harms, Seattle, at \$183,162 (metal pipe) and at \$183,470 (concrete pipe alternate) submitted low bid to the U. S. Bureau of Public Roads, W. H. Lynch, District Engineer, 316 New Postoffice Bldg., Portland, for grading approximately 2.955 miles and constructing a bridge 0.036 miles in length on the Mt. Rainier National Park East Side Highway, Project NR-5-C Grading, in Mt. Rainier National Park, Lewis Co., Wash. Complete bids follow:

- J. D. Harms, Seattle (metal pipe) \$183,162; (concrete pipe) \$183,470.
- Colonial Bldg. Co., Spokane, \$196,143; \$196,340.
- P. L. Crooks, Portland, \$198,389.00; \$198,594.

Halleran Bros. and F. Coyle, Seattle, \$201,132; \$201,337.

Meyers & Goulter, Seattle, \$202,624; \$202,819.

Guthrie McDougall, Portland, \$215,286; \$215,683.

Alex Beseloff, Seattle, \$232,716; \$233,055.00.

SPOKANE COUNTY, Wash.—G. H. Weller, Spokane, at \$76,985 awarded contract by Washington State Highway Commission, Olympia, for grading about 0.7 mile and grading and paving with Portland cement concrete 0.9 mile and constructing bridge over Latah Creek on State Road No. 3, Spokane South in the City of Spokane, Project No. NRM 201-A in Spokane County.

Chas. A. Collins and S. G. Morin, Walla Walla, at \$85,900 submitted sec-

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

SAN BERNARDINO COUNTY — GRADE AND OIL — (STATE)

SAN BERNARDINO COUNTY, Cal.—Sharp & Fellows Contracting Co., 533 Central Bldg., Los Angeles, at \$146,975.50 submitted low bid to State Highway Commission, Sacramento, for grading and treating with fuel oil and applying a bituminous surface treatment, 15.1 miles, between the westerly boundary and Camp Cajon, in San Bernardino County, involving:

- (1) 168 acres clear and grub right of way;
- (2) 436,000 cu. yds. rdwy. excav., unclassified;
- (3) 2,525,000 sta. yds. overhaul;
- (4) 3,400 cu. yds. selected material;
- (5) 5,620 cu. yds. struc. excav.;
- (6) 462 lin. ft. 18-in. CMP;

- (7) 1,862 lin. ft. 24-in. CMP;
- (8) 800 lin. ft. 30-in. CMP;
- (9) 1,294 lin. ft. 36-in. CMP;
- (10) 262 lin. ft. 48-in. CMP;
- (11) 74 lin. ft. 72-in. CMP;
- (12) 8,300 bbls. heavy fuel oil;
- (13) 15.1 miles prepare surface and mix and shape oiled material;
- (14) 182 tons asph. road oil;
- (15) 1,450 cu. yds. screenings;
- (16) 4.2 miles new property fence;
- (17) 795 sta. finish rdwy.;
- (18) 205 each monuments complete in place.

Complete bids follow:

- (A) Sharp & Fellows Contracting Co., Los Angeles, \$146,975.50.
- (B) Basich Bros. & John Jerkovich,

Torrance, \$147,137.60.

- (C) M. J. Bevanda, Stockton, \$155,863.50.
- (D) Geo. K. Thompson, Los Angeles, \$158,356.60.
- (E) Chas. G. Willis and Sons, and Chas. G. Willis & Krogh Bros., Los Angeles, \$160,355.20.
- (F) Macco Const. Co., Clearwater, \$165,203.00.
- (G) J. E. Haddock, Pasadena, \$170,906.20.
- (H) Griffith Co., Los Angeles, \$176,564.00.
- (I) Gist & Bell, Arcadia, \$184,444.60.
- (J) Isbell Const. Co., Carson City, Nev., \$187,540.00.

Unit prices follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
(1)	\$ 30.00	\$ 30.00	\$ 30.00	\$ 34.00	\$ 45.00	\$ 30.00	\$ 90.00	\$100.00	\$ 70.00	\$ 65.00
(2)	.19	.18	.20	.194	.20	.18	.205	.203	.24	.22
(3)	.003	.005	.004	.004	.0025	.00	.003	.004	.005	.005
(4)	.38	.20	.50	.65	.50	.45	.40	.50	.50	.50
(5)	.40	.50	.60	.58	.75	.80	.75	.60	.70	.80
(6)	1.50	1.50	1.50	1.50	1.70	1.85	1.60	2.00	1.50	1.80
(7)	2.25	2.30	2.50	2.30	2.55	2.75	2.40	3.00	2.30	2.50
(8)	2.75	3.00	3.25	2.70	3.30	3.45	3.00	3.50	3.00	3.00
(9)	4.50	4.50	4.50	4.50	5.25	5.10	4.80	5.00	4.50	4.90
(10)	7.50	9.00	8.25	8.40	8.60	9.10	8.00	8.00	7.00	9.00
(11)	12.25	15.00	13.00	13.40	14.50	15.30	13.00	12.00	11.00	13.00
(12)	1.75	1.50	1.75	1.90	1.85	2.05	1.70	2.00	2.00	1.90
(13)	300.00	500.00	400.00	350.00	420.00	425.00	450.00	400.00	300.00	700.00
(14)	23.00	18.00	21.00	25.00	22.00	28.00	22.00	25.00	22.00	25.00
(15)	3.00	2.00	3.00	3.90	3.75	3.00	4.00	3.00	3.00	5.00
(16)	350.00	300.00	350.00	360.00	380.00	400.00	400.00	450.00	300.00	500.00
(17)	4.00	4.00	2.00	4.60	3.00	6.00	5.00	5.00	4.00	5.00
(18)	2.50	4.00	2.00	2.20	3.00	2.50	3.00	3.00	3.00	3.50

ORANGE COUNTY—STEEL BRIDGE—(STATE)

ORANGE COUNTY, Cal.—Franklin B. Gridley, 256 S Lake Ave., Pasadena, at \$41,832.90 submitted low bid to State Highway Commission, Sacramento, for constructing a steel stringer bridge with concrete deck across Santa Ana river at Buaro St., consisting of eight 47-ft. spans, concrete piers and abutments with pile foundation, in Orange County, involving:

- (1) 730 cu. yds. struc. excav.;
- (2) 4,430 lin. ft. furnish Douglas fir piles including test piles;
- (3) 710 lin. ft. furnish steel piles, including test piles;
- (4) 126 each driving Douglas fir piles, including test piles;
- (5) 14 each driving steel piles, including test piles;
- (6) 968 cu. yds. Class A Port. cem. conc. structures;

- (7) 28 cu. yds. do. railing;
- (8) 97,000 lbs. bar reinf. steel;
- (9) 358,000 lbs. struc. steel;
- (10) 750 lbs. cast steel;
- (11) 1 lot misc. items of work.

Complete bids follow:

- (A) Franklin B. Gridley, 256 S Lake Ave., Pasadena, \$41,832.90.
- (B) Eyerts & Dunn, Los Angeles, \$42,138.00.
- (C) R. R. Bishop, Long Beach, \$42,168.10.
- (D) Silveria & Robbins, Inc., Ventura, \$42,511.10.
- (E) Herbert M. Baruch Corp., Ltd., Los Angeles, \$43,944.60.
- (F) Sharp and Fellows, Los Angeles, \$44,302.30.
- (G) David J. Reed and Jos. Muiser, Los Angeles, \$48,963.00.

Unit prices follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
(1)	\$.60	\$ 1.25	\$ 1.30	\$ 2.50	\$ 1.50	\$ 1.00	\$ 1.50
(2)	.23	.20	.23	.25	.27	.23	.20
(3)	2.00	1.50	1.35	2.00	2.00	1.80	2.00
(4)	16.00	15.00	14.00	18.00	19.00	13.30	14.00
(5)	20.00	40.00	40.00	18.00	85.00	13.00	20.00
(6)	16.00	14.00	16.40	14.50	14.75	17.60	19.00
(7)	40.00	40.00	40.00	45.00	47.50	40.00	50.00
(8)	.039	.04	.042	.0425	.039	.0464	.045
(9)	.043	.045	.042	.0422	.047	.045	.045
(10)	.50	.16	.15	.15	.15	.20	.30
(11)	500.00	2043.50	700.00	1000.00	320.00	500.00	3126.00

BIDS OPENED

INYO COUNTY, Cal.—Basich Bros., 20550 Normandie Ave., Torrance, at \$129,943.05 submitted low bid to the State Highway Commission, Sacramento, for grading and surfacing 5.8 miles with bituminous treated selected surfacing material, between Dougherty's Corner and Birchim Canyon, in Inyo County, involving:

- (1) 200 each remove trees and stumps
- (2) 23,400 cu. yds. rdwy. excav., unclassified;
- (3) 430,000 sta. yds. overhaul;
- (4) 84,500 cu. yds. imported borrow;
- (5) 6,000 cu. yds. ditch excavation;
- (6) 3,550 cu. yds. struc. excav.;
- (7) 11,650 tons selected surf. mat'l;
- (8) 1,063 bbls. light fuel oil;
- (9) 607 tons cutback asphalt;

- (10) 113 cu. yds. Class A Port. cem. conc. struc.;
- (11) 9,000 lbs. bar reinf. steel struc.;
- (12) 850 cu. yds. salvage surf. shoulders;
- (13) 117 bbls. heavy fuel oil shoulders
- (14) 220 lin. ft. 12-in. CMP;
- (15) 2 308 lin. ft. 18-in. CMP;
- (16) 704 lin. ft. 24-in. CMP;
- (17) 98 lin. ft. 30-in. CMP;
- (18) 102 lin. ft. 48-in. CMP;
- (19) 38 lin. ft. 84-in. CMP;
- (20) 1,528 lin. ft. 72-in. perf. metal pipe underdrains;
- (21) 710 lin. ft. 18-in. base part circle corrugated MP;
- (22) 1,046 lin. ft. CMP clean and relay;
- (23) 2,104 lin. ft. salvage exist. culverts;
- (24) 51 ea. remove existing headwalls
- (25) 13 ea., existing headwalls to be removed and reset;
- (26) 255 lin. ft. rock walls to be removed;
- (27) 30 ea., existing sidewalk ramps to be removed;
- (28) 10 ea., remove and reset existing manhole frames;
- (29) 4 ea., remove and reset existing valve casings;
- (30) 5.54 miles remove and dispose of existing fences;
- (31) 7.44 miles new property fence;
- (32) 13 each fence gates;
- (33) 8 each, 18-in. lateral headgates;
- (34) 2.0 MFBM redwood timber, select all-heart struc. grade;
- (35) 1,555 M. gals. water;
- (36) 404 tons screenings to be furnished and stockpiled;
- (37) 317 sta. finish roadway;
- (38) 36 each monuments, complete in place.

Complete bids follow:

- (A) Basich Bros., Torrance, \$129,943.05.
- (B) Hemstreet & Bell, Marysville, \$131,120.40.

	(A)	(B)
(1).....	\$ 4.00	\$ 3.00
(2).....	.70	.32
(3).....	.095	.095
(4).....	.60	.70
(5).....	.15	.20
(6).....	.80	.90
(7).....	1.58	1.21
(8).....	2.00	2.30
(9).....	16.00	20.50
(10).....	24.00	30.00
(11).....	.06	.06
(12).....	1.50	1.75
(13).....	2.50	2.75
(14).....	1.20	1.20
(15).....	1.50	1.80
(16).....	2.30	2.75
(17).....	2.80	3.50
(18).....	6.90	9.50
(19).....	15.50	20.50
(20).....	1.60	1.65
(21).....	1.60	1.30
(22).....	.45	.50
(23).....	.25	.35
(24).....	4.00	5.00
(25).....	7.00	10.00
(26).....	.50	.50
(27).....	4.00	10.00
(28).....	4.50	7.50
(29).....	4.00	5.00
(30).....	60.00	75.00
(31).....	325.00	425.00
(32).....	14.00	15.00
(33).....	16.00	16.00
(34).....	100.00	100.00
(35).....	1.25	1.25
(36).....	1.75	2.00
(37).....	6.50	5.00
(38).....	1.50	3.00

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BIDS OPENED

MADERA & MARIPOSA COS., Cal.—Heafey-Moore Co., 344 High Street, Oakland, at \$172,289.20 submitted low bid to Bureau of Public Roads, San Francisco, for placing a crushed rock base course on Sections C and D, and bituminous surface treatment on Sections A, B, C and D of Route 47, the Oakhurst National Forest Highway, Sierra National Forest, in Madera and Mariposa counties. Complete bids follow:

(A) Heafey - Moore Co., Oakland, \$172,289.20.

(B) Hemstreet & Bell, Marysville, \$236,620.10; Alt. (if permitted to use rock from quarry site 500 ft. west of Sta. 540, Sec. D), \$181,785.16.

(C) Granite Const. Co., Watsonville, \$188,616.64.

(D) Engineer's estimate, \$157,668.29.

- Unit quantities follow:
- (1) 2,000 cu. yds. unclass. excav.;
 - (2) 100 cu. yds. unclass. for struc.;
 - (3) 9,980 miles fine grade subgrade;
 - (4) 2,500 M. gals. water;
 - (5) 2,700 M. gals. watering;
 - (6) 29,600 tons crushed rock;
 - (7) 8,600 tons do, base course;
 - (8) 10,000 tons do, for shoulders;
 - (9) 900 tons supplemental crush. rock screening;
 - (10) 750 tons supplemental crush. rock shoulders;
 - (11) 430 tons bit. binder in place;
 - (12) 37,300 gals. liquid asph. material in place;
 - (13) 24 cu. yds. Class B concrete;
 - (14) 252 lbs. reinf. steel;
 - (15) 120 lin. ft. 8-in. perf. CMP;
 - (16) extra work maintain detour;
 - (17) 35 cu. yds. crushed rock or gravel rock fill;
 - (18) 4,000 cu. yds. subgrade reinf.;
 - (19) 8,000 cu. yd. ml. haul subgrade reinf.;
 - (20) 0.48 MFBM redwood planking in place.

Unit prices follow:

	(A)	(B)	(Alt. B)	(C)	(D)
(1).....	\$ 1.25	\$ 1.00	\$	.75	.75
(2).....	2.50	2.00		1.50	2.00
(3).....	500.00	350.00		450.00	500.00
(4).....	3.75	3.00		4.00	2.75
(5).....	2.00	1.50		2.00	2.50
(6).....	2.51	3.95		2.85	3.00
(7).....	2.86	4.40		3.30	3.00
(8).....	2.70	4.10		3.00	2.25

RIVERSIDE & SAN BERNARDINO COS.—Grading—(Govt.)

RIVERSIDE AND SAN BERNARDINO COUNTIES, Cal.—Clyde W. Wood, Box 1435, Stockton, at \$98,087.80 submitted low bid to the U. S. Bureau of Public Roads, San Francisco, for grading Section A of Federal Lands Highway Project No. 2, the Blythe-Needles Highway, in Riverside and San Bernardino Counties, involving:

- (1) 276,000 cu. yds. unclass. excav.;
- (2) 45,600 cu. yds. unclass. excav. for ditch and dyke;
- (3) 800 cu. yds. unclass. excav. struc
- (4) 123,000 sta. yds. overhaul;
- (5) 45,000 cu. yd. mi. overhaul;
- (6) 33,498 mi. finish. earth graded rd.
- (7) 82 cu. yds. concrete;
- (8) 7000 lbs. rein. steel;
- (9) 1466 lin. ft. 18-in. C.M.P.;
- (10) 1734 lin. ft. 24-in. do.;
- (11) 1084 lin. ft. 30-in. do.;
- (12) 378 lin. ft. 36-in. do.;

- (13) 504 lin. ft. 48-in. 12-ga. CMP.;
 - (14) 76 lin. ft. 48-in. 10-ga. CMP.;
 - (15) Lump sum, extra work, moving telephone poles.
- Complete bids follow:
- (A) Clyde W. Wood, Stockton, \$98,087.80.
 - (B) Isbell Constr. Co., Carson City, Nevada, \$111,964.30.
 - (C) Larson Bros., Sacramento, \$113,335.10.
 - (D) Geo. K. Thompson, Los Angeles, \$115,207.40.
 - (E) C. B. Willis & Son, Inc., Los Angeles, \$122,925.46.
 - (F) Thorn, Strong & Grant, Springville, Utah, \$133,589.85.
 - (G) J. E. Haddock, Pasadena, \$144,737.80.
 - (H) Gist & Bell, Arcadia, \$188,436.80.
 - (I) Engineer's Estimate, \$126,864.90.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
(1).....	\$.21	\$.21	\$.24	\$.26	\$.2575	\$.30	\$.35	\$.49	\$.28
(2).....	.16	.21	.15	.16	.20	.23	.25	.20	.20
(3).....	1.00	1.00	1.00	1.00	1.25	1.50	1.00	1.50	1.00
(4).....	.055	.02	.02	.02	.02	.02	.01	.03	.03
(5).....	.10	.20	.20	.25	.20	.20	.10	.18	.20
(6).....	100.00	350.00	200.00	100.00	300.00	75.00	300.00	300.00	200.00
(7).....	20.00	25.00	25.00	30.00	24.00	25.00	27.00	30.00	30.00
(8).....	.06	.06	.07	.06	.075	.10	.065	.06	.07
(9).....	2.60	1.75	2.00	1.40	1.65	2.00	1.65	2.00	1.75
(10).....	3.10	2.50	2.75	2.20	2.55	3.25	2.55	2.50	2.60
(11).....	4.00	3.00	3.25	2.80	3.34	4.00	3.20	3.10	3.15
(12).....	6.00	4.75	5.00	4.40	4.95	6.00	5.00	5.00	5.00
(13).....	8.00	6.75	8.00	6.50	7.45	9.00	7.20	7.50	6.70
(14).....	9.00	8.00	8.00	7.50	8.50	10.00	8.70	10.00	7.50
(15).....	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00	1000.00

Award of contract to low bidder has been recommended.

FORT MASON — PIER EXTENSION — (GOVT.)

FORT MASON, Cal.—Healy-Tibbitts Const. Co., 64 Pine St., San Francisco at \$283,300 submitted low bid to Construction Quartermaster, Fort Mason, for the construction of an extension to Pier No. 3 at Fort Mason. Complete bids follow:

(A) Healy-Tibbitts Const. Co., S. F., \$283,300.

(B) Duncanson-Harrelson Co., S. F., \$298,215.

(C) M. B. McGowan, S. F., \$324,487.

(D) Schuler & McDonald, Inc., Oakland, \$377,000.

Unit quantities follow:

(I) for the entire work complete.

(II) deduction from Item I if one row of typical interior bays, full length, is omitted.

(III) deduction if the garage and fire house bldg. which is specified to be removed by the contractor is removed by the Govt.

(IV) unit prices:

- (1) concrete, including forms, per c. y.
 - (2) reinf. steel, per 100 lbs.;
 - (3) struc. steel, per 100 lbs.;
 - (4) creosoted timber, 8 lb. treatment, per MBM;
 - (5) creosoted timber, 12 lb. treatment per MBM;
 - (6) creosoted fender piles, per lin. ft.;
 - (7) creosoted corner piles, per lin. ft.;
 - (8) green piles, per lin. ft.;
 - (9) concrete piles, per lin. ft.
- All bids held under advisement.

Unit prices follow:

	(A)	(B)	(C)	(D)
(1).....	\$283,300.00	\$298,215.00	\$324,487.00	\$377,000.00
(II).....	34,000.00	34,620.00	36,467.00	58,000.00
(III).....	300.00	200.00	250.00	2,100.00
(1).....	10.00	6.85	9.20	14.00
(2).....	4.00	3.75	3.50	3.80
(3).....	3.50	3.80	3.40	4.00
(4).....	70.00	68.00	71.00	80.00
(5).....	80.00	75.00	80.00	85.00
(6).....	.65	.55	.63	1.20
(7).....	.80	.55	.63	1.35
(8).....	.12	.16	.18	.25
(9).....	1.50	1.25	.95	2.25

(9) 3.25 4.00 2.90 3.38 3.00

(10) 2.60 3.66 2.50 2.80 2.00

(11) 24.00 25.00 25.00 25.00

(12) .08 .08 .06 .07

(13) 35.00 40.00 30.00 32.00

(14) .10 .08 .07 .07

(15) 1.25 1.25 1.00 1.10

(16) 500.00 500.00 500.00 500.00

(17) 4.00 3.00 4.00 2.75

(18) .50 .25 .50 .50

(19) .25 .10 .10 .15

(20) 100.00 100.00 100.00 80.00

Bids held under advisement.

abutments, in Plumas County, involving:

- (1) 125 cu. yds. struc. excav.;
 - (2) 321 cu. yds. Class A Portland cem. concrete;
 - (3) 35,000 lbs. bar reinf. steel;
 - (4) 101,000 lbs. struc. steel;
 - (5) 570 lbs. east bearings;
 - (6) 374 lin. ft. solid timber railing;
 - (7) 1 lot miscellaneous items of work.
- Complete bids follow:
- (A) J. W. Halterman, Willows, \$16,595.10.
 - (B) E. T. Lesure, Oakland, \$18,462.50.

Unit prices follow:

	(A)	(B)
(1).....	\$ 5.90	\$ 3.00
(2).....	20.40	24.50
(3).....	.0531	.056
(4).....	.058	.054
(5).....	.23	1.20
(6).....	1.25	1.20
(7).....	500.00	1060.00

PLUMAS COUNTY, Cal. — J. W. Halterman, Willows, at \$16,595.10 submitted low bid to State Highway Commission, Sacramento, for constructing a steel stringer bridge with concrete deck across Yellow Creek about 2 miles west of Howells, consisting of one 50-ft. span, one 44-ft. span and two 32-ft. spans on concrete piers and

BIDS OPENED

ALAMEDA COUNTY, Calif.—Fredrickson & Watson, 873 81st St., Oakland, and Basalt Rock Co., 900 8th St., Napa, at \$274,687 submitted low bid to the State Highway Commission, Sacramento, for constructing a rock retaining wall about 4.1 miles long and placing miscellaneous riprap between the westerly end of the Key Route Mole fill and the foot of Folger Ave., Berkeley, on the East Bay approach to the San Francisco-Oakland Bay Bridge. The work involves:

- (1) 120,000 tons core rock;
 - (2) 107,000 tons face rock.
- Complete bids follow:
- (A) Fredrickson & Watson and Basalt Rock Co., Oakland, \$274,687.
 - (B) Healy-Tibbitts Const. Co., San Francisco, \$286,282.
 - (C) Heafey-Moore Co., and J. A. Casson, Oakland, \$341,601.
 - (D) MacDonald & Kahn, San Francisco, \$351,620.

Unit bids follow:

	(A)	(B)	(C)	(D)
(1)	\$1.05	\$.89	\$1.20	\$1.33
	(145 lb.)	(168 lb.)	(165 lb.)	(165 lb.)
(2)	1.60	1.55	1.75	1.695
	(150 lb.)	(168 lb.)	(165 lb.)	(165 lb.)

BIDS OPENED

VENTURA COUNTY, Cal.—Basch Bros., 20550 Normandie Ave., Torrance, at \$430,172 submitted low bid to the State Highway Commission, Sacramento, for grading and paving 8.5 miles with asphalt concrete, bet. Ventura and Mussel Shoal in Ventura County, involving:

- (1) 447 sta. clear and grub right of way;
- (2) 143,000 cu. yds. rdwy. excav., unclassified;
- (3) 4,200,000 sta. yds. overhaul;
- (4) 95,000 cu. yds. imported borrow;
- (5) 9,000 cu. yds. struc. excav.;
- (6) 67,000 sq. yds. subgrade for pave;
- (7) 83,500 sq. yds. asph. paint binder
- (8) 35,700 tons asph. conc. base and leveling course;
- (9) 20,250 tons asph. conc. type A surf. course;
- (10) 700 cu. yds. Class A Port. cem. conc. struc.;
- (11) 63,000 lbs. bar reinf. steel struc.;
- (12) 2,000 lbs. misc. iron and steel struc.;
- (13) 110 lin. ft. 18-in. CMP;
- (14) 840 lin. ft. 24-in. CMP;
- (15) 20 lin. ft. 30-in. CMP;
- (16) 380 lin. ft. 36-in. CMP;
- (17) 70 lin. ft. 48-in. CMP;
- (18) 70 lin. ft. 18-in. CMP paved invert;

- (19) 260 lin. ft. 24-in. do;
- (20) 40 lin. ft. 18-in. reinf. conc. pipe;
- (21) 140 lin. ft. 54-in. do;
- (22) 2,000 cu. yds. conc. removed from existing pave. and struc.;
- (23) 3,200 lin. ft. solid timber guard rail;
- (24) 2,500 lin. ft. laminated timber do;
- (25) 2.5 miles new property fences;
- (26) 9.5 miles move and reset property fences;
- (27) 24 each gates, complete in place;
- (28) 41,800 lin. ft. furnish steel sheet piles including test piles;
- (29) 2,330 each driving steel sheet piling, including test piles;
- (30) 81 MFEM creosoted Douglas fir timber sheet piling;
- (31) 196,000 lbs. structf metal sheet piling;
- (32) 200 cu. yds. Class B Port. cem. conc. sheet piling;
- (33) 22,500 tons riprap;
- (34) 8,000 M. gals. water;
- (35) 4,000 bbls. fuel oil;
- (36) 8.5 miles prepare, mix and shape shoulders;
- (37) 130 each timber culvert markers;
- (38) 447 stations finishing roadway;
- (39) 122 each monuments complete in place.

Complete bids follow:

- (A) Basch Bros., Torrance, \$430,172.

APACHE & NAVAJO COS. — Highway Constr. — (Govt.)

APACHE & NAVAJO COUNTIES, Ariz.—Everly & Allison, Albuquerque, N. M., at \$46,682.50 (as previously reported) submitted low bid to the Bureau of Public Roads, Phoenix, Ariz., for grading Section B-1 of Route 1, for grading all of Route 2, and for performing miscellaneous construction on Section A of Route 1, Petrified Forest, National Monument, Apache and Navajo Counties, Arizona, involving:

- (1) 30,700 cu. yds. unclass. excav.;
- (2) 624 cu. ft. unclass. excav. for struc.;
- (3) 51,200 cu. yds. unclass. excav. for borrow;
- (4) 18,500 sta. yds. overhaul;
- (5) 57 cu. yds. Class B concrete;
- (6) 1200 lbs. reinf. steel;
- (7) 40 cu. yds. cem. rubble masonry;
- (8) 224 lin. ft. 18-in. CMP in place;
- (9) 368 lin. ft. 24-in. do;
- (10) 154 lin. ft. 20-in. do;
- (11) 182 lin. ft. 36-in. do;
- (12) 130 lin. ft. 18-in. CMP in place (asph. dipped);
- (13) 620 lin. ft. 24-in. do;
- (14) 445 cu. yds. handlaid riprap;
- (15) 6680 lin. ft. wood guard rail in place;
- (16) 360 cu. yds. basket riprap;

- (17) 10,000 lbs. wire mesh for basket riprap;
- (18) 12,600 lin. ft. protection ditch;
- (19) 1850 lin. ft. protection ditch; set;
- (20) 360 lin. ft. remove, clean and stockpile or dispose of exist. CMP;

- (21) 19,750 cu. yds. mi. borrow haul;
- (22) Extra work, obliterating road;
- (23) 13,600 lin. ft. fence in place;
- (24) 18 each right-of-way monuments
- (25) 2 each cattle guards in place.

Complete bids follow:

- (A) Everly & Allison, Albuquerque, New Mexico, \$46,682.50.
- (B) Skousen Bros., Albuquerque, New Mexico, \$50,047.10.
- (C) Leo Frost, Joseph City, Arizona, \$51,931.70.
- (D) O. F. Fisher, Phoenix, Arizona, \$53,569.88.
- (E) Rogers Bros., Snowflake, Arizona, \$58,775.00.
- (F) Hodgman & MacVicar, Box 337, Flagstaff, Arizona, \$59,949.50.
- (G) All Arizona Engr. & Constr. Co., Clifton, Arizona, \$66,796.10.
- (H) Western Motor Transfer, Inc., Santa Barbara, \$82,868.98.
- (I) Engineer's Estimate, \$60,709.00.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
(1).....	\$.37	\$.28	\$.25	\$.35	\$.50	\$.30	\$.63	\$.55	\$.45
(2).....	.90	1.00	2.50	1.00	1.00	1.25	1.50	1.00	1.30
(3).....	.20	.28	.22	.20	.25	.30	.30	.60	.30
(4).....	.03	.03	.05	.05	.10	.05	.05	.03	.03
(5).....	22.00	28.00	30.00	25.00	24.00	22.00	25.00	45.00	25.00
(6).....	.08	.10	.08	.07	.10	.10	.10	.10	.08
(7).....	17.50	23.00	18.00	20.00	15.00	22.00	18.00	22.00	20.00
(8).....	2.00	2.00	1.85	1.97	2.00	2.25	2.40	2.18	1.75
(9).....	2.95	2.70	2.70	2.77	3.00	3.25	3.25	3.20	2.75
(10).....	3.60	3.50	3.60	3.35	1.25	4.25	4.50	4.19	3.50
(11).....	5.65	5.00	5.40	5.12	5.50	6.00	6.00	6.40	4.25
(12).....	2.10	2.50	2.00	2.15	2.25	2.50	2.50	2.35	2.00
(13).....	3.18	3.20	2.90	3.05	3.50	3.50	3.50	3.50	3.00
(14).....	5.00	2.50	4.00	3.00	2.00	5.00	3.50	8.00	4.00
(15).....	1.00	.70	1.00	1.40	1.10	1.50	1.30	1.50	1.25
(16).....	2.50	2.00	5.00	3.50	3.00	3.00	4.00	8.00	4.50
(17).....	.14	.11	.20	.10	.10	.10	.15	.07	.12
(18).....	.05	.07	.15	.10	.10	.10	.06	.12	.08
(19).....	.06	.04	.05	.08	.04	.10	.08	.05	.10
(20).....	1.00	1.00	2.00	1.50	1.00	1.50	2.00	.75	1.00
(21).....	.06	.32	.20	.30	.30	.30	.20	.12	.25
(22).....	550.00	550.00	550.00	550.00	550.00	550.00	550.00	550.00	550.00
(23).....	.07	.06	.16	.08	.06	.07	.10	.10	.12
(24).....	3.50	5.00	5.00	5.00	5.00	4.00	5.00	3.00	3.50
(25).....	750.00	700.00	625.00	550.00	500.00	550.00	600.00	600.00	600.00

ARIZONA — HIGHWAY CONSTRUCTION — (STATE)

ARIZONA STATE.—Lee Moor Contracting Co., 1202 Bassett Tower, El Paso, Texas, at \$419,450.19 (using cable guard rail and cutback asphalt) submitted low bid (as previously reported) to the Arizona State Highway Commission, Phoenix, for highway construction on the Prescott-Ashfork Highway, NRH 61 (AFE-8914). The work, which is to extend from Jerome Highway junction northerly for about 22 1/2 miles, consists of grading and draining the roadway and placing base course and plant mix, using either cutback or emulsified asphalt, and is to be completed on or before Nov. 30, 1934. Complete bids follow:

Total I (items 1 to 59);
Alt. (1) steel plate road guard;
Alt. (2) emulsified asphalt;
Total II steel plate guard rail and emulsified asph.

(A) Lee Moor Contracting Co., El Paso, Texas, Total I, \$419,415.19; Alt. (1) \$420,544.19; Alt. (2) \$476,762.09; Total II, \$471,391.09.

(B) Orr & Lashmet and Pleasant-Hasler Co., Phoenix, Total I \$442,329.20; Alt. (1) \$446,313.29.

(C) New Mexico Const. Co., Albuquerque, Total I, \$449,424.13; Alt. (1) \$449,988.63; Alt. (2) \$474,675.63; Total II, \$475,240.13.

(D) J. E. Haddock, Pasadena, Cal., Total I, \$459,236.12; Alt. (1) \$459,800.62.

(E) Vincent-Pringle & G. R. Daley,

Phoenix, Total I, \$482,056.25; Alt. (1) \$485,443.25; Alt. (2) \$516,555.96; Total II, \$519,942.96.

Unit quantities follow:

- (1) 72,261 cu. yds. rdwy. excav., unclassified;
- (2) 4,523 cu. yds. struc. excav., unclassified;
- (3) 21,083 cu. yds. drainage excav., unclassified;
- (4) 50 cu. yds. slides and overbreakage;
- (5) 6,790 cu. yds. borrow excav., unclassified;
- (6) 44,677 sta. yds. earthwork overhaul;
- (7) 5,939 cu. yds. mi. earthwork haul;
- (8) 79,906 cu. yds. select. borrow;
- (9) 57,862 cu. yds. mi. select borrow, haul;
- (10) 70,329 cu. yds. select material;
- (11) 112,036 cu. yd. mi. select material haul;
- (12) 33,708 cu. yds. agg. base course;
- (13) 72,620 cu. yd. mi. do, haul;
- (14) 1,029 M. gals. sprinkling (CIP);
- (15) 1,012 hours rolling;
- (16) 22 cu. yds. Class AA concrete, including cement;
- (17) 1,106 cu. yds. Class A conc., including cement;
- (18) 585 cu. yds. Class B conc., including cement;
- (19) 110,666 lbs. reinf. steel bars (CIP)
- (20) 1,880 sq. yds. Class A concrete in concrete forms (inc. cement);
- (21) 116,104 lbs. struc. steel;

- (22) 259 MBM treated timber (CIP);
- (23) 14 MBM untreated timber (CIP);
- (24) 5,264 lin. ft. treated timber piles, (CIP);
- (25) 526 lin. ft. treated timber piles (cut-off);
- (26) 256 each pile points (CIP);
- (27) 17 each water barrels (CIP);
- (28) 1,356 lin. ft. 24-in. CMP (CIP, including bands);
- (29) 706 lin. ft. 30-in. do;
- (30) 608 lin. ft. 36-in. do;
- (31) 492 lin. ft. reset 24-in. CMP (CIP)
- (32) 64 lin. ft. reset 36-in. do;
- (33) 1,825 lin. ft. reset water pipe CIP
- (34) 18 each type A cattle guard, CIP;
- (35) 1 each type B do;
- (36) 11,290 lin. ft. cable road guard, (type A (CIP));
- (37) 217,740 lin. ft. standard line fence (CIP);
- (38) 70 cu. yds. plain currap (CIP);
- (39) 170 cu. yds. rock riprap (CIP);
- (40) 65 cu. yds. French drain (CIP);
- (41) 35,750 lin. ft. grader ditches;
- (42) 179 each right of way markers (CIP);
- (43) 74 cu. yds. remove old concrete;
- (44) 360 each guard posts (CIP);
- (45) lump sum remove of cattle guards
- (46) lump sum remove old Chino Wash bridge;
- (47) 6,137 sq. yds. reshape road surf.;

- (48) 14,557 cu. yds. shoulder material;
- (49) 34,792 cu. yd. ml. do, haul;
- (50) 2,946 cu. yds. gravel sidewalk, do;
- (51) 2,807 cu. yd. ml. gravel sidewalk material, haul;
- (52) 40,033 tons plant mix (CIP) using cutback asphalt;
- (53) 1,601 tons cutback asph. (CIP) for plant mix;
- (54) 219 tons emulsified asph. (CIP) for seal coat;
- (55) 2 tons cutback asph. (CIP) bridge floor coat;
- (56) 22,087 miles place plant mix;
- (57) 1,919 cu. yds. screenings (CIP);
- (58) 1,150 sq. yds. placing intersec.;
- (59) 440 cu. yds. stockpiled agg., CIP;

Alternate In Lieu of Item 36)
 (36a) 11,290 lin. ft. steel plate road guard (CIP);

Alternate In Lieu of Items 52 and 53)
 (52a) 41,342 tons plant mix (CIP) using emulsified asphalt);

(53a) 2,892 tons emuls. asph. (CIP) for plant mix only;

Alt. (In Lieu of Items 36, 52 and 53)
 (36a) 11,290 lin. ft. steel plate road guard (CIP);

(52a) 41,342 tons plant mix (CIP) using emulsified asph.;

(53a) 2,892 tons emuls. asph. (CIP) for plant mix.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)
(1)	.43	.5125	.44	.35	.51
(2)	1.10	.90	1.25	1.00	1.25
(3)	.42	.25	.36	.25	.39
(4)	.3225	.384	.33	.2625	.3825
(5)	.30	.20	.24	.25	.37
(6)	.03	.03	.03	.03	.04
(7)	.24	.25	.36	.30	.22
(8)	.165	.21	.17	.24	.22
(9)	.28	.20	.29	.24	.17
(10)	.165	.16	.24	.28	.22
(11)	.195	.14	.25	.15	.13
(12)	.50	.45	.72	.50	.58
(13)	.10	.12	.14	.13	.12
(14)	2.75	3.00	3.00	3.00	2.60
(15)	2.00	2.50	2.80	2.75	3.00
(16)	2.00	70.00	50.00	80.00	72.00
(17)	22.50	21.00	25.00	25.00	24.00
(18)	22.50	21.00	23.00	26.00	23.00
(19)	.05	.05	.05	.06	.05
(20)	2.25	2.75	2.30	3.20	3.00
(21)	.055	.06	.05	.07	.062
(22)	100.00	100.00	100.00	120.00	115.00
(23)	86.50	90.00	100.00	115.00	87.00
(24)	1.40	1.20	1.50	1.35	1.30
(25)	1.05	.90	1.125	1.0125	.975
(26)	.80	1.00	2.50	1.00	1.60
(27)	12.50	10.00	5.00	10.00	12.00
(28)	2.35	2.55	3.33	3.00	3.00
(29)	3.05	3.55	4.60	3.60	4.00
(30)	4.35	5.50	6.60	5.50	5.55
(31)	.70	.85	.50	.60	1.30
(32)	.90	1.50	.66	1.00	2.00
(33)	.12	.25	.50	.50	.90
(34)	135.00	200.00	200.00	200.00	375.00
(35)	338.00	400.00	500.00	400.	440.00
(36)	.80	.70	.72	.80	.79
(37)	.05	.0525	.05	.08	.08
(38)	1.80	3.00	1.70	4.00	2.60
(39)	2.10	2.00	.95	3.00	3.30
(40)	1.80	3.00	1.90	5.00	3.30
(41)	.03	.03	.03	.05	.025
(42)	1.45	2.25	3.00	2.50	2.60
(43)	4.75	5.00	6.50	2.00	5.00
(44)	2.25	2.00	1.70	3.00	1.50
(45)	100.00	100.00	60.00	200.00	80.00
(46)	1000.00	1250.00	1250.00	2000.00	2000.00
(47)	.035	.03	.03	.02	.04
(48)	.50	.45	.60	.50	.60
(49)	.10	.12	.11	.13	.14
(50)	.40	.22	.25	.50	.68
(51)	.12	.20	.22	.25	.20
(52)	2.00	2.525	1.90	2.38	2.65
(53)	23.00	26.00	25.00	22.00	25.00
(54)	26.50	28.00	27.00	24.00	25.00
(55)	27.00	125.00	125.00	30.00	35.00
(56)	262.00	350.00	250.00	250.00	320.00
(57)	4.15	5.00	3.00	3.00	4.00
(58)	.30	.15	.07	.25	.30
(59)	1.95	3.00	1.90	3.00	3.00
(56a)	.90	1.00	.77	.85	1.00
(52a)	2.20		1.60		2.48
(53a)	27.00		26.00		27.00
(36a)	.90		.77		1.00
(52a)	2.20		1.60		2.48
(53a)	27.00		26.00		27.00

- (B) Sharp & Fellows, Los Angeles, \$431,163.
- (C) Jabn & Bressi, Los Angeles, \$442,895.50.
- (D) Griffith Co., Los Angeles, \$448,640.50.

Unit prices follow:

	(A)	(B)	(C)	(D)
(1)	\$ 3.00	\$ 3.00	\$ 3.00	\$ 16.00
(2)	.22	.20	.21	.21
(3)	.0025	.003	.002	.003
(4)	.36	.33	.49	.43
(5)	.60	.50	.50	.60
(6)	.07	.08	.07	.13
(7)	.015	.02	.03	.02
(8)	2.69	2.72	2.80	2.65
(9)	2.99	2.90	3.15	3.00
(10)	18.00	20.00	14.00	14.00
(11)	.0425	.04	.04	.034
(12)	.12	.09	.15	.04
(13)	1.75	1.50	1.75	1.60
(14)	2.30	2.25	2.15	2.20
(15)	3.00	2.75	2.55	2.70
(16)	4.50	4.40	4.50	4.00
(17)	9.00	7.25	8.35	7.00
(18)	2.50	1.70	2.50	2.50
(19)	3.20	2.60	3.60	3.50
(20)	2.40	2.50	2.75	2.30
(21)	10.00	9.25	10.00	8.00
(22)	2.00	2.40	2.00	2.00
(23)	.75	1.00	1.00	.80
(24)	.75	1.00	.90	.75
(25)	400.00	350.00	400.00	450.00
(26)	150.00	240.00	250.00	275.00
(27)	10.00	15.00	20.00	10.00
(28)	1.01	1.30	1.00	1.10
(29)	5.50	2.50	4.50	5.00
(30)	91.00	78.00	80.00	80.00
(31)	.07	.06	.05	.07
(32)	16.00	14.00	17.00	18.00
(33)	2.50	2.50	2.90	2.40
(34)	.70	.50	.40	.50
(35)	1.20	1.50	1.45	1.35
(36)	300.00	350.00	350.00	470.00
(37)	2.00	1.50	2.50	2.00
(38)	5.00	4.50	6.00	15.00
(39)	2.00	2.00	2.50	2.00

COMPLETE BIDS

LOS ANGELES, Calif.—Youngstown Steel Car Corp., Niles, Ohio, (519 Delta Building) at \$143,169.50 f.o.b. cars Niles, discount 1% 10 days, submitted low bid to the Metropolitan Water District, Los Angeles, for furnishing approximately 1975 tons of liner plates and structural steel ribs for tunnel support for 15 ft. 3 in. and 16 ft. tunnels. Specifications No. 63. Bids were taken on liner plates and structural steel ribs, complete with bolts, etc. The plates are to be 16-in. in width by 37 11/16-in. or 18 27/32-in. long. The items are:

- (1) 160 tons liner plates, 3/8-in. thick;
- (2) 135 tons do, 5/32-in. thick;
- (3) 975 tons do, 1/4-in. thick;
- (4) 95 tons do, 7/64-in. thick;
- (5) 600 grout connections in liner plates;
- (6) 80 tons ribs of 6-in., 12.5 lbs. I-beam;
- (7) 55 tons ribs of 4-in., 10 lbs. do;
- (8) 475 tons ribs of 4-in., 7.7 lbs. do.

The total bids were:

- (A) Youngstown Steel Car Corp., Niles Ohio, \$143,169.50; f.o.b. Niles, 1% 10 days.
- (B) Turson Steel Co., 5480 E Slauson Ave., Los Angeles, \$175,107; f.o.b. Cleveland, 1/2 of 1%, 10 days.
- (C) Western Pipe & Steel Co., P. O. Box 1120 Arcade Station, Los Angeles, \$196,183.50; f.o.b. 5717 Santa Fe Ave., Los Angeles. No discount, payment within 30 days.

Unit bids follow:

	(A)	(B)	(C)
(1)	\$72.50	\$85.30	\$98.90
(2)	74.50	85.10	98.40
(3)	76.50	88.35	102.00
(4)	81.50	91.60	105.80
(5)	.22	.22	.25
(6)	58.00	87.50	85.35
(7)	61.25	90.10	89.55
(8)	65.35	90.60	96.15

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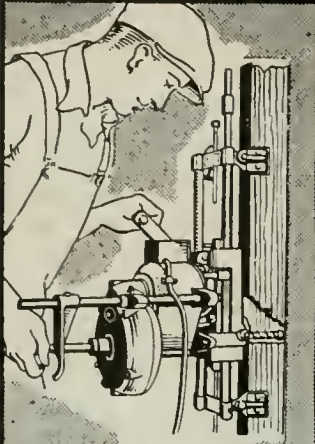
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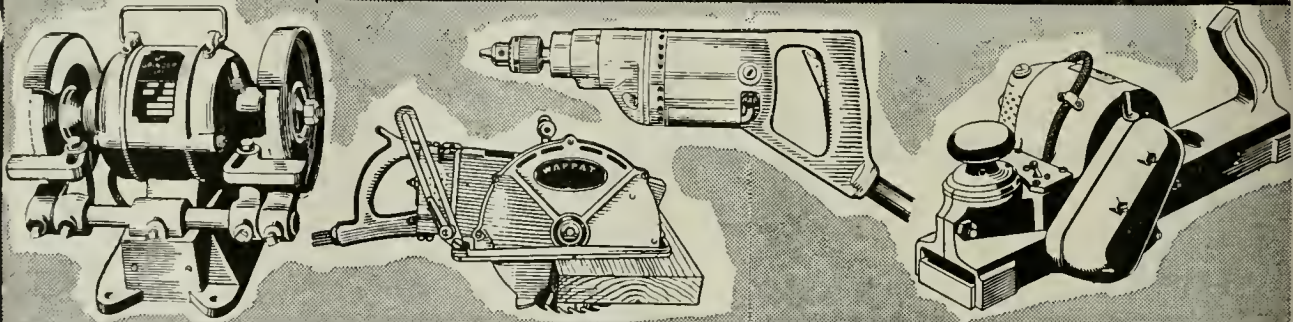
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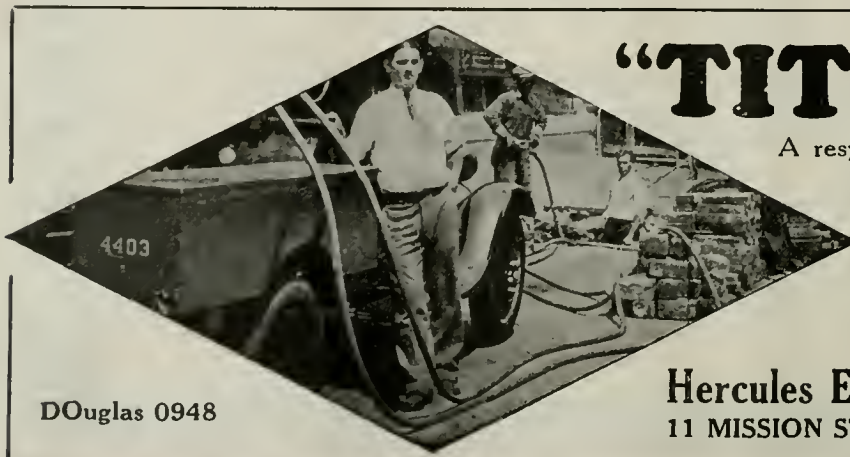
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SAN FRANCISCO, CALIF., DECEMBER 16, 1933

No. 48

Public Works to Cost \$14,000,000 On City and County Special Ballots

Bond issues proposing \$11,050,800 for buildings and other public improvements will be submitted to voters in various counties and cities of northern California at elections next week. The majority of the bond proposals contemplate an additional grant for the project of 30 percent of the cost of labor and materials from federal PWA funds. This will bring the total contemplated expenditure to approximately \$14,000,000. All but two of the special elections will be consolidated with the state election Tuesday.

Of the proposed bond issues \$8,295,800 is for schools and other public buildings. These include appropriations for courthouses, libraries, auditorium and hospitals. The largest engineering project is that of the city of Eureka, providing a bond issue of \$925,000 to be increased by Federal grant to \$1,131,000 for construction of a new water supply system. The city of Oakland will vote on proposals totaling \$1,795,000 to be increased by 30% grants from the PWA to extend sewers, construct bridge approaches, create a high pressure system and develop playgrounds. The city of Fresno bond proposals include \$35,000 for a storm sewer.

The largest building project is that of the county of Alameda, proposing \$1,712,000 for a new county office building and courthouse. The county already has received approval of a grant of \$462,000 in Federal money contingent upon the approval of bonds for this building.

Municipalities of Alameda county will vote on school bond issues as follows: Alameda, \$448,000; Albany, \$150,000; Piedmont, \$233,000. The city of Oakland bond list includes \$802,000 for building and furnishing a new central library and various branches.

San Francisco will vote on \$3,000,000 for new schools, proposing to replace six frame buildings with fire and earthquake-proof structures, recondition four others and to erect the proposed George Washington high school and the Marina junior high school.

Fresno county will vote on a bond issue of \$280,000 for a new hall of records. The county will ask \$120,000 in Federal money to complete a \$400,000 building. Stanislaus county proposes a \$250,000 courthouse and San Luis Obispo county will vote on \$200,000 for a combination courthouse and jail. Federal funds also are being asked to increase the total appropriation.

Fresno city buildings for which bonds are to be submitted include \$375,000 for a municipal auditorium and \$77,500 for a new fire engine house.

Four counties propose additional hospital facilities. Stanislaus county is submitting a bond issue of \$247,000 for the county hospital; Madera county, \$70,000; Yuba county, \$55,000; San Luis Obispo county, \$21,000.

Analy Union High School District in Sonoma county, will vote on \$200,000 to be supplemented by a \$45,000 Federal grant for a high school building.

Coalinga Union High School District will vote on Monday on a bond issue of \$150,000 for a new high school building, swimming pool and miscellaneous improvements.

Also on Monday an election will be held in San Mateo county on a proposal to authorize expenditure of \$90,000 in surplus funds in the school district treasury to reconstruct San Mateo and Burlingame schools in compliance with state earthquake safety regulations. The proposed expenditure would be increased to about \$120,000 by Federal grant.

TO SEGREGATE NEW SCHOOL WORK

Members of the Alameda city board of education are in favor of erecting the proposed new school buildings under segregated contracts, according to a statement by William C. Hitchings, president of the board. The city will vote on a bond issue of \$448,000 for new buildings at the election December 19. According to Hitchings, the work probably would be divided as follows: brick work, lathing and plastering, plumbing, heating and ventilation, electrical, sheet metal, roofing, painting and general, the latter including excavation, foundation, concrete and carpentry.

BOND ISSUES

The following public works bond issues will be submitted to voters in various Northern California counties and municipalities at special elections next week:

PUBLIC BUILDINGS

ALAMEDA CO. (Courthouse)	\$1,712,000	
Alameda City (Schools)	\$ 448,000	
Albany City (Schools)	\$ 150,000	
Piedmont City (Schools)	\$ 233,000	
Oakland City (Libraries)		\$3,345,300
S. F. COUNTY (Schools)	\$3,000,000	\$3,000,000
FRESNO CO. (Hall of Records)	\$ 280,000	
Coalinga City (High School)	\$ 150,000	
Fresno City (Auditorium)	\$ 375,000	
Fresno City (Fire Eng. House)	\$ 77,500	
		\$ 882,500
STANISLAUS CO. (Court-house)	\$ 250,000	
" (Hosp. Addn.)	\$ 247,000	
		\$ 497,000
SAN LUIS OBISPO CO. (Co'thouse, Jail)	\$ 200,000	
(Memorial Hall)	\$ 25,000	
(Hospital Addn.)	\$ 21,000	
		\$ 246,000
SONOMA COUNTY:		
Analy District High School Building	\$ 200,000	\$ 200,000
MADERA CO. (Hospital)	\$ 70,000	\$ 70,000
YUBA CO. (Hospital)	\$ 55,000	\$ 55,000
<hr/>		
PUBLIC WORKS (Other than Bldg.)		
HUMBOLDT COUNTY:		
Eureka City (Waterworks)	\$ 925,000	\$ 925,000
ALAMEDA COUNTY:		
Oakland City (Sewers)	\$ 700,000	
" (Bridge Approaches)	\$ 750,000	
" (High Pressure Sys.)	\$ 245,000	
" (Recreation Centers)	\$ 100,000	
		\$1,795,000
FRESNO COUNTY:		
Fresno City (Storm Sewer)	\$ 280,000	\$ 35,000

ROAD BUREAU CHIEF REVIEWS YEAR'S WORK

No Appropriation Available to Federal-Aid Highway Construction

In place of the usual authorization of Federal-aid road funds, the last Congress provided, in the National Industrial Recovery Act, \$400,000,000 for the construction of highways as a means of furnishing employment during the fiscal year 1934, says Thomas H. MacDonald, Chief of the Bureau of Public Roads in the annual report of the bureau for the fiscal year ending June 30, 1933, submitted to the Secretary of Agriculture and made public in Washington today.

For the first time in 17 years, the fiscal year ended without definite provision by Congress for the continuance of the program of Federal-aid road construction.

The unobligated balance of all Federal-aid appropriations thus far authorized was reduced by projects initiated during the year to little more than \$15,000,000 and of the special emergency appropriation of \$120,000,000, made in July 1932, there remained for new projects only \$3,000,000.

Employment during the fiscal year 1933 on Federal projects, the report states, amounted to 1,138,283 man-months, a gain, due mainly to the \$120,000,000 emergency appropriation, of 577,673 man-months. Thus, employment was more than double the 1932 total. Winter employment on highway work was increased sharply. It was apparent that the greater total employment on all Federal and State highways in the summer of 1932, as compared with the summer of 1931, was due very largely to the Federal emergency highway appropriation.

Mileage of Federal-aid roads constructed in the fiscal year 1933 was less than in the preceding year but greater than in any other year. Projects completed totaled 13,255 miles, of which a total of 8,503 miles was new construction, 4,700 miles stage construction, and 52 miles relocation.

Mileage of highways completed with Federal-aid funds to June 30, 1933, was 107,869 of the total of 206,277 miles in the designated Federal-aid highway system. Nearly all of the remaining mileage had been improved to some extent by the States.

Forest highways—the more important highways through the national forests—are built by the Bureau of Public Roads. Of this class of roads, Mr. MacDonald reports a

completion of 359 miles during the last fiscal year and a total of 5,593 to date.

Road construction in the national Parks, by agreement with the National Park Service, is supervised by the Bureau of Public Roads, and 174 miles were built in 1933, making a total of 674 miles thus far improved.

All field operations in connection with the reconnaissance survey of the proposed inter-American highway from Panama to the United States were completed before the end of the year and the report to Congress is in preparation.

Transportation, economic and statistical investigations were conducted in many states. A traffic survey in Michigan revealed that 50 per cent of all Michigan traffic is carried on the streets of cities, 17 per cent on township and county roads, and 33 per cent on the State highway system. Other traffic surveys were conducted in Indiana, New Jersey and in the regional area around Washington, D. C. Additional studies were made of traffic capacity and intersections, highway signs, uniformity in motor vehicle regulations, and taxation in Wisconsin, Michigan and Illinois.

Careful studies of road construction as an employment measure were made to determine the amount of labor entering into each of the various road building and maintenance operations, and the variation of the labor element with the use of machinery. It was found that about 90 per cent of the taxpayers' road dollar was eventually paid to workers as wages and salaries and, in addition, many widespread industries received a financial stimulus. Other studies were made of rolled concrete pavements, concrete from central mixing plants, low-cost roadbuilding methods, grading operations, and highway accounting methods.

Physical research investigations cover a wide range and include studies of motor vehicle impact, concrete pavement design, concrete and concrete aggregates with regard to vibration, delayed finishing and other tests, highway bridge investigations, measurement of the roughness of road surfaces, bituminous materials and low-cost roads, and subgrades.

TUOLUMNE BOARD INCREASE WAGES

Tuolumne county board of supervisors has voted to increase the prevailing wage for labor on county projects, effective January 1, 1934. The new scale sets the following rates: common labor, \$4.00; truck drivers, tractor operators, gradersmen and jackhammer men, \$5.00. The former rates were \$3.60 and \$4.50, respectively.

BERKELEY ASKS \$4,361,287 FOR SCHOOL WORK

Federal Public Works funds totaling \$4,361,287 as asked in a petition filed by the Berkeley board of education for completely rehabilitating the city's schools, most of which have been condemned as faulty under the new state law fixing minimum earthquake resistance for public buildings.

A total of \$1,755,716 is asked for the high school district in a loan of \$1,374,987 and a grant of \$380,729, and a total of \$2,605,571 is asked for elementary schools in a loan of \$1,930,772 and a grant of \$674,799.00.

The applications state that the work consists of structural reconditioning and rehabilitation of existing school buildings and the construction of new buildings to replace those that have been condemned and are beyond possibility of reconstruction for safety of pupils.

In the elementary school project, the application states in part: "There are several reasons why this project is extremely urgent and absolutely necessary. From the information at hand, the lives of approximately 11,000 school children are in danger, due to the type of construction that was permitted by previous building codes which did not take into consideration the lateral forces caused by earthquakes.

"The apprehension felt and realized by the Board of Education, its officials and the citizens of Berkeley is such that following the information now at hand from the investigation of the prevailing conditions it will be necessary for the Board of Education to immediately vacate four large brick buildings and house the pupils of these buildings in temporary quarters such as tents and portable single room school buildings. These alone involve the safety of 3,065 pupils attending these four, whose lives are in immediate danger, should an earthquake of even moderate intensity occur in this vicinity.

"With the exception of two elementary schools, many of the remaining buildings were built 42 years ago and not only are they obsolete but extremely dangerous, because of earthquake, fire and panic."

The application for the high school district is worded similarly, stating in part that it will be necessary to vacate four large brick buildings used for senior and junior high school classes and that they involve the safety of 3000 pupils.

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Bay Bridge Approach Among Ten Jobs Advertised For January 3

SACRAMENTO, Dec. 12.—In the largest opening scheduled since last September the State Highway Commission today advertised ten contracts on which bids will be received on January 3, the first bid opening of the new year. Included in the work advertised today is the construction of a section of the Eastbay approach to the San Francisco-Oakland Bay Bridge, consisting of 22 concrete piers and double-deck concrete spans.

The construction will include driving 1000 piles, placing 6180 yds. of concrete, 600,000 pounds of reinforcing steel, and other items.

Following is the complete list of contracts advertised

ALAMEDA COUNTY: Construct 22 reinforced concrete piers with timber piles, ten reinforced concrete spans for the lower deck highway and interurban traffic and six reinforced concrete spans for the upper deck highway in Oakland, immediately east of the Eastbay crossing of the San Francisco-Oakland bay bridge.

FRESNO COUNTY: 0.8 mi. grade and pave with asphalt concrete in Fresno between California Avenue and Echo Avenue.

HUMBOLDT CO.: Construct a bridge across southfork of the Eel river at Smith Point, consisting of one 100-ft., one 120-ft. and 99-ft. plate girder spans and two 57-ft. reinforced concrete girder spans, one concrete pier and abutments.

LOS ANGELES COUNTY: 1.8 mi. grade and pave with asphalt concrete in Long Beach between the easterly boundary of the city of Los Angeles and Pacific Avenue.

LOS ANGELES COUNTY: Construct reinforced concrete bridge on Sunset boulevard across Glendale boulevard in the city of Los Angeles, consisting of a filled arch having a clear span of 90 feet.

LOS ANGELES COUNTY: Construct a bridge across Ramona boulevard at Lord street in Los Angeles consisting of two reinforced concrete slab spans 50 feet in length on reinforced concrete piers and reconstruct existing timber stringer spans on timber bents and concrete footings.

MENDOCINO COUNTY: 1.4 mi. grade and surface with gravel between McDonald and Yorkville.

SANTA BARBARA CO.: 2.1 mi. grade and surface with oil treated gravel between Santa Ynez river and Santa Ynez.

SANTA BARBARA CO.: 3.2 mi. grade and pave with asphalt concrete on a portland cement concrete base and with bituminous macadam surfacing on a crusher-run base in Santa Barbara.

VENTURA COUNTY: Construct overhead crossing, consisting of 9 40-ft. and two 58-ft. reinforced concrete girder spans and one 94-foot steel span over the tracks of the Southern Pacific Company near Ventura.

PIER ACCESS TRESTLE FALLS IN HEAVY SEA

Contractors Sustain Loss in Gate Bridge Work at Fort Point

Heavy seas battered down the contractors' access trestle on the site of the Golden Gate bridge south pier opposite Fort Scott late Wednesday, doing damage estimated unofficially at \$100,000. Between 800 and 1000 feet of the trestle must be restored before work on the pier can be resumed.

The trestle carried railroad tracks for mobile cranes, compressed air lines, water pipe and electric conduits. Pacific Bridge Company, contractors on the pier, must stand the loss occasioned by the wrecking of the trestle.

Engineers for the bridge district informed the board of directors Wednesday that it probably would be necessary to authorize the contractors to proceed with excavation for the pier and fender to a depth of 35 feet beyond the original 65-foot depth fixed for the foundation. The additional excavation is covered in the Pacific Bridge Company contract to be paid for at \$10,000 per foot, increasing the estimated cost of the pier by \$350,000.

The following statement was issued by General Manager James Reed, of the Golden Gate Bridge & Highway District yesterday, after a survey of the damage to the working trestle at Fort Point:

"The tremendous battering effect of the storm waves at the San Francisco pier and fender location, as demonstrated by carrying away the working trestle last night, merely serves to emphasize the reasons advanced by Moran & Proctor, consulting engineers for the Pacific Bridge Company, and by the chief engineer and consulting engineers for the Golden Gate Bridge and Highway District in their unanimous recommendation to the board of directors yesterday, to minimize all hazards during the construction period by increasing the depth and spread of the fender section and in modifying the order of procedure in their construction.

"The possibility of such increase of the fender depth was contemplated by the engineer in preparing the specifications of the contract, and a unit price covering this work, if it should be required, was bid by the contractor. This procedure is customary in all engineering works of this character.

"The trestle accident will not increase the delay occasioned by the modified fender construction program presented to the board."

A proposed bond issue of \$500,000 for new school buildings has been deferred by the Salt Lake City board of education until next year.

EARNINGS GAIN DESPITE DROP IN EMPLOYMENT

Per capita is Larger For Construction Industry, Commissioner Reports

Employment in the construction industry in the state of California declined 18.1 percent during November, compared with the month preceding, according to a report yesterday by State Labor Commissioner Frank C. MacDonald. The decline in the San Francisco-Alameda region was 19.1 percent, according to reports from 55 firms.

Compared with November a year ago the month's employment was off 2.2 percent in the state as a whole, despite an increase of 19.1 percent in the Los Angeles area. San Francisco-Alameda reported a decline of 9.2 percent and the remainder of the state 37.4 percent.

Per capita weekly earnings gained 5.8 percent in November by comparison with October, although the total weekly payrolls were 13.3 percent lower. In the local region per capita earnings were up by 12.6 percent compared with October and total payrolls were off only 9 percent, considerably less than the state average.

Employment in the manufacturing industries of the state was 23.1 percent above November a year ago but 10.3 percent below the preceding month, MacDonald's report shows. A gain in average weekly earnings between October and November of 5.1 percent was indicated, although total weekly payrolls decreased by 5.7 percent.

\$11,500 GIVEN FOR

STUDY OF CEMENT

A gift of \$11,500 has been made to the University of California by the Santa Cruz Portland Cement Company for research in the properties of high-silica cements, the university regents announced yesterday. The gift was the largest single item in the month's list of gifts to the university.

To Employ Local Architects on Special Civil Works Projects

Employment for scores of architects, artists and draftsmen will be provided on special projects being prepared by the Civil Works Administration in California with the assistance of the American Institute of Architects and the California State Association of Architects, it was announced yesterday.

Announcement of the specific projects which are to be financed with CWA funds is expected before the end of the week.

Meanwhile the association has been authorized to register all unemployed men who can qualify for the type of work to be done. Those employed will be engaged for thirty hours a week until February 15 at a pay of from 85 cents to \$1.10 per hour.

Albert J. Evers, president of the San Francisco chapter, A.I.A., and Chester Miller, president of the California association, have been appointed by the directors of their organizations to prepare various suitable projects to be submitted to the CWA.

Registration of unemployed who will be eligible for the proposed work will start immediately. Applicants residing in San Francisco should enroll at the offices of the state association in the Building Materials Exhibit, 557 Market St., or at the Re-employment Service Bureau, 857 Howard street.

Employment will be given in the counties in which the applicants reside. Alameda county residents should register at the State Employment bureaus at Tenth and Franklin streets, Oakland, or 200½ Grove street, Berkeley. Residents of other counties may apply at their local, state or federal employment offices.

The local works program will fit in with that outlined by Civil Works Administrator Harry L. Hopkins for the employment of skilled workers who are not fitted for the manual labor required on the majority of approved civil works.

The federal government plans to employ 20,000 workers, including 2500 mural artists and sculptors to decorate various public buildings. Architects, engineers and draftsmen will be similarly assigned to employment for which they are trained.

SUPERVISORS SET KINGS WAGE SCALE

Kings county board of supervisors has adopted a prevailing wage scale for county public works as follows:

Carpenters, 75 cents an hour.
Painters, journeymen, 75 cents an hour.
Painters, contractors, 95 cents.
Electricians, \$1.00.
Plasterers, \$1.00.
Bricklayers, \$1.25.
Hod Carriers, 63 cents.
Plumbers, journeymen, \$1.00.
Sheet Metal Wrokers, \$1.00.
Steel Fitters, \$1.00.

No figure was set for common labor.

SPEAKER TELLS OF PWA HOUSING PLANS UNDER NEW CORP.

The policy of the Public Works Emergency Housing Corporation was outlined by Frederick L. Ackerman, consultant to the housing division of the PWA, in an address before the conference on essential unemployment legislation meeting in Washington.

Mr. Ackerman said in part:

"The Public Works Administration will continue to loan on slum clearance operations and low cash housing projects sponsored by public bodies and limited dividend corporations.

"It is the intention of the administration to undertake the work through the Emergency Housing Corporation only upon invitation from local officials or groups of representative citizens or civic organizations, — where the Housing Corporation initiates local group and agencies will be utilized to the fullest extent possible, in the acquisition of sites, design, construction, and operation of the projects.

"By confining the work of the Emergency Housing Corporation, at the present time, to the clearance of slum dwellings and the production of a like number of low cost units, limited as to rentals and restricted as to occupancy to the low income group, the Administration can stimulate one of the basic industries and provide like or more employment for the sums expended."

TO DISCOURAGE PRICE "RAIDS"

Reports to the effect that retailers and large consumers are organizing "numerous companies" for the purpose of securing wholesale discounts have caused the Lumber Code Authority to caution its administrative agencies with reference to such possible raids on the minimum price structure.

"Please report immediately to this office," declares a bulletin to divisions signed by Ray Weiss, Trade Practices Department Chief, "all instances of this character coming to the attention of you and your members. Such reports should present all evidence possible to secure, as we consider collection of evidence of this character of the utmost importance. It is our purpose to vigorously enforce the provisions of Schedule B now in effect and we ask your cooperation, assistance and suggestions to accomplish this end."

STATE SECOND IN NRA ROAD CONSTRUCTION

Value of Contracts Underway Exceeded Only by New York, Survey Shows

California leads all states west of the Rocky Mountains in number of men employed on NRA highway projects and in value of contracts awarded, according to a report prepared by the Bureau of Public Roads as of November 25.

California ranks fourth in value of contracts awarded and second in value of work actually under construction, being exceeded only by New York. States with more work under contract are New York, Texas and Pennsylvania, ranking in the order named.

The Bureau reported a total of 2,423 projects under construction on November 25 with an estimated total cost of \$129,060,000, of which \$119,594,000 was from PWA appropriations. The number of men employed in highway construction was reported at 134,805.

The estimated total cost of work awarded on the same date was \$165,309,000, of which \$153,142,000 was from PWA funds, representing obligation of 38.9 percent of the \$400,000,000 authorized.

WEEK'S LUMBER SALES DECLINE

A total of 489 down and operating mills which reported to the West Coast Lumbermen's Association for the week ending December 2, produced 83,372,824 board feet of lumber. This was a decrease of approximately 12,500,000 under the preceding week. The average week's production of this group of sawmills in 1933 has been 87,302,494 feet; during the same period in 1932 their weekly average was 66,980,244 feet.

The new business reported last week by 454 mills is 66,109,996 board feet against a production of 80,591,436 feet and shipments of 80,697,029 feet. Their shipments were approximately the same as production, and their current sales were under production by 18.0 percent. The orders booked last week by this group of identical mills were under the preceding week by 8,000,000 feet or 10.8 percent.

The unfilled order file at these mills stood at 436,107,753 board feet a decrease of about 17,000,000 feet from the week before.

The aggregate inventories of 130 mills are 3.1 percent less than at this time last year.

CONSULTANT NAMED

A. W. Quist of A. W. Quist & Co., Seattle general contractors, has been appointed consulting engineer for the Hawaiian Dredging Company, Honolulu, successful bidders on the \$3,000,000 naval repair basin at Pearl Harbor. Mr. Quist expects to leave for the islands about March 1st.

PERMITS AND CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
870	Sarib	Owner	3000
871	Surian	Owner	3000
872	Golden	Owner	1000
874	Phelan	Phelan	1000
875	Goodyear	Clinton	3000
876	Bendinelli	Borsl	4000
877	Lerer	Owner	4000
878	Wolff	Moore	1900
879	Cavaglio	Owner	1500
888	Demartini	Owner	1000
889	Liebman	Owner	30000
890	Margolis	Thomas	1000
891	Milwaukee	Murray	19000
892	Wintergarden	Evanow	1000
893	ROOS	Mullen	1623

ALTERATIONS
(870) NO. 625 SECOND ST. Alter warehouse.
Owner—G. W. Sarib, 625 2nd St., San Francisco.
Architect—Not Given. \$3000

ALTERATIONS
(871) SW THIRTIETH AND MISSION STS. Alter flats.
Owner—G. Surian and J. Valla, 3393 Mission St., San Francisco.
Architect—G. A. Berger, 309 Valencia St., San Francisco. \$3000

ALTERATIONS
(872) NO. 28 GOLDEN GATE AVE. Alter store.
Owner—Golden State Tire Co., 28 Golden Gate Ave., San Francisco.
Architect—Not Given. \$1000

ALTERATIONS
(874) NW TURK AND FILLMORE. Alter restaurant.
Owner—P. J. Phelan, 3245 Cabrillo St., San Francisco.
Architect—Not Given.
Contractor—P. J. Phelan, 3245 Cabrillo St., San Francisco. \$1000

ALTERATIONS
(875) NO. 1160-1162 FILBERT ST. Alter flats.
Owner—Mrs. Grace Goodyear, 2164 Hyde St., San Francisco.
Architect—Henry Gutterson, 526 Powell St., San Francisco.
Contractor—Clinton-Stephenson Construction Co., 550 Montgomery St., San Francisco. \$3000

DWELLING
(876) S GEARY ST. 50 W Blake St. One-story and basement frame dwelling.
Owner—E. Bendinelli, 3015 Geary St., San Francisco.
Architect—Not Given.
Contractor—C. L. Borsi & Son, 1279 25th Ave., San Francisco. \$4000

REPAIRS
(877) NO. 398 ELEVENTH ST. Repair fire damage to warehouse roof.
Owner—Jos. Lerer & Sons, 389 11th St., San Francisco.
Architect—Not Given. \$4000

ALTERATIONS
(878) 2535 VALLEJO ST.; alter well.
Owner—Drs. E. and L. Wolff, 2535 Vallejo St.
Architect—W. I. Garren, 233 Post St.
Contractor—Moore & Roberts, 693 Mission Street. \$1900

ALTERATIONS
(879) NO. 315 LONDON ST. Stucco dwelling.
Owner—R. Cavaglio, Premises.
Architect—Not Given. \$1500

ADDITION
(888) NO. 1024 FILBERT ST. Add store room to building.
Owner—P. Demartini, 1024 Filbert St., San Francisco.
Architect—Not Given. \$1000

APARTMENTS
(889) SW JEFFERSON AND WEBSTER STS. Three-story frame (15) apartments.
Owner—Ben Leibman, 1555 Francisco St., San Francisco.
Architect—R. R. Irvine, 2048 Market St., San Francisco. \$30,000

ALTERATIONS
(890) NO. 501 BAKER ST. Alter dwelling.
Owner—J. Margolis, 501 Baker St., San Francisco.
Architect—Not Given.
Contractor—Leslie Thomas Studios, 635 Stevenson St., S. F. \$1000

STORAGE BLDG.
(891) E JUNIPER 175 N Bryant St. Two-story Class A storage building.
Owner—Milwaukee Brewery of San Francisco, 490 Tenth St.
Engineer—Warren E. Murray, 908 Hayes St., S. F. \$19,000

ALTERATIONS
(892) NO. 142 CALIFORNIA ST. Alter restaurant.
Owner—Wintergarden Cafe Co., 142 California St., San Francisco.
Architect—Not Given.
Contractor—Evanow Mfg. Co., 9 Minna St., San Francisco. \$1000

ALTERATIONS
(893) MARKET AND STOCKTON. Alter store.
Owner—Roos Bros., Premises.
Architect—Albert R. Williams, Humboldt Bank Bldg., San Francisco.
Contractor—Mullen Mfg. Co., 60 Rauesch St., San Francisco. \$1623

ALAMEDA COUNTY

534	Pepperell	Rodgers	4400
535	Bushell	Wallace	5910
538	Forman	Easterly	1000
536	Johnson	Owner	5000
537	Dart	Owner	2400
539	Chevrolet	Overhead	2000
540	Crocker	Owner	2800
541	Atkins	Owner	1000
542	Nucleus	Owner	3000

DWELLING
(533) NO. 163 DUNCAN WAY, OAKLAND. One-story 3-room dwlg.
Owner—Rose L. Finzel, 1546 Wellington Ave., Oakland.
Architect—Not Given.
Contractor—Chas. W. Falk, 1520 E-35th St., Oakland. \$1800

DWELLING
(534) NO. 2000 106TH AVE., OAKLAND. One-story 6-room dwlg.
Owner—Sidney Pepperell.
Architect—Not Given.
Contractor—J. C. Rodgers, 2257 106th Ave., Oakland. \$4400

ALTERATIONS
(535) NO. 150 TWELFTH ST. NW Cor. 12th and Madison Sts., OAKLAND. Alter to garage.
Owner—Bushell Estate.
Architect—Not Given.
Contractor—F. J. Wallace, 907 Washington St., Oakland. \$5910

DWELLING
(536) NO. 4000 OAKMORE ROAD, OAKLAND. One-story 6-room dwelling.

Owner—O. W. Johnson, 4237 Atlas Ave., Oakland.
Architect—Not Given. \$5000

DWELLING
(537) NO. 7928 OUTLOOK AVENUE, OAKLAND. One-story 4-room dwelling.
Owner—V. V. Dart, 7918 Outlook Ave., Oakland.
Architect—Not Given. \$2400

ALTERATIONS
(538) NO. 1639 OXFORD ST., BERKELEY. Alterations.
Owner—H. J. Forman, 1639 Oxford St., Berkeley.
Architect—Not Given.
Contractor—Geo. W. Easterly, 5255 Shafter Ave., Oakland. \$1000

ALTERATIONS
(539) 6901 FOOTHILL BLVD., OAKLAND; alterations.
Owner—Chevrolet Motor Co., 6901 Foothill Blvd., Oakland.
Architect—Not Given.
Contractor—Cverhead Door Co., 608 16th St., Oakland. \$2000

DWELLING
(540) 1951 86th AVE., OAKLAND; 1-story 6-room dwelling.
Owner and Contractor—Fred Crocker, 8508 E 14th St., Oakland.
Architect—Not Given. \$2800

ALTERATIONS
(541) NO. 764 KINGSTON AVENUE, OAKLAND. Alterations and repairs.
Owner—A. Atkins, 764 Kingston Ave., Oakland.
Architect—Not Given. \$1000

REPAIRS
(542) NO. 1445 OAK ST., OAKLAND. Repairs.
Owner—Nucleus Bldg. & Loan Assn., 6 North First St., San Jose.
Architect—Not Given. \$3000

BUILDING CONTRACTS SAN FRANCISCO COUNTY

189	Montgomery	Bigotta	765
190	Guglielmone	Chippa	2330
191	Goodyear	Clinton	2982
192	Gilmore	Johnson	5873

PAINTING, ETC.
(189) E MONTGOMERY ST., bet. Washington and Merchants Sts., known as The Montgomery Block Building. All work for painting, tinting and decorating on the interior of four-story brick building.
Owner—The Montgomery Block Real Estate Associates, Inc.
Architect—A. Reinhold Denke, 222 Dalziel Bldg., Oakland.
Contractor—P. A. Bigotta, 1213 Stockton St., San Francisco.
Filed Dec. 8, '33. Dated Dec. 8, '33.
When work completed.....\$573
Usual 35 days.....192
TOTAL COST, \$765
Bond, none. Limit, 30 days. Forfeit, none. * Specifications only filed.

BUILDING
(190) NW MONTGOMERY & GREEN W 40xN 19-6. All work for two-story and basement frame building.
Owner—G. Guglielmone.
Architect—W. H. Armitage, 3560 California St., San Francisco.
Contractor—C. Chippa, 1109 Montgomery St., San Francisco.
Filed Dec. 9, '33. Dated Nov. 28, '33.
Feame; sup.....\$582.50
Brown; coat-plaster on.....582.50

When completed 582.50
 Usual 35 days 582.50
TOTAL COST, \$2330.00
 Bond, \$1165. Surety, Tony Schulba.
 Limit, 60 days. Forfeit, none. Plans
 and specifications filed.

ALTERATIONS

(191) 1160-62 FILBERT ST.; altera-
 tions to 2-story frame building.
 Owner—Grace Goodyear, 2164 Hyde St.
 Architect—Henry H. Gutterson, 526
 Powell Street.
 Contractor—Clinton Stephenson Const.
 Co., Ltd., 550 Montgomery Street.
 Filed Dec. 12, '33. Dated Dec. 11, '33.
 5th of each month 75%
 Usual 35 days 25%
TOTAL COST, \$2982.00
 Limit, 60 days. Plans and Specifi-
 cations filed.

ADDITION

(192) NE THIRD & EIGHTEENTH
 Sts. All work for addition to ex-
 isting one-story frame office build-
 ing.
 Owner—Gilmore Oil Co., Ltd., Prem.
 Architect—Hibbard, Gerity & Kerton,
 816 W. Fifth St., Los Angeles.
 Contractor—J. Harold Johnson, 639
 Brannan St., San Francisco.
 Filed Dec. 13, '33. Dated Dec. 11, '33.
 On or about 5th and 20th of each
 month 75%
 Upon completion a sum sufficient
 to increase total payments to 75%
 36 days after Final
TOTAL COST, \$5873
 Bond, \$5873. Surety, Fidelity & De-
 posit Co. of Maryland. Limit, forfeit,
 none. Plans and specifications filed.

ALAMEDA COUNTY

72 Owl	Dunn	3194
71 Safeway	Parker	2303

PLATFORM

(71) SECOND AND HARRISON STS.
 Oakland. All work for loading
 platform.
 Owner—Safeway Stores, Inc., Fourth
 and Jackson Sts., Oakland.
 Architect—Not Given.
 Contractor—K. E. Parker Co., 135
 South Park, San Francisco.
 Filed Dec. 5, '33. Dated Dec. 1, '33.
 On completion 75%
 Usual 35 days 25%
TOTAL COST, \$2303
 Bond, none. Limit, 25 days. Forfeit,
 none. Plans and specifications filed.

STORE FIXTURES

(72) NW COR. 13th and Broadway,
 Oakland; store fixture installation.
 Owner—The Owl Drug Co., 657 Mission
 St., San Francisco.
 Architect—E. A. Duval, 304 Broadway
 Bldg., Oakland.
 Contractor—Louis C. Dunn, Monad-
 nock Bldg., San Francisco.
 Filed Dec. 12, '33. Dated Dec. 8, '33.
 Completion \$2445.50
 Usual 35 days 748.50
TOTAL COST, \$3194.00
 Bond, \$2994. Sureties, Massachusetts
 Bonding Co. Forfeit, \$50 per day.
 Limit, Dec. 29, 1933. Plans and Spec.
 filed.

SAN FRANCISCO UNDER \$1000

SIGN, electric, \$80; 1413 Fillmore St.;
 owner, R. Chemich. Prem.; con-
 tractor, American Elec. Sign Co.,
 1740 Eddy St.
 SIGN, electric, \$25.00; 405 Ellis Street;
 owner, St. George Smoke Shop, 405
 Ellis St.; contractor, QRS Neon
 Corp., Ltd., 690 Potrero Ave.
 GARAGE, one-story private, \$450; N
 Hollister 50 W Ingalls; owner, I.
 Lembi; contractor, C. A. Faggloni,
 1567 Revere St.
 ALTER dwelling, \$25; 437 Chenery St.
 owner, A. Anderson, 274 Locust.

SIGN, electric, \$200; 1962 Ocean Ave.;
 owner, Robin Hood's, Premises;
 contractor, QRS Neon Corp., Ltd.,
 690 Potrero Ave.
 SIGN, electric, \$300; 376 Geary St.;
 owner, Tiny's Waffle Shop, 376
 Geary St.; contractor, QRS Neon
 Corp., Ltd., 690 Potrero Ave.
 FLUES (2) patent, \$60; 805 York St.;
 owner, P. J. Hurley, 1676 Hayes
 St.; contractor, Western Furnace
 Co., 1143 Golden Gate Ave.
 SIGN, electric, \$200; 111 Montgomery
 St.; owner The Waldorf, 111 Mont-
 gomery St.; contractor, Electrical
 Prod. Corp., 255 Golden Gate Ave.
 ALTER dwelling, \$150; 3235 Divisa-
 dero St.; owner, F. Casissa, 3235
 Divisadero; contractor, G. B. De
 Lucchi, 4 Sharp Place.
 ALTER store, \$150; 1500 Stockton St.;
 owner, Personi Drug Co., 1500
 Stockton Street; contractor, S. A.
 Guisti & Co., 200 Green St.
 BRACE fire walls, \$92; 923 Market St.;
 owner, D. A. Bienfield, 666 Mission
 Street.
 ALTER rest, \$47; 235-237 Powell St.;
 owner, Crane Coffee Shop, Lu Rose
 Inc., 237 Powell St.
 ALTER stores, \$250; 490-92 Pacific;
 owner, S. H. Guisti, 200 Green St.;
 contractor, same.
 SIGN, electric, \$300; NE Lombard
 and Pierce Sts.; owner, Barney
 Norwith, Ninth Ave. and Lincoln
 Way; contractor, Pioneer Elec.
 Co., 2128 Market St.
 SIGN, electric, \$300; 714 Van Ness
 Ave.; owner, J. B. McDonald, 477
 Golden Gate Ave.; contractor,
 Pioneer Elec. Co., 2128 Market.
 SIGN, electric, \$100; 61 Third Street;
 owner, Schnitzelbank, 61 3rd St.;
 contractor, Pioneer Elec. Co., 2128
 Market St.
 ALTER apartments, \$100; 824 Hyde;
 owner, Virginia Chatori, 824 Hyde
 POULTRY house, one-story, \$950; 300
 Lake St.; owner, Little Sisters of
 the Poor, 300 Lake St.; contrac-
 tor, E. W. Yount, 315 Avila St.
 SIGN, electric, \$200; 908 Valencia St.;
 owner, The Grapevine, 908 Valen-
 cia St.; contractor, Brumfield
 Elec. Sign Co., 965 Folsom St.
 SIGN, electric, \$200; 815 Ulloa St.;
 owner, Lucile Beauty Shop, 815
 Ulloa St.; contractor, Pioneer Elec.
 Co., 2128 Market St.
 SIGN, electric, \$200; 2113 Chestnut St.
 owner, San Remo Wine Shop, Inc.
 Premises; contractor, Apex Elec.
 Co., 363 Fell St.
 ALTER office, \$300; 121 Nlath St.,
 owner, J. Conlin Co., 151 Sutter.
 SIGN, electric, \$200; 1385 Golden Gate
 Ave.; owner, Kron & Simmons,
 Prem.; contractor, Elec. Prods.
 Corp., 255 Golden Gate Ave.
 ALTER store, \$25; 1023 Market St.;
 owner, Thomas Magee Co., 69 Sut-
 ter St.; contractor, W. Spivock,
 582 Market St.
 SIGN, electric, \$200; 458 Geary St.;
 owner, J. Mandelkern, Premises;
 contractor, Elec. Prods. Corp., 255
 Golden Gate Ave.
 ALTER store, \$500; 2068 Chestnut;
 owner, M. Stelling Jr., 155 Mont-
 gomery St.
 ALTER store, \$400; 1427 Fillmore St.;
 owner, Jonas, Schoenfeldt Estate,
 460 Market St.; contractor, G. Mur-
 mio, 804 Montgomery St.
 ALTER dwelling, \$100; 3328 23rd St.;
 owner, A. M. Lippl, 3328 23rd St.;
 contractor, G. T. Moore, 1458 Noe
 BULKHEAD, \$50; SW Geary & Boyce
 Sts.; owner, S. Shopro, Bay Clay
 Market.
 MOVE electric sign, \$95; 2477 Sacra-
 mento St.; owner, Jungle Inn, 2477
 Sacramento St.; contractor, Gold-
 en Gate Neon Sign Co., 355 8th.
 ALTER office building, \$25; Fourth
 and Market; owner, Pacific Co.,
 Premises; engineer, Ellison & Rus-
 sell, Pacific Bldg.

ALAMEDA COUNTY UNDER \$1000

SIGN, electric, \$400; 647 E-12th St.,
 Oakland; owner, C. W. Midgley;
 contractor, Getz Elec. Sign Co.,
 3140 E-10th St.
 SIGNS, marquee (3), \$500; 647 E-12th
 St., Oakland; owner, C. W. Midg-
 ley; contractor, Getz Elec. Sign
 Co., 3140 E-10th St.
 ALTERATIONS, \$90; 870 Peralta St.,
 Berkeley; owner, J. Haley, Prem.
 GARAGE, private, \$300; 2641 College
 Ave., Berkeley; owner, A. R.
 Waterbury, Berkeley; contractor,
 Leslie C. Daw, 449 Coventry Road,
 Berkeley.
 ALTERATIONS, \$125; 1031 Channing
 Way, Berkeley; owner, Paolo
 Martin; contractor, L. Tristia, 972
 63rd St., Oakland.
 ALTER front of store, \$500; 1342-44
 Park St., Alameda; owner, Jesse
 Delanoy, Premises; contractor, H.
 Pickrell, 332 Haight Ave., Ala.
 GARAGE, one-story, \$50; 2926 Minna
 Ave., Oakland; owner, J. T. Lar-
 son, 2926 Minna Ave.
 ALTERATIONS, \$70; 740 Broadway,
 Oakland; owner, Lloyd Ghigliere,
 741 Broadway.
 SIGN, electric, \$100; 2047 San Pablo
 Avenue, Oakland; owner, Pacific
 Greyhound Lines; contractor, Elec.
 Prod. Corp., 950 30th St., Oakland.
 SIGNS, two electric, \$300 each; 2372
 Telegraph Ave., Oakland; owner,
 Bee Gee Service Station; contrac-
 tor, Elec. Prod. Corp., 950 30th St.,
 Oakland.
 SIGN, electric, \$250; 5929 College Ave.
 Oakland; owner, Harold Knudsen;
 contractor, Elec. Prod. Corp., 950
 30th St., Oakland.
 ALTERATIONS, \$75; 1746 7th Street,
 Oakland; owner and contractor,
 Olive Hylton, 764 8th St., Oakland.
 CHIMNEY, patent, \$25; 2329 Humboldt
 Ave., Oakland; owner & contrac-
 tor, Mrs. E. Dempsey, 1042 Main
 St., Redwood City.
 SIGN, electric, \$160; 437 19th Street,
 Oakland; owner, Hygrade Wine &
 Liquor Co.; contractor, Imp. Elec.
 Sign Co., 2228 Myrtle St., Oakland.
 SIGN, electric, \$350; 3277 Lakeshore
 Ave., Oakland; owner, C. I. Ru-
 bino; contractor, Elec. Prod. Corp.,
 950 30th St., Oakland.
 SIGN, electric, \$200; 6355 College Ave.,
 Oakland; owner, Jos. Trichilo;
 contractor, Elec. Prod. Corp., 950
 30th St., Oakland.
 ALTERATIONS, \$145; 848 Euclid Ave.,
 Berkeley; owner, Foss, 848 Eu-
 clid, Berkeley; contractor, P. C.
 Clausen, 1173 Keeler Ave., Berke-
 ley.
 ALTERATIONS, \$100; 1282 Oxford,
 Berkeley; owner, N. Payne, 1282
 Oxford, Berkeley; contractor, W.
 T. Hirsch, 2311 Russell St., Ber-
 keley.
 ALTERATIONS, \$140; NE Emerson
 and Adeline Sts., Berkeley; owner,
 J. Niesen, 2135 Oregon; contractor,
 M. H. Wiseley, 2911 Adeline St.
 ALTERATIONS, \$75; 2275 Cedar St.,
 Berkeley; owner, Bellefuer, 2275
 Cedar St.; contractor, Larry Bur-
 ror, 642 14th St., Oakland.
 GARAGE, one-story, \$145; 5132 Coro-
 nado Ave., Oakland; owner, E. M.
 Hinch, 393 Bellevue Ave.
 CHIMNEY, patent, \$30; 56 Fairmount
 Ave., Oakland; owner, Rodrigues,
 Prem. contractor, Mauck Sheet
 Metal Works, 1417 66th Ave.
 ADDITION, \$200; 5401 Hillen Drive,
 Oakland; owner, W. E. Kammerer
 Premises.
 FIRE repairs, \$300; 2161 48th Ave.,
 Oakland; owner, C. Vinelli, 2161
 48th Ave.; contractor, C. Ganiats
 Co., 2092 42nd Ave.
 GARAGE, \$75; 3503 Hageman Ave.,
 Oakland; owner, Foster Olney,
 2719 Short St.

BUILDING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

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| 1.—Apartments | Offices |
| 2.—Bonds | 11.—Ice and Cold Storage Plants |
| 3.—Churches | 12.—Power Plants |
| 4.—Factories and Warehouses | 13.—Public Buildings, Fire Houses and Jails |
| 5.—Flats | 14.—Residences |
| 6.—Garages and Service Stations | 15.—Schools |
| 7.—Federal Buildings | 16.—Banks, Stores and |
| 8.—Club Buildings | 17.—Theatres |
| 9.—Hospitals | 18.—Wharves & Docks |
| 10.—Hotels | 19.—Misc. Const. |
| | 20.—Misc. Supplies & Materials |

1— APARTMENTS

Plans Completed.
APARTMENTS Cost, \$30,000
SAN FRANCISCO. SW Jefferson and Webster Streets.
 Three-story frame and stucco apartments.
 Owner—Ben Leibman, 1555 Francisco St., San Francisco.
 Architect—R. R. Irvine, 2048 Market St., San Francisco.

3— CHURCHES

LOS ANGELES, Cal.—Architects Marsh, Smith & Powell, 816 W. 5th St., are completing working plans and Charles Gardner, Citizen's National Bank Bldg., will be general contractor for an auditorium and two-story Sunday school addition to a church building at the corner of Fountain Ave. and Edgemont for the University Baptist Church; frame and stucco construction, tile roofing, oak floors, pine trim, gas-steam heating, etc. Cost \$18,000. Work will start within two weeks.

LOS ANGELES, Cal.—Frank Schoenrock, 9430 Santa Monica Blvd., Beverly Hills, was awarded the general contract for repairing earthquake damage to a church building at the corner of 47th and Main Sts., for the Roman Catholic Bishop of Los Angeles and San Diego; Rev. Monsignor Michael O'Gorman, pastor. The plans were prepared by Architects M. L. Barker and G. L. Ott, 346½ S. La Brea Ave. The work will consist of removing and rebuilding brick walls, reinforced concrete bond beams, painting and decorating, etc.

4— FACTORIES & WAREHOUSES

Contract Awarded.
ALTER DISTILLERY \$160,000
SEATTLE, Wash. Westlake Avenue near Highland Drive.
 Alterations and additions to distillery (add one story).
 Owner—Northwest Distilleries Corp.
 Architect—Carl Siebrand, 5016 21st Ave., N. E., Seattle.
 Contractor—Henrikson-Alstrom Construction Co., Textile Tower, Seattle.
Concrete—Crosby Lighterage.
Structural Steel—Northwest Steel Rolling Mills.
Lumber—Rockwood Lumber Co.
Plumbing and Heating—University Plumbing & Heating Co.

To Be Done By Day's Work.
ALTERATIONS Cost, \$3000

SAN FRANCISCO. No. 625 Second Street.
 Alterations to warehouse.
 Owner—G. W. Sarib, 625 Second St., San Francisco.
 Architect—Not Given.

PEARL HARBOR, T. H.—Young Engineering Corp., Honolulu, awarded a contract by the Bureau of Yards & Docks on December 6, at \$5700 for constructing magazines at the Naval Fleet Air Base, Pearl Harbor; Spec. 7084.

Sub-Contracts Awarded.
BREWERY Cost, \$750,000
SAN FRANCISCO. (Paul Tract) Bayshore Ave. and Third St.
 Group of buildings for brewery, steel and concrete construction.
 Owner—General Brewing Corp. (C. W. Ahrens, Director).
 Architect—Fred H. Meyer, 525 Market Street.

Engineer—C. H. Snyder, 251 Kearny Street.
 Contractor—Cahill Bros., 206 Sansome Street.

Brewing Machinery—Union Machine Co., 934 Brannan St.
Insulation—McCormick Supply Co., 461 Market St.

As previously reported, refrigeration machinery awarded to Cyclops Iron Works, 837 Folsom St.; well boring to A. Paulson, San Carlos; structural steel to Western Iron Works, 141 Beale St.; reinforcing steel to Soule Steel Co., 1750 Army St.; lumber to J. H. McCallum, 748 Bryant St.; steel tanks to Western Pipe & Steel Co., 444 Market St.

Air Filter Contract Awarded.
BREW HOUSE Cost, \$100,000
STOCKTON, San Joaquin Co., Calif
 626 N American Street.

Four- or five-story brick and steel brew house (40 feet square, 90 ft. in height).

Owner—Eldorado Brewing Co. (A. D. Rothenbush), 626 N American St., Stockton.

Designer—C. M. Fraenkel, industrial economist, 461 Market Street, San Francisco.

Air filter for cooling room awarded to Air and Water Conditioning Co., 538 Howard St., San Francisco. Brick contract will be awarded within one week. As previously reported, bucket elevator awarded to Western Machinery Co., 760 Folsom St., San Francisco; freight elevator to Otis Elevator Co., 1 Beach St., San Francisco; reinforcing steel to Smith Co., Sacramento; tile to Porcelain Tile Co., 66 12th St., San Francisco; electric to Drendell-Trumbull Elec. Mfg. Co., 260 Van Ness Ave. south, San Francisco; structural steel to Schrader Iron W'ks 1247 Harrison St., San Francisco.

Planned.
WINERY Cost, \$35,000
CALPELLA, Mendocino Co., Calif.
 Construct winery (million-gal. capacity).

Owner—Salvatore Fusco, Calpella.
 Architect—Not Given.

Keith C. Eversol, attorney, had charge of the transaction. Further details will be announced at a later date.

To Be Done By Day's Work.
REPAIRS Cost, \$4000
SAN FRANCISCO. No. 389 Eleventh Street.

Repair fire damage to warehouse roof.
 Owner—Jos. Lerer & Sons, Premises.
 Architect—Not Given.

COCO SOLO, Canal Zone—Until January 17, 11 A. M., bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., for hangar of structural steel framing supported by concrete footings on wood piles and having steel roof deck with built-up roofing, corrugated asbestos siding, steel and plaster partitions, and electrical work; air, sewage, drainage, water and track; and pavement, all at the Naval Fleet Air Base, Coco Solo, Canal Zone. Specification No. 7351. Plans and specifications available from above office upon deposit of \$10. Plans may also be obtained from Commandant Twelfth Naval District, 100 Harrison St., San Francisco, and from Commandant, Fifteenth Naval District, Balboa, Canal Zone.

VANCOUVER, Wash.—Construction will start shortly on a storage grain elevator for the Pacific Continental Grain Company (Henry W. Collins, President). Will have a capacity of 2,000,000 bushels and will cost approximately \$1,000,000.

Sub-Contracts Awarded.
SHOP Cost, \$11,000
SAN FRANCISCO. W Russ St. 100 S Howard St.

One-story and mezzanine floor Class C shop building.
 Owner—Amalgamated Laundries, 385 Eighth St., San Francisco.

Engineer—Ellison & Russell, Pacific Bldg., San Francisco.

Contractor—Barrett & Hilp, 918 Harrison St., San Francisco.

Plumbing—H. Bertram, 726 Bryant St.
Electric—Kuchel & Sievers Electric Works, Ltd., 468 5th St.

Lumber—Rolando Lumber Co., 301 Berry St.

Wood Roof Trusses—Summerbell Truss Co., 354 Hobart St., Oakland.

Planned.
CANNERY Cost, \$50,000
HALF MOON BAY, San Mateo Co.
 Construct vegetable cannery.

Owner—Group of Half Moon Bay Residents.

Architect—Not Given.

Following were appointed to investigate the matter:

Dante Dianda, Paul Nerli, Henry Danerl, John L. Benedetti, P. Para, John E. Francis, G. Angelini, Manuel Roche and Banker N. L. Rizzo.

A meeting will be held December 16.

LONG BEACH, Los Angeles Co., Cal.—E. D. Marr, 21 37th Place, Long Beach, has been granted a permit by the Los Angeles county supervisors to erect a large oil refinery at the northeast corner of 223rd St. and Avalon Blvd. Plant will cost approximately \$200,000.

MARCH FIELD, Riverside Co., Cal.—Myers Brothers and Harvey R. Field, 3407 San Fernando Road, Los Angeles, submitted low bid to Constructing Quartermaster, March Field, at \$23,807, for construction of ordnance warehouse at March Field. Recommendation was made that contract be awarded to low bidder. Will be a one-story structure, 123x68 feet in area, with concrete foundations, asbestos protected metal roofing or steel deck with built-up roofing, hollow tile walls, brick partitions, stucco exterior, steel roof trusses, reinforced concrete floor, steel sash, metal folding doors, metal ventilators, slate-work and gas-fired unit heating sys-

tem. Other bids were: C. D. Hudson, \$24,531; L. F. Dow, \$25,222; Cresmer Mfg. Co., \$26,352; Jones Bros., \$27,830; Beyer Corp., \$28,199.

5— FLATS

Plans Being Figured.
ALTERATIONS Cost, \$3000
SAN FRANCISCO. SW Thirtieth and Mission Streets.
 Alterations to frame flats.
 Owner—G. Surian and J. Valla, 3393 Mission St., San Francisco.
 Architect—G. A. Berger, 309 Valencia St., San Francisco.
 Bids are being taken from a selected list of contractors only.

Sub-Bids Wanted.
ALTERATIONS Cost, \$2982
SAN FRANCISCO. No. 1160 - 1162 Filbert Street.
 Alterations to two-story frame flats.
 Owner—Grace Goodyear, 2164 Hyde St., San Francisco.
 Architect—Henry H. Gutterson, 526 Pawell St., San Francisco.
 Contractor—Clinton Stephenson Construction Co., Ltd., 550 Montgomery St., San Francisco.
 Sub-bids are wanted on painting, plastering, glass, sheet metal and heating.

6—GARAGES & SERVICE STATIONS

Contract Awarded.
ALTER GARAGE Cost, \$6,000
OAKLAND, Alameda Co., Calif. NW 12th and Madison Streets.
 Alterations to garage.
 Owner—Bushell Estate.
 Architect—Not Given.
 Contractor—F. J. Wallace, 907 Washington St., Oakland.

7—FEDERAL BUILDING

TURLOCK, Stanislaus Co., Calif.—Thirteen bids were received by the postmaster at Turlock for a site for the proposed new post office building for Turlock. Prices ranged from \$2,500 to \$7,000.

PITTSBURG, Contra Costa Co., Cal.—Three bids were submitted to the postmaster at Pittsburg for a site for the proposed new post office building for Pittsburg. Prices ranged from \$10,000 to \$15,000.

WOODLAND, Yolo Co., Cal.—Eighteen bids were submitted to the postmaster of Woodland for a site for the proposed new Woodland post office. Prices ranged from \$3,000 to \$20,000.

GRAND CANYON, Arizona—Interior Department, Office of Parks, Buildings and Reservations, Washington, D. C., is preparing plans for a community building to be constructed in Grand Canyon National Park. Cost, \$10,000.

PHOENIX, Ariz.—Public Works Administration allotted \$40,000 for remodeling the Federal building at Phoenix.

DENVER, Colo.—Treasury Department officials have approved a recommendation for an expenditure of \$500,000 for enlargement of the United States Mint in Denver. The addition would provide additional space for the storage of bullion. The project must be approved by the Public Works Administration before the money can be allotted.

SAN YSIDRO, San Diego Co., Cal.—Chas. J. Dorfman, Los Angeles, at \$1,119 submitted low bid to Treasury Department, Washington, D. C., to construct custom and immigration

shelter for the U. S. Inspection Station at San Ysidro. Complete bids will be published shortly.

HAMILTON FIELD, Marin Co., Cal.—Meyer Constr. Co., 735 Portola Dr., San Francisco, awarded contract to Ariss Knapp Co., 961 41st St., Oakland, in connection with the one-story headquarters building at Hamilton Field.

KEYPORT, Wash.—Smith & Witt, Port Orchard, at \$33,850 awarded contract by Navy Department for the construction of three officers' quarters at the Keyport Naval Torpedo Station, Keyport, Wash. Following bids received:
 Smith & Witt.....\$33,850
 Hedeon Constr. Co..... 34,806
 Chas. H. Schaar..... 35,113
 West Coast Constr. Co..... 35,556
 American Builders 35,843
 Carl Johnson 36,276
 Butler Constr. Co..... 36,650
 William Wills 36,913
 Rainier Constr. Co..... 37,196
 Brady Constr. Co..... 37,400
 Gustafson & Olson..... 37,531
 Western Constr. Co..... 38,000
 Parekr & Olson 39,177
 Joseph Poucek 41,727
 Neil McDonald 42,327
 A. B. Stengl 43,087
 2905) 1st report Oct. 25; 3rd Nov.
 22, 1933. 7

Revised Plans Awaiting Approval.
POST OFFICE Cost, \$100,000
HAYWARD, Alameda Co., Cal. NE Watkins and C Streets.
 One-story and basement Class A concrete and brick Post Office.
 Owner—United States Government.
 Architect—Bliss & Fairweather, Balboa Bldg., San Francisco.
 Revised plans have been forwarded to Washington, D. C., for approval.

Bids Opened.
DRILL HALL Cost, \$—
FORT LEWIS, Washington.
 One - story steel and brick drill hall (204x102) steel roof trusses, brick walls, copper roof, clay floor, steel sash, plumbing, electric fixtures.
 Owner—United States Government.
 Plans by Constructing Quartermaster, Fort Lewis.
 Low Bidder—Howard S. Wright, 2210 Second Ave., Seattle.
 Following bids received:
 (1) deduct; (2) deduct; (3) deduct.
 Howard S. Wright, Seattle.....\$70,315
(1) 2,322
(2) 2,450
(3) 4,300
 Western Construction Co.....\$70,756
(1) 2,781
(2) 2,013
(3) 4,800
 A. F. Mowat\$71,371
(1) 2,320
(2) 2,200
(3) 4,800
 A. S. Hansen\$71,500
(1) 2,400
(2) 2,800
(3) 4,650
 J. W. Bailey Const. Co.....\$72,268
(1) 2,700
(2) 1,970
(3) 4,750
 Neil McDonald\$73,874
(1) 2,320
(2) 3,700
(3) 3,500
 Harry Boyer & Sons.....\$74,000
(1) 2,300
(2) 2,950
(3) 5,400
 Sheble Construction Co.....\$74,247
(1) 1,800
(2) 2,000
(3) 4,600
 A. D. Belanger\$74,989
(1) 1,980
(2) 3,400

.....(3) 5,400
West Coast Const. Co......\$75,480
(1) 2,500
(2) 3,000
(3) 6,500
L. H. Hoffman Company.....\$76,000
(1) 3,200
(2) 3,500
(3) 7,000
Peter Gjarde\$77,276
(1) 2,500
(2) 3,700
(3) 6,000
Warter & Snyder\$78,500
(1) 2,610
(2) 2,249
(3) 4,200
Hanson Construction Co......\$79,300
(1) 2,961
(2) 2,617
(3) 4,250
Eivind Anderson\$80,720
(1) 2,619
(2) 2,655
(3) 4,135
F. C. Erickson\$80,231
(1) 2,400
(2) 2,600
(3) 4,300
Dolph Jones\$81,480
(1) 2,700
(2) 2,500
(3) 4,000
A. W. Quist Co......\$85,900
(1) 2,500
(2) 2,800
(3) 500
Emil Pohl\$87,923
(1) 2,500
(2) 2,000
(3) 4,500
 Bids held under advisement.

SACRAMENTO, Cal.—Treasury Department will ask bids in about three weeks for decorative painting of the new Post Office lobby ceiling and federal courtroom. Starks & Flanders, American Bldg., Sacramento, Architects.

PUGET SOUND, Wash.—U. S. Coast Guard will request allocation of \$596,000 of PWA funds for coast guard projects in the Pacific Northwest. Included in the program are:
 Wharf and storehouse at Seattle, to cost \$140,000.
 Base building and wharf at Fort Townsend, to cost \$330,000.
 Boat house and dock at Westport, to cost \$20,000.
 Station building and boat house at Winchester Bay, Ore., to cost \$50,000.

Additional Sub-Contracts Awarded
HAMILTON FIELD, Marin Co., Cal.—K. E. Parker Co., 135 South Park, San Francisco, awarded the following additional sub-contracts in connection with the construction of the three, 200-men barracks at Hamilton Field. Cost, \$452,900.
Terra Cotta—N. Clark & Son, 116 Natoma St., San Francisco.
Tiling—Mangrum Holbrook Co., 1235 Mission St., San Francisco.
Kitchen Equipment—Mangrum Holbrook Co., 1235 Mission St., S. F.
Painting—W. J. Thompson, 336 Church St., San Francisco.
Miscellaneous Iron—Anchor Post Fence Co., 460 Fifth St., S. F.
 Other awards reported November 9.

PEARL HARBOR, T. H.—Bids are being received by Bureau of Yards and Docks, Navy Department, Washington, D. C., for quarters at the Naval Submarine Base, Pearl Harbor, T. H. Specification No. 7526. Work includes concrete piles and frame work; glazed vitrified tile; steel windows, hollow metal and metal covered work; built-up roofing and sheet metal work; marble, tile and terrazzo work lathing and plastering; wood doors; frame and finish; plumbing, refrigerating and electrical systems. Plans and specifications available from

above office and from Commandant, Fourteenth Naval District, Navy Yard, Pearl Harbor, T. H., and from Commandant, Twelfth Naval District, 100 Harrison St., San Francisco, upon deposit of \$50.

HAMILTON FIELD, Marin Co., Cal.—Until December 21, 11 A. M., bids will be received by Constructing Quartermaster, Hamilton Field, for the construction of five double sets of non-commissioned officers' quarters at Hamilton Field. Plans and specifications available from above office upon deposit of \$5. Copies of plans and specifications may be seen at the Builders' Exchange, 666 Mission St., San Francisco, or at the office of the Constructing Quartermaster, Port Mason, San Francisco.

PEARL HARBOR, T. H.—May M. Moody, Los Angeles, at \$32,850 (item 1) and \$36,550 (item 2) submitted late low bid to Bureau of Yards and Docks Navy Department, Washington, D. C., for landscaping at the Ammunition Depot, Pearl Harbor; Spec. No. 7334.

FORT STANTON, N. M.—As previously reported, Kimball Bros. Co., Council Bluffs, Iowa, submitted low bid to Treasury Department at \$5,300 for elevators to be installed in the U. S. Marine Hospital, Fort Stanton. The following bids were received:
Kimball Bros., Council Bluffs.....\$5,300
Otis Elevator Co., Washington..... 5,900
Bids held under advisement.

SAN YSIDRO, San Diego Co., Calif.—As previously reported, Charles J. Dorfman, Los Angeles, at \$1,119 submitted low bid to Treasury Department, for the construction of customs and immigration shelter for the U. S. Inspection Station at San Ysidro. Following bids received:
C. J. Dorfman, Los Angeles.....\$1,119
J. A. Hunt, San Diego..... 1,234
Alexander Schreiber, San Diego..... 1,248
W. Pearce, New York City..... 1,456
E. M. Bryans, San Diego..... 1,520
Bids held under advisement.

SALT LAKE CITY, Utah.—Until December 28, 2 P. M., bids will be received by Treasury Department, Procurement Division, Public Works Branch, Washington, D. C., for painting plaster, etc., in the U. S. Post Office and Courthouse at Salt Lake City, Utah. Specifications may be obtained from above office.

SAN PEDRO, Los Angeles Co., Cal.—Willard Lutz, 1630 Lyman Place, Los Angeles, at \$18,900 will be awarded contract by Lighthouse Department, to construct one-story combination warehouse and shop building, 62x102 feet with reinforced concrete exterior walls, hollow tile partitions, structural steel roof trusses. It is to be erected on the west or channel side of the U. S. Lighthouse Reservation, Los Angeles Harbor, San Pedro.

SAN DIEGO, Cal.—Consolidated Aircraft Corp.; Maj. Reuben Fleet, president; Mr. Lee, purchasing agent, 2050 Elmwood Ave., Buffalo, N. Y., has completed plans for a manufacturing plant to be erected on a Twenty-acre site at Lindbergh Field, San Diego. Pending receipt of orders from the United States Navy, it is undecided when the owner will proceed with construction work. The proposed plant will consist of a one-story factory building, 300x500 feet; a two-story office building, 40x300 feet; one-story hangar, 100x120 feet; and a one-story warehouse, 100x100 feet. They will be steel frame structures with brick and Transite walls and Transite roofs. The San Diego harbor department will install sewer and water

main to the site and build spur tracks. It is the corporation's intention to transfer its entire operations from Buffalo to San Diego.

HAMILTON FIELD, Marin Co., Cal.—Fred J. Early Jr., 369 Pine St., San Francisco, awarded following sub-contracts for the construction of (1) black powder magazine; (1) demolition bombs magazine; (1) loading building magazine; (1) primers and detonators magazine; (1) pyrotechnics magazine; (1) chemical storage magazine.

Excavation—Ariss Knapp Co., 961 41st St., Oakland.

Concrete—Basalt Rock Co., Napa.

Reinforcing Steel—Gunn Carle & Co., 20 Potrero Ave., San Francisco.

Masonry—J. N. J. Firebrick Constr. Co., 475 Stevenson St., San Francisco.

Sheet Metal—Edgar W. Anderson, 3103 San Pablo Ave., Oakland.

Electric—American Electric Co., 465 Howard St., San Francisco.

WEISER, Idaho—Treasury Department approved awards made by Walter G. Warren & Co. for lighting fixtures in the Post office building at Weiser, Idaho, as follows:

Glassware to Inland Glass Works and pendant cwitch, Pass & Seymour.

ALCATRAZ, Cal.—Bureau of Prisons of the Department of Justice has been authorized to expend \$263,500 for repairs and alterations to the prison at Alcatraz Island.

FORT STANTON, New Mexico—Kimball Bros Co., Council Bluffs, Iowa, submitted low bid to Treasury Department, Washington, D. C., at \$5300 for elevators to be installed in the U. S. Marine Hospital, Fort Stanton, New Mexico. Following bids received:

Kimball Bros., Council Bluffs
Iowa\$5300
Otis Elevator Co..... 5911
Montgomery Elevator Co., Moline 5977
Haughton Elevator & Machine
Co., Washington 6485
Atlantic Elevator Co., Phila..... 7200
Westinghouse Elec. Elev. Co.,
Chicago 7431
Warner Elev. Mfg. Co., Cinn..... 7715
Bids held under advisement.

PEARL HARBOR, T. H.—Following are additional contractors and others who have procured plans for the purpose of submitting bids to the Bureau of Yards and Docks, Navy Department, Washington, D. C., on January 3 for two electric freight elevators and hoistway doors at the Naval Fleet Air Base, Pearl Harbor, T. H. Spec. No. 7557.

Pacific Coast Elevator Co., Schnec-tady, New York.

Haughton Elevator & Machinery Co., 1103 Vermont Ave., Washington, D. C.

SAN FRANCISCO.—Public Works Administration allotted \$780,000 for reconstruction or remodeling of the Mint and Assay Office, located at Fifth and Mission Streets. What improvements will be made is not determined at this time.

December 14, 1933

SACRAMENTO, Cal.—Until 2 P. M., January 8, bids will be received by the Treasury Department, Office of the Supervising Architect, Washington, D. C., for interior lighting fixtures to be installed in the United States Post Office and Court House at Sacramento.

HAMILTON FIELD, Marin Co., Cal.—Azevedo & Sarmento, 920 O Street, Sacramento, at \$38,900 awarded contract by War Department to con-

struct photographic laboratory at Hamilton Field. Complete bids published December 6.

SAN DIEGO, Cal.—L. F. Dow Co., 1243 25th St., Santa Monica, submitted low bid to 11th Naval District, San Diego, at \$27,000, for constructing barracks at Naval Operating Base (Fuel Depot), San Diego; Spec. No. 7534. Harry Muns, 841 Bank of America Bldg., San Diego, was second low bidder at \$30,320. Will be one-story, 72x 115 ft., with concrete foundations, concrete floors and timber frame super-structure. The work includes plain and reinforced concrete; carpentry and joinery; mill work; plaster; stucco; shingle roofing; terrazzo floor and base hardware; glazing; painting; plumbing; heating and electrical work. Other bids were: G. F. Campbell Building Co., \$30,722; Chas. J. Dorfmann, \$30,790; J. A. Hunt, \$30,867; R. E. Campbell, \$31,082; M. H. Golden, \$31,296; Walter Trepte, \$31,950; W. E. Kier Const. Co., \$32,099; Olmstead Building Co., \$33,500; Jerome K. Poolan, \$33,875; Gunnar Johnson, \$34,267; Pacific System Homes, \$36,277.

8— CLUB BUILDINGS

Contract Awarded.

LODGE BLDG. Cost, \$7000

HOLLISTER, San Benito Co., Cal.
Sixth and Sally Streets.

One-story wood frame lodge building (paper roof, maple and pine floors, etc.) lodge room, 40x70 feet; kitchen, banquet rooms, retiring rooms, stage.

Owner—The Union Benefica de Hollister.

Plans by E. C. Griffin, % Owner.

Contractor—Frank Sparling, South & East Sts., Hollister.

SAN GABRIEL, Los Angeles Co., Cal.—E. T. Olson, president of the San Gabriel Country Club, announced that a new club building will be built on the site of the old structure, which was destroyed by fire recently. R. Wescott will be in charge of tentative plans. Cost, \$40,000.

9— HOSPITALS

STOCKTON, San Joaquin Co., Cal.—Michel & Pfeffer Iron Works, Harrison and Tenth Sts., San Francisco, submitted only bid at \$493, 1%...10 days to Purchasing Agent, Sacramento, for miscellaneous iron, etc., for cottage "A" at the Stockton State Hospital.

MARCH FIELD, Riverside Co., Cal. Myers Brothers, 3407 San Fernando Road, Los Angeles, submitted low bid to Constructing Quartermaster, at \$32,884, for interior alterations to contagious ward and the construction of one medical detachment barracks at March Field. Recommendation was made that the contract be awarded to the low bidder. The barracks building will be a two-story structure, 75x 33 feet in area, with hollow concrete walls, tile roof, concrete floors with tile and linoleum finish, terrazzo base, wrought iron railing, steel sash, steel lockers, waterproofing materials, metal lath, steel door frames, kalamain doors, copper screens, shades, electric water cooler, low pressure, oil-fired steam heating system. Other bids were: C. Haverlandt, \$34,895; Cresmer Mfg. Co., \$36,777; Beyer Corp., \$37,505.

HAMILTON FIELD, Marin Co., Cal.—Leo Epp, 4745 Geary St., San Francisco, at \$109,377 awarded contract by War Department, for the construction of a hospital and detachment barracks building at Hamilton Field. Complete bids published Nov. 29.

Plans Completed.

HOSPITAL Cost, \$90,000
REDDING, Shasta Co., Cal.

Two-story reinforced concrete hospital (24x36; 50 beds, 3 operating rooms) tile & composition roof, tile floors, linoleum, steam heating system, cooling system, etc.

Owner—County of Shasta.

Architect—Otto Deichmann, 110 Sutter St., San Francisco.

Application has been filed with the Public Works Administration for a loan of \$30,000.

Planned.

ADDITION Cost, \$50,000
AUBERRY, Fresno Co., Cal. Wish-I-Ah Sanatorium.

Construct addition to tuberculosis sanatorium (50 beds), new equipment etc.

Owner—United States Government.

Architect—Not Given.

New addition will be used to care for Indian wards of the Federal Government.

WASHINGTON, D. C.—The Public Works Administration has allotted funds for the construction of hospital facilities on the following Indian-reservations: Fort Yuma, Ariz., \$75,000; Eastern Navajo, N. M., \$180,000; Zuni, N. M., \$125,000; Blackfeet Mont., \$172,500; Warm Springs, Oregon, \$85,000; Western Shoshone, Nev., \$75,000; Colville, Wash., \$180,000, and Crow, Montana, \$160,000. Funds were also provided for alterations to hospital at Jicarillo N. M., to cost \$5000 and alterations to hospital at Santa Fe, N. M., to cost \$10,000.

Preparing Working Drawings.

HOSPITAL Cost, \$75,000

GRASS VALLEY, Nevada Co., Cal. Two-story and basement brick and steel Class C hospital (52 beds) 42x212 ft.) composition roof, metal lath partitions, tile floors, steam heating plant, X-Ray equipment, etc.

Owner—Legion Memorial Hospital.

Architect—Jens C. Petersen, 326 26th St., Sacramento.

Equipment will cost approximately \$12,000. Bids will be asked about February 15.

13— PUBLIC BUILDINGS FIRE HOUSES & JAILS

Bids Opened.

MEMORIAL Cost, \$—

WATSONVILLE, Santa Cruz Co., Cal. Two-story reinforced concrete and structural steel Veterans' Memorial (90x170 ft.) will contain auditorium to seat 1500; club rooms, etc.; tile and composition roofing, hot air heating system, hardwood and tile floors, public address system, stage, etc.

Owner—County of Santa Cruz.

Architect—A. W. Story, Pajaro Valley Bank Bldg., Watsonville.

Low Bidder—H. H. Larsen, 64 South Park St., San Francisco.

Following bids received:

H. H. Larsen, San Francisco.....	\$52,432
Wm. Splvock, San Francisco.....	53,330
A. L. Short, Watsonville.....	53,379
P. T. Wallstrum, Watsonville.....	54,730
E. T. Leiter & Son, Oakland.....	55,937
Friend & Raisch, Watsonville.....	56,016
N. H. Sjoberg, San Francisco.....	56,906
M. J. Murphy, Inc., Carmel.....	58,391

Bids held under advisement for two weeks.

ELSINORE, Riverside Co., Calif.—Public Works Administration approved the application of the City of Elsinore for a loan and grant totaling \$14,000 for financing the construction of a new city hall in Elsinore. Orville Clark, 369 N Ridgewood Pace, Los Angeles, architect. Building will be one-

story and part two-story, fireproof, 88x50 ft. in area, and will house the fire and police departments, administrative offices and city hall. Reinforced concrete and brick construction, face brick exterior, clay tile and composition roofing, steel and wood sash, wood folding doors, gas-steam radiators, metal toilet partitions, etc.

LOS ANGELES, Cal.—Public Works Administration has approved the application of Los Angeles County for a loan and grant amounting to \$2,115,200 for financing construction of a county office building at Sunset Blvd. and N Spring St. Will be an 11-story, Class A structure, and will house all the branches of the county government now in rented quarters. An architect has not yet been retained to design the building.

SAN LUIS OBISPO, Cal.—San Luis Obispo County Supervisors have approved preliminary plans prepared by Architects A. R. Walker and P. A. Eisen, 708 Pacific Commerce Bldg., Los Angeles, for a proposed new county courthouse, a hospital building and a Veterans' Memorial building to be erected in San Luis Obispo. Courthouse and hospital would be reinforced concrete structures, costing \$400,000 and \$21,000 respectively, and the memorial building a frame and stucco structure, costing \$25,000. The county will vote at special State election on December 19, on proposal to issue bonds to finance projects.

Planned.

LIBRARY Cost, \$40,000

BERKELEY, Alameda Co., Cal. Monterey and Marin Aves.

Branch library.

Owner—City of Berkeley (Hollis R. Thompson, City Manager).

Architect—To Be Selected.

\$28,000 is available and approximately \$10,000 will be asked for the Government.

Planned.

ANNEX Cost, \$—

BERKELEY, Alameda Co., Cal. Allston and Grove Sts.

Two-story Class C annex to city hall.

Owner—City of Berkeley.

Architect—Not Given.

Preliminary sketches have been prepared by James Plachek, architect, Mercantile Bank Bldg., Berkeley. Federal aid will be asked.

COMPTON, Los Angeles Co., Cal.—Architects Marsh, Smith & Powell, 816 W 5th St., Los Angeles, are revising plans for a one-story city hall to be built in Compton. It will cover an area of 7500 square feet of frame construction; composition roofing, steel sash, linoleum covered floors, skylights, gas-steam radiators, toilets, etc. Work will be done by city unemployment relief forces under a grant of \$41,407.21 by Civil Works Administration.

MONTEREY, Cal.—City of Monterey will make application for a grant of \$25,000 of federal funds under the Public Works Administration, to help finance the construction of a new City Hall, jail, restoration of Colton Hall, etc., in Monterey. Approximately \$60,000 is available for the construction under the will of the late Mrs. Agatha Few. W. O. Raiguel, Del Monte Hotel, Del Monte, and C. J. Ryland, Monterey, architects.

To Ask Bids Shortly.

ADDITION Cost, \$450,000

SEATTLE, Washington.

Wing addition to library (concrete and brick construction).

Owner—University of Washington.

Architect—Bebb & Gould, Hoge Bldg., Seattle.

Sketches Prepared.

AUDITORIUM Cost, \$400,000

FRESNO, Fresno Co., Cal. Fresno Street.

Two-story concrete municipal auditorium (to seat 200) stage, dressing rooms, etc.

Owner—City of Fresno.

Architects—W. D. Coates, C. H. Franklin, H. Rafael Lake, E. J. Kump, Fred Swartz and E. W. Peterson, Fresno.

An election is being held on December 19 to vote bonds to finance construction.

Sketches Prepared.

CITY HALL Cost, \$50,000

CARMEL, Monterey Co., Cal.

Construct new City Hall.

Owner—City of Carmel.

Architect—Not Selected.

Sketches were submitted by C. J. Ryland, 373 Main St., Salinas, but no architect has been definitely selected.

Application has been filed with the Public Works Administration for funds to finance construction.

Plans Being Figured—Bids Close Dec. 28.

ADDITION Cost, \$15,000

WATSONVILLE, Santa Cruz Co., Cal.

Reinforced concrete and structural steel addition to public library, (40 by 60 ft.) composition and shingle roofing and remodel present bldg.

Owner—City of Watsonville.

Architect—A. W. Story, Pajaro Valley Bank Bldg., Watsonville.

Plans available from architect upon deposit of \$25.

LOS ANGELES, Cal.—Los Angeles library commission has filed a report with the city council urging submission of an application for \$1,000,000 in Federal funds to be used for library construction in Los Angeles. The board's program includes \$200,000 for the enlargement of fifteen branch libraries; \$125,000 to replace three old buildings; \$375,000 to construct city-owned buildings to take the place of eight branches in rented quarters; \$250,000 for new branch buildings in seven unserved sections of the city, and \$50,000 for improvements at the Central Public Library.

LOS ANGELES, Cal.—Los Angeles County Supervisors have applied to the Civil Works Administration for a grant of approximately \$700,000 for financing improvements at Rancho Los Amigos. A similar application, filed with the Public Works Administration in November, has been withdrawn.

14— RESIDENCES

Contract Awarded.

RESIDENCE Cost, \$—

OAKLAND, Alameda Co., Calif. 2000 106th Avenue.

One-story and basement frame and stucco residence (6 rooms).

Owner—Sidney Pepperell.

Architect—Not Given.

Contractor—J. C. Rodger, 2257 106th Ave., Oakland.

To Be Done By Day's Work.

RESIDENCE Cost, \$6000

OAKLAND, Alameda Co., Cal. No. 4000 Oakmore Road.

One-story and basement frame and stucco residence (6 rooms).

Owner and Builder—O. W. Johnson, 4237 Atlas Ave., Oakland.

Architect—Not Given.

Plans Being Completed.

RESIDENCE Cost, \$—

SANTA CRUZ, Santa Cruz Co., Cal.

Two-story and basement frame, brick veneer, stucco residence (8 rooms)

and 3 baths) split shake roof, gas hot air heating system, steel sash, hardwood floors, etc.
 Owner—Dr. and Mrs. S. B. Randall, % Architect.
 Architect—W. W. Wurster, 260 California St., San Francisco.
 Bids will be asked about December 20.

December 9, 1933

Preparing Working Drawings.
 RESIDENCE Cost, \$12,500
 WALNUT CREEK, Contra Costa Co.
 Two-story steel and brick residence (7 rooms and 2 baths), steel joists and rafters, exterior and interior brick walls, cement mortar, etc.
 Owner—Earl Barnett.
 Architect—E. L. Snyder, 2101 Addison St., Berkeley.

Plans Completed.
 RESIDENCE Cost, \$10,000
 BERKELEY, Alameda County, Calif. Stonewall Road.
 Two-story and basement frame and stucco residence (9 rooms and 3 baths) shake roof, oil heating system, hardwood floors and trim, electric refrigeration.
 Owner—Withheld.
 Architect—E. L. Snyder, 2101 Addison St., Berkeley.
 Bids will be asked shortly.

Contract Awarded.
 ALTERATIONS Cost, \$6000
 SAN FRANCISCO.
 Alterations and additions to frame residence.
 Owner—Dr. E. Wolff, 450 Sutter St.
 Architect—Wm. I. Garren, 233 Post St.
 Contractor—Moore and Roberts, 693 Mission Street.
 Plumbing bids are now being taken.

Flooring Contract Awarded.
 RESIDENCE Cost, \$8000
 OAKLAND, Alameda Co., Calif. 878 Longridge Road.
 Two-story and basement frame and stucco residence (8 rooms).
 Owner—C. E. Bardwell, Jr., 4217 Bal-four Ave., Oakland.
 Architect—Not Given.
 Flooring—Carlstrom Bros., 2467 Maxwell Ave., Oakland.

Sub-Contracts Awarded.
 RESIDENCE Cost, \$4000
 OAKLAND, Alameda Co., Cal. No. 6007 Monadnock Way.
 One-story frame and stucco residence (5 rooms).
 Owner and Builder—O. L. Moen, 4201 E-16th St., Oakland.
 Plans by Owner.
 Plumbing—K. C. Nelson, 2534 14th Ave., Oakland.
 Lumber—Sunset Lumber Co., 400 High St., Oakland.
 Concrete—Thos. A. Ryan, 5215 Fleming Ave., Oakland.
 Flooring—Ambrose Bros., Oakland.
 Plastering—Pryor & Walsh, Oakland.

December 13, 1933

Plans Being Completed.
 REMODEL RESIDENCE Cost, \$3000
 SAN FRANCISCO, Sixteenth Avenue and Lake Street.
 Remodel residence (two-story frame and stucco structure) work involves: new entrance, brick steps, wrought iron railing, new kitchen equipment, new plumbing fixtures, add one new bath room, linoleum and canvas in baths, complete painting and decorating, warm air gas heating system, living room to be done in pine.
 Owner—Sheldon Potter.
 Architect—Mario Corbett, 683 Sutter Street.
 Segregated bids will be taken in ten days.

Preparing Sketches.
 RESIDENCE Cost, \$5500
 PIEDMONT, Alameda Co., Cal. Piedmont Pines.
 One-story and basement frame and stucco residence (5 rooms); tile roof, gas heating system, tiled bath, hardwood floors and trim, etc.
 Owner—Withheld.
 Architect—Fred Confer, 2812 Russell St., Berkeley.

Preparing Sketches.
 RESIDENCE Cost, \$5800
 BERKELEY, Alameda Co., Cal. Shasta Road.
 Two-story frame and stucco residence (5 rooms) shingle roof, gas heating system, tiled bath, hardwood floors and trim, etc.
 Owner—Withheld.
 Architect—Fred Confer, 2812 Russell St., Berkeley.

Preparing Sketches.
 RESIDENCE Cost, \$8800
 VALLEJO, Solano Co., Cal.
 Two-story and basement frame and stucco residence (7 rooms and 2 baths); shake roof, gas heating system, hardwood floors and trim, tile work, tiled baths, wainscot, etc.
 Owner—Withheld.
 Architect—Fred Confer, 2812 Russell St., Berkeley.

Preparing Working Drawings.
 REMODEL RESIDENCE \$2500
 LAFAYETTE, Contra Costa Co., Cal.
 Remodel frame farm house (add two rooms and balcony, new shake roof, hardwood floors, add one tile bath).
 Owner—Withheld.
 Architect—Fred Confer, 2812 Russell St., Berkeley.
 Bids will be asked in about ten days

Contract Awarded.
 RESIDENCE Cost, \$20,000
 SAN FRANCISCO, Divisadero Street near Pacific Avenue.
 Two-story and basement frame and stucco residence.
 Owner—Stanley Sinton, 133 Montgomery St., San Francisco.
 Architect—Willis Polk Co. (Angus McSweeney, architect), 277 Pine St., San Francisco.
 Contractor—G. P. W. Jensen, 320 Market St., San Francisco.

Plans Completed.
 RESIDENCE Cost, \$10,000
 OAKLAND, Alameda Co., Cal. St. James Wood.
 Two-story and basement frame and stucco and brick residence (nine rooms and 2 baths); shake roof, gas heating system, hardwood floors and trim, etc.
 Owner—Withheld.
 Architect—E. L. Snyder, 2101 Addison St., Berkeley.

To Ask Bids In One Week.
 RESIDENCE Cost, \$10,000
 BEARKELEY, Alameda County, Calif. Stonewall Road.
 Two-story and basement frame and stucco residence (9 rooms and 3 baths) shake roof, oil heating system, hardwood floors and trim, electric refrigeration.
 Owner—Withheld.
 Architect—E. L. Snyder, 2101 Addison St., Berkeley.

Preparing Sketches.
 RESIDENCE Cost, \$10,000
 SOUTHERN CALIFORNIA.
 Two-story and basement frame and stucco residence (8 rooms and 2 baths); tile roof, gas heating system, hardwood floors and trim, etc.
 Owner—Withheld.
 Architect—Farr & Ward, 68 Post St., San Francisco.

Completing Plans.
 ALTER RESIDENCE Cost, \$3000
 PALO ALTO, Santa Clara Co., Cal.
 Alterations to two-story frame and stucco residence (general interior and exterior work).
 Owner—Withheld.
 Architect—Farr & Ward, 68 Post St., San Francisco.
 Bids will be asked within one week.

15—SCHOOLS

December 14, 1933

To Ask Steel Bids About Dec. 18.
 SCHOOL Cost, \$25,000
 RICHMOND, Contra Costa Co., Cal.
 Rebuilding & reinforcement of Roosevelt Junior High School (work involves steel girders, new entrances concrete stairways, etc.)
 Owner—Richmond Union High School District.
 Architect—Louis Stone, 98 Ramona St. Piedmont and 354 Hobart St., Oakland.
 Inspector — Elmer J. Freethy, 1301 Roosevelt Ave., Richmond.

Plans Prepared.
 ADDITION Cost, \$50,000
 HEALDSBURG, Sonoma Co., Cal.
 One and two-story wing addition to High School (gymnasium, music department and three classrooms) and alterations to present structure.
 Owner—Healdsburg High School Dist.
 Architect—John I. Easterly, 302 Grant St., Healdsburg.
 Application for a loan to finance construction has been filed with the Public Works Administration.

Bids Wanted—To Close Dec. 20, 7 P. M.
 SCHOOL BLDG. Est. Cost, \$3000
 COALINGA, Fresno Co., Cal. Sunset School Site.
 One-story frame and stucco kindergarten with patent shingle roof.
 Owner—Board of Trustees, Coalinga Grammar School District.
 Architect — W. D. Coates Jr., 626 Rowell Bldg., Fresno.

Plans and specifications available from Clerk of the Board and from the architect.
 On previous bid opening lowest bid was submitted by L. Ubels, Ripon, at \$4620.

Planned.
 HIGH SCHOOL Cost, \$—
 BERKELEY, Alameda Co., Cal. Grove Street.
 Construct new high school (involving new academic building, \$294,182; home economics unit, \$427,821; auditorium, \$415,687; shops, \$117,106; reconstruct gym., \$103,749).
 Owner—City of Berkeley School Dist.
 Architect—Not Selected.

Planned.
 SCHOOL IMPROVE. Cost, \$33,819
 BERKELEY, Alameda Co., Cal. Addison and Curtis Streets.
 Improve Burbank Junior High School gymnasium (replace hollow tile walls with concrete or reinforced brick, structural frame, etc.)
 Owner—City of Berkeley School Dist.
 Architect—Not Selected.

Planned.
 GYMNASIUM Cost, \$58,604
 BERKELEY, Alameda Co., Cal. Telegraph and Ward St.
 One-story steel frame and reinforced concrete gymnasium for Willard Junior High School.
 Owner—City of Berkeley School Dist.
 Architect—Not Selected.

SAN FRANCISCO—San Francisco Board of Education appointed Earl Cope, H. J. Brunner, L. H. Nishkian and W. L. Huber to survey the fol-

lowing schools for earthquake weakness:

Adams, Excelsior, Hancock, Spring Valley and Washington Grammar.

Plans Completed.

GYMNASIUM Cost, \$15,000
WEAVERVILLE, Trinity Co., Cal.
One-story frame gymnasium (52x112 ft.); steel trusses, composition roof, maple floors, stage, showers, etc.

Owner—Trinity Union High School District.

Architect—Jens C. Petersen, 826 26th St., Sacramento.

Bids will be asked in about ten days.

BURBANK, Los Angeles Co., Cal.—Business department of the Burbank board of education is consulting with architects and engineers preparatory to submitting a proposed school repair program to the board. Recommendation was made by state engineers that the Burbank schools be strengthened.

SAN DIEGO, Cal.—San Diego board of education has filed a request with the San Diego county board of the CWA for \$1,000,000 with which to rebuild city schools.

15

COLTON, San Bernardino Co., Cal.—San Bernardino county board of the CWA has approved plans for the proposed high school gymnasium to be built in Colton. The project is now before the state board for final approval. Estimated cost of the structure is \$50,000. Edward Chas. Parker, Fuller Bldg., San Bernardino, architect.

BUTTONWILLOW, Kern Co., Cal.—Public Works Administration approved the application of the Buttonwillow Union School District for a loan and grant totaling \$11,500 for financing the construction of an addition to the Buttonwillow School. Edwin J. Symmes, Haberfeld Bldg., Bakersfield, architect.

TEHACHAPI, Kern Co., Cal.—Public Works Administration approved the application of the Tehachapi Elementary School District for a loan and grant totaling \$40,000 for financing the construction of a new concrete unit at the Tehachapi School. Edwin J. Symmes, Haberfeld Bldg., Bakersfield, architect.

SAN FRANCISCO—American Building Maintenance Company, 467 O'Farrell St., at \$990 awarded contract by Department of Public Works for exterior painting of the Sarah B. Cooper School, located on the southwest corner of Lombard and Jones Sts.

TOPPENISH, Wash. — Toppenish School District, rejected all bids for the construction of improvements to school building at Toppenish. An error in the application for the federal loan for the work necessitates a new application. Money had been allotted when error was discovered. On bid opening lowest bid was submitted by Edward Ekrem, Seattle, at \$44,650 for general work and Labberton Electric Co., Yakima at \$4104 submitted low bid on plumbing. New bids will be asked at a later date.

BERKELEY, Alameda Co., Calif.—Berkeley Board of Education will seek a Federal grant and loan of \$4,361,287 to finance construction of new schools and improvements to present structures. If the government approves the request for funds a bond election in the amount of \$3,305,760 will be held, a tentative date being set for January 30, 1934.

For elementary schools, the board will ask a grant of \$674,799 and a loan of \$1,930,772, while for high school purposes a grant of \$380,728 is asked as well as a loan of \$1,374,987.

Preparing Sketches.

REPAIR SCHOOL Cost, \$11,650
SAN FRANCISCO, Twentieth and Mission Streets.

Repairs and strengthening of Daniel Webster School auditorium.

Owner—City and County of San Francisco.

Engineer—C. H. Snyder, 251 Kearny St., San Francisco.

PASADENA, Los Angeles Co., Cal.—Pasadena board of education applied to the Public Works Administration for loans and grants for strengthening the following schools in Pasadena: John Muir high school, \$84,000; Bennett & Haskell, architects.

Longfellow elementary school, \$110,000; Marston & Maybury, architects.

Webster elementary school, \$12,500; John C. Austin, architect.

Jackson elementary school, \$115,000; Marston & Maybury, architects.

McKinley elementary school, \$21,000; John C. Austin, architect.

San Rafael elementary school, \$13,500; Marston & Maybury, architects.

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LONG BEACH, Cal.—Long Beach board of education applied to the Public Works Administration for a loan of \$348,000 and a grant of \$116,383 for reconstructing the Hamilton Junior High School in Long Beach. Schilling & Schilling, architects, 151 Linden Ave., Long Beach.

SAN FRANCISCO—Until Dec. 20, 2:30 P. M., bids will be received by W. H. Worden, Director, Board of Public Works, for composition roofing of the west wing of the Mission High School, 18th and Church Streets. Metal flashing on roof will be removed and replaced by others. All slump boxes will be repaired or replaced; remove present composition roofing and replace with asphalt "Floatine" or equal.

SAN FRANCISCO—American Building Maintenance Co., 467 O'Farrell St., at \$275 awarded contract by Department of Public Works to steam clean portion of the Emerson School, located on California St. between Scott and Divisadero.

LODI, San Joaquin Co., Cal.—The Lodi Union High School and Elementary School Districts have surveyed school building in Lodi and recommendations were made to construct a new building to replace the Salem School and enlarge all structures. Charles W. Bursch, Assistant Chief of the division of schoolhouse planning, Lodi, Further details will be announced shortly.

PALO ALTO, Santa Clara Co., Cal.—Palo Alto Board of Education may ask federal aid to help finance the construction of a new school building in Palo Alto. If a loan is secured it will be necessary to vote bonds also. Avery J. Howe, President of the Palo Alto Board of Education.

FILLMORE, Ventura Co., Cal.—Fillmore Union Grammar School District will hold an election on January 5 at which time it is proposed to vote bonds in the sum of \$7500, the proceeds to be used with funds on hand for the erection of a five-classroom addition to the Sespe Avenue School in Fillmore. The proposed addition will be a reinforced concrete structure with stucco exterior, clay tile roof and gas-steam radiators. Total

estimated cost \$25,000. Frank R. Schaefer, 1117 Kerckhoff Bldg., Los Angeles, architect for the project, has completed the plans and specifications.

LONG BEACH, Los Angeles Co., Cal.—Architect Kenneth S. Wing, 501 Termino Ave., Long Beach, has completed preliminary plans for rebuilding the Burbank elementary school and Architect Roger K. Nissen, 501 Termino Ave., Long Beach, has completed preliminary plans for rebuilding the Seaside elementary school. Plans will be presented to the Long Beach Board of Education this week for approval. Cost, Burbank School \$84,000 and Seaside School, \$13,000.

LONG BEACH, Los Angeles Co., Cal.—Architect Warren Dedrick, 901 Heartwell Bldg., Long Beach, will present completed preliminary plans to the Long Beach Board of Education this week for the construction of the Jefferson Junior High School. New classrooms and gymnasium will be built; construction will be steel frame, steel studs, reinforced concrete, metal lath and plaster, etc. Cost, \$450,000.

Planned.
SCHOOL Cost, \$229,726
BERKELEY, Alameda Co., Cal. Allston Way and H Street.

Two-story reinforced concrete elementary school (18 classrooms, kindergarten, library, cafeteria, offices, auditorium and service rooms, etc.) (Columbus School).
Owner—City of Berkeley School Dist.
Architect—Not Selected.

Planned.
IMPROVE SCHOOL Cost, \$6719
BERKELEY, Alameda Co., Cal. Regal and Marin Streets.
Reconditioning and rehabilitating Cragmont School (work involves roof framing, change corridor walls to metal, lath and plaster, etc.)
Owner—Berkeley City School Dist.
Architect—Not Selected.

Planned.
IMPROVE SCHOOL Cost, \$38,105
BERKELEY, Alameda Co., Cal. Piedmont and Forest Sts.
Improvements to Emerson School (work involves strengthening wood frame, metal lathing and plastering, new heating system, etc.)
Owner—Berkeley City School Dist.
Architect—Not Selected.

Planned.
IMPROVE SCHOOL Cost, \$9266
BERKELEY, Alameda Co., Cal. San Pablo Ave. and Virginia St.
Structural reconditioning and rehabilitating Franklin School (strengthen roof construction, patching plaster, painting, etc.)
Owner—City of Berkeley School Dist.
Architect—Not Selected.

Planned.
IMPROVE SCHOOL Cost, \$156,600
BERKELEY, Alameda Co., Cal. Sacramento and Rose Streets.
Structural reconditioning of Jefferson School (aud. roof, trusses and columns to be knee-braced and strengthened, ventilation system, brick chimneys to be replaced with concrete lined with fire brick add 15 classrooms, etc.)
Owner—Berkeley City School Dist.
Architect—Not Selected.

Planned.
IMPROVE SCHOOL Cost, \$69,760
BERKELEY, Alameda Co., Cal. Leroy and Buena Vista Aves.
Improvements to Hillside School (structural reconditioning and rehabilitating building; remove 3rd story, exterior veneer of hollow tile

and plaster to be removed and walls refurred, etc.)
 Owner—City of Berkeley School Dist.
 Architect—Not Selected.

Plans Awaiting Approval.
GYMNASIUM Cost, \$65,000
SANTA ROSA, Sonoma Co., Cal.
 One-story reinforced conc. and brick veneer gymnasium (171x235) reinf. concrete walls (separate gym. for men and women) swimming tank.
 Owner — Santa Rosa Junior College Dist. (Floyd Bailey, dean), Santa Rosa.

Architect—Herbert & Caulkins, Rosenberg Bldg., Santa Rosa.
 Plans have been forwarded to Sacramento for approval.

PRESTON, Sonoma Co., Cal. — Monarch Iron Works, 262 7th St., San Francisco, at \$762 submitted low bid to State Purchasing Department, Sacramento, for miscellaneous iron and steel for the Preston School of Industry at lone. Following bids received:
 Monarch Iron Works, S. F. \$ 762
 Palm Iron Works, Sacramento..... 796
 Michel & Pfeffer Iron Wks., S. F. 926
 Folsom St. Iron Works, S. F. 928
 Golden Gate Iron Works, S. F. 936
 Fair Mfg. Co., S. F. 1142

Planned.
SCHOOL Cost, \$216,362
BERKELEY, Alameda Co., Cal. No. 2235 Russell Street.

Two-story reinforced concrete classroom building (16 classrooms; kindergarten, library rooms, cafeteria, offices, auditorium and service rooms; Le Conte School.)
 Owner—Berkeley School District.
 Architect—Not Selected.

Planned.
IMPROVE SCHOOL Cost, \$22,889
BERKELEY, Alameda Co., Cal. Administration Building.
 Improve Administration Building (reinforcing brick bearing walls with structural frame and reinforcing exterior walls, etc.)
 Owner—Berkeley School District.
 Architect—Not Selected.

Planned.
IMPROVE SCHOOL Cost, \$96,046
BERKELEY, Alameda Co., Cal. Willard School.
 Reconstruct school, etc. (two-story reinforced concrete annex to Willard School).
 Owner—Berkeley School District.
 Architect—Not Selected.
 Reconstruction work will cost approximately \$18,472 and annex will cost \$77,574.

Planned.
IMPROVE SCHOOL Cost, \$132,942
BERKELEY, Alameda Co., Cal. Oregon St. near Grant St.
 Provide structural frame, replace masonry work, rehabilitate and re-finish building interior and exterior, provide exits, etc. (Edison Junior High School).
 Owner—Berkeley School District.
 Architect—Not Selected.

Planned.
IMPROVE SCHOOL Cost, \$329,256
BERKELEY, Alameda Co., Cal. No. University Avenue.
 One and two-story reinforced concrete addition to Burbank Junior High School (17 classrooms, cafeteria, domestic science unit and auditorium).
 Owner—Berkeley School District.
 Architect—Not Selected.

Planned.
SCHOOL Cost, \$285,641
BERKELEY, Alameda Co., Cal. No. 1640 Milvia Street.
 Two-story reinforced concrete school building (to replace Whittier

school), 21 instruction rooms, kindergarten, manual training room, cafeteria, assembly hall, offices, service rooms, etc.)
 Owner—Berkeley School District.

Planned
IMPROVE SCHOOL Cost, \$19,991
BERKELEY, Alameda Co., Cal. Bancroft Way and Grove Street.
 Strengthen roof construction and metal lathing and plastering the corridors (Washington School).
 Owner—Berkeley School District.
 Architect—Not Selected.

Planned.
IMPROVE SCHOOL Cost, \$5606
BERKELEY, Alameda Co., Cal. Rose and Walnut Streets.
 Strengthen auditorium roof, etc. (University Elementary School).
 Owner—Berkeley School District.
 Architect—Not Selected.

Planned.
IMPROVE SCHOOL Cost, \$19,091
BERKELEY, Alameda Co., Cal. Tacoma and Calusa Avenue.
 Strengthen wood frame and trusses of auditorium, metal lathing corridors in three-story portions (Thousand Oaks School).
 Owner—Berkeley School District.
 Architect—Not Selected.

Planned.
IMPROVE SCHOOL Cost, \$5529
BERKELEY, Alameda Co., Cal. No. 1140 Oxford Street.
 Strengthen wood frame, patch roof etc. (Oxford School).
 Owner—Berkeley School District.
 Architect—Not Selected.

Planned.
IMPROVE SCHOOL Cost, \$3875
BERKELEY, Alameda Co., Cal. Claremont, bet. Ashby Ave. and Webster Street.
 Structural reconditioning and strengthening auditorium roof trusses, etc. (John Muir School).
 Owner—Berkeley School District.
 Architect—Not Selected.

Plans Completed.
SHOWER BLDG. Cost, \$7000
HOLLISTER, San Benito Co., Cal.
 One-story frame and stucco boys' shower building (flat roof, concrete floors, some tile work, etc.)
 Owner—San Benito High School Dist.
 Architect—W. H. Weeks, 525 Market St., San Francisco.
 Plans have been forwarded to Sacramento for approval.

Planned.
IMPROVE SCHOOL Cost, \$149,121
BERKELEY, Alameda Co., Cal. California and Derby Streets.

Remove present brick walls, parapets and cast stone trim, cast stone arches over auditorium exits, separate auditorium, main building and wings; replace exterior walls with reinforced concrete, anchor floor to frame and walls; strengthen steel from in auditorium section. Strengthen roof construction (Longfellow School).
 Owner—Berkeley School District.
 Architect—Not Selected.

Planned.
IMPROVE SCHOOL Cost, \$147,595
BERKELEY, Alameda Co., Cal. Ellis and Prince Streets.
 Construct structural frame and separate kindergarten, auditorium and classroom wings from main portion, reconstruct reinforced defective brickwork, and remove portions of masonry; install joist anchors and ties, etc. (Lincoln School).
 Owner—Berkeley School District.
 Architect—Not Selected.

16—BANKS, STORES AND OFFICES

Sub-Bids Wanted.
STORES & OFFICES Cost, \$35,000
SAN FRANCISCO. Stockton St. and Card Alley.

One-story reinforced concrete office and store building (tar and gravel roof, steam heating system, concrete and wood floors).

Owner—S. Giannone, % A. Cavall, 255 Columbus Avenue.
 Architect—Wm. Mooser, Monadnock Building.

Supt. of Const.—Louie Spargo.
 Contractor—Vannucci Bros. Const. Co. 1875 San Bruno Avenue.

Sub-bids are wanted on rubber tile, roofing and composition flooring.
 As previously reported, plumbing & heating awarded to J. Gibbs Sons, 1706 Geary St.; electric to Aetna Electric Co., 1435 Eddy St.; ornamental iron to Patterson & Koster Iron Works, 280 13th St.; roofing to Smith Lumber Co., 4th and Channel Sts.; structural steel to Schrader Iron Works, 1247 Harrison St.; reinforcing steel to W. C. Hauck & Co., 280 San Bruno Ave.; plastering to Geo. Teranova, 185 Ellsworth Street.

Construction Postponed.
MARKET Cost, \$20,000
SAN FRANCISCO. Broadway near Stockton Street.

One-story Class C reinforced concrete market (35x137); composition roof, tile floors, glass, steel sash, electric refrigeration, etc.

Owner—Withheld.
 Architect — C. O. Clausen, 746 46th Ave., San Francisco.

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ENGINEER'S CONSULTATION FREE

R. G. LE TOURNEAU, INC.

Wilson Way at Roosevelt

Stockton, Calif.

SAN FRANCISCO—P. A. Bigotta, 1213 Stockton St., at \$765 awarded contract by the Montgomery Block Real Estate Associates, Inc., owners, for painting, tinting and decorating interior of portions of four-story building on the east side of Montgomery St., between Washington and Merchant Sts.

Sub-Contracts Awarded.

REMODEL STORES Cost, \$—
OAKLAND, Alameda Co., Calif. 150 12th Street.

Remodel store bldg. (brick and steel front, repairs to roof, etc.)

Owner—Bushnell Estate.
Architect—Not Given.
Contractor—F. J. Wallace, 907 Washington St., Oakland.

Brick and Concrete—K. Rubenstein, 668 6th St., Oakland.

Glass—W. P. Fuller & Co., 259 10th St., Oakland.

Structural Steel—Herrick Iron Works, 18th and Campbell Sts., Oakland.

Millwork—General Mill & Lumber Co., 1600 34th St., Oakland.

LOS ANGELES, Cal.—Architect R. H. Orr, 1300 Corporation Bldg., is preparing plans for alteration to the ground floor of the C. C. Chapman Building at Eighth St. and Broadway for the King Outfitting Co., 908 S. Broadway. New display windows and fronts will be installed and extensive interior remodeling done. Estimated cost, \$40,000.

Contract Awarded.
STUDIO Cont. Price, \$2330
SAN FRANCISCO, NW Montgomery and Green Streets.

Two-story and basement frame studio.
Owner—G. Gugliemone.

Architect—W. H. Armitage, 3560 California St., San Francisco.

Contractor—C. Choappa, 1109 Montgomery St., San Francisco.

Contract Awarded.
STORE Cost, \$—
SAN MATEO, San Mateo Co., Cal.
One and one-half-story reinforced concrete store building.

Owner—Mr. Von Dostcht.
Architect—Not Given.

Contractor—H. H. Larsen, 64 South Park, San Francisco.

Planned.
REMODEL BLDG. Cost, \$5000
SACRAMENTO, Sacramento Co., Cal. No. 1001 L Street.

Remodel east wing of Mull Building.
Owner—Warner Bros., Hollywood.

Architect—Not Given.
A building permit was issue to the owner.

Contract Awarded.
ALTERATIONS Cost, \$2000
OAKLAND, Alameda Co., Cal. No. 6901 Foothill Blvd.

Alterations to building.
Owner—Chevrolet Motor Co., Prem.

Architect—Not Given.
Contractor—Overhead Door Co., 608 16th St., Oakland.

Revised Plans Completed.
STORE Cost, \$50,000
EUREKA, Humboldt Co., Cal. Fourth and F Streets.

One-story, mezzanine floor and basement reinforced concrete store building (24,500 sq. ft. of floor space).

Owner—Domingo A. Zanone.
Plans by Engr. Dept. of Montgomery Ward & Co., Chicago.

Lessee—Montgomery Ward & Company, Chicago.

New bids may be asked shortly.

Contract Awarded.
REMODEL BLDG. Cost, \$5000
SACRAMENTO, Sacramento Co., Cal. No. 1001 L Street.

Remodel east wing of Mull Building.
Owner—Warner Bros., Hollywood.
Architect—Not Given.
Contractor—Markward Co., Sacramento.

Contract Awarded.
ALTER RESTAURANT Cost, \$1500
SAN FRANCISCO, No. 142 California Street.

Owner—Wintergarden Cafe Co., 142 California St., San Francisco.

Architect—Not Given.
Contractor—Evanov Mfg. Co., 9-11 Minna St., San Francisco.

17— THEATRES

Sub-Contracts Awarded.
ALTER THEATRE Cost, \$12,000
SAN FRANCISCO, No. 645 Broadway.

Alterations to theatre building.
Owner—North Beach Theatre, Inc., 25 Taylor St., San Francisco.

Architect—Not Given.
Contractor—Alfred J. Hopper, 1769 Pleasant Valley Rd., Piedmont.

Structural Steel—Judson-Pacific Co., Foot of Park Ave., Oakland.

Lumber—Acme Lumber Co., Sixth & Channel Sts., San Francisco.

Mill Work—Holmes Planing Mill Co., Sixth and Channel Sts., S. F.

Doors—Western Door & Sash Co., 112 Market St., San Francisco.

Wet Concrete—Readymix Concrete Co., Carolina and Mariposa Sts., San Francisco.

Reinforcing Mesh—Truscon Steel Co., Call Bldg., San Francisco.

Finish Hardware—Marshall-Newell Supply Co., Spear and Mission Sts., San Francisco.

Sheet Metal Work—L. F. Witharm, 686 28th St., Oakland.

Plumbing—Frank Klimm Co., 456 Ellists., San Francisco.

19—MISC. CONSTRUCTION

SALINAS, Monterey Co., Cal.—City of Salinas has applied to Civil Works Administration for funds amounting to \$23,127.15 for improvement of the Salinas American Legion Airport. The work will consist of paving the runways and improving the hangars; also installation of lights for night flights are being contemplated. The work will begin immediately if the funds are allotted.

WEAVERVILLE, Trinity Co., Cal.—The Trinity County Board of Supervisors has set December 21 as the date for a special election to vote on a proposition of forming a public utility district in Weaverville.

SAN FRANCISCO—City Improvement Co., 2625 Harrison St., Oakland, at \$843.55 awarded contract by Signal Officer, for rehabilitation of telephone project, West Cantonment Area Presido, San Francisco.

PEARL HARBOR, T. H.—As previously reported, Lorne Plumbing and Heating Co., Detroit, Mich., at \$153,000 submitted low bid to Bureau of Yards and Docks, Navy Department, Washington, D. C., for improvement of fuel oil system at Pearl Harbor. Spec. No. 7136. Other bids were:
Industrial Piping & Engr.

Co., Baltimore, Md. (1) \$153,900
..... (2) 133,000
..... (3) 135,900
..... (4) 132,900
..... (5) 125,500

Pittsburgh-Des Moines Steel Co., Pittsburgh, Pa. (1) \$155,675
..... (2) 144,865
..... (3) 142,190
..... (4) 139,050
..... (5) 130,980

John Hansen, Honolulu (1) \$159,500

..... (2) 146,009
..... (3) 143,300
..... (4) 141,000
..... (5) 133,500
Adams Const. Co., Wash-
ton, D. C. (1) \$172,009
..... (2) 158,715
..... (3) 155,750
..... (4) 152,065
..... (5) 144,565

W. P. Thurston, Richmond,
Virginia (1) \$176,900
..... (2) 164,000
..... (3) 161,000
..... (4) 159,000
..... (5) 154,000

C. H. Will, Honolulu (1) \$188,000
..... (2) 170,000
..... (3) 166,000
..... (4) 164,000
..... (5) 138,000

C. C. Moore & Co., S. F. (1) \$185,000
..... (2) 171,000
..... (3) 168,000
..... (4) 165,000
..... (5) 157,000

Hawaiian Cont. Co., Hono-
lulu (1) \$180,000
..... (2) 174,000
..... (3) 161,000
..... (4) 158,000
..... (5) 151,500

Geo. Hess, Los Angeles (1) \$224,300
..... (2)
..... (3) 201,946
..... (4) 193,642
..... (5) 185,350

Eids held under advisement.

SAN DIEGO, Calif.—Garrett Const. Co., 3605 Fourth Ave., San Diego, at \$34,874 awarded contract by the Navy Department to construct pipe tunnels and piping for heating plant at the Naval Operating Base (Air Station), San Diego; Spec. No. 7423.

Work consists in general of (a) reinforced concrete tunnels of combined lengths of approximately 1350 feet; (b) concrete conduit approximately 120 ft. long; (c) lowering existing 3-in. condensate return pipe approximately 180 ft. long; (d) piping and fittings in tunnel conduit; (e) piping and condensate return pump in manhole; (f) the connecting of new steam and return pipes with existing steam and return pipes; and (g) miscellaneous changes of existing piping and electrical work as required for complete installation.

PEARL HARBOR, T. H.—Otis Elevator Co., Washington, D. C., awarded contract by Bureau of Yards and Docks, at \$3754, for electric freight elevator and metal-covered hoistway doors at the Naval Submarine Base, Pearl Harbor, T. H.; Specification 7260.

LOS ANGELES, Calif.—McClintic-Marshall Co., 11,100 S Central Ave., Los Angeles, at \$14,435 (Item 1) and \$20,340 (Item 2) awarded the contract by Metropolitan Water District, Dec. 8 for furnishing (1) steel wall beams, and (2) structural steel columns, f.o.b. bidder's plant. The bids were opened November 14.

AMERICAN LAKE, Wash.—National Blower Pipe Co., Tacoma, at \$3390 awarded contract by the Veterans' Administration on Dec. 8 for an ash conveyor system to be installed at American Lake.

BRENTWOOD, Cal.—Until Jan. 5, 1934, 2 P. M., bids will be received by the Board of Trustees of the Liberty Union High School District, Brentwood, for the sale of buildings, tank-frame, motor, pump-jack, piping no longer required by the school district. The building are to be numbered 1, 2 and 3, tank-frame 4, motor, pump-jack and pipe 5.

Robert Wallace, Jr., clerk of the board.

SAN FRANCISCO—Until December 20, 10 A. M., bids will be received by Port Quartermaster, Fort Mason, for repairing and overhauling sixteen steel rolling doors, also for changing method of fastening guides on rolling doors in old portion of Pier Shed No. 2 (Building No. 47), Fort Mason. Plans and specifications available from above office upon deposit of \$5.00.

SOUTH PASADENA, Los Angeles Co., Cal.—South Pasadena city council has under consideration a request from various civic organizations to take steps toward the construction of a municipal swimming pool. The proposed structure would cost about \$65,000.

MARE ISLAND, Cal.—Until December 27, 11 A. M., (date postponed from December 20, as previously reported), bids will be received by the Bureau of Yards & Docks, Navy Department, Washington, D. C., under Specification 7540, for two 10-ton hammerhead cranes at the Navy Yard, Mare Island. Specifications obtainable from above office or from the Commandant, Navy Yard, Mare Island, upon deposit of \$10. A. L. Parsons, Chief of the Bureau. Ralph Whitman, Public Works Officer, Navy Yard, Mare Island.

SAN JOSE, Santa Clara Co., Calif.—Carl Frost, San Jose, at \$157.50 submitted high bid to San Jose board of education and was awarded contract for removal of frame dwelling at 53 Hobson Street. Bids follow:

Carl Frost	\$157.50
Valley Wrecking Co.....	150.00
San Jose Wrecking Co.....	115.00

SUNNYVALE, Santa Clara Co., Cal.—Following have procured plans for the purpose of submitting bids to the Public Works Officer, 12th Naval District, 100 Harrison St., San Francisco, on December 20 for two indicating systems, neon gas illuminated, signs for the north and south landing fields at the Naval Air Station, Sunnyvale; Spec. No. 7565. Work includes concrete footings, reinforcing steel, galvanized steel and iron, anchor bolts, galvanized sheet iron housing for electrical work and forming background for neon tubes, electrical work, neon gas illuminated tubes, and painting. Plans and specifications are available: Theo. Johanns, 2020 15th St., San Francisco.

Brumheld Electric Sign Co., Inc., 965 Folsom St., San Francisco.

Wonderlite Neon Products Co., 170 Otis St., San Francisco.

Neon Sign Service Co., 1707 Folsom St., San Francisco.

Q. R. S. Neon Corp., 690 Potrero Ave., San Francisco.

Plans Being Figured—Bids Close Dec. 19, 12 Noon.

BRIDGE Cost, \$3000
SAN FRANCISCO. Stockton Street, bet. North Point and Bay Sts. Steel bridge (steel truss, steel columns, concrete flooring, steel sash, etc.)

Owner—Simmons Co. of California, 295 Bay St., San Francisco.

Engineer—Ellison & Russell, Pacific Bldg., San Francisco.

Bids are being taken from a selected list of contractors only.

SAN FRANCISCO—Until January 5, 3 P. M., bids will be received by John J. Sharon, Assistant Secretary, Public Utilities Commission, Room 287, City Hall, for waterproofing and painting buildings at the San Francisco Airport. Specifications may be procured at Room 609, San Francisco Water Department, 425 Mason St., San Francisco, upon deposit of \$5.

HAMILTON FIELD, Marin Co., Cal.—DeLuca & Son, 1745 Filbert St., San Francisco, at \$8974 submitted low bid to Constructing Quartermaster, Hamilton Field to construct the A.C. oil distribution system and oil house at Hamilton Field. Following bids received. All bidders of San Francisco: DeLuca & Son.....\$ 8,974 Thomas J. Doyle..... 9,817 F. W. Snook..... 9,950 Fred J. Early Jr..... 10,887 Theo. Cuhn..... 11,446 Bids held under advisement.

SAN FRANCISCO—Until December 27, 2:30 P. M., bids will be received by the San Francisco Department of Public Works, Room 251, City Hall, for furnishing and installing an electrical indicating device for cell doors in the county jail, Sneath Ranch, San Mateo County. Estimated cost, \$5000. Specifications obtainable from above office. W. H. Worden, director of public works.

HUMBOLDT COUNTY, Cal.—Independent Iron Works, 1820 Chase St., Oakland, at \$1495 f.o.b. Oakland, and at \$1627 f.o.b. Fortuna, submitted low bid to the U. S. Forest Service, 85 2nd St., San Francisco for furnishing and fabricating one 98-ft. steel truss span for Mad River Bridge, Humboldt Co. Complete bids follow:

Independent Iron Works, Oakland, \$1495 f.o.b. Oakland; \$1627 f.o.b. Fortuna.

Golden Gate Iron Works, San Francisco, \$1672 f.o.b. San Francisco; \$1797 f.o.b. Fortuna.

Dyer Bros. Golden West Iron Works, San Francisco, \$1787 f.o.b. San Francisco.

McClintic-Marshall, Inc., San Francisco, \$1945 f.o.b. Alameda; \$2065 f.o.b. Fortuna.

Moore Drydock Co., Oakland, \$1948 f.o.b. Oakland.

Judson Pacific Co., San Francisco, \$1985 f.o.b. San Francisco; \$2177 f.o.b. Fortuna.

Herrick Iron Works, Oakland, \$2080 f.o.b. Oakland; \$2188 f.o.b. Fortuna.

Schrader Iron Works, San Francisco \$2393 f.o.b. San Francisco.

Minneapolis Moline Power & Implement Co., San Francisco, \$2476 f.o.b. Fortuna.

Western Iron Works, San Francisco, \$2510 f.o.b. San Francisco.

All bids held under advisement.

20—MISC. SUPPLIES AND MATERIALS

LOS ANGELES, Cal.—A. E. Fickling Lumber Co., at \$5343.75 awarded contract by Saul A. Joseph, Purchasing Agent, Metropolitan Water Dist., December 6, for furnishing lumber under Bid No. 18132. Identical bids were submitted at \$5343.75 by the following:

Hammond Lumber Co.; Globe Lbr. Co.; Public Mill & Lumber Co.; H. A. Browning Lumber Co.; Owens-Parks Lumber Co.; Central Lumber Co.; Vineland Builders Supply Co.; Patten-Blinn Lumber Co.; Hayward Lumber & Investment Co.; Burbank Lumber Co.; Fox-Woodsum Lumber Co.; Bauer Lumber Co., Ltd.; Geo. M. Huff Lumber Co.; Sun Lumber Co.; Glick Bros. Lumber Co.; Pasadena Lumber Co.; Whiting-Mead Co.; Coffey Lumber Co., Ltd.; W. E. Cooper Lumber Co.; Lounsberry & Harris; E. J. Stanton & Son; C. Ganahl Lumber Co., Inc.; Riverside Lumber Yard; Orban Lumber Co.; Kerckhoff-Cuzner Mill & Lumber Co.; Hudson-Bonney Lumber Co.; San Pedro Lumber Co.; Consolidated Lumber Co.; K. E. Wood Lumber Co.; Mullin Lbr. Co.; Gibbs Lbr. Co.; and C. H. Chapman.

LOS ANGELES, Calif.—Soule Steel Co., 6200 Wilmington, Los Angeles, at \$10,043.51 awarded contract by Board of Directors of the Metropolitan Water District December 11 for furnishing steel (schedules 1 and 3; schedules 2 and 4 were rejected) under Bid No. 18112. The other bids were: Truscon Steel Co.....\$10,119.08 L. A. Iron & Steel Co..... 10,043.51 Graham Bros., Inc..... 10,043.51 Pacific Coast Steel Corp..... 10,043.51 Blue Diamond Corp., Ltd..... 10,043.51 Trojan Steel Co..... 10,043.51 Concrete Engr. Co..... 10,043.51 J. W. Black Co. (Sched. 1)..... 6,622.72

SAN FRANCISCO.—The Federated Terminals Co. and the A-B-C Transfer & Storage Co., 1077 Howard St., have been awarded the contract by T. A. Brooks, Purchasing Agent, for the delivery and return of voting machines and delivery of election supplies under Bid No. 1115.

LOS ANGELES, Cal.—Bids for furnishing and delivering to Water and Power Department f.o.b. the department's receiving station "B" corner E 95th St. and Central Ave., structural steel switch racks, complete under Spec. No. 3250, were opened by A. J. Holm, Los Angeles City Purchasing Agent, December 11. The bids were as follows:

Phillip Friedman, Inc. \$12,335. Terms net. Delivery, start 16 days.

Emsco Derrick & Equip. Co., \$9,980. Terms net. Delivery, start 21 days.

International Derrick & Equip. Co., \$10,450. Terms, 1/2 of 1% 20 days. Delivery, start 30 days.

Given - Ogle Iron Works, \$12,337. Terms, 1/2 of 1% 30 days. Delivery, start 10 days, completed in 40 days.

Kyle Steel Const. Co., \$11,612. Terms 1/2 of 1% 10 days. Delivery, start 18 days, completed in 40 days. If certified mill reports are accepted deduct \$75.

Pennsylvania Iron & Steel Co., \$11,189. Terms, 2 1/2% 20 days. Delivery, start in 20 days.

McClintic - Marshall Corp., \$9,765. Terms net. Delivery start in 30 days.

Pacific Iron and Steel Co., \$11,000. Terms net. Delivery start in 4 weeks.

SAN QUENTIN, Marin Co., Cal.—Truscon Steel Co., Atlas Bldg., San Francisco, at \$2676.25 awarded contract by State Purchasing Department, Sacramento, to furnish 125,000 lin. ft. of 1/2-in. and 30,000 lin. ft. of 3/4-in. reinforcing steel for San Quentin.

MARCH FIELD, Riverside Co., Ca.—Lyon Metal Products Co., 3650 Union Pacific Ave., Los Angeles, awarded contract by War Department for furnishing and installing shelves, tables, trucks and storage cabinets in the bakery and laundry buildings at March Field. Sichel Bakery Equipment Co., 1225 Wall St., Los Angeles, has been awarded contract for furnishing and installing bakery equipment (item 1), and Robert I. Steen Co., 225 S. San Pedro St., Los Angeles, has been awarded contract for furnishing and installing bakery equipment (item 2).

SISKIYOU COUNTY, Cal.—The Shell Oil Co. was awarded a contract by the Siskiyou County Board of Supervisors, December 4 for supplying fuel oil to county buildings in Yreka, and to the Horticulture Commissioner, for a period of one year, beginning January 1, 1934. The price to be paid shall not exceed \$1.655 per bbl. f.o.b. seller's siding at Ora, Calif. The other bidders were the Standard Oil Co., the Associated Oil Co., and the Union Oil Co.

MACHINERY & MATERIAL

Bid calls for construction machinery and materials and miscellaneous equipment and supplies purchased by Federal, State, Municipal and other public agencies.

NAVY DEPARTMENT

BREMERTON, Wash.—Bids will be received by the Supply Officer, Puget Sound Navy Yard, Bremerton, as follows:

ZINC, slab, Grade E; 80,000 lbs. Req. 126 NSA; Dec. 22;
CHAIN, coil, wrought iron, close link, black, type A, Grade 1, Class 1; 1300 lbs. Req. NSA-8/5683; Dec. 27;
NUTS, regular, steel, hexagon, Class 1-ft, unfinished, galvanized; 1200 lbs. Req. 220 NSA; Dec. 28;
WASHERS, copper, plate; 45 lbs. Req. No. 220 NSA; Dec. 28;
BOLTS, carriage, black, button head, square neck; 1500. Req. 220 NSA; Dec. 28;
BOLTS, machine, brass, hexagon head and nut; 10,700. Req. 220 NSA; Dec. 28;
BOLTS, machine, steel, hexagon head and nut; 39,000. Req. 220 NSA; Dec. 28;
NUTS, machine, screw, brass; 325 gross. Req. No. 220 NSA; Dec. 28;
NUTS, machine screw, steel, Class 1-ft, 18 gross. Req. 220 NSA; Dec. 28.

WASHINGTON, D. C.—Bids will be received by the Bureau of Supplies & Accounts, Navy Department, Washington, D. C., as follows:

LUMBER, tempiet-wood, Sitka spruce 15,000 ft.; Mare Island. Sch. 1321; Dec. 19.
MATTING, cocoa, 2480 lin. yds., San Diego and Mare Island. Sch. 1324 Dec. 19.
FIBER, insulating, Puget Sound, 72 ft.; San Diego, 72 ft.; Mare Island 612 ft.; Mare Island, 1320 lbs.; Puget Sound, 380 lbs.; Mare Island, 65 lbs.; Puget Sound, 700 lbs. Sch. 1333; Dec. 19.
MATERIAL, insulating, East & West Yards. Sch. 1327; Dec. 19.
SPRUCE, 155,000 ft., Mare Island. Sch. 1328; Dec. 19.
CARBONS, searchlight, 13,600 for Mare Island and Puget Sound, and 6600 do. Sch. 1331; Dec. 19.
LUMBER, East and West Yards. Sch. 1322; Dec. 19.
MICA, plate, 135 lbs.; 45 lbs. sheet mica; 40 lbs. sheet mica, and 650 ft. mica tubing; for Mare Island, Puget Sound and Seawall's Point. Sch. 1325; Dec. 19.
ROPE, wire, and seizing strang, East and West Yards. Sch. 1326; Dec. 19.
PLUGS, non-watertight attachment, 24,000 for Mare Island and Puget Sound. Sch. 1347; Dec. 22.
BAGS, jute burlap, 13,500 for Mare Island, Puget Sound. Sch. 1346; Dec. 22.
PANELS, distribution; Sch. 1256, bids postponed from Dec. 8 to Dec. 22.
CEMENT, Portland, quantity for Eastren Yards. Sch. 1377; Dec. 22
PACKING, asbestos rope, 1025 lbs.; Mare Island and Puget Sound. Sch. 1353; Dec. 27.
FELT, millboard and paper asbestos, pipe covering, block and magnesla plaster, East and West Yards. Sch. 1336; Dec. 27.
TAPE, insulating; East and West Yards. Sch. 1351; Dec. 27.
FUSES, and fuse elements; East and West Yards. Sch. 1356; Dec. 27.
FIRE, resistance; fuse and ribbon, copper; East and West Yards.

Sch. 1352; Dec. 27.
WIRE, brass, bronze, copper and steel; East and West Yards. Sch. 1359; Dec. 27.
STEEL, corrosion resisting sheet and strip; Puget Sound. Sch. 1374; Dec. 27.
GLASS, non-shatterable, 600 sheets; San Diego. Sch. 1375; Dec. 27.
CLAMPS and couplings for air hose; East and West Yards. Sch. 1376; Dec. 27.
HOSE, bronze steam, 13,000 ft.; Mare Island. Sch. 1340; Dec. 22.

BREMERTON, Wash.—Bids will be received by the Supply Officer, Puget Sound Navy Yard, Bremerton, as follows:

COPPER-NICKEL - ALLOY, rolled, bar, round, diameter 6-in.; 2000 lbs. Req. 222 NSA; Dec. 22.
ALUMINUM-ALLOY, ingot, Class-2; 4000 lbs. Req. 215 NSA; Dec. 28.
BRASS, naval, rolled, finished, bar, round, size 3½-in.; 1000 lbs. Req. 215 NSA; Dec. 28.
COPPER, hard-drawn, bar, round, size ¼-in.; 200 lbs. Req. 215 NSA; Dec. 28.
GRAPHITE, plumbago, foundry, facing, silver-lead, Grade-C; 5000 lbs. Req. 223 NSA; Dec. 29.

SAN FRANCISCO.—Bids will be received by the Purchasing Officer, 12th Naval District, 100 Harrison Street, as follows:

GLUE, marine, 15,000 lbs.; Mare Island. Sch. 8962; Dec. 27.
TACKS, copper, 1200 lbs.; Mare Island. Sch. 9508 and 9509; Dec. 27.
BRUSHES, platers' hand, 400; Mare Island. Sch. 9501; Dec. 27.
CONDUIT, fibre, electric, 3½-in., 10,000 ft. Sch. 9542; Dec. 20.

SAN FRANCISCO.—Until Dec. 19, bids will be received by the Purchasing Officer, 12th Naval district, 100 Harrison St., for furnishing a ditcher and panbreaker, not less than 3,700 lbs., to be used with a 65-hp. tractor. Above equipment will be required for the New Magazine Bldg., Mare Island; Sch. 9598.

WAR DEPARTMENT

SACRAMENTO, Cal.—Until Dec. 19, 3 P. M., bids will be received by the U. S. Engineer Office, Captain J. G. Drinkwater, District Engineer, Room 208, Post Office Bldg., Sacramento, under Order No. 5947/2136, for miscellaneous supplies including the following:

Corrugated galvanized iron, barbed roofing nails, lead washers, tubular tracks door hinges, end brackets, intermediate brackets, door pulls, safety hasp, pipe covering, asbestos lagging, insulating cement, steel boiler plates, mild flat steel, cold rolled steel, pressure gauge, portable scale, gravel and sand, Portland cement, padlocks, machinists' hammer handles, steam trap and brass pipe.

Specifications obtainable from above office.

SACRAMENTO, Cal.—Until December 19, 3 P. M., bids will be received by the U. S. Engineer Office, Capt. J. G. Drinkwater, District Engineer, Rm. 208 Post Office Bldg., Sacramento, under order No. 5949/2136 for miscellaneous supplies and materials in-

cluding copper wire, porcelain insulators, locust pins, carbon lamps, watertight plug receptacle double contact back plate with shade carrier, Rand S watertight junction boxes, connectors, Ammeter, battery hydrometers, copper cable, and battery switches. Specifications obtainable from the above office. Delivery to the U. S. Engineers, f.o.b. Rio Vista.

SACRAMENTO, Cal.—Until December 18, 3 P. M., bids will be received by the U. S. Engineer Office, Capt. J. G. Drinkwater, District Engineer, Room 208 Post Office Bldg., Sacramento, under Order No. 5949/Sac. 174 for the following:

- (1) 400 car strips, 6 ft. to 9 ft. long.
- (2) 400 laths, good grade material.
- (3) 11,936 M.E.E.M. Oregon Pine lumber.

Specifications obtainable from above office. Delivery to the U. S. Engineers, Sacramento, f.o.b.

SACRAMENTO, Cal.—Until December 19, 3 P. M., bids will be received by the U. S. Engineer Office, Capt. J. G. Drinkwater, Room 208, Post Office Bldg., Sacramento, under Order 5966/R.V., as follows:

- (1) 25 cylinders oxygen.
- (2) 12 cylinders acetylene.

Specifications obtainable from above office. Delivery f.o.b. Rio Vista.

SAN FRANCISCO—Until December 26, 3 P. M., bids will be received by the U. S. Engineer Office, 401 Custom House, San Francisco, for furnishing and installing 4 power-operated watertight bulkhead doors to replace the existing system of hand-operated doors in the U. S. Seagoing Hopper Dredge "Culebra." Bids for the equipment will be taken on three alternates, (1) hydraulic system; (2) pneumatic system; (3) electric system.

Specifications obtainable from the above office.

CANAL ZONE

PANAMA CANAL ZONE—Until December 19, 10:30 A. M., bids will be received by the General Purchasing Agent, Panama Canal, Washington, D. C., under Schedule No. 2924, for electric ranges, electric water heater, galvanized pipe, struc. steel, carbon-steel billets, nickel-steel billets, manhole frames and covers, brass roof drains, aluminum stairway cover, expansion bolt anchors, pipe clamps, cap screws, brass valves.

PANAMA CANAL ZONE—Until December 22, 10:30 A. M., bids will be received by the General Purchasing Officer, the Panama Canal, Washington, D. C., under Schedule No. 2925, for furnishing Nickel-steel bars, Structural steel, Air compressor units, Electric welding wire, Bronze propellers, Water coolers, Iron grindstone frames, Hand-rail brackets, Oil stone, End mills, Brass drawer locks, Steel chain links, Stripping brushes, Refrigerator-door edging, water polo balls, and Rice straw.

Specifications obtainable from above office, and on file at the office of the DAILY PACIFIC BUILDER.

ENGINEERING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

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| 21.—Bridges | 30.—Reservoirs and Dams |
| 22.—Dredging, Harbor Works, Excava. | 31.—Pipe Lines and Wells |
| 23.—Irrigation Proj. | 32.—Sewers & Sewage Disposal Plants |
| 24.—St. Light. Systems | 33.—Water Works |
| 25.—Machinery and Equipment | 34.—Parks & Playgrounds |
| 26.—Railroads | 35.—Tunnels |
| 27.—Fire Alarm Sys. | |
| 28.—Fire Equipment | |
| 29.—Streets & Highways | |

21— BRIDGES

LINCOLN COUNTY, Wash.—Malott & Olsen, Seattle, at \$9,984.00 awarded contract by the Washington State Division of Highways, Olympia, for constructing a reinforced concrete slab bridge 103 ft. long over Crab creek on State Road No. 7 in the town of Odessa, Lincoln County; Project No. NRM 139-D.

Fred Nygren, Seattle, at \$10,202 second low bidder; third, Henry Hageman, Cashmere, \$10,882.

MADERA COUNTY, Cal.—All bids received December 5 by the Madera County Board of Supervisors for the reconstruction of one wood frame bridge over Fine Gold Creek have been rejected. The work will proceed by day labor. The bids were:
 E. J. Denney, Madera\$943.68
 C. W. Miller, Madera..... 957.00
 R. W. Brown, Madera..... 749.00
 L. W. Cooper, County Clerk.

YAMHILL COUNTY, Oregon—Shattuck & Neland, Portland, Oregon, at \$3980 awarded contract for construction of bridge over Chehalem Creek on the Yamhill-Newberg Secondary Highway near Newberg, National Recovery Project No. NRS 219-A, in Yamhill County. Complete bids follow:
 Shattuck & Neland, Portland.....\$3980
 J. F. Johnston, Newberg..... 4310
 Birkemeier & Saromal, Portland 4738
 Johnson & Pearce, Portland..... 4952
 A. T. Dolan, Tillamook.....) 5335

MULTNOMAH CO., Ore.—Hoffman Const. Co., Portland, at \$91,127 submitted low bid to Oregon State Highway Commission, Portland, for construction of bridge over Vermont St. Gulch and bridge over Newberry St. Gulch on Fourth St. Extension of West Side Pacific Highway in Portland. Complete bids follow:
 Hoffman Const. Co., Portland.....\$ 91,127
 Theo. Arenz, Portland..... 99,289
 Lindstrom & Feigenson, P'tld 104,554
 Northwest Roads Co., Portland 107,459
 Elliott & Co., Portland..... 112,374
 Parker-Schram Co., Portland.. 117,681
 Newport Const. Co., Portland.. 120,316
 Kuckenber-Wittman Co., Portland 127,282
 Portland Bridge Co., Portland.. 129,604
 Guthrie-McDougall, Portland.... 129,727
 Gilpin Const. Co., Portland..... 130,943
 Bids held under advisement.

LINN COUNTY, Oregon.—Barham Bros. & Henningsen, Salem, at \$7,860.-50 awarded contract by Oregon State Highway Commission, Portland, for construction of a bridge over Santiam overflow channel on the Albany-Lyons Secondary Highway near Albany, National Recovery Project No. NRS 223. Complete bids follows:

Barham Bros. & Henningsen, Salem, Ore.\$7,860.50
 Tom Lillebe, Reedsport, Ore.... 8,690.50
 Shattuck & Noland, Portland 8,708.00
 Birkemeier and Saremal, Portland 8,820.00
 Johnson & Pearce, Portland..... 9,582.00

MULTNOMAH CO., Ore.—Barham Bros. & Henningsen, Salem, at \$7,311 awarded contract by the Oregon State Highway Commission, Portland, for construction of a bridge over McCarty Creek on the Columbia River Highway near Burlington, National Recovery Project No. NRH 171-A, in Multnomah County. Complete bids follow:
 Barham Bros. & Henningsen, Salem\$ 7,311.00
 Shattuck & Noland, Portland 7,694.00
 Sattergren Bros., Portland..... 8,342.00
 Northwest Roads, Portland... 8,564.00
 Parker-Schram Co., Portland 8,667.50
 Birkemeier & Saremal, Portland 8,740.00
 Johnson & Pearce, Portland.. 8,979.50
 Gilpin Const. Co., Portland... 8,982.00
 Theo. Arenz, Portland..... 11,385.00

JACKSON COUNTY, Ore.—Mountain States Const. Co., Eugene, Ore., at \$33,806.50 awarded contract by Oregon State Highway Commission for the construction of a bridge over Applegate river on the Medford-Provolt Secondary Highway near Provolt, National Recovery Project No. NRS 218. Complete bids follow:
 Mountain States Const. Co., Eugene, Ore.\$33,806.50
 Lindstrom & Feigenson, Portland 35,799.00
 J. J. Badraun, Portland..... 37,484.50
 Theo. Arenz, Portland..... 39,758.00
 F. C. Dillard, Yunker and Wlecks, Medford 39,798.00
 Kuckenber - Wittman, Portland 40,377.00

JOSEPHINE COUNTY, Ore.—Mountain States Const. Co., Eugene, Ore., at \$15,623.50 awarded contract by the Oregon State Highway Commission for constructing a bridge over Williams Creek on the Williams Secondary Highway near Provolt, National Recovery Project No. NRS 208. Complete bids follow:
 Mountain States Const. Co., Eugene, Ore.\$15,623.50
 Barham Bros. & Henningsen, Salem, Ore. 15,968.00
 Lindstrom & Feigenson, Portland 19,377.00
 Saw Mill Engr. & Const. Co. Klamath Falls 19,523.00
 J. J. Badraun, Portland..... 19,730.00
 Kuckenber - Wittman Co., Portland 21,281.50
 F. C. Dillard, Yunker and Wlecks, Medford, Ore..... 21,850.00
 Theo. Arenz, Portland..... 22,129.00

KLAMATH COUNTY, Oregon—G. I. Stebbins Const. Co., Klamath Falls, at \$16,991.90 awarded contract by the Oregon State Highway Commission, Portland, for construction of a bridge over U. S. R. S. Canal on the Dalles-California Highway near Klamath Falls. Complete bids follow:
 G. I. Stebbins Const. Co., Klamath Falls\$16,991.90
 Saw Mill Engr. & Const. Co., Klamath Falls 19,478.80
 F. C. Dillard, Yunker and Wlecks, Medford 25,473.00

COOS COUNTY, Oregon—Tom Lillebe, Reedsport, Oregon, at \$52,748 submitted low bid to Oregon State Highway Commission, Portland, for construction of Heffman Bridge over Coquille River on Powers Secondary Highway near Myrtle Point, National Recovery Project No. NRS 266-A, in Coos County. Complete bids follow:
 Tom Lilleber, Reedsport.....\$52,748
 Guthrie-McDougall Co., Port... 55,828
 Lindstrom & Feigenson, Port.... 58,881
 J. J. Badraun, Portland..... 59,517
 Birkemeier & Saremal, Port.... 59,586
 Kuckenber-Wittman Co., Port. 63,805

MARE ISLAND, Vallejo Cal.—Barrett & Hilp, 918 Harrison St., San Francisco, at \$927,700 (bridge complete with earth fill) submitted low bid to Public Works Officer, Navy Yard, Mare Island, for constructing a new causeway between Mare Island and Vallejo, approximately 4500 feet long, including a single-leaf Bascule lift span of 75 ft., and operating mechanism complete.

- Unit items follow:
 (1) Alternate, earth fill construction on the mud flats at the Vallejo end;
 (2) Alternate, pile bent construction in lieu of earth fill;
 (3) Deduct if gate house on Mare Island end is omitted.

Complete bids and unit prices follow Barrett & Hilp, San Francisco, type (Strauss) (1) \$927,700; (2) \$1,062,000; (3) \$26,000.00.

Healy-Tibbitts Const. Co., and McDonald & Kahn, San Francisco (Niskin) (1) \$944,000; (2) \$1,090,000; (3) \$24,500; (Strauss) (1) \$947,999; \$1,094,000; (3) \$24,500; (Schrezer) (1) \$999,958; (2) \$1,105,000; (3) \$24,500; (American) (1) \$966,000; (2) \$1,112,000; (3) \$24,500.

Duncanson & Harrelson Co., San Francisco, (Strauss) (1) \$953,572.00; (2) \$953,406; (3) \$25,000.

M. E. McGowan, Inc., San Francisco (Strauss) (1) \$976,000; (2) \$1,133,000; (3) \$21,000.

Clinton Const. Co., San Francisco, (Strauss) (1) \$998,000; (2) \$1,147,000; (3) \$25,000.

George Pollock Co., Sacramento, (Strauss) (1) \$1,081,722; (2) \$1,300,795; (3) \$25,000.

Bids held under advisement.

DOUGLAS COUNTY, Oregon—Mountain States Constr. Co., Eugene, Oregon, at \$14,294 awarded contract by Oregon State Highway Commission, Portland, Oregon, for bridge over Yellow Creek on the Elkton-Sutherland Secondary Highway near Elkton, National Recovery Project No. NRS 216. Complete bids follow:
 Mountain States Constr. Co., Eugene, \$14,294.
 Barham Bros. & Henningsen, Salem, \$14,442.50.
 Tom Lillebe, Reedsport, \$14,634.
 Oregon-Washington Bridge Co., Toledo, Wash., \$15,438.
 Birkemeier & Saremal, Portland, \$15,494.
 Johnson & Pearce, Portland, \$16,850.

CAPITAL CITY TITLE COMPANY

▼

J. C. PALEN,
Manager

▼

914 Seventh Street
Sacramento :: California

CLATSOP COUNTY, Oregon—Johnston, Hanson & Johnston, Birkenfeld, Oregon, at \$19,873.50 submitted low bid to Oregon State Highway Commission, Portland, for construction of bridge over Beneke Creek on Nehalem Secondary Highway at Jewell National Recovery Project No. NRS 213 B, in Clatsop County. Complete bids follow:

Johnston, Hanson & Johnston, Birkenfeld, \$19,873.50.
Fred H. Slate, Portland, \$19,918.50.
A. T. Dolan, Tillamook, \$21,277.
Johnson & Pearce, Portland, \$21,299.50
The Gilpin Construction Co., Portland, \$23,613.

ALAMEDA COUNTY, Calif.—Until January 3, 1934, at 2 P. M., bids will be received by the Department of Public Works, Room 811, 500 Sansome St., San Francisco, for the construction, including work incidental thereto of a structure consisting of 22 reinforced concrete piers with timber piles, 10 reinforced concrete spans for the lower deck highway and interurban traffic and six reinforced concrete spans for the upper deck highway, located in Oakland, immediately east of the east bay crossing of the San Francisco-Oakland bay bridge, Alameda County, involving:

- (1) 580 pieces driving piles piers E-23 to E-27A, inclusive;
- (2) 420 pieces driving piles piers E-28 to E-39, inclusive;
- (3) 2400 tons gravel blanket piers E-23 to E-27A;
- (4) 440 cu. yds. concrete seal pier E-23;
- (5) 860 cu. yds. do piers E-23A to E-27A, inclusive;
- (6) 1050 cu. yds. concrete footings, piers E-23 to E-39, inclusive;
- (7) 4,500 cu. yds. concrete above seals
- (8) 100 cu. yds. concrete railings;
- (9) 600,000 lbs. reinf. steel;
- (10) 6,000 lbs. bronze bearings;
- (11) 5,000 lbs. misc. metalwork;
- (12) lump sum, electrical conduits;
- (13) 1,000 hhls. extra Port. cement 10 percent over and above regular cement.

Plans and specifications obtainable from above office.

PLUMAS COUNTY, Cal.—E. T. Lesure, 87 Ross Circle, Oakland, at \$18,462 (second low bidder) awarded contract by State Highway Commission, Sacramento, for constructing a steel stringer bridge with concrete deck across Yellow Creek about two miles west of Howels, in Plumas County.

J. W. Halterman, Willows, at \$16,695.10 was low bidder but disqualified because the bid was accompanied by an insufficient check.

VENTURA COUNTY, Cal.—Until January 3, 1934, 2 P. M., bids will be received by State Highway Commission, Sacramento, for construction of an overhead crossing over the tracks of the Southern Pacific Company near Ventura consisting of nine 40-ft. and two 57-ft. 7 9/16-in. reinforced concrete girder spans and one 94-ft. 10 1/2-in. steel span, in Ventura County, involving:

- (1) 2700 cu. yds. struc. excav.;
- (2) 3025 cu. yds. Class A Port. cem. concrete struc.;
- (3) 35 cu. yds. Class A Port. cem. conc. railing;
- (4) 518,000 lbs. bar reinf. steel;
- (5) 125,000 lbs. struc. steel;
- (6) 3300 lbs. cast steel;
- (7) 1 lot guniting;
- (8) 125 tons oil treat. crushed gravel or stone detour;
- (9) 500 lin. ft. laminated timber guard rail;
- (10) 540 lin. ft. temporary railing;
- (11) 1 lot miscellaneous items of work

Plans and specifications obtainable from above office and on file at the

office of the District Engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

HUMBOLDT COUNTY, Cal.—Until January 3, 1934, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for construction of a bridge across Southfork of Eel River at Smith Point, consisting of one 100 ft.; one 120-ft.; one 120-ft. 2 3/4 in. and one 99-ft. 9 3/4-in. plate girder spans and two 57-ft. 6-in. reinforced concrete girder spans; one concrete pier and abutments, in Humboldt County, involving:

- (1) 1500 cu. yds. struc. excav.;
- (2) 500 cu. yds. Class A Port. cem. concrete footing block;
- (3) 2050 cu. yds. Class A Port. cem. concrete struc.;
- (4) 145 cu. yds. Class A Port. cem. concrete rail and curb;
- (5) 140,000 lbs. mar reinf. steel;
- (6) 555,000 lbs. struc. steel;
- (7) 24,000 lbs. cast steel bearings;
- (8) 1560 lin. ft. furnish steel piles, including test piles;
- (9) 38 each driving steel piles including test piles;
- (10) 1 lot miscellaneous items of work

Plans and specifications obtainable from above office and on file at the office of the District Engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

CLARK COUNTY, Nevada—Until December 27, 2 P. M., bids will be received by S. C. Durkee, State Highway Engineer, Carson City, Nevada, to construct an overhead crossing at Moapa, NRS No. 124, Clark County, involving:

- (1) 800 cu. yds. rdwy. excav.;
- (2) 290 sta. yd. overhaul;
- (3) 9623 cu. yds. select borrow;
- (4) 290 cu. yds. structure excav.;
- (5) 120 cu. yds. Class A concrete;
- (6) 1 cu. yd. Class B concrete;
- (7) 175 cu. yds. Class D concrete;
- (8) 32,500 lbs. struc. steel;
- (9) 57,000 lbs. reinf. steel;
- (10) 54 lin. ft. 24-in. CMP;
- (11) 0.340 mi. subgrade;
- (12) 800 cu. yds. crushed gravel or stone surface;
- (13) 8 each monuments;
- (14) 0.36 mi. finish rdwy.

Plans and specifications obtainable from above office.

LOS ANGELES COUNTY, Cal.—Until January 3, 1934, at 2 P. M., bids will be received by the State Highway Commission, Sacramento, for the construction of a bridge across Ramona Blvd. at Lord St. in the City of Los Angeles, consisting of two reinforced concrete slab spans 50 ft. in length on reinforced concrete piers and reconstructing existing timber stringer spans on timber bents and concrete footings, involving:

- (1) removing and disposing of portions of existing bridge;
- (2) 450 cu. yds. struc. excav.;
- (3) 764 cu. yds. Class A Port. cem. conc. struc.;
- (4) 25 cu. yds. Class C Port. cement concrete;
- (5) 17 cu. yds. Class E Port. cement concrete railings;
- (6) 147,000 lbs. bar reinf. steel;
- (7) 20 MFBM salvaged timber;
- (8) 7 MFBM creosoted Douglas fir timber;
- (9) 100 tons asph. conc. type A surface;
- (10) 1 lot sanitary sewer reconstruction.

Plans and specifications obtainable from the above office and on file at the offices of the District Engineers at Los Angeles and San Francisco.

LOS ANGELES COUNTY, Cal.—Until January 3, 1934, at 2 P. M., bids will be received by the State Highway Commission, Sacramento, for the con-

struction of a reinforced concrete bridge on Sunset Blvd. across Glendale Blvd. in the City of Los Angeles, consisting of a filled arch having a clear span of 90-ft., involving:

- (1) 1 only existing bridge to be removed and disposed of;
- (2) 6,000 cu. yds. struc. excav.;
- (3) 720 cu. yds. sand fill;
- (4) 3,510 cu. yds. Class A Port. cem. concrete struc.;
- (5) 200 cu. yds. Class C Port. cem. concrete;
- (6) 30 cu. yds. Class A Port. cem. concrete sidewalks;
- (7) 34 cu. yds. Class A Port. cement concrete curbs and gutters;
- (8) 22 cu. yds. Class E Port. cem. concrete ornamental railing;
- (9) 1 lot ornamental iron railing;
- (10) 808,000 lbs. bar reinf. steel;
- (11) 1 lot lighting equipment;
- (12) 730 tons asphalt concrete;
- (13) 11,560 lin. ft. reinf. conc. piles.

Plans and specifications obtainable from the above office and on file at the offices of the District Engineers at Los Angeles and San Francisco.

ORANGE COUNTY, Cal.—Franklin B. Gridley, 256 S. Lake Ave., Pasadena, at \$41,832 awarded contract by State Highway Commission, Sacramento, for constructing a steel stringer bridge with concrete deck across Santa Ana River at Buaro Street, in Orange County.

22—DREDGING HARBOR WORKS EXCAVATION

MARYSVILLE, Cal.—Swinyer Construction Co., 219 Serra Madre Ave., Pasadena, at \$2480 (16c per cu. yd.) awarded contract by U. S. Engineer Office, Sacramento, for placing a slab levee on the east bank of the Feather River at Marysville, for a distance of approximately 900 feet.

ALAMEDA COUNTY, Calif.—Fredrickson & Watson, 873 81st St., Oakland, and Basalt Rock Co., 900 8th St., Napa, at \$274,687 awarded contract by State Highway Commission, Sacramento, for constructing a rock retaining wall about 4.1 miles long and placing miscellaneous riprap between the westerly end of the Key Route Mole fill and the foot of Folger Ave., Berkeley, on the East Bay approach to the San Francisco-Oakland bay bridge.

BAKER BAY, Wash.—Until Dec. 21, 3 P. M., bids will be received by the U. S. Engineer Office, Major C. F. Williams, District Engineer, Room 306 Customhouse, Portland, for dredging 950,000 cu. yds. place measurement in Baker Bay, a channel 200 ft. wide on the bottom and 10 ft. deep at mean lower low water datum, extending from deep water near the easterly end of Sand Island for a distance of about 3 1/2 miles, to the Port of Ilwaco. Spec. No. 299 and accompanying drawings obtainable from the above office.

23—IRRIGATION PROJ.

IMPERIAL COUNTY, Cal.—Contractors who have procured plans and specifications for the excavation of approximately 13.8 miles of the All American Canal, for which bids will be received by the Bureau of Reclamation, Yuma, Arizona, December 20, at 10 A. M.:

Guy F. Atkinson Co., Russ Bldg., San Francisco.

Atkinson Constr. Co., 91355 Husset St., Oakland.

Brockman Agencies (Insurance), Union Bank Bldg., Los Angeles.

Bucyrus-Monighan Co., 931 Killpatrick Ave., Chicago.

Herbert M. Baruch Corp., 625 S. Olive St., Los Angeles.
Concrete Machinery & Supply Co., 777 E. Gage Ave., Los Angeles.
Frank Doran, 345 Spreckles Theatre Bldg., San Diego.

The Euclid Road Machinery Co., 393 N. Main St., Memphis, Tenn.
D. A. Foley & Co., 717 Grant Bldg., Los Angeles.

Glen Falls Indemnity Co., 6th Floor Mills Tower, San Francisco.
Paul Grafe, Ambassador Hotel, Los Angeles.

Gaines Bros. Co., Kennett, Mo.
Hartford Accident & Indemnity Co., 548 S. Spring St., Los Angeles.
Harnischfeger Sales Corp., 2025 Santa Fe Ave., Los Angeles.

The Herkner Co., 5450 Hamilton Ave., Cleveland, Ohio.
Hanrahan Co., Hobart Bldg., San Francisco.

Horton Price Constr. Co., Lake Providence, La.
Hercules Powder Co., 1010 Fidelity Bldg., Los Angeles.

Hulse & Anderson, Yuma, Arizona.
Ingersoll-Rand Co. of Calif., 1460 E. 4th St., Los Angeles.

W. E. Kier Constr. Co., 747 Third Ave., San Diego.
L. M. Laron, 318 N. Mariposa St., Los Angeles.

McCutcheon Transportation Co., 2100 E. 25th St., Los Angeles.
S. S. Magoffin Co., Adrian, Oregon.
John M. Martin, 650 S. Spring St., Los Angeles.

Martin Day Co., 312 Little Bldg., Lincoln, Neb.
C. T. Malcom Grad. Constr., 1120 Board of Trade Bldg., Lincoln, Neb.

Mack International Motor Corp., 2001 S. Alameda St., Los Angeles.
Northwest Engr. Co., 3707 Santa Fe Ave., Los Angeles.

Geo. Pollock Co., 1011 Forum Bldg., Sacramento.
Puget Sound Bridge & Dredging Co., % J. C. Greely, 2929 16th Ave., S.W., Seattle.

Smith Booth Usher Co., 2001 Santa Fe Ave., Los Angeles.
H. J. Steitz, % Richfield Oil Co., Los Angeles.

Southern Sierras Power Co., Yuma, Arizona.
Charles and George K. Thompson, 2301 W. 9th St., Los Angeles.

Trinity Farm Constr. Co., Dallas, Texas.
Utah Constr. Co., 1 Montgomery St., San Francisco.

Valley Constr. Co., 300 N. Pearl St., Natchez, Miss.

SACRAMENTO, Calif.—Applications for permit to appropriate water filed with the Department of Public Works, Division of Water Resources, during the month of November, 1933:

Application 7730 (Mendocino County) Division of Highways, Sacramento for 360 gals. per day from Ridgewood Spring, tributary to no stream, for drinking fountain on highway. Estimated cost, \$20.

App. 7731 (San Diego Co.) Harry E. Causey, Aguanga, for 7200 gals. per day from unnamed spring tributary to Rattlesnake and Temescula creeks, for irrigation and domestic purposes on 5 acres.

App. 7732 (Mendocino Co.) Byron G. Gowan, Philo, for 4.9 c.f.s. from Navarro river, tributary to Pacific Ocean for irrigation purposes on 30 acres. Est. cost, \$250.

App. 7733 (Lake Co.) S. E. Crutcher, et al, Williams, for 1000 gals. per day from a spring tributary to Bartlett Creek, for domestic purposes. Estimated cost, \$100.

App. 7734 (Sierra Co.) L. F. Johnson and A. J. Sells, 105 Montgomery St., San Francisco, for 8 c.f.s. from Deacon Long ravine, tributary to State creek and North Fork Yuba river, for mining purposes.

App. 7735 (San Bernardino Co.) F. A. Tetley, Riverside, for 35,000 c.f.s. from spring or Seleneva, tributary to La Prael creek and Mojave river, for domestic purposes.

App. 7736 (Mendocino Co.) Division of Highways, Sacramento, for 1000 gal. per day from Hinkle spring, tributary to Rattlesnake creek, for drinking fountain on state highway.

App. 7737 (Mono Co.) Division of Highways, Sacramento, for 0.925 c.f.s. from Glass creek, tributary to Owens river, for domestic purposes at state highway maintenance yard. Est. cost, \$3500.

App. 7738 (Nevada Co.) M. C. Wisler, Nevada City, for 2 c.f.s. from Shady creek, tributary to South Yuba river, for mining purposes. Est. cost, \$800.

App. 7739 (Imperial Co.) Imperial Irrigation Dist., El Centro, for 13,000 c.f.s. from Colorado river, for power purposes; 81,250 theoretical horsepower to be developed. Estimated cost \$6,100,000.

App. 7740 (Imperial Co.) Imperial Irrigation District, El Centro, for 8,000 c.f.s. from Colorado river, for power purposes; 23,636 theoretical horsepower to be developed.

App. 7741 (Imperial Co.) Imperial Irrigation District, El Centro, for 8,000 c.f.s. from Colorado river, for power purposes; 24,545 theoretical horsepower to be developed.

App. 7742 (Imperial Co.) Imperial Irrigation District, El Centro, for 8,000 c.f.s. from Colorado river, for power purposes; 44,545 theoretical horsepower to be developed.

App. 7743 (Imperial Co.) Imperial Irrigation Dist., El Centro, for 6,000 c.f.s. from Colorado river, for power purposes; 13,636 theoretical horsepower to be developed.

App. 7744 (Siskiyou Co.) Martin and Fred Krull, Dr. Steele Forsythe and C. E. Mart, Seiad Valley, for 30 c.f.s. from Thompson creek, tributary to Klamath river, for mining purposes.

App. 7745 (Humboldt County) John Swanson, Willow Creek, for 1,000 gals. per day from a spring tributary to the Trinity river, for domestic purposes at auto camp. Est. cost, \$250.

App. 7746 (Nevada Co.) R. E. Nobel, Roseville, for 3 c.f.s. from Darlin Gulch, tributary to Little Greenhorn creek, for mining and domestic purposes.

App. 7747 (Butte Co.) T. B. Elliott, Oroville, for 1 c.f.s. from Sucker-run, tributary to South Fork of Feather river, for mining purposes. Est. cost, \$50.00.

App. 7748 (Tulare Co.) U. S. Sequoia National Forest Porterville for 0.005 c.f.s. from Poso creek tributary to Tulare Lake Basin for domestic purposes. Est. cost \$130.

App. 7749 (Tulare Co.) U. S. Sequoia National Forest Porterville for 0.005 c.f.s. from a spring tributary to White river for domestic purposes. Est. cost \$150.00.

App. 7750 (Mono Co.) F. J. and N. B. Penney Mammoth Lakes for 500 gals. per day from Mammoth Creek, tributary to Owens river, for domestic purposes. Est. cost, \$150.00.

App. 7751 (Sierra Co.) G. N. Macrae, 2307 26th Ave., San Francisco, for 7½ c.f.s. from an unnamed stream, tributary to Oregon creek, for mining purposes.

App. 7752 (Siskiyou Co.) T. L. Park and H. V. Gentry, 2673 Glendower Ave., Los Angeles, for 75 c.f.s. from Walker creek, tributary to Klamath river, for mining and domestic purposes.

App. 7753 (Nevada Co.) L. E. Dunlap and F. A. Warren, Roseville, for 10 c.f.s. from Hussey, Long and Darlin canyons, tributary to Little Greenhorn creek, for mining and domestic purposes. Est. cost, \$1250.

App. 7754 (Siskiyou Co.) Charles C. Broadwater, Piedmont, for 35 c.f.s. from China Creek, tributary to Klamath river. Est. cost, \$4000.

App. 7755 (Siskiyou Co.) L. S. Bonney, Happy Camp, for 1 c.f.s. from Spring Creek tributary to Klamath river, for mining and domestic purposes. Est. cost, \$300.

App. 7756 (Eldorado Co.) B. W. Stone, San Francisco, for 500 c.f.s. and 125,000 ac. ft. per annum from Rubicon river and other sources, tributary to American river, for municipal purposes.

App. 7757 (San Diego Co.) E. Akin Harper, Julian, for 200 gals. per day from an unnamed spring tributary to Vallecitos creek, for domestic purposes.

App. 7758 (Placer Co.) J. H. Stephens, Sacramento, for 115 c.f.s. and 16,000 ac. ft. per annum from stream tributary to North Fork of American river, for mining purposes.

App. 7759 (Shasta Co.) Edw. Tobin, 3701 Balfour Ave., Oakland, for 8 c.f.s. from Left and Right South Fork of East Fork of Clear creek, tributary to Clear creek, for mining and domestic purposes.

App. 7760 (Sierra Co.) N. J. Laughlin, Downieville, for 3 c.f.s. from Secret canyon, tributary to South Fork of North Fork of Yuba river, for mining and domestic purposes. Est. cost, \$100.00.

App. 7761 (Siskiyou Co.) V. Grace, Happy Camp, for 75 c.f.s. from East Fork Indian Creek, tributary to the Klamath river, for mining purposes. Est. cost, \$30,000.

App. 7762 (Kern Co.) Glen Olive Co., Los Angeles, for 0.2 c.f.s. from Clear creek, tributary to Kern river, for mining and domestic purposes. Est. cost, \$5,000.

App. 7763 (El Dorado Co.) B. W. Stone, 161 Ellis St., San Francisco, for 500 c.f.s. and 125,000 ac. ft. per annum from Rubicon river and other sources, for power purposes; 220,000 theoretical hp. to be developed.

App. 7764 (Placer Co.) B. Warren Stone, 161 Ellis St., San Francisco, for 200 c.f.s. and 150,000 ac. ft. per annum from Middle Fork of American river, tributary to American river, for power purposes; 112,500 theoretical hp. to be developed.

App. 7765 (Placer Co.) B. Warren Stone, 161 Ellis St., San Francisco, for 500 c.f.s. and 400,000 ac. ft. per annum from American river; for irrigation purposes on 175,000 acres.

App. 7766 (Placer Co.) B. Warren Stone, 161 Ellis St., San Francisco, for 500 c.f.s. and 400,000 ac. ft. per annum from American river, for municipal purposes in various cities and towns.

App. 7767 (Sierra Co.) U. S. Tahoe National Forest, Nevada City, for 7-100 gals. per day from an unnamed spring, tributary to North Fork of the Yuba river, for industrial and recreational purposes.

App. 7768 (Trinity Co.) J. W. Charge Chico, for 5 c.f.s. from North Fork of Swift Creek, tributary to Trinity river, for mining purposes.

App. 7769 (Sierra Co.) Max A. Pokorney, La Porte, for 48 c.f.s. from tributaries to Canyon and Slate creeks all tributary to Yuba river, for mining purposes.

App. 7770 (Amador Co.) P. H. Norboe, Sacramento, for 225,000 ac. ft. per annum from Cosumnes river, tributary to Mokelumne river, for power purposes.

App. 7771 (Amador Co.) P. H. Norboe, Sacramento, for 225,000 ac. ft. per annum from Cosumnes river, tributary to Mokelumne river, for municipal purposes.

SACRAMENTO.—Permits to appropriate water issued by the Department of Public Works, Division of

Water Resources, during the month of November, 1933:

Permit 4214, Application 7562 (San Bernardino Co.) issued to Katherine E. Purser, Montebello, No. 1, for 0.02 cu. ft. per second from an unnamed spring, for irrigation and domestic purposes. Est. cost, \$500.

Per. 4215, App. 7641 (Sutter County) Natomas Co., Sacramento, Nov. 1, for 50 cu. ft. per second from Sacramento river, for irrigation purposes. Estimated cost, \$10,000.

Per. 4216, App. 7605 (Nevada Co.) F. A. Crampton, Nevada City, Nov. 2, for 3 cu. ft. per second from North Fork of Steep Hollow, for mining purposes. Est. cost, \$300.00.

Per. 4217, App. 7696 (Nevada Co.) F. D. Boyce, Nevada City, Nov. 2, for 3 cu. ft. per second from North Fork of Steep Hollow, for mining purposes. Est. cost, \$300.00.

Per. 4218, App. 6471 (Nevada and Sierra Counties) Chas. H. Munro, San Francisco, Nov. 8, for (1) 157.5 cu. ft. per second; (2) 50 cu. ft. per second and (3) 25 cu. ft. per second from (1) Middle Fork Yuba river; 2) Bloody run and Wolf creek, for mining purposes. Est. cost, \$232.50.

Per. 4219, App. 7669 (Lassen Co.) Ora Willard, Susanville, Nov. 8, for 1200 gals. per day from Willard creek, for domestic purposes. Est. cost, \$650.00.

Per. 4220, App. 7598 (Yolo Co.) Russell Bros., Knights Landing, Nov. 10, for 2.25 cu. ft. per second from Sacramento river, for irrigation purposes. Est. cost, \$6000.

Per. 4221, App. 7572 (San Bernardino Co.) Mrs. Etta B. Willoughby, Lucerne Valley, Nov. 10, for 0.02 cu. ft. per second from 3 unnamed springs, for irrigation and domestic purposes. Est. cost, \$325.00.

Per. 4222, App. 7564 (Placer County) Mrs. Jane Amundsen, Sacramento, Nov. 13, for 16,000 gals. per day from a small stream, for irrigation and domestic purposes. Est. cost, \$500.00.

Per. 4223, App. 7665 (Sierra Co.) H. W. Butler, care R. F. Taylor, Downieville, Nov. 13, for 0.1 cu. ft. per second, from an unnamed ravine, for irrigation and domestic purposes. Est. cost, \$500.00.

Per. 4224, App. 7670 (El Dorado Co.) G. W. Peltier, Sacramento, Nov. 16, for 40 ac. ft. per annum from Dry Creek, for mining and domestic purposes. Est. cost, \$2500.00.

Per. 4225, App. 7589 (Los Angeles Co.) H. W. Mills, Glendale, Nov. 16, for 1.55 cu. ft. per second from Gleason Canyon creek, for mining and domestic purposes. Est. cost, \$500.00.

Per. 4226, App. 7675 (Siskiyou Co.) Tea Bar Mines, Inc., Seattle, Nov. 16, for 3 cu. ft. per second from Johnson or Sawmill creek, for mining purposes. Est. cost, \$250.00.

Per. 4227, App. 7250 (Nevada Co.) Edward Bickel, Nevada City, Nov. 23, for 25 cu. ft. per second from South Fork of Little Deer Creek, for mining and domestic purposes.

Per. 4228, App. 7686 (Humboldt Co.) W. V. Hunt, Arcata, Nov. 24, for 2.45 cu. ft. per second from Mad River, for irrigation and domestic purposes. Est. cost, \$2500.00.

Per. 4229, App. 7644 (Plumas Co.) Harry Schwarzer, Feather Falls, Nov. 28, for 2.5 cu. ft. per second from Pinkhard Creek, for mining purposes. Est. cost, \$600.00.

Per. 4230, App. 7657 (Yuba Co.) A. H. Tyler, Sacramento, Nov. 28, for 0.075 cu. ft. per second from an unnamed spring, for irrigation and domestic purposes.

Per. 4231, App. 7699 (Tehama Co.) C. W. Griffin, Bend, Nov. 29, for 1.75 cu. ft. per second from Sacramento river, for irrigation and domestic purposes.

24—STREET LIGHTING SYSTEM

LOS ANGELES, Cal.—W. H. Rumble, 6507 Haas Ave., at \$47,996 submitted low bid to the Los Angeles Board of Public Works Dec. 6 for the construction of an ornamental lighting system in Olympe Blvd. between Rimpau and Robertson Blvds., under cash contract, involving Southwest Lighting Co.'s No. 436 cast iron ornamental lighting posts equipped with Luminaire No. 634, complete. Other bids were:

Fritz Ziebarth	\$48,311
Osborn Company	50,480
Walker & Martin Corp.	50,848
R. C. Spillsbury	50,894
H. H. Walker, Inc.	53,164
Engineer's estimate	49,672

ANAHEIM, Cal.—Until Dec. 26, 8 P. M., bids will be received by the City of Anaheim for furnishing materials for reconstructing the municipal lighting system, involving:

- (1) 85,000 ft. No. 20 single conductor copper wire;
- (1A) 60,000 ft. No. 2 triple braid single conductor copper wire;
- (2) 140 cedar piles; 40 to 60 ft. range, creosoted;
- (3) 3500 ft. lead sheath cable, No. 4-0;
- (3-A) 1412 ft. lead sheath cable, No. 2;
- (4) 300 ft. 3-in. inside diameter metal conduit;
- (4-A) 240 ft. 2-in. inside diameter metal conduit;
- (5) 12 3-conductor pot heads KV-5;
- (5-A) 25 3-conductor pot heads;
- (6) 4500 ft. 4-in. non-metal underground conduit;
- 6-A) Alternate to item 6, 3 1/2-inch;
- (6-B) Alternate to item 6 3-inch.

John Price, City Clerk. Certified or cashier's check, 10 per cent. E. P. Hapgood, city engineer; J. Edward Brown, 1719 Arcadia Ave., San Gabriel, consulting engineer.

The city has been allotted \$15,000 by the Federal Administration of Public Works toward the cost of the project which is estimated at \$51,000. Permission to do the work by force account has been requested from the PWA.

SAN FRANCISCO.—Globe Electric Works, 1899 Mission St., at \$21,889 submitted low bid to the Board of Public Works, S. J. Hester, Deputy Director, Room 251, City Hall, for lighting of Sunset Blvd. from South Drive in Golden Gate Park to Skyline Blvd. Complete bids follow:

Gobe Electric Works	\$21,889
Severin Electric Co.	22,189
Alta Elec. & Mechanical Co.	22,825
Central Electric Co.	22,850
H. C. Reid & Co.	22,920
Radelfinger Bros.	23,000

The bid of the H. S. Tittle Co. was not considered as it was not accompanied by a certified check and was therefore irregular. Engineer's estimate, \$20,000.

25—MACHINERY AND EQUIPMENT

PORTLAND, Ore.—Hesse-Ersted Iron Works, Portland, at \$2335 (2%) awarded contract by U. S. District Engineer, Portland, Oregon, for hoisting engine, Pro. 206. Other bidders were: Williamette Iron Steel Works, Portland, \$2650; Washington Iron Works, Seattle, \$2700, 1/2%; Skagit Steel & Iron Works, Sedro-Wooley, Wash., \$2785, 1%; Western Loggers Machinery Co., Portland, \$2795, 1%; Clyde Equip. Co., Portland, \$2935, 3%; Commercial Iron Works, Portland, \$2869; American Hoist & Derrick Co., St. Paul, \$3526.

LOS ANGELES, Cal.—Bids for furnishing on a rental basis air compressor and rock hammer, Bid No. MJP 163, were opened by the U. S. Forest Service, Los Angeles, December 7. The bids were taken as follows:

- (1) Air compressor, portable, gasoline operated, mounted on wheels, capacity 230 to 240 cu. ft. per min.
- (2) Same; capacity 300 to 310 cu. ft. per minute.
- (3) Two dry rock hammers for above compressors, capable of hauling 7/8-in. hollow hexagon.

All bids on a calendar month basis. The bids were:

Harry C. Collins, (2) \$300 per month.
Brown-Bevis Co., (2) \$310; (3) \$35 month each.
Pneumatic Machinery Co. (1) \$225, 1st month, \$200 2nd month; (2) \$175; (3) \$35.
Leigh M. Railsback (1) \$235; (2) \$290.
Emsco Concrete Cutting Co. (1) \$310; (2) \$400.
California Equipment Co., (1) \$235; (2) \$310; (3) \$35.
Bevis Machinery Co., (1) 185; (3) \$20.
Crook Co., (2) \$310; (3) \$35.
B. W. Kuhn, (1) \$235; (2) \$315; (3) \$20.
Smith-Booth-Usher Co., (1) \$286.75; alt. \$260; (2) \$235; (3) \$35.
T. W. Haigh, (1) \$235; (2) \$235.
The Rix Co., (1) \$268.75, alt. \$235; (2) \$345, alt. \$310; (3) \$35.
Garlinghouse Bros., (1) \$268.75, alt. \$235; (2) \$310; (3) \$40.25 and \$35.

LOS ANGELES, Cal.—Concrete Machinery & Supply Co., 777 E. Gage Ave., Los Angeles, at \$1617 awarded contract by Saul A. Joseph, Purchasing Agent, Metropolitan Water Dist., December 7, for furnishing gunitors under Bid No. 19321.

Cement Gun Co., submitted only other bid at \$1700.

MONTEREY, Cal.—George B. Petersen, at \$3664.38 awarded contract by the Board of Trustees of Monterey Union High School District, for furnishing one new 36-42 passenger Indiana Model 14B and Gibson 26-inch school bus. The bids were opened December 2.

MINIDOKA, Idaho.—Following combination bids received by the Bureau of Reclamation, Denver, for pumping unit and electrical apparatus for new Unit No. 2 in south side pumping station No. 3, Minidoka project:

United Iron Works, pump 360-rpm., \$5,966.50; Westinghouse or Elec. Machinery Mfg. Co., motor, \$7,010.70; Lexington Elec. Prod. Co., control, \$420.60; total \$13,397.26.

Worthington Pump & Mach. Corp., pump, 400-rpm. \$7,022.63; motor, \$6,248.70; Lexington Elec. Prod. Co., control, \$420.06; total, \$13,691.39.

Morris Mach. Works, pump 450-rpm., \$7,835.60; Westinghouse or Elec. Mach. Mfg. Co., motor, \$5,651.70; Lexington Elec. Prod. Co., control, \$420.06; total \$13,907.36.

Morris Mach. Works, pump, 514-rpm., \$7,835.60; Westinghouse or Elec. Mach. Mfg., motor, \$5,646.70; Lexington Elec. Prod. Cor., control, \$420.06; total, \$13,902.36.

LOS ANGELES, Cal.—Bids for furnishing seven crawler type tractors on a rental basis, under MJP-162, were opened by the U. S. Forest Service, Los Angeles, December 7. The bids were:

Smith Booth Usher Co.—"35"—"40", \$357 and \$327 month; "60", \$556.
Robinson-Roberts Co.—"60", \$545.
L. M. Railsback—"60", \$625; alt. "60", \$645.
Creek Co.—"35", 327; "50", \$400; "50" \$375; "60", \$427.
Kuhn Bros.—"60", \$298.
Ashbury Truck Co.—"35"—"40", 2 at Culvert pipe.

\$380; "50", 4 at \$425; "60", 4 at \$450.

Bids on the graders were not opened as the department will not require the equipment.

LOS ANGELES, Cal.—Bids for furnishing on a rental basis one power, gasoline-operated shovel, dipper type bucket, capacity ¾ cu. yd., under MJP No. 164, were opened by the U. S. Forest Service, Los Angeles, December 7. The bids were:

- Frank T. Hickey, \$300 month.
- Lelgh M. Railsback Co., \$375 month; revolving model K, \$425.
- B. W. Kuhn, \$285 month.
- Garlinghouse Bros., \$460 month.
- J. F. Price, \$250.

INDIO, Cal.—Bids for furnishing a motor-grader f.o.b. Indio, Quotation No. 17,279, Requisition No. 209, were opened by the State Purchasing Agent, Sacramento, December 7. The bids which were identical, were:

- Austin-Western Road Machinery Co. Austin-Western Jr. 77, \$3319.
 - Smith Booth Usher Co.—Gallon EZ Lift Motor Patrol, \$3319.
 - Concrete Machinery Co. — Austin-Western Jr. 77, \$3319.
- All bids less 2% in 30 days.

SACRAMENTO, Cal. — Peterson & Isgren, 1236 E. Roosevelt St., Stockton, at \$1300 (\$6.50 per hr.) submitted low bid to the U. S. Engineer Office, Sacramento, for furnishing and operating one caterpillar tractor and one scraper for use as directed by the contracting officer, in raising and strengthening the southerly levee of the American River between the Western Pacific Railroad and 12th St. in Sacramento, and downstream therefrom as required. A. Teichert & Son, Sacramento, at \$1600 (\$8.00 per hour) submitted the only other bid. Engineer's estimate, \$8.07.

WAPATO, Wash. — Ruth Dredger Mfg. Corp., 5980 Boyle, Los Angeles, at \$12,750 submitted low bid to the U. S. Indian Irrigation Service, Wapato, Wash., for furnishing one canal cleaning machine, complete. Standard steed Works, Los Angeles, at \$15,-600 submitted only other bid.

LOS ANGELES, Cal.—Bids for furnishing tractors and trail-builders on a rental basis under Request No. MJP 170 were received by the U. S. Forest Service, 751 S Figueroa St., Los Angeles, Dec. 8, as follows:

Smith, Booth, Usher—(1) 2 tractor trail-builders at \$452 each per month; (2) 1 trail-builder at \$150 and 1 at \$125 per month; (4) 1 trail-builder at \$175 per month.

Kuhn Bros.—(1) 2 at \$460 each per month; (4) 1 at \$500 per month.

B. W. Kuhn—(1) 2 at \$460 each per month, using control cable trail-builder; (4) 1 at \$300 per month with control cable.

Crook Co.—(1) 2 at \$452 per month, each; (2) 1 at \$175 per month (new) and 1 reconditioned at \$150 per month.

Mack Woodriddle Co.—(1) 2 at \$452 each per month; (2) 1 at \$125 per month; (3) 3 at \$150 each per month; (4) 3 at \$175 each per month.

RIVERSIDE, Riverside Co., Calif.—All bids for water pipe, sewer pipe, sewage pumps, deep well turbine pumps and pressure tanks for the water and sewer systems at the County Hospital, Arlington, opened December 4, have been rejected by the Riverside County Supervisors. J. H. Chase, Security Title Bldg., Riverside, is the engineer.

BOULDER CANYON, Nevada—Following is a complete list of bids received by the Bureau of Reclamation, Denver, Colo., November 15, under Spec. No. 548:

- (1) 8 100 ft. by 16 ft. drum gates;
- (2) Drum gate control mechanisms for 8 drum gates;
- (3) Items 1 and 2 combined.

The bids are:

- Nashville Bridge Co. (1) \$159,870, f.o.b. Bessemer, Ala.
- McClintic-Marshall Co. (1) \$167,700, f.o.b. Chicago.
- American Bridge Co. (1) \$168,000 f.o.b. Gary, Ind.
- Ingalls Iron Works Co. (1) \$169,650, f.o.b. Birmingham, Ala.
- Babcock & Wilcox Co. (1) \$170,400 f.o.b. Baberton.
- Midland Struc. Steel Co. (1) \$169,819, f.o.b. Cicero, Illinois.
- Lakeside Bridge & Steel Co. (1) \$175,000, f.o.b. Milwaukee, Wis.
- Consolidated Steel Corp. (1) \$178,000; (2) \$3800; (3) \$181,500, f.o.b. Los Angeles.
- Virginia Bridge & Iron Co., (1) \$184,800.
- Mississippi Valley Structural Steel Co. (1) \$236,160, f.o.b. Melrose Park, Ill., and \$278,580 f.o.b. Boulder City.
- Wallace Bridge & Structural Steel Co. (1) \$274,000 f.o.b. Seattle.
- Thomas Spacing Machine Co., Pittsburgh, Pa., (2) \$4906.
- American Locomotive Co. (1) \$284,961; (2) \$5896; (3) \$290,000 f.o.b. Dunkirk, New York.
- Dravo Contracting Co. (1) \$229,450; 2) \$7300; 3) \$236,000, f.o.b. Pittsburgh Pa.; 1) \$276,500; 2) \$7950; 3) \$283,700, f.o.b. Boulder City.
- Newport News Shipping & Dock Co. (1) 310,585; (2) \$7710, f.o.b. Newport News, Va.
- Treadwell Constr. Co. (1) \$186,000; (2) \$5088; (3) \$191,888, f.o.b. Midland, Pa. (1) \$238,800; (2) \$5418, f.o.b. Boulder City.
- Consolidated Steel Corp. (1) \$195,000; (2) \$3800, f.o.b. Boulder City.
- Aldrich Pump Co. (2) \$4380, f.o.b. Allentown.
- Ingalls Iron Works Co. (1) \$216,900, f.o.b. Boulder City.
- Stacey-Schmidt Mfg. Co., (2) \$5800 f.o.b. York, Pa.
- Stearns-Rogers Mfg. Co. (1) \$216,790; (2) \$4700; (3) \$220,780, f.o.b. Denver, Colo. (1) \$229,600; (2) \$4964; (3) \$231,790, f.o.b. Boulder City.
- Independent Bridge Co. (12) \$244,400, f.o.b. Boulder City.
- Omaha Steel Works (1) \$232,700; (2) \$4350; (3) \$236,900, f.o.b. Omaha. (1) \$258,200; (2) \$4862, f.o.b. Boulder City.
- Vernon Tool Co. (2) \$5092.75 f.o.b. Los Angeles.
- Joshua-Hendy Iron Wks (2) \$4950 f.o.b. Sunnyvale.
- Western Pipe & Steel Co. (1) \$265,282, f.o.b. Los Angeles.
- Eartlett-Hayward Co. (2) \$4680, f.o.b. Baltimore.
- Worden-Allen Co. (1) \$219,700 f.o.b. Boulder City.
- John W. Bean (1) \$245,000; (2) \$5000, f.o.b. Peotone, Ill.
- Milwaukee Bridge Co. (1) \$224,800 f.o.b. Milwaukee, Wis.
- Moore Dry Dock Co. (1) \$269,800 f.o.b. Oakland.
- American Bridge Co. (1) \$208,200 f.o.b. Boulder City.

SACRAMENTO, Cal.—The following bids were received by the State Bureau of Purchases, Sacramento, under Quotation 18739, Req. 1145½ for two motor graders, 1-man, scarifier attached, for Division of Highways Shop S, San Bernardino:

- Austin Western Co., Model TT Jr., \$2699 each.
- J. D. Adams Co., Adams 30L, \$2944 each.
- Smith-Booth-Usher, Gallon EZ Lift, \$2944 each.
- Spear Wells Co., Spearwell Bid 8, \$2804.50 each.
- Garlinghouse Bros., Wehr Improved 1½, \$3053.50 each.

Associated Engineering Co., Rome 20-1, \$3067 each.

Concrete Machinery Co., Austin 77 Jr., Dual, \$3099 each.

Concrete Machinery Co., Austin 77 Jr., Dual, \$2699 each.

Austin Western Co., Austin 77 Jr., Dual, \$3099.

Hulse Anderson Co., Cat Arto Patrol Model 10, \$3554.

28—FIRE EQUIPMENT

COALINGA, Cal.—Until January 2, 5 P. M., bids will be received by the City Clerk for the City Council, City Hall, Coalinga, as follows:

- (1) TRUCK CHASSIS: A one and one-half-ton truck chassis of 157-in. wheel base, equipped with dual rear tires and overload springs.
- (2) FIRE PUMP: One 350-gallon per minute fire pump with fittings to connect on Standard Truck Chassis as described above. Said pump to have 2½-in. National Standard thread.

E. J. McCroskey, City Clerk, Coalinga.

30—RESERVOIRS & DAMS

SANTA CLARA, Cal.—The Board of Directors of the Santa Clara Valley Water Conservation District has authorized an application to the Federal Public Works Administration for a grant of \$720,000. The Directors plan to dispose of a \$2,000,000 bond issue to complete the financing if the grant is approved. The application is supplemental to a previous request already filed.

MARCH FIELD, Riverside Co., Cal.—H. G. Klusman, 154 N Archibald Ave., Cucamonga, at \$9,000 awarded contract by the Constructing Quartermaster, March Field, December 8, for the construction of a 400,000-gal. concrete reservoir, with piping, at March Field. Bid No. W 6694-QM-34-9.

BONNEVILLE, Oregon—Until December 21, 3 P. M., bids will be received by the U. S. Engineer Office, Major C. F. Williams, District Engineer, 306 Customhouse, Portland, under Schedule Form A, No. 34-305, to construct and maintain earth fill cofferdams, a cofferdam sluiceway, a railroad grade crossing, grade and surface about 1.0 mile of roadway, excavate and dispose of about 1,300,000 to about 1,600,000 cu. yds. of material from the site of the Bonneville powerhouse and navigation locks, and construct a 300-man camp. The work involves:

SCHEDULE 1 — ROADWAY, COFFERDAMS, POWERHOUSE

- (1) 25 acres clear and grub, powerhouse excavation;
- (2) 800,000 cu. yds. Class 1, common;
- (3) 20,000 cu. yds. Class 2, solid rock Cofferdam excavation;
- (4) 15,000 cu. yds. Cofferdam "A";
- (5) 8000 cu. yds. Cofferdam "B";
- (6) 1,000,000 sta. yds. overhaul; Impervious fill;
- (7) 45,000 cu. yds. Cofferdam "A";
- (8) 22,000 cu. yds. Cofferdam "B";

Fill:

- (9) 65,000 cu. yds. Cofferdam "A";
 - (10) 30,000 cu. yds. Cofferdam "B";
- Borrow:**
- (11) 8000 cu. yds. Cofferdam "A";
 - (12) 4000 cu. yds. Cofferdam "B";
 - (13) 18,000 cu. yds. Powerhouse;
 - (14) 2,000 000 A ft. x ft. pumping;
 - (15) 52 Stations roadway grading;

SCHEDULE 1—ROADWAY, ETC.

- Borrow (cont.):**
- (16) 52 stations two course macadam;
- (17) 1 job Cofferdam sluice and grade crossing;
- (18) 35,000 cu. yds. powerhouse fill;
- (19) 25,000 sq. ft. camp buildings;

- (20) 120 lin. ft. 12-inch;
 (21) 180 lin. ft. 18-inch;
 (22) 120 lin. ft. 36-inch;
SCHEDULE 2—BARGE LOCKS
 (23) 27 acres clear and grub;
 Excavation:
 (24) 376,000 cu. yds. Class 1, common;
 (25) 63,000 cu. yds. Class 2, solid rock;
 (26) 1,000,000 sta. yds. overhaul;
SCHEDULE 3—SHIP LOCKS
 (27) 30 acres clear and grub;
 Excavation:
 (28) 820,000 cu. yds. Class 1, common;
 (29) 117,000 cu. yds. Class 2, solid rock
 (30) 3,000,000 sta. yds. overhaul.

Drawings and specifications may be seen at Room 341 Pittrock Block, Portland, Oregon. Combination bids will be received on a total of Schedules 1 and 2, and Schedules 1 and 3.

31—PIPE LINES & WELLS

MARCH FIELD, Cal.—W. A. Rice, 3595 Larchwood St., Riverside, at \$2637.50 (using cable tool method) was awarded contract by the War Department, Washington, D. C., for drilling and testing a gravel wall well at March Field. Spec. No. W-664-QM-34-8. The proposed well will be 261 feet in depth, 14 inches inside diameter, with 26-in. outside casing to a depth of 50 ft. with gravel pack wall.

32—SEWERS & SEWAGE DISPOSAL PLANTS

BURBANK, Cal.—The Federal Administration of Public Works has allotted \$125,000 to the City of Burbank, to aid in financing the construction of the Valley intercepting sewer system. The project is still in a preliminary state, much field work being yet to be done. The approximate quantities of pipe are:

- (1) 15,500 ft. 10-in. vitrified clay;
- (2) 17,500 ft. 12-in. do;
- (3) 3,700 ft. 14-in. do;
- (4) 9,800 ft. 15-in. do;
- (5) 6,000 ft. 18-in. do;
- (6) 4,900 ft. 20-in. do;
- (7) 3,000 ft. 24-in. do;

H. I. Stites, City Engineer.

ONTARIO, Cal.—Bonds in the amount of \$60,000 to finance the repayment of a Federal loan for the construction of an activated sludge type sewage disposal treatment plant and new outfall sewers were voted by the City of Ontario at the special election held December 5. Application has been made to the Federal Public Works Administration for a loan of \$60,000 and a grant of \$20,000 to cover the cost, estimated at \$80,000. The proposed work involves:

DISPOSAL PLANT

- (1) 6400 cu. yds. excav.;
- (2) 1193 cu. yds. concrete;
- (3) 58.6 tons reinf. steel;
- (4) 15,160 sq. ft. cement finish;
- (5) 10,000 sq. ft. sludge bed;
- (6) carpentry and millwork;
- (7) cast iron pipe and fittings;
- (8) gals. iron pipe and fittings;
- (9) miscellaneous iron;
- (10) painting;

OPERATING EQUIPMENT

- (1) 1 rectangular clarifier;
- (2) 1 circular clarifier;
- (3) 1 digester mechanism;
- (4) 5 blowers and motors;
- (5) 430 sq. ft. diffuser plates;
- (6) 1 chlorinator;
- (7) 1 scales;
- (8) 1 water heater and tank;
- (9) 2 centrifugal pumps and motors;
- (10) 1 plunger pump and motor;
- (11) switchboard and wiring;
- (12) placing equipment and piping.

OUTFALL SEWERS

- (1) 1200 ft. 18-in. vit. clay sewer pipe, average depth 6 ft.;
- (2) 1450 ft. 15-in. do;
- (3) 5 manholes.

Currie Engineering Co., 219 Anderson Bldg., San Bernardino, Consulting Engineer.

MAXWELL, Colusa Co., Cal.—The Colusa County Board of Supervisors has set January 8 as the date for holding a hearing on the formation of a water and sewer district for Maxwell.

LOS ANGELES, Cal.—Nick Vlach, 3027 Carlyle Ave., Los Angeles, at \$24,352.40 (ARL. B) and at \$26,571.50 (Alt. A) submitted low bid to the Los Angeles County Supervisors, December 11, for constructing a storm drain along the north roadway of Huntington Drive between Halstead St. and Eaton Wash, near San Marino and Arcadia. Cash Contract 461.

33—WATERWORKS

FRESNO, Fresno Co., Cal.—Federal Administration of Public Works has allotted \$25,500 to the Fresno County Water Works District No. 2, to aid in constructing extensions to the water supply system. The work involves:

- (1) 6640 ft. 4-in. cast iron pipe;
- (2) 8850 ft. 6-in. do;
- (3) 3260 ft. 8-in. do;
- (4) gate valves;
- (5) service connections and fittings;
- (6) 1 deep well turbine pump, 60-ft. 20-hp.

The existing standpipe at the Bulard Mutual Water District will be used. A. Segal, 428 Cory Bldg., is the engineer.

SANTA CRUZ, Santa Cruz Co., Cal.—Pittsburgh-Des Moines Steel Co., Rialto Bldg., San Francisco, at \$25,310 awarded contract by the Santa Cruz City Council December 9 for furnishing and erecting two steel water tanks 1,000,000 gallons each, 108 ft. 4-in. in diameter and 16 ft. 6 in. high, with all necessary flange connections, ladders, opening, manholes, overflows, cupola, tell-tale indicators and floats. Complete bids follow:
 Pittsburgh-Des Moines Steel Co., San Francisco, \$25,310.
 Chicago Bridge & Iron Works, San Francisco, \$27,950.
 Western Pipe & Steel Co., San Francisco, \$28,340.

SANTA CRUZ, Santa Cruz Co., Cal.—United States Cast Iron Pipe Co., Monadnock Bldg., San Francisco, at \$38,867.92 awarded contract by the Santa Cruz City Council for furnishing 15,444 lin. ft. 14-in. cast iron pipe, Class 100; 5,690 lin. ft. 10-in. cast iron pipe, Class 150; and miscellaneous fittings and valves. Following bids received:

United States Cast Iron Pipe Co., San Francisco, \$38,868.92.
 American Cast Iron Pipe Co., San Francisco, \$40,116.42.
 Rensselaer Valve Co., San Francisco, (valves only), \$984.07.
 R. G. Wood Co., San Francisco, (partial bid), \$38,390.79.
 Ludlow Valve Mfg. Co., (valves only) \$1,754.87.
 Waterworks Supply Co., San Francisco, (valves only), \$1,233.12.
 R. E. Olsen (fittings only), \$890.00.
 Walworth-California Co., San Jose, (valves and fittings), \$1,837.12.

LOS ANGELES, Cal.—Bids for furnishing water tank, pipe lines, and miscellaneous fittings for hydraulically operated valves for San Gabriel Dam No. 2, were opened by the Los Angeles County Supervisors, December 11. Bids were received from the following: Crane Co.; Grinnell Co.; Petroleum Equipment Co.; Hacker Pipe & Supply Co.; California Pipe & Supply Co.; Ducommun Corp.; Midwest Pipe & Supply Co. and Hickey Pipe & Supply Co.

CALAVERAS COUNTY, Cal.—The Calaveras County Board of Supervisors has set January 16, 1934, as the date for holding a special election to vote on the formation of the Calaveras Public Utility District.

If the utility district is authorized at the election, it is proposed to purchase Mokelumne Hill Power & Water Co. System, and to make necessary improvements. The estimated cost is \$130,000.

34—PARKS AND PLAY-GROUNDS

BEVERLY HILLS, Los Angeles Co., Cal.—Bids for fencing the city water plants were opened by the Beverly Hills city council Dec. 5. Bids were as follows:

Anchor Post Fence Co.—Approximately 601 ft. fence (exclusive of gates and panels) \$1.86 lin. ft.; 98½ ft. gates, \$5.90 lin. ft.; 60 ft. removable panels, \$4.90 lin. ft.; 16 3-in. o.d. corner posts, \$14.60 each; 8 3-in. o.d. end posts, \$11 each; 10 4-in. o.d. gate posts (for double gates) \$15.70 each; 10 3-in. o.d. gate panels (for single gates) \$11 each; 7 3-in. o.d. panel posts (for removal sides), \$11 each.

Standard Fence Co.—601 ft. fence (exclusive of gates and panels) \$1.86 lin. ft.; 98½ ft. gates, \$5.90 lin. ft.; 60 ft. removable panels, \$4.90 lin. ft.; 16 3-in. o.d. corner posts, \$14.60 each; 8 3-in. o.d. end posts, \$11 each; 10 4-in. o.d. gate posts, \$15.70 each; 10 3-in. o.d. gate posts, \$11 each; 7 3-in. o.d. panel posts, \$11 each.

Crown Fence & Supply Co.—601 ft. fence (exclusive of gates and panels) \$1.86 lin. ft.; 98½ ft. gates, \$5.90 lin. ft.; 60 ft. removable panels, \$4.90 lin. ft.; 15 3-in. o.d. corner posts, \$14.60 each; 8 3-in. o.d. end posts, \$11 each; 10 4-in. o.d. gate posts, \$15.70 each; 10 3-in. o.d. gate posts, \$11 each; 7 3-in. o.d. panel posts, \$11 each.

Pacific Fence Const. Co.—601 feet fence (exclusive of gates and panels) \$1.86 lin. ft.; 98½ ft. gates, \$5.90 lin. ft.; 60 removable panels, \$4.90 lin. ft.; 16 3-in. o.d. corner posts, \$14.60 each; 8 3-in. o.d. end posts, \$11 each; 10 4-in. o.d. gate posts, \$15.70 each; 10 3-in. o.d. gate posts, \$11 each; 7 3-in. o.d. panel posts, \$11 each.

Los Angeles Fencing Co.—601 feet fence (exclusive of gates and panels) \$1.86 lin. ft.; 16 corner posts, \$14.60 each; 8 end posts, \$11 each; 7 4-in. panel posts, \$15.70 each; 3-in. o.d. posts, \$11 each; 98½ ft. 2-in. o.d. frames, \$5.90 lin. ft.; 60 ft. removable panels, \$4.90 lin. ft.

Bids taken under advisement.

SACRAMENTO, Cal.—The following firms submitted identical bids at \$4.38 per lin. ft. for gates; \$1.13 per lin. ft. for fence; \$9.36 each for end posts; \$12.67 each for corner posts; \$9.36 each for gate posts, and \$3.00 per lin. ft. for erection, to Sacramento Board of Education for furnishing and erecting approximately 2,059 ft. of chain link fence and gates at the Kit Carson Junior High School, located at 51st and M Streets:

Azevedo & Sarmento, Sacramento;
 Campbell Const. Co., Sacramento;
 Emigh Hardware Co., Sacramento;
 Edward R. Jamieson, Sacramento;
 W. C. Keating, Sacramento;
 Markwart Company;
 Thomson-Diggs, Sacramento;

Anchor Post Fence Co., San Francisco
 Crown Fence Co., San Francisco;
 Michel & Pfeffer Iron Works, S. F.;
 Standard Fence Co., San Francisco.
 Bids held under advisement until December 26.

29—STREETS AND HIGHWAYS

LINCOLN COUNTY, Wash.—Halleran Bros., Seattle, at \$33,871 awarded contract by the Washington State Division of Highways, Olympia, for grading and surfacing about 2.2 miles of State Road No. 7, Lanona West, Project No. NRH 139-B, in Lincoln County.

Colluccio, Seattle, at \$34,900, second low bidder; March Const. Co., Spokane, \$35,882, third.

SAN GABRIEL, Cal.—Until December 19, 8 P. M., bids will be received by the San Gabriel City Council for improving portions of fifteen city streets. Estimated cost, \$54,000. Application has been made to the CWA for funds. The proposed improvement will be bitumuls armor coat paving.

KING COUNTY, Wash.—Northwest Const. Co., 3950 Sixth Ave. N. W., Seattle, at \$18,597 awarded contract by the Board of County Commissioners, Seattle, for the construction of 1.51 miles of the Factoria-Wilburton road on the east side of Lake Washington.

Modification from the original specifications were agreed to, to bring the amount of the bid within the appropriation.

PIERCE COUNTY, Wash.—Albertson & Cornell Bros., Tacoma, at \$102,662 awarded contract by Director of Highways, L. V. Murrow, Olympia, for paving with Portland cement concrete about six miles of State Road No. 1, Ponders to Fort Lewis, National Recovery Highway Project No. NRH 171-A and Federal Land Project No. 4 in Pierce County.

Jos. Warter, Tacoma, at \$104,555.00 second low bidder; third, Paine and Gallucci, Tacoma, \$108,113.

LINCOLN AND SPOKANE COS., Wash.—L. Coluccio, 1638 Lane Street, Seattle, Wash., at \$79,151 awarded contract by the Washington State Division of Highways, Olympia, for grading and surfacing about 6.1 miles of State Road No. 11, Sprague to Cheney Revisions, Project No. NHR 133-D and NHR 20 in Lincoln and Spokane Counties. Clifton & Applegate, Spokane, Wash., at \$90,654, second low bidder; third, Triangle Construction Co., Spokane, at \$94,727.

PIERCE COUNTY, Wash.—Until December 20, 10 A. M., bids will be received by U. S. Bureau of Public Roads, W. H. Lynch, District Engineer, 316 New Postoffice Bldg., Portland, for resurfacing the White River Road Project, Nos. NR-3-B1, B2, B3, and applying oil rock on the Mt. Rainier National Park Road Project, Nos. NR-3A, B1, B2, B3, located within Mt. Rainier National Park, Pierce Co. The length of the project is approximately 15.515 miles, involving:

- (1) 5,075 cu. yds. unclass. excav.;
- (2) 9,200 tons crushed rock or crushed gravel bottom course;
- (3) 2,000 lin. ft. 12-in. reinf. concrete pipe;
- (4) 1,500 lin. ft. 6-in. vitrified tile underdrain;
- (5) 14,000 tons Class A supplemental crushed rock or crushed gravel;
- (6) 2,400 tons Class B do;
- (7) 3,800 tons Class C do;
- (8) 650 tons Class D do;
- (9) 3,500 tons Class E do.

Plans and specifications obtainable from above office upon a deposit of \$10.00.

SAN DIEGO, Cal.—Miracle Co., 4751 Monroe St., San Diego, at \$9690.23 submitted low bid to the Public Works

Officer, Naval Operating Base, 11th Naval District, San Diego, December 7, for improvement of Land Field (Oiling Area K), at the Naval Operating Base (Air Station), San Diego. Spec. No. 7572. The work will consist of the treating of an area indicated as "Area K" (approximately 58,300 sq. yds.) by grading, loosening of the soil, oiling, mixing and compacting to form an additional airplane runway. The other bids were:

Geo. Gardner & Sons, \$17125 sq. yd.
Chas. Hosladen, \$1769 sq. yd.
Walter Trepte, \$189 sq. yd.
Griffith Co., \$203 sq. yd.

The bids have been referred to Washington, D. C., for a ruling on the regularity of the Miracle Co.'s bid, the specifications having called for a unit price per sq. yd.

December 9, 1933

FORT MASON, Cal.—Until December 19, 10 A. M., bids will be received by the Constructing Quartermaster, Fort Mason, for repairing magazine and battery roads at Fort Mason.

Plans and specifications obtainable from above office upon deposit of \$5.

SEATTLE, Wash.—Haley, Jussel & Swanson, Seattle, submitted low bid to the Treasury Department on Dec. 8 at \$17,995 for grading lawn areas at the U. S. Marine Hospital, Seattle.

KITSAP COUNTY, Cal.—Queen City Const. Co., 603 18th Avenue south, Seattle, submitted low bid to L. V. Murrow, Director of Highways, Olympia, for paving with Portland cement concrete about 0.1 mile of State Road No. 21, Callow Ave. and 6th St., Bremerton, Kitsap County.

Award held under advisement.

PEND OREILLE CO., Wash.—All bids received by L. V. Murrow, Director of Highways, Olympia, for grading and surfacing about 8.1 miles of State Road No. 6, Blueslide to Tiger; surfacing about 0.6 mile of State Road No. 6, Ruby Creek Bridge approaches; and Jared - Ruby undercrossing approaches, all in Pend Oreille County, have been rejected. The work will be done by day labor.

LEWIS CO., Wash.—H. P. Dorsey & Co., 2006 State St., Bellingham, at \$47,475.05 submitted low bid to L. V. Murrow, Director of Highways, Olympia, for paving with Portland cement concrete about 0.9 mile of State Road No. 1, National Avenue in the city of Chehalis, Lewis County.

Award held under advisement.

GILLIAM COUNTY, Oregon—Northwest Roads Co., Portland, at \$6645 (using tar) awarded contract by Oregon State Highway Commission, for applying 9800 sq. yds. bituminous macadam and constructing 2300 lin. ft. concrete curbs and gutter, Arlington Section of the Columbia River Highway in Gilliam County. Complete bids follow:

Northwest Roads Co., Portland (1) using road oil, \$6705; (2) using tar, \$6645.
Newport Constr. Co., Portland (1) \$7926; (2) \$7676.30.
J. C. Compton, McMinnville (1) \$8125; (2) \$8025.
A. Milne, Portland (1) \$9577.50; (2) \$9347.50.

DOUGLAS COUNTY, Oregon—Theo. Arenz, Portland Oregon, at \$51,601.00 awarded contract by Oregon State Highway Commission, Portland, Ore., for grading and paving 0.95 mile of Winston Bridge Section of Pacific Highway in Douglas County. Complete bids follow:

Theo. Arenz, Portland \$51,601
Ernest C. Hall, Eugene \$55,735
G. I. Stebbins Constr. Co., Kla-

math Falls, Oregon \$57,156
Johnson & Pearce, Portland \$4952
The United Contracting Co., Portland \$66,598

MARCH FIELD, Riverside Co., Cal.—Until Dec. 21, 10 A. M., bids will be received by the Constructing Quartermaster, March Field, for oiling and grading additional area to Flight Mat, March Field. Spec. and plans No. W 6694-QM-34-17 may be obtained upon deposit of \$5.00.

HARNEY COUNTY, Oregon—Morrison-Knudson Co., Boise, Idaho, at \$116,907 awarded contract by Oregon State Highway Commission, Portland, for grading 3.76 miles of Stinking-water Mountain Section of Central Oregon Highway in Harney County. Complete bids follow:

Morrison-Knudson Co., Boise, Idaho \$116,907.00
E. L. McNutt, Eugene, Ore 119,294.50
Guthrie-McDougall Co., Portland 161,441.50
Joplin & Eldon, Portland 209,484.00

MADERA AND MARIPOSA COS., Cal.—Bureau of Public Works, San Francisco, recommended award to Heafey-Moore Co., 344 High St., Oakland, at \$172,289.20 for placing a crushed rock base course on Sections C and D, and bituminous surface treatment on Sections A, B, C, and D of Route 47, the Oakhurst National Forest Highway, Sierra National Forest, in Madera and Mariposa Counties.

SANTA BARBARA COUNTY, Calif.—Until January 3, 1934, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for grading and surfacing about 2.1 miles with oil treated gravel, between Santa Ynez river and Santa Ynez, in Santa Barbara County, involving:

- (1) 98,500 cu. yds. rdwy. excav., unclassification;
- (2) 254,000 sta. yds. overhaul;
- (3) 935 cu. yds. struc. excav.;
- (4) 218 lin. ft. 8-in. CMP;
- (5) 296 lin. ft. 18-in. CMP;
- (6) 222 lin. ft. 24-in. CMP;
- (7) 258 lin. ft. 36-in. CMP;
- (8) 78 lin. ft. 42-in. CMP;
- (9) 206 lin. ft. 48-in. CMP;
- (10) 15 each spillway assemblies;
- (11) 16 cu. yds. Class A Port. cement concrete struc.;
- (12) 425 lbs. bar reinf. steel struc.;
- (13) 3,200 cu. yds. screened gravel surfacing;
- (14) 2,072 bbls. heavy fuel oil;
- (15) 125 sta. mix. oil treated surfacing and shoulder material;
- (16) 410 lin. ft. laminated timber gd. rail;
- (17) 166 each timber guide posts;
- (18) 19 each timber culvert markers;
- (19) 4.1 miles new property fence;
- (20) 10 each fence gates;
- (21) 800 M. gals water;
- (22) 125 sta. finish roadway;
- (23) 55 each monuments complete in place.

Plans and specifications obtainable at above office, and are on file at the offices of the District Engineers at Los Angeles and San Francisco, and at the district in which the work is situated. 29

DOUGLAS COUNTY, Oregon—R. I. Stuart & Sons, Medford, Oregon, at \$10,187 awarded contract by Oregon State Highway Commission, Portland, for widening pavement and concrete curb of South Roseburg Section of Pacific Highway in Douglas County. R. I. Stuart & Sons, Medford, \$10,187
United Constr. Co., Portland 11,455
A. T. Dolan, Tillamook 12,884
J. C. Compton, McMinnville 13,252

SANTA BARBARA COUNTY, Cal.
—Until January 3, 1934, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for grading and paving with asphalt concrete on a Portland cement concrete base and with bituminous macadam surfacing on a crusher run base about 3.2 miles through Santa Barbara Santa Barbara County, involving:

- (1) 42,700 cu. yds. rdwy. excav. unclass;
- (2) 800,000 sta. yds. overhaul;
- (3) 54,000 cu. yds. imp. borrow;
- (4) 1425 cu. yds. struc. excav.;
- (5) 715 cu. yds. conc. in exist. pave. and strucs. to be removed and disposed of;
- (6) 53,300 sq. yds. subgrade for pavement;
- (7) 9200 cu. yds. Class C Port. cem. concrete pave.;
- (8) 56,000 sq. yds. asphaltic paint binder;
- (9) 7700 tons asphalt concrete;
- (10) 2700 tons crusher run base;
- (11) 700 tons broken stone, bit. macadam surface;
- (12) 370 tons asphaltic road oil;
- (13) 450 cu. yds. Class A Port. cem. concrete strucs.;
- (14) 100 cu. yds. Class A Port. cem. concrete curbs and gutters;
- (15) 55 cu. yds. Class A Port. cem. concrete sidewalks;
- (16) 1170 cu. yds. Class A Port. cem. concrete lined channel change;
- (17) 50,300 lbs. bar reinf. steel strucs.;
- (18) 150 lin. ft. 8-in. CMP;
- (19) 1946 lin. ft. 12-in. Cmp;
- (20) 236 lin. ft. 18-in. CMP;
- (21) 198 lin. ft. 36-in. CMP;
- (22) 98 lin. ft. 24½-in. base part circle CMP;
- (23) 14 each spillway assemblies complete in place;
- (24) 28 each drop inlet frames and covers complete in place;
- (25) 535 sq. yds. paved gutters and apron;
- (26) 1085 lin. ft. laminated timber guard rail;
- (27) 100 each timber guide posts complete in place;
- (28) 9 each timber culvert markers complete in place;
- (29) 3.2 miles new property fence;
- (30) 10 each fence gates complete in place;
- (31) 875 M. gals water;
- (32) 2080 bbls. heavy fuel oil;
- (33) 170 sta. finishing rdwy.;
- (34) 55 monuments complete in place.

Plans and specifications obtainable from above office and on file at the office of the District Engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

JACKSON COUNTY, Oregon—The United Contracting Co., Portland, at \$23,649.50 awarded contract by Oregon State Highway Commissioner, Portland, for paving 9500 sq. yds. with asphalt concrete and placing 2700 sq. yds. rock shoulders in Jackson County, North Ashland Section of Pacific Highway. Complete bids follow:
The United Contr. Co., Portland\$23,649.50
Harold Blake, Portland..... 24,080.00
Northwest Rds Co., Portland 24,587.00
J. C. Compton, McMinnville 26,207.50
Ernest C. Hall, Eugene..... 30,835.00

JACKSON COUNTY, Ore.—Ernest C. Hall, Eugene, Oregon, at \$19,037.50 awarded contract by Oregon State Highway Commission, for paving with concrete and constructing concrete curb in Jackson County, South Medford Section of Pacific Highway. Complete bids follow:
E. C. Hall, Eugene\$19,037.50
The United Contracting Co., Portland 19,037.50
J. C. Compton, McMinnville 20,910.00
Northwest Rds. Co., Portland 22,120.00

DOUGLAS COUNTY, Oregon—Theo. Arenz, Portland, Oregon, at \$41,400 awarded contract by Oregon State Highway Commission, Portland, for paving with concrete 1.06 miles and gravel surfacing or apply crushed rock about 0.12 mile of Rice Hill Section of the Pacific Highway in Douglas County. Complete bids follow:
Theo. Arenz, Portland.....\$41,400
Mountain States Constr. Co., Eugene, Oregon 42,010
Harold Blake, Portland..... 42,950
The United Contracting Co., Portland 48,195

SAN FRANCISCO—Bids have been cancelled by the Board of Public Works, S. J. Hester, Deputy Director, for improvement of Golden Gate Park roads. Contract No. 3.
The bids were to have been opened December 13.

LANE COUNTY, Ore.—Until Dec. 21 10 A. M., bids will be received by W. H. Lynch, District Engineer, U. S. Bureau of Public Roads, 316 New Post Office Bldg., Portland, for clearing Willamette Highway Project, NR-21-F, National Forest Road Project, located within the Willamette National Forest, Lane County. The length of the project is approximately 2.738 mi. and the principal items of work are as follows:
(1) 26 acres clearing;
(2) 70 each dangerous trees & snags;
(3) 12 acres roadside cleanup;
Plans and specifications obtainable from above office upon deposit of \$10.

WASHINGTON COUNTY, Oregon—J. A. Lyons, Portland, at \$41,786 awarded contract by Oregon State Highway Commission, Portland, for grading and surfacing 2.18 ml. of Cummings Hill section of Nehalem Secondary Highway, National Recovery Project No. NRS 213-C, in Washington County. Complete bids follow:
J. A. Lyons, Portland.....\$41,786.00
Fred H. Slate, Portland..... 42,135.50
Johnston, Hanson & Johnston, Birkenfeld 44,404.00
Joplin & Eldon, Portland..... 46,602.50

ADA COUNTY, Idaho—Morrison-Knudsen Co., Boise, Idaho, at \$119,966.50 awarded contract by Department of Public Works, Boise, Idaho, for bituminous paving on 1.310 mi. of Old Oregon Trail and 0.799 mi. of the Payette Highway in Boise, Ada County. Complete bids follow:
Morrison-Knudsen Co., Boise, \$119,966.50.

Standard Asphalt Paving Co., Spokane, Wash., \$122,422.50.
Northwest Roads Co., Portland, Ore., \$126,853.50.
Robinson Constr. Co., Wm. Hoops & Dan J. Cavanagh, Twin Falls, Idaho, \$128,155.00.
J. C. Magulre, Butte, Montana, Irregular.

FERRY COUNTY, Wash.—Columbia Power & Investment Co., Stevenson, Wash., at \$72,271 (metal pipe alternate) and at \$77,691 (concrete pipe) submitted low bid to U. S. Bureau of Public Roads, 316 New Portoffice Bldg., Portland, for grading 3.329 miles of Republic-Kettle Falls Project NR-20-B, National Forest Road Project, located within the Colville National Forest Ferry County, Wash. Complete bids follow:

Columbia Power & Investment Co., Stevenson, Wash., (metal pipe alternate) \$72,271; (concrete pipe) \$77,691.
Elliott & Co., Seattle, \$80,005; \$80,314.00.
March Const. Co., Spokane, \$82,052; \$82,361.
Sam Orine, Spokane, \$84,667; \$84,976.00.
Alec Eeseloff, Seattle, \$85,038; \$85,328.00.

Clifton & Applegate, Spokane, \$89,623; \$89,941.
Colonial Building Co., Spokane, \$91,509; \$92,003.
L. Romano Engr. Corp., Seattle, \$93,070; \$93,379.
Halleran Bros., Seattle, \$93,397; \$93,551.
Fred G. Redmon, Yakima, \$95,445; \$95,757.
Triangle Const. Co., Spokane, \$99,561; \$99,932.
Siems-Spokane Co., Spokane, \$102,993; \$103,735.

LINN COUNTY, Oregon—H. B. Morton, Clarkston, Wash., at \$17,811.25 awarded contract by Oregon State Highway Commission, Portland, for grading and surfacing 1.8 miles of Sanderson Bridge Section of Albany-Lyons Secondary Highway, National Recovery Project No. NRS 223, in Linn County. Complete bids follow:
H. B. Morton, Clarkston, Wash., \$17,811.25.
Birkenemeier & Saremal, Portland, \$18,895.
Slate Construction Co., Albany, \$19,161.25.

J. A. Lyons, Portland, \$19,561.25.
Harold Blake, Portland, \$19,917.50.
Saxton & Looney, Corvallis, \$20,655.
Johnson & Pearce, Portland, \$21,199.
Salem Sand & Gravel Co., Salem, \$22,447.50.
F. C. Dillard, Yunker & Wiecks, Medford, \$23,457.50.
G. I. Stebbins Constr. Co., Klamath Falls, Oregon, \$23,486.50.
Dabler Bros., Portland, \$25,200.

CURRY COUNTY, Oregon—Until December 22, 10 A. M., bids will be received by W. H. Lynch, District Engineer, U. S. Bureau of Public Roads, 316 New Post Office Bldg., Portland, Oregon, for applying oil macadam on Oregon Coast Highway Project NR-10-A1, B1, D, National Forest Road Project, located within the Siskiyou National Forest, Curry County, Ore. The length of the project is approximately 19.35 miles and the items of work are as follows:

- (1) 500 cu. yds. unclass. excav.;
- (2) All lump prov. and maint. water plant;
- (3) 50 M. gals. watering;
- (4) 19.35 mi. preparation of roadway;
- (5) 11,000 cu. yds. mineral aggregates in place;
- (6) 790 tons 9 asphaltic oil in place;
- (7) 220 tons R. C. 3 liquid asphalt in place.

Plans and specifications obtainable from above office upon deposit of \$10.

HUMBOLDT COUNTY, Calif.—Following bids received by the U. S. Forest Service, 85 Second St., San Francisco, for the following:

(A) 23,963 FBM sel. struc. redwood for Orleans Bridge No. 1, Klamath National Forest, Humboldt County;
(B) 8,550 FBM sel. struc. redwood for Orleans Bridge No. 2, Klamath National Forest, Humboldt County;

The bids were:
Charles Nelson Co., San Francisco, (both or none) (A) \$964.30 f.o.b. mill, Kerbel, \$1112.29 f.o.b. truck, Eureka; \$1136.53 f.o.b. train, Eureka; \$1294.28 f.o.b. bridge site; (B) \$334.90 f.o.b. mill, Kerbel; \$352.04 f.o.b. truck, Eureka; \$360.67 f.o.b. train, Eureka; \$420.44 f.o.b. bridge site.

Hammond Lumber Co., San Francisco, (A) \$964.30 f.o.b. mill, Samoa; \$1204.28 f.o.b. bridge site; (B) \$334.95 f.o.b. mill, Samoa; \$420.45 f.o.b. bridge site.
McDonald & Harrington, Ltd., San Francisco, (A) \$968 f.o.b. mill, Kerbel; \$1015 f.o.b. Eureka; \$1205 f.o.b. bridge site; (B) \$336 f.o.b. mill, Kerbel; \$360 f.o.b. Eureka; \$422 f.o.b. bridge site.

LANE AND DOUGLAS COS., Ore.—Until Dec. 21, 10 A. M., bids will be received by W. H. Lynch, District Engineer, U. S. Bureau of Public Roads, 316 New Postoffice Building, Portland, for applying oil macadam on Oregon Highway Project NR-5-D3, E2, F2, J1 (Lane County to Berry Creek) and NR-5-D3, H1, II (Glendale to Gardiner) National Forest Road Project located within the Sluslaw National Forest, Lane and Douglas Counties Oregon. The length of the project is approximately 32.521 miles and principal items of work are as follows:

- (1) 2,000 cu. yds. unclass. excav.;
- (2) 32.5 miles preparation of roadway;
- (3) 15,000 cu. yds. mineral aggregate in place;
- (4) 1,200 tons asph. oil in place;
- (5) 370 tons RC-3 liquid asph. in place
- (6) 160 tons SC-2 do.

Plans and specifications obtainable from above office upon deposit of \$10.

GILLIAM COUNTY, Oregon—Northwest Roads Co., Portland, at \$7,410.50 (using tar) awarded contract by Oregon State Highway Commission, Portland, for applying 15,500 sq. yds. bituminous macadam on Condon Section of John Day Highway in Gilliam Co. Complete bids follow:

Northwest Roads Co., Portland (Using No. 30.1) \$7,530.50; (Using tar) \$7,410.50.

Newport Const. Co., Portland, \$8,949.40; \$8,510.20.

J. C. Compton, McMinnville, \$9,062.50; \$8,922.50.

A. Milne, Portland, \$9,585.55; \$9,398.75.

CEHLAN COUNTY, Wash.—Until December 22, 10 A. M., bids will be received by W. H. Lynch, District Engineer, U. S. Bureau of Public Roads, 316 New Post Office Bldg., Portland, Oregon, for surfacing and applying oil rock and constructing guard rail on Sunset Highway Project NR-9-A6, National Forest Road Project, located within the Wenatchee National Forest, Chelan County, Wash. The length of the project is approximately 11.1 miles and principal items of work are as follows:

- (1) 30,100 cu. yds. unclass. excav.;
- (2) 107,000 sta. yds. overhaul;
- (3) 15,000 cu. yds. subbase course;
- (4) 11.1 miles fine grading of subgrade and shoulders;
- (5) 17,500 tons crushed rock bottom course;
- (6) 8800 tons crushed rock top course
- (7) 2000 yd. mi. binder haul;
- (8) 8800 tons supplemental crushed Rock Class A;
- (9) 4,500 tons do, Class B;
- (10) 1800 tons do, Class C;
- (11) 650 tons do, Class D;
- (12) 3000 cu. yds. binder;
- (13) 200 lin. ft. reinf. concrete pipe;
- (14) 15,000 lin. ft. wire cable guard rail;
- (15) Lump sum prep. of stockpile sites

Plans and specifications obtainable from above office upon deposit of \$10.

MENDOCINO COUNTY, Cal.—Until January 3, 1934, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for grading and surfacing about 1.4 miles with gravel, between McDonald and Yorkville, in Mendocino County, involving:

- (1) 1.5 acres clear and grub right of way;
- (2) 55,550 cu. yds. roadway excav.;
- (3) 301,000 sta. yds. overhaul;
- (4) 1,650 cu. yds. struc. excav.;
- (5) 1,560 cu. yds. select. material;
- (6) 40 cu. yds. Class A Port. cement concrete struc.;
- (7) 1,900 lbs. bar reinf. steel struc.;
- (8) 6,980 cu. yds. creek run gravel base;
- (9) 1,100 M. gals. water;

- (10) 150 each timber guide posts and culvert markers;
- (11) 5 each spillway assemblies;
- (12) 300 lin. ft. 8-in. perf. metal pipe underdrains;
- (13) 150 lin. ft. 8-in. CMP;
- (14) 450 lin. ft. 18-in. CMP;
- (15) 210 lin. ft. 24-in. CMP;
- (16) 250 lin. ft. 66-in. CMP 8-gauge;
- (17) 236 lin. ft. 96-in. do;
- (18) 220 bbls. fuel oil;
- (19) 76 sta. finishing rdwy.;
- (20) 50 each monuments complete, in place.

Plans and specifications obtainable at above office, and are on file at the offices of the District Engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

LOS ANGELES COUNTY, Cal. — Until January 3, 1934, bids will be received by the State Highway Commission, Sacramento, for grading and paving with asphalt concrete about 1.8 mi. in Long Beach, between the easterly boundary of the City of Los Angeles and Pacific Avenue, in Los Angeles County, involving:

- (1) 94 sta. yds. clear and grub r/w;
- (2) 17,000 cu. yds. rdwy. excav. unclass.;
- (3) 175,000 sta. yds. overhaul;
- (4) 5500 cu. yds. imported borrow;
- (5) 7500 cu. yds. struc. excav.;
- (6) 37,500 sq. yds. subgrade for pave;
- (7) 14,000 sq. yds. asph. paint binder;
- (8) 19,200 tons asph. concrete;
- (9) 2050 cu. yds. Class A Port. cem. concrete curbs, gutters and sidewalks;
- (10) 270 cu. yds. Class A Port. cem. concrete strucs.;
- (11) 20,000 lbs. bar reinf. steel strucs.;
- (12) 14,000 lbs. misc. iron and steel structures;
- (13) 200 lin. ft. 18-in. C.M.U.;
- (14) 600 lin. ft. 12-in. plain concrete pipe;
- (15) 40 lin. ft. 15-in. plain conc. pipe;
- (16) 1850 lin. ft. 12-in. reinf. conc. pipe;
- (17) 180 lin. ft. 15-in. reinf. conc. pipe;
- (18) 500 lin. ft. 24-in. reinf. conc. pipe;
- (19) 980 lin. ft. 27-in. reinf. conc. pipe;
- (20) 630 lin. ft. 30-in. reinf. conc. pipe;
- (21) 20 lin. ft. 36-in. reinf. conc. pipe;
- (22) 600 cu. yds. conc. removed and disposed of;
- (23) 350 tons broken stone culvert foundation;
- (24) 700 M. gals. water;
- (25) 1250 bbls. fuel oil;
- (26) 1.5 mi. preparing mixing and shaping shoulders;
- (27) 4 each moving and resetting electroliers;
- (28) 90 sta. yds. finishing roadway.

Plans and specifications obtainable from the above office and are on file at the offices of the District Engineers in Los Angeles and San Francisco.

FRESNO COUNTY, Cal.—Until Jan. 3, 1934, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for grading and paving about 0.8 mile with asphalt concrete, between California Avenue and Echo Avenue, in Fresno County, involving:

- (1) 7,000 tons asphalt concrete;
- (2) 18,000 sq. yds. asph. paint binder;
- (3) 5,500 sq. yds. subgrade for pave.;
- (4) 2,700 sq. ft. Class A Portland cement concrete driveways;
- (5) 11,200 sq. ft. do, gutters;
- (6) 16,600 sq. ft. do, sidewalks;
- (7) 3,800 lin. ft. do, curbs;
- (8) 45 lin. ft. 6-in. cast iron pipe;
- (9) 42 lin. ft. 12-in. CMP;
- (10) 78 lin. ft. 5 3/4 x 18-in. part circle CMP;
- (11) 768 lin. ft. 5 3/8 x 24 1/2-in. do;
- (12) 106 M. gallons water;
- (13) 10 each handholes;
- (14) 1 sidewalk inlet;
- (15) 1 storm water inlet;
- (16) 1 existing inlet to be reconstructed;

- (17) 24,600 sq. ft. existing sidewalks and driveways to be removed & disposed of;
- (18) 6,200 sq. ft. existing pavement & gutters to be removed and disposed of;
- (19) 3,900 lin. ft. exist. curbs do;
- (20) 1 lot misc. culverts and drainage appurtenances to be removed and disposed of;
- (21) 44 each electroliers to be moved and reset.

Plans and specifications obtainable at above office, and are on file at the offices of the District Engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

MALHEUR COUNTY, Oregon—All bids received by the Oregon State Highway Commission, R. H. Baldeck, State Highway Engineer, Portland, for regrading 0.99 mi. and applying bituminous macadam, Catarie Section of Old Oregon Trail, in Malheur County, were rejected and project ordered re-advertised. The bidders were: J. C. Compton, McMinnville (1) No. 3 Oil, No bid; (2) tar, \$13,364. Quinn-Robbins Co., Boise, Idaho, (1) \$14,675.

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INYO COUNTY, Cal.—Basich Bros., 20550 Normandie Ave., Torrance, at \$128,963 awarded contract by the State Highway Commission, Sacramento, for grading and surfacing 5.8 mi. with bituminous treated selected surfacing material between Dougherty's Corner and Birchim Canyon, Inyo County.

NEY COUNTY, Nevada—Until December 27, 3 P. M., bids will be received by the Directors of the Department of Highways of the State of Nevada, S. C. Durkee, State Highway Engineer, Heroes Memorial Bldg., Carson City, Nevada, for constructing 14.19 miles of the State Highway System in Nye County, between 7 miles northeast of Lockes and Callaways, Route 4, Section D-2, involving:

- (1) 83,900 cu. yds. rdwy. and excav.;
- (2) 39 acres clear and grub;
- (3) 39,353 sta. yds. overhaul;
- (4) 77,936 cu. yds. select borrow;
- (5) 400 cu. yds. struc. excavation;
- (6) 14.19 miles subgrade;
- (7) 46,600 cu. yds. cru. gravel or stone surface;
- (8) 40 cu. yds. Class "A" concrete;
- (9) 56 cu. yds. Class "B" concrete;
- (10) 5600 lbs. reinf. steel;
- (11) 60 lin. ft. 18-in. C.M.P.;
- (12) 588 lin. ft. 24-in. C.M.P.;
- (13) 34 lin. ft. 36-in. C.M.P.;
- (14) 315 lin. ft. 18-in. vit. pipe;
- (15) 273 lin. ft. 24-in. vit. pipe;
- (16) 188 lin. ft. remove pipe culverts;
- (17) 40 monuments;
- (18) 7810 lin. ft. construct fence;
- (19) 14.19 miles finish roadway.

Plans and specifications obtainable from the above office upon deposit of \$5, \$2.50 returnable; and on file at the office of the Bureau of Public Roads, 461 Market St., San Francisco.

JOSEPHINE COUNTY, Ore.—The United Contracting Co., Portland, at \$17,287 awarded contract by Oregon State Highway Commission, Portland, for paving with asphaltic concrete Grants Pass Section of Pacific Highway, National Recovery Project No. NRM 157-A, in Jackson County. Complete bids follow: The United Contracting Co., Portland, \$17,287.

Harold Blake, Portland, \$17,486. Northwest Roads Co., Portland, \$18,459.

J. C. Compton, McMinnville, \$18,938. Ernest C. Hall, Eugene, \$23,247.

HUMBOLDT COUNTY, Nevada—Until December 27, 2:30 P. M., bids will be received by the Directors of the Department of Highways of the State of Nevada, Heroes Memorial Bldg., Carson City, Nevada, for constructing 15.14 miles of the State Highway System in Humboldt County between 15 miles north of Oroveda and the Nevada-Oregon State line, involving:

- (1) 53,340 cu. yds. rdwy. excav.;
- (2) 122 acres clear and grub;
- (3) 49,221 sta. yds. overhaul;
- (4) 85,528 cu. yds. sel. borrow;
- (5) 1300 cu. yds. struc. excav.;
- (6) 15.14 miles subgrade;
- (7) 47,950 cu. yds. cru. gravel or stone surface;
- (8) 178 cu. yds. Class "A" concrete;
- (9) 135 cu. yds. Class "B" concrete;
- (10) 21,693 lbs. reinf. steel;
- (11) 2202 lin. ft. 18-in. C.M.P.;
- (12) 434 lin. ft. 24-in. C.M.P.;
- (13) 88 lin. ft. 30-in. C.M.P.;
- (14) 324 lin. ft. 36-in. C.M.P.;
- (15) 154 lin. ft. 48-in. C.M.P.;
- (16) 627 lin. ft. 18-in. vit pipe;
- (17) 81 lin. ft. 24-in. vit. pipe;
- (18) 48 lin. ft. 30-in. vit. pipe;
- (19) 27,239 lin. ft. construct fence;
- (20) 58 monuments;
- (21) 700 lbs. castings;
- (22) 15.14 miles finish roadway.

Plans and specifications obtainable from State Highway Engineer, Carson City, Nevada, upon deposit of \$5. \$2.50 returnable. The plans are also on file at the office of the Bureau of Public Roads, 461 Market St., San Francisco. S. C. Durkee, State Highway Engineer, Heroes Memorial Bldg., Carson City, Nevada.

Bids for furnishing fully-treated poles f.o.b. Azusa, under Request MJP-144 were received by the U. S. Forest Service, 751 S. Figueroa St., Los Angeles, November 28. Bids were taken as follows:

- (1) 250 poles, 20 ft., fully treated as per specifications, 4-in.—5-inch diam. at top;
- (2) 150 poles, 25 ft., fully treated—shall measure 5-in.—6-in. in diam. at top;
- (3) 100 poles, 30 ft., fully treated—shall measure 5-in.—6-in. in diam. at top.

All poles to be of fir or southern pine

- The bids follow:
- (A) *Consolidated Lumber Co.
 - (B) Texas Creosoting Co.
 - (C) Joslyn Company.
 - (D) Graybar Electric Co.
 - (E) Consolidated Lumber Co.
 - (F) Browning Lumber Co.
 - (G) J. H. Baxter & Co.
 - (H) Pan-Pacific Piling & Constr. Co.

	(1)	(2)	(3)	Total
(A)	\$2.78	\$3.43	\$4.67	\$1685.50
(B)	2.20	4.11	5.27	1593.50
(C)	2.21	4.12	5.27	1697.50
(D)	2.21	4.13	5.29	1701.00
(E)	2.93	3.63	5.01	1778.00
(F)	2.38	4.30	5.47	1787.00
(G)	3.00	3.75	5.50	1862.50
(H)	4.49	5.88	7.31	1025.20

*Alternate on foreign oil creosoting.

LOS ANGELES, Cal.—Bids were received by the U. S. Forest Service, 751 S. Figueroa St., November 29, for furnishing poles and cross arms under Request No. MJP-146. The items are:

- (1) 50 crossarms, 4-pin;
- (2) 150 crossarms, 10-pin;
- (3) 800 fully treated poles, 20-ft.;
- (4) 400 do, 25-ft.;
- (5) 235 do, 30-ft.

The bidders were:

- (A) Texas Creosoting Company.
- (B) Joslyn Company.
- (C) H. A. Browning Lumber Co.
- (D) Consolidated Lumber Co.
- (E) Graybar Electric Co.
- (F) Pan-Pacific Piling & Const. Co.
- (G) J. H. Baxter Company.

(H) Patten-Blinn Lumber Co.

The bids follow:

	(1)	(2)	(3)	(4)	(5)	(Total)
(A) \$	\$	\$2.20	\$4.11	\$5.27	\$4,642.45	
(B) .....	.....	2.21	4.12	5.27	4,652.15	
(C) .....	.....	2.21	4.12	5.27	4,654.45	
(D)	0.42	1.04	2.70	3.36	4.65	4,773.00
(E)	0.40	0.483	2.20	4.11	5.27	4,865.27
(F)	0.40	1.07	2.55	4.00	4.98	4,990.80
(G) .....	.....	3.20	4.05	5.85	5,554.75	
(H)	0.60	0.75	.....	.....	.....	142.50

LOS ANGELES, Cal.—Bids were received by the U. S. Forest Service, 751 S. Figueroa St., Dec. 1, for furnishing creosoted crossarms and poles under Request No. 150. The items are:

- (1) 135 4-in. crossarms;
- (2) 45 10-in. crossarms;
- (3) 750 fully treated poles, 20-ft.;
- (4) 243 fully treated poles, 25-ft.;
- (5) 185 fully treated poles, 30-ft.

The hidders were:

- (A) Chas. R. McCormick Lbr. Co.
- (B) Texas Creosoting Co.
- (D) Pan-Pacific Piling & Const. Co.
- (E) Graybar Electric Co.
- (F) Consolidated Lumber Co.
- (G) Patten-Blinn Lumber Co.

The bids follow:

	(1)	(2)	(3)	(4)	(5)	(Total)
(A) \$	\$	\$2.41	\$2.91	\$4.19	\$3,502.50	
(B) .....	.....	2.19	4.00	5.10	3,864.00	
(C) .....	.....	2.21	4.12	5.27	3,948.45	
(D)	0.40	1.04	2.27	3.78	4.67	3,963.95
(E)	*46.25	127.30	2.20	4.11	5.27	4,156.65
(F)	0.41	1.02	2.61	3.24	4.48	4,003.90
(G)	0.50	1.25	.....	.....	.....	231.25

* Price per M.

WASHINGTON STATE.—Until Dec. 19, 10 A. M., bids will be received by L. V. Morrow, State Director of Highways, Olympia, for projects on highway construction, as follows:

Clark County

Paving with Portland cement concrete about 0.4 mile on Washington and 18th Streets and widening or re-topping with asphaltic concrete or a non-skid seal coat about 1.2 miles on Main Street, State Road No. 1, in the City of Vancouver. U. S. Public Works Project No. NRM 147-E, in Clark Co., involving:

- (1) 2,450 cu. yds. excavation;
- (2) 14,510 sq. yds. Port. cem. conc.;
- (3) 4,127 lin. ft. concrete curb;
- (4) 169 tons asph. conc. pave.;
- (5) 1,225 tons of plant mix surf.;
- (6) 92 tons of asphalt;
- (7) 15,364 sq. ft. conc. sidewalls;
- (8) 1,833 lin. ft. pipe culverts;
- (9) miscellaneous items.

Skagit and Whatcom Counties

Surfacing with crushed stone about 9.2 miles of State Road No. 1 (Lake Samish Road branch) between end of pavement and Lake Samish, Unit 3 of U. S. Public Works Project No. NRS 191-A, in Skagit and Whatcom Counties, involving about 22,240 cu. yds. of crushed stone surfacing, and other items.

King County

Paving with Portland cement concrete about 4.1 miles of State Road No. 2, Renton to Seattle (second strip) U. S. Public Works Project No. NRH 142-H and NRM 142-H, in King County, involving:

- (1) 37,290 cu. yds. excav. and gravel borrow;
- (2) 48,506 sq. yds. conc. pave.;
- (3) 133,600 lbs. of pave. reinforcing;
- (4) miscellaneous items.

Chelan County

Grading about 3.2 miles of State Rd. No. 15, Old Cascade Tunnel to Berne, U. S. Public Works Project No. NRH 190-A, in Chelan County, involving:

- (1) 20 acres clearing;
- (2) 68,400 cu. yds. excavation;
- (3) 23,110 cu. yds. gravel borrow;
- (4) 2,892 lin. ft. reinf. conc. cribbing headers and stretches;
- (5) 674 lin. ft. pipe;

(6) miscellaneous items;

King County

Grading and paving with Portland cement concrete about 3.9 miles of the Seattle-Bothell Highway, Lake Forest Park to Bothell, U. S. Public Works Project No. NRH 91-B and NRM 91-C, in King County, involving:

- (1) 13 acres clearing;
- (2) 165,470 cu. yds. excav. and gravel borrow;
- (3) 6,221 sq. yds. Port. cement conc. pavement;
- (4) 800 cu. yds. concrete;
- (5) 5,834 lin. ft. of pipe;
- (6) miscellaneous items;

Lewis County

Grading and surfacing with crushed stone and constructing a standard frame trestle 80-ft. long on about 3.9 miles of the county road between Riffe and Morton. U. S. Public Works Project No. NRS 198-A, in Lewis County, involving:

- (1) 9 acres of clearing;
- (2) 26,930 cu. yds. excavation;
- (3) 7,100 cu. yds. crushed stone and screened gravel surfacing;
- (4) 26 MBM timber and plank (untreated);
- (5) 120 lin. ft. of pipe culverts;
- (6) miscellaneous items;

Plans and specifications obtainable from above office by depositing \$2.00 for each set of plans.

SAN BERNARDINO COUNTY, Cal.

—Sharp & Fellows Contracting Co. 533 Central Building, Los Angeles, at \$146,975.00 awarded contract by the State Highway Commission, Sacramento, for grading and surfacing 15.1 miles between the west boundary and Camp Cajon, in San Bernardino county.

FORT MASON, Cal.—Until December 21, 10 A. M., bids will be received by the Constructing Quartermaster, Fort Mason, for the construction of roads, curbs, gates, etc., at San Francisco National Cemetery, Presidio of San Francisco.

Plans and specifications will be furnished upon receipt of check in the amount of \$10 made payable to The Treasurer of the United States. Further information may be obtained upon application to the above office.



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RATES: \$2 to \$4

RAY MAXWELL, Manager

HOTEL PLAZA
POST STREET AT STOCKTON
SAN FRANCISCO

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

MONTEREY COUNTY — 3.1 MI. GRADING — (STATE)

MONTEREY COUNTY, Cal.—Force Const. Co., 70 Bellevue Ave., Piedmont at \$136,965.55 submitted low bid to the State Highway Commission, Sacramento, for grading about 3.1 miles between Big Sur and 1.6 miles south of Molerus Ranch, in Monterey County. Complete bids follow:

- (A) Force Const. Co., Piedmont, \$136,965.55.
- (B) Hemstreet and Bell, Marysville, \$154,799.50.
- (C) Larsen Bros., Sacramento, \$157,676.50.
- (D) Anderson & Ringrose, San Francisco, \$161,338.70.
- (E) M. J. Bevanda, Stockton, \$162,277.60.
- (F) S. H. Palmer, San Francisco, \$170,913.60.
- (G) Union Paving Co., San Francisco, \$173,560.00.
- (H) Hanrahan Co., San Francisco, \$191,182.75.

Quantities follow:

- (1) 25 acres clear and grub right of way;
- (2) 80 each remove and grub redwood trees, size 1;
- (3) 39 each do, size 2;
- (4) 32 each do, size 3;
- (5) 6 each do, size 4;
- (6) 21 each remove redwood trees, size 1;
- (7) 18 each do, size 2;
- (8) 21 each do, size 3;
- (9) 1 only do, size 4;
- (10) 290 each remove and grub trees other than redwood, size 1;
- (11) 42 each do, size 2;
- (12) 11 each do, size 3;

- (13) 42 each remove trees other than redwood, size 1;
 - (14) 16 each do, size 2;
 - (15) 7 each do, size 3;
 - (16) 182,000 cu. yds. rdwy. excav., unclassified;
 - (17) 910,000 sta. yds. overhaul;
 - (18) 5,400 cu. yds. struc. excav.;
 - (19) 316 lin. ft. 8-in. CMP;
 - (20) 1,312 lin. ft. 18-in. CMP;
 - (21) 460 lin. ft. 24-in. CMP;
 - (22) 396 lin. ft. 36-in. CMP;
 - (23) 58 lin. ft. 48-in. CMP;
 - (24) 50 lin. ft. half circle 24-in. CMP;
 - (25) 34 lin. ft. half circle 30-in. CMP;
 - (26) 4 each drop inlet frames & covers
 - (27) 19 each spillway assemblies;
 - (28) 425 MFBM split redwood timber cribbing;
 - (29) 117 cu. yds. Class B Port. cem. conc. bridge;
 - (30) 32,000 lbs. struc. steel bridge;
 - (31) 34.5 MFBM redwood timber dense select all-heart struc. grade for bridge and culvert;
 - (32) 18.5 MFBM redwood timber select all-heart struc. grade, for bridge and culvert;
 - (33) 40 cu. yds. rubble masonry;
 - (34) 1,400 M. gals. water;
 - (35) 39 each timber culvert markers;
 - (36) 143 each timber guide posts;
 - (37) 8,818 lin. ft. solid timber guard rail;
 - (38) 3.8 miles standard property fence;
 - (39) 2.1 miles type A do;
 - (40) 25 each standard fence gates;
 - (41) 10 each type A fence gates;
 - (42) 162 sta. finish roadway;
 - (43) 92 monuments complete in place.
- Unit prices follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
(1)	\$ 280.00	\$225.00	\$250.00	\$375.00	\$200.00	\$ 150.00	\$250.00	\$200.00
(2)	4.25	50.00	50.00	16.50	30.00	40.00	30.00	40.00
(3)	11.75	100.00	90.00	29.50	30.00	60.00	40.00	80.00
(4)	24.50	155.00	140.00	47.00	75.00	100.00	60.00	125.00
(5)	39.50	220.00	200.00	83.00	125.00	200.00	45.00	500.00
(6)	2.50	33.00	30.00	16.50	15.00	25.00	20.00	30.00
(7)	8.50	60.00	55.00	24.00	20.00	40.00	20.00	50.00
(8)	19.30	88.00	80.00	33.00	40.00	75.00	20.00	75.00
(9)	31.00	140.00	125.00	48.00	100.00	150.00	50.00	300.00
(10)	4.10	40.00	40.00	16.50	30.00	35.00	35.00	40.00
(11)	11.75	82.00	75.00	25.00	50.00	50.00	35.00	75.00
(12)	25.00	140.00	125.00	45.00	80.00	100.00	50.00	120.00
(13)	2.30	38.00	25.00	16.50	20.00	20.00	25.00	20.00
(14)	8.50	44.00	40.00	22.00	25.00	35.00	25.00	40.00
(15)	20.50	77.00	70.00	30.00	40.00	75.00	40.00	75.00
(16)	.81	.28	.28	.37	.40	.36	.50	.49
(17)	.005	.005	.01	.005	.008	.005	.004	.01
(18)	1.00	.80	1.00	.75	1.25	1.00	.60	.75
(19)	1.20	.90	1.00	.90	1.50	.85	1.00	.75
(20)	2.10	1.55	1.50	1.65	2.00	1.50	1.50	1.50
(21)	3.00	2.50	2.50	2.20	3.50	2.30	2.50	2.25
(22)	6.00	4.75	4.50	4.80	5.00	4.70	5.00	4.75
(23)	10.00	8.50	8.00	8.00	8.50	9.00	9.00	8.00
(24)	2.25	2.00	2.00	2.00	3.00	1.75	3.50	1.75
(25)	2.60	2.50	3.00	2.50	4.00	2.20	4.00	2.00
(26)	15.00	30.00	25.00	25.00	40.00	30.00	25.00	30.00
(27)	15.00	12.50	15.00	14.00	30.00	10.50	15.00	13.00
(28)	63.00	55.00	55.00	75.00	40.00	70.00	42.00	50.00
(29)	23.00	17.00	20.00	20.00	20.00	18.00	18.00	16.00
(30)	.06	.08	.06	.06	.06	.10	.05	.05
(31)	96.00	85.00	75.00	00.00	100.00	80.00	80.00	85.00
(32)	92.00	80.00	75.00	90.00	100.00	75.00	80.00	80.00
(33)	12.50	15.00	12.00	8.50	16.00	12.00	6.00	14.00
(34)	1.25	1.25	1.00	1.25	.25	1.75	.40	1.00
(35)	2.50	2.00	2.00	2.00	1.50	2.00	2.00	1.75
(36)	2.50	2.00	2.00	2.00	1.50	1.50	2.00	2.00
(37)	.70	.75	.75	.90	.70	1.00	1.00	.75
(38)	430.00	300.00	400.00	375.00	600.00	500.00	400.00	350.00
(39)	1000.00	750.00	500.00	600.00	700.00	1300.00	500.00	850.00
(40)	15.00	15.00	20.00	16.00	20.00	15.00	15.00	18.00
(41)	25.00	12.00	10.00	25.00	20.00	15.00	24.00	18.00
(42)	5.00	5.00	5.00	5.00	7.00	4.00	5.00	5.00
(43)	3.00	3.00	3.00	2.50	3.00	2.50	2.50	2.50

BIDS OPENED

HUMBOLDT COUNTY, Cal.—Hemstreet and Bell, 501 11th St., Marysville, at \$32,238.50 submitted low bid to the State Highway Commission, Sacramento, for grading and surfacing with screened gravel about 0.7 ml. bet. Smith Point and Twin Tree Bridge, Humboldt County, involving:

- (1) 7.5 acres clear and grub right of way;
- (2) 40,650 cu. yds. rdwy. excav., unclassified;
- (3) 68,800 sta. yds. overhaul;
- (4) 3,050 cu. yds. imported borrow;
- (5) 1,030 cu. yds. selected material;
- (6) 850 cu. yds. struc. excav.;
- (7) 4,750 cu. yds. gravel base;
- (8) 1,400 cu. yds. screened gravel surfacing;
- (9) 12 cu. yds. Class A Port. cement concrete struc.;
- (10) 450 lbs. bar reinf. steel struc.;
- (11) 60 lin. ft. 8-in. CMP;
- (12) 390 lin. ft. 18-in. CMP;
- (13) 140 lin. ft. 24-in. CMP;
- (14) 46 lin. ft. 36-in. CMP;
- (15) 92 lin. ft. 42-in. CMP;
- (16) 500 lin. ft. 8-in. perf. metal pipe;
- (17) 3 each spillway assemblies, complete in place;
- (18) 90 each timber guide posts and culvert markers complete in place;
- (19) 830 M. gals. water;
- (20) 110 bbls. heavy fuel oil;
- (21) 95 cu. yds. sacked conc. riprap;
- (22) 50 cu. yds. rubble masonry walls;
- (23) 37 sta. finishing roadway;
- (24) 20 each monuments complete in place.

Complete bids follow:

- (A) Hemstreet & Bell, Marysville, \$32,238.50.
- (B) Mitty Bros. Constr. Co., Los Angeles, \$35,397.75.
- (C) Harms Bros., Sacramento, \$39,427.
- (D) Mercer-Fraser Co., Eureka, \$54,895.10.

(A) (B) (C) (D)

(1)	\$300.00	\$300.00	\$600.00	\$525.00
(2)	.35	.315	.47	.62
(3)	.01	.01	.005	.005
(4)	.34	.60	.50	.70
(5)	.50	.50	2.00	1.80
(6)	1.00	1.00	1.00	1.60
(7)	1.00	1.00	.85	1.80
(8)	1.25	1.25	1.10	2.10
(9)	30.00	18.00	25.00	40.00
(10)	.06	.06	.96	.06
(11)	.06	.06	.06	.06
(12)	1.60	1.75	1.50	2.15
(13)	2.50	2.00	2.25	3.25
(14)	5.25	4.75	4.50	6.25
(15)	7.50	7.00	6.75	7.30
(16)	1.45	1.00	1.50	2.60
(17)	14.00	20.00	15.00	40.00
(18)	2.25	1.10	1.50	1.80
(19)	1.00	.50	.50	1.25
(20)	3.00	3.50	4.50	5.50
(21)	10.00	15.00	7.00	16.00
(22)	10.00	15.00	12.00	12.50
(23)	5.00	6.00	5.00	7.50
(24)	3.00	4.00	3.00	4.00

BIDS OPENED

TEHAMA CO., Cal.—Hein Brothers Basalt Rock Co., Postoffice Box 162, Petaluma, at \$46,771.47 submitted low bid to State Highway Commission, Sacramento, for grading and paving with Portland cement concrete and bituminous treated crushed gravel or stone surfacing about 0.8 mile at Red Bluff, Tehama County. Complete bids follow:

- (A) Hein Bros. Basalt Rock Co., Petaluma, \$46,771.47.
- (B) J. P. Brennan, Redding, \$47,035.65.
- (C) A Teichert & Sons, Sacramento, \$48,766.55.

- (D) M. J. Bexanda, Stockton, \$57,-070.25.
 Quantities follow:
 (1) 40,000 cu. yds. rdwy. excav., unclassified;
 (2) 290,000 sta. yds. overhaul;
 (3) 615 cu. yds. struc. excav.;
 (4) 300 cu. yds. conc. in exist. pave. and strucs. to be removed and disposed of;
 (5) 7,600 sq. yds. subgrade for pave.;
 (6) 1,025 tons crusher run base;
 (7) 950 tons bit. treated crushed gravel or stone surfacing;
 (8) 20 bbls. heavy fuel oil;
 (9) 1,615 cu. yds. Class A Port. cem. conc. pave.;
 (10) 240 cu. yds. Class A Port. cem. conc. struc.;
 (11) 62,250 lbs. bar reinf. steel pave and struc.;
 (12) 62 lin. ft. 8-in. CMP;
 (13) 116 lin. ft. 12-in. CMP;
 (14) 76 lin. ft. 18-in. CMP;
 (15) 20 lin. ft. 24-in. CMP;
 (16) 12 lin. ft. 24-in. extra strength reinf. conc. pipe;
 (17) 2 each spillway assemblies;
 (18) 6 each culvert markers;
 (19) 1,000 M. gals. water;
 (20) 40 sta. finishing rdwy.;
 (21) 22 each monuments complete in place.

Unit prices follow:

	(A)	(B)	(C)	(D)
(1)....	\$.299	\$.30	\$.38	\$.25
(2)....	.005	.005	.008	.007
(3)....	.80	1.30	1.00	1.50
(4)....	2.00	1.50	2.00	2.50
(5)....	.09	.10	.07	.30
(6)....	1.80	2.35	3.00	3.00
(7)....	3.70	4.25	5.00	5.00
(8)....	5.00	3.50	5.00	2.50
(9)....	10.00	10.70	10.15	13.75
(10)....	19.05	15.90	20.00	20.00
(11)....	.0422	.05	.05	.06
(12)....	.90	1.00	1.00	1.75
(13)....	1.60	1.40	1.40	2.00
(14)....	1.87	2.00	1.90	2.50
(15)....	3.00	2.50	2.75	4.00
(16)....	6.00	2.50	3.00	6.00
(17)....	15.00	10.00	20.00	40.00
(18)....	2.50	2.00	2.50	3.50
(19)....	1.00	1.75	.50	1.00
(20)....	5.00	7.00	5.00	15.00
(21)....	3.00	3.00	2.50	4.00

SONOMA-MENDOCINO COS., Calif.—Nevis & Harp, 891 Harrison Street, Santa Clara, at \$107,812.00 submitted low bid to Board of Directors of Joint Highway District No. 19, Supervisor Chambers, County Court House, Santa Rosa, for construction of a steel bridge to replace the existing bridge over the Russian river at Monte Rio. The structure will be 770 ft. long with concrete deck and concrete sidewalks on both sides, consisting of five 100-ft. steel pony truss spans with approach sections of three 40-ft. spans on the north and four 37½-ft. spans on the south.

Complete bids follow:

- (A) Nevis & Harp, Santa Clara, \$107,-812.00.
 (B) M. E. McGowan, San Francisco, \$112,300.00.
 (C) Bodenhamer Const. Co., Oakland, \$116,305.00.

Unit prices follow:

- (1) clearing and grubbing;
 (2) 16,000 cu. yds. rdwy. excav.;
 (3) 8,000 sta. yds. overhaul;
 (4) 88 lin. ft. 18-in. corrugated metal pipe;
 (5) 90 lin. ft. fence;
 (6) 1,200 cu. yds. struc. excav.;
 (7) 190 cu. yds. Class A concrete in footings;
 (8) 2,190 cu. yds. do in structures;
 (9) 75 cu. yds. Class E conc., railings;
 (10) 17,500 lbs. cast steel inc. phosphor bronze plates;
 (11) 170,000 lbs. reinf. steel;
 (12) 760,000 lbs. struc. steel;
 (13) 8,800 lin. ft. redwood timber pile;
 (14) 500 lin. ft. guardrail;
 (15) 1 existing bridge removed;
 (16) 6 MFBM redwood timber in place.

	(A)	(B)	(C)
(1)....	\$ 250.00	\$ 236.00	\$ 200.00
(2)....	.40	.53	.25
(3)....	.01	.006	.0025
(4)....	1.50	2.00	1.50
(5)....	1.00	.60	.15
(6)....	2.00	2.80	6.50
(7)....	10.00	10.00	16.00
(8)....	15.00	13.00	16.00
(9)....	20.00	38.00	35.00
(10)....	.10	.16	.12
(11)....	.05	.0425	.055
(12)....	.0565	.057	.055
(13)....	.75	.70	.75
(14)....	1.00	.90	.85
(15)....	1500.00	6291.00	2800.00
(16)....	70.00	80.00	60.00

Bids taken under advisement until meeting of the Board of Directors next Friday, Dec. 15. J. B. Piatt, Santa Rosa, district engineer.

CONTRACT AWARDED

STOCKTON, Cal.—E. L. Lilly, 1844 Carmel Ave., Stockton, at \$0.057 per cubic yard. awarded contract by Ohm & Raab, Civil Engineer, 109 E. Weber Ave., Stockton, for sloping 2000 feet of river levee located about 15 miles from Stockton, involving 30,000 cu. yds. of cut. Complete bids follow:

	Per cu. y.
E. L. Lilly, Stockton.....	\$0.057
T. G. Smith, Southgate.....	.07
Delta Constr. Co., Southgate.....	.08
E. W. Rawson, Berkeley.....	.095
Poulous & McEwen, Sacto.....	.12
J. P. Green, Sacramento.....	.13

LAKE COUNTY — CONCRETE BRIDGE — (STATE)

LAKE COUNTY, Cal.—T. J. Doyle, 1527 17th Ave., San Francisco, at \$16,-757 submitted low bid to State Highway Commission, Sacramento, for constructing a reinforced concrete slab bridge across St. Helena Creek 0.3 ml. north of Middletown, Lake County, involving:

- (1) 420 cu. yds. struc. excav.;
 (2) 1,050 lin. ft. furnish steel piles, including test piles;
 (3) 52 each drive steel piles, do;
 (4) 27 cu. yds. Class A Port. cement concrete, placed by tremie;
 (5) 536 cu. yds. Class A Port. cem. concrete;
 (6) 77,650 lbs. bar reinf. steel;

- (7) 390 lbs. bronze expansion plates;
 (8) 420 lin. ft. solid timber railing;
 (9) 250 lin. ft. bank protection fence;
 (10) 1 lot misc. items of work.

Complete bids follow:

- (A) Thos. J. Doyle, San Francisco, \$16,757.
 (B) M. B. McGowan, San Francisco, \$19,876.
 (C) Fredrickson & Watson, Oakland, \$20,386.75.
 (D) J. W. Halterman, Willows, \$20,-626.37.
 (E) Baldwin & Butler, Berkeley, \$21,-245.
 (F) F. C. Amoroso & Sons, San Francisco, \$27,748.

	(A)	(B)	(C)	(D)	(E)	(F)
(1).....	\$ 1.50	\$ 1.75	\$ 3.50	\$.85	\$ 4.50	\$ 4.70
(2).....	1.60	2.00	1.65	1.57	1.50	2.20
(3).....	20.00	22.00	25.00	38.40	33.00	12.50
(4).....	7.50	10.00	16.50	17.00	22.00	22.00
(5).....	15.60	18.00	20.00	18.00	19.50	24.00
(6).....	.0475	.05	.045	.0475	.04	.06
(7).....	.50	.40	.30	.33	.30	.30
(8).....	1.00	1.00	1.00	1.00	1.00	1.50
(9).....	3.00	4.50	.75	6.40	3.50	3.50
(10).....	177.78	395.50	500.00	680.00	500.00	3200.00

HAMILTON FIELD—GASOLINE SYSTEM—(GOVT.)

HAMILTON FIELD, Cal.—Frank J. Reilly, 6350 Fulton St., San Francisco, at \$6121 submitted low bid to the Constructing Quartermaster, Hamilton Field, San Rafael, for the construction of the Q. M. gasoline dispensing system at Hamilton Field, involving:

- I Job complete, including shelter and walkway;
 II Deduction if the shelter and walkway are omitted;
 III Deduction if the U. S. Furnishes one of the two gasoline storage tanks, and the contractors furnish one tank, all fittings for both tanks and installs both tanks.
 IV Unit Prices.
 (1) 2-in. extra heavy gals. steel screw joint pipe, per lin. ft.;
 (2) 2½-in., do, per lin. ft.;
 (3) 2½-in. anchor, per each;
 (4) 2½-in. expansion joint, per each;

- (5) 6-in. terra cotta pipe, per lin. ft.;
 (6) 2-in. std. weight genuine wrought iron pipe galv., per lin. ft.;
 (7) Concrete, per cu. yd.;
 (8) 2-in. gate valves, per each;
 (9) 2½-in. da., per each;
 (10) Sheet piling ordered left in place, per M.F.B.M.;
 (11) Creosoted wood platform, per M.F.B.M.;
 (12) Mission tile (in place), per 100 sq. ft.

Complete bids follow:

- (A) Frank J. Reilly, San Francisco, \$6121.
 (B) Bennett & Taylor, Los Angeles, \$7448.
 (C) Baldwin & Butler, Berkeley, \$7674
 (D) F. W. Snook, San Francisco, \$10,249.
 (E) Acqua System, Inc., New York City, \$10,826.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)
I	\$6121.00	\$7448.00	\$7674.00	\$10,249.00	\$10,826.00
II	500.00	590.00	500.00	800.00	1,000.00
III	525.00	890.00	525.00	580.00	850.00
(1).....	.70	.48	.50	.85	.50
(2).....	.92	.58	.95	1.10	.70
(3).....	10.00	15.00	10.00	8.00	2.00
(4).....	67.00	35.00	67.00	25.00	32.00
(5).....	.60	.48	.50	.40	.65
(6).....	.52	.35	.65	.60	.40
(7).....	14.00	16.00	16.00	12.00	13.00
(8).....	16.00	19.00	8.00	6.00	9.00
(9).....	18.00	25.00	15.00	10.00	12.00
(10).....	50.00	120.00	80.00	60.00	30.00
(11).....	225.00	240.00	260.00	300.00	40.00
(12).....	.....	30.00	32.00	20.00	40.00

TULARE COUNTY, Cal.—Hemstreet & Bell, 501 Eleventh St., Marysville, at \$89,913.50 submitted low bid to the Bureau of Public Roads, C. H. Sweetser, District Engineer, 461 Market St., San Francisco, for placing a bituminous treated crushed rock base course on Sections C1, C2, D1 and D2 of Route 1, the Generals Highway, Sequoia National Park in Tulare County, involving:

- (1) 7000 cu. yds. unclass. excav.;
- (2) 130 cu. yds. unclass. excav. for structures;
- (3) 9,287 mn. fine grading, subgrade and shoulders;
- (4) 1750 M. gals watering;
- (5) 16,500 tons cru. rock for bottom layer base course;
- (6) 11,100 tons cru. rock for top layer base course;
- (7) 1000 tons supplemental crushed rock;
- (8) 27,000 gals. liquid asph. material type S.C.-1A in place;
- (9) 650 tons liquid asph. type M.C.-5 in place;
- (10) 456 lin. ft. C.M.P., 8-in. perforated, in place;
- (11) 100 cu. yds. cru. rock or gravel for backfill;
- (12) 1.80 M.F.B.M. redwood planking in place;
- (13) 7000 cu. yd. ml. haul unclass. excav.

Complete bids follow:
 (A) Hemstreet & Bell, Marysville, \$89,913.50.
 (B) M. J. Bevanda, Stockton, \$166,832.20.
 (C) Engineer's Estimate, \$123,929.40.
 Unit bids follow:

	(A)	(B)	(C)
(1)	\$ 1.00	\$ 1.00	\$.80
(2)	2.50	2.50	1.50
(3)	500.00	600.00	400.00
(4)	1.50	3.50	2.00
(5)	1.80	4.00	3.10
(6)	2.30	4.50	3.55
(7)	1.80	3.75	3.15
(8)	.07	.10	.08
(9)	22.00	32.00	23.50
(10)	1.25	2.50	1.10
(11)	3.00	4.00	3.00
(12)	100.00	150.00	80.00
(13)	.15	.40	.15

Award of contract to low bidder recommended.

BIDS OPENED

TRINITY COUNTY, Cal.—Hemstreet & Bell, 501 11th St., Marysville, at \$111,523.95 submitted low bid to State Highway Commission, Sacramento, for grading and treating with fuel oil about 2.3 mi. between 1.8 mile west of Burnt Ranch and McDonald Creek, in Trinity County, involving:

- (1) 18 acres clear and grub right of way;
- (2) 174,100 cu. yds. rdwy. excav., unclassified;
- (3) 580,000 sta. yds. overhaul;
- (4) 4,345 cu. yds. struc. excav.;
- (5) 1,730 cu. yds. backfill;
- (6) 6,900 cu. yds. select. material;
- (7) 27 cu. yds. Class A Port. cem. conc. struc.;
- (8) 1,970 lbs. bar. reinf. steel, struc.;
- (9) 1,150 lin. ft. 18-in. CMP;
- (10) 270 lin. ft. 24-in. CMP;
- (11) 80 lin. ft. 30-in. CMP;
- (12) 220 lin. ft. 72-in. CMP;
- (13) 40 lin. ft. CMP clean and relay;
- (14) 310 lin. ft. 8-in. perf. metal pipe;
- (15) 68 MFEBM select all-heart struc. grade redwood, timber cribs;

- (16) 50 each timber guide posts and culvert markers complete in place;
- (17) 140 each timber guide posts move and reset;
- (18) 730 lin. ft. laminated timber guard rail, move and reset;
- (19) 220 M. gals. water;
- (20) 310 bbls. heavy fuel oil;
- (21) 940 cu. yds. rubble masonry wall;
- (22) 124 sta. finish rdwy.;
- (23) 120 each monuments complete in place.

Complete bids follow:

(A) Hemstreet & Bell, Marysville, \$111,523.95.
 (B) Von Der Hellen & Pierson, Castaic, \$112,004.20.
 (C) Contoules Constr. Co., San Francisco, \$113,381.20.

(23)	(A)	(B)	(C)
(1)	\$140.00	\$200.00	\$150.00
(2)	.42	.41	.41
(3)	.005	.008	.005
(4)	1.25	1.00	1.00
(5)	.50	.50	.50
(6)	.40	.50	.40
(7)	25.00	30.00	25.00
(8)	.06	.06	.06
(9)	1.80	1.50	2.00
(10)	2.75	2.50	3.00
(11)	8.45	3.50	3.50
(12)	15.90	15.00	16.50
(13)	.50	.50	.50
(14)	1.50	1.50	1.60
(15)	67.00	70.00	80.00
(16)	2.00	2.00	2.00
(17)	1.00	1.00	1.00
(18)	.50	.50	.50
(19)	1.00	2.00	1.00
(20)	4.00	3.50	4.00
(21)	9.00	9.00	12.00
(22)	5.00	5.00	8.00
(23)	3.00	3.00	3.00

BIDS OPENED

HAMILTON FIELD, Marin Co., Cal.—Following bids received by the Constructing Quartermaster, Hamilton Field, for dredging a channel and turning basin in San Pablo Bay, at Hamilton Field:

- (1) Lump sum.
- (2) Dredging to five feet in place of seven.
- (3) Excavation by bucket; dredging 337,000 cu. yds.
- (4) Excavation by bucket; dredging 309,000 cu. yds.
- (5) Dredging by hydraulic, per cu. yd., place measurement.
- (6) Dredging by bucket, per cu. yd. place measurement.

Standard Dredging Co.....(1) \$37,070.00
 (5) .11
 Dutton Dredg. Co., S. F.(3) \$28,475.00
 (4) 23,175.00
 (6) .06
 French Contracting Co.....(3) \$30,300.00
 (6) .09

CONCRETE SHED—FORT MASON—SAN FRANCISCO

FORT MASON, Cal.—K. E. Parker, 135 South Park, San Francisco, at \$105,800 submitted low bid to the Constructing Quartermaster, Fort Mason, for two-story steel and concrete shed and utilities (concrete walls, steel floor and roof) at Pier No. 1, Fort Mason.

Complete bids follow:

(A) K. E. Parker Co., San Francisco, \$105,800.
 (B) Wm. Spivock, San Francisco, \$112,200.
 (C) C. L. Wold Co., San Francisco, \$117,887.
 (D) Clinton Constr. Co., San Francisco, \$118,000.
 (E) H. L. Petersei, San Francisco, \$118,400.
 (F) MacDonald & Kahn, San Francisco, \$118,811.
 (G) Cahill Bros., San Francisco, \$119,900.
 (H) H. M. Baruch, Los Angeles, \$122,740.
 (I) San Francisco Constr. Co., San Francisco, \$122,948.
 (J) Schuler & McDonald, Oakland, \$123,000.
 (K) A. Nelson and H. S. Meinberger, San Francisco, \$125,542.

Bids were taken as follows:
 I Work complete;
 II Add or deduct, if two leaf steel doors are installed in lieu of the rolling steel doors specified;

	(I)	(II)	(III)	(IV)	(IV-A)	(IV-B)
(A)	\$105,800	add \$300	add \$679	ded. \$1166	add \$865	ded. \$873
(B)	112,200	add 400	ded. 600	ded. 1400	add 600	ded. 380
(C)	117,887	ded. 100	ded. 350	ded. 1750	ded. 750	ded. 100
(D)	118,000	add 600	add 800	ded. 1400	add 600	ded. 100
(E)	118,400	add 726	add 886	ded. 2584	add 600	ded. 362
(F)	118,811	add 441	add 903	ded. 1742	add 574	.....
(G)	119,900	ded. 555	ded. 875	ded. 2750	add 550	ded. 350
(H)	122,740	add 300	add 1000	ded. 1000	ded. 500	ded. 300
(I)	122,948	add 942	add 770	ded. 1600	.....	ded. 314
(J)	123,000	add 3100	add 5000	ded. 2750	add 750	ded. 360
(K)	125,542	add 2541	add 962	add 2630	add 650	ded. 359

III Add or deduct, if asbestos protected metal roofing is installed in lieu of the steel deck roof with insulation and built-up roofing specified;
 IV Add or deduct, if redwood sheathing with built-up roofing is installed in lieu of the steel deck roof with insulation and built-up roofing specified;
 IV-A Deduct, if the shed on Pier No. 1 is removed by the U. S., instead of by the contractor;
 IV-B Deduct, if a standard stock Trolley Hoist is furnished and installed in lieu of the Trolley Hoist as originally specified.
 V Unit prices:
 (1) per cu. yd. concrete, Class A including forms;
 (2) per cu. yd. concrete Class B including forms;
 (3) per 100 lbs. reinforcing steel;
 (4) per sq. ft. asph. flooring plank;
 (5) per sq. asphaltic tile;
 (6) per sq. ft. asphaltic conc. paving (1st Floor);
 (7) per sq. ft. 6-in. tile partitions;
 (8) per sq. yd. gypsum plaster (float finish);
 (10) per sq. yd. gypsum plaster (Keenes cement finish);
 (11) per sq. yd. 6-in. cement base;
 (12) per lb. structural steel.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)
(1)	\$13.55	\$15.00	\$14.00	\$19.00	\$14.00	\$16.00	\$ 7.50	\$21.25	\$16.00	\$14.00	\$12.50
(2)	13.55	15.50	18.00	21.00	15.00	17.00	14.00	21.25	18.00	13.25	13.50
(3)	4.00	*\$0.00	5.00	5.00	4.70	4.60	4.75	3.50	4.00	4.60	4.68
(4)	.11	.17	.15	.17	.18	.20	.17	.50	.15	.16	.16
(5)	.25	.20	.50	.18	.20	.18	.17	.30	.25	.20	.23
(6)	.045	.08	.05	.12	.11	.12	.12	.20	.12	.12	.12
(7)	.18	.25	.25	.26	.23	.22	.20	.21	.26	.22	.27
(8)	.15	.20	.21	.21	.19	.17	.16	.16	.16	.16	.20
(9)	.45	.40	.50	.50	1.15	.55	.50	.60	.40	.60	1.20
(10)	.55	.50	.60	.60	1.35	.65	.60	.70	.50	.90	1.30
(11)	.25	.20	.20	.30	.25	.20	.15	.25	.30	.15	.30
(12)	.045	.04	.05	.06	.04	.045	.04	.05	.038	.052	.045

* Price per ton.

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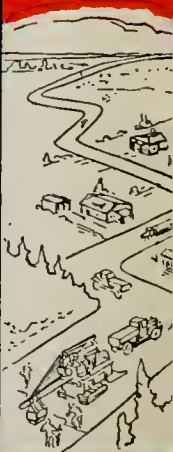


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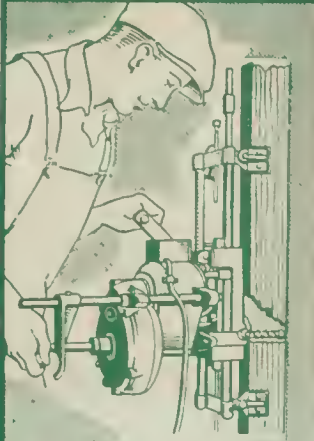
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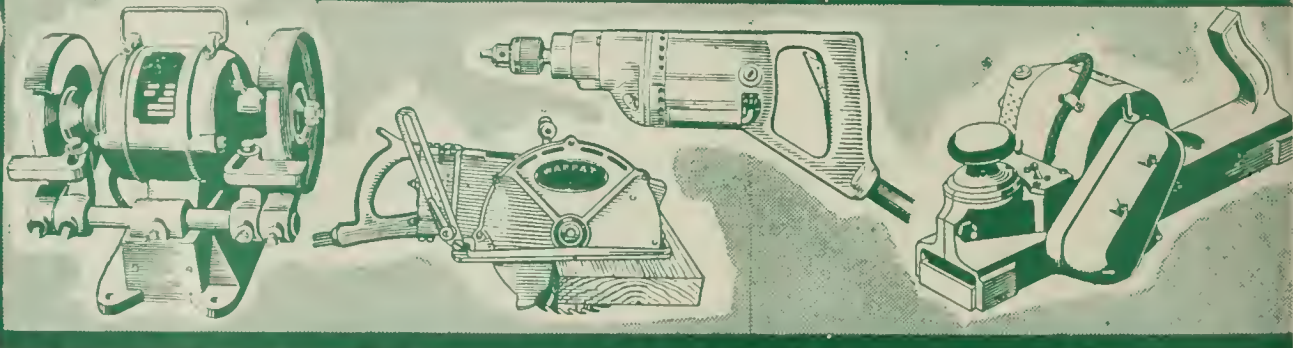
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SAN FRANCISCO, CALIF., DECEMBER 23, 1933

No. 49

Water Project and \$5,000,000 Local Bond Issues Win at Special Election

The Central Valley water conservation and power project, entailing the largest construction program ever planned in Northern California, was placed a step nearer consummation Tuesday by approval at the special state election of an act creating the State Water Project Authority. This board, composed of five state officials, is empowered to proceed with the water development plan to be financed by revenue bonds. The estimated cost of two dams, power plants, transmission line and necessary canals to accomplish the authorized program is \$170,000,000.

The Federal government will be asked to contribute 30 percent of the cost of labor and materials from PWA funds and to loan the balance of the cost on the revenue bond security.

Reports yesterday indicated that a group of municipal and county bond issues in Northern California on the special ballot were carried to authorize new building and other public works totaling more than \$5,000,000.

The school building proposals in San Francisco were endorsed by the voters, providing \$3,000,000 for construction of new buildings and necessary alterations and additions.

The city of Eureka carried a revenue bond issue by a vote of 6 to 1 providing for construction of a new water supply from the Mad River, entailing construction of a 115-foot dam, supply pipe line and storage reservoir. The estimated cost of the project is \$1,134,000. Bonds totaling \$925,000 were authorized and an application has been made for a PWA grant for the balance. C. C. Kennedy, Call Building, San Francisco, is consulting engineer on the project.

Fresno county and city voted in favor of bonds for a new county hall of records, a civic auditorium, and storm sewer. The issues together with expected Federal grants will total approximately \$1,000,000.

Bonds for \$70,000 were carried in Madera county to pay for a county hospital addition.

Alameda county voters, however, rejected every bond proposal on the ballot, blocking plans for approximately \$6,000,000 in new construction. The proposal for a new county courthouse to cost \$1,712,000, for which federal money already has been granted was lost by about a thousand votes. School building bonds in Alameda city, Piedmont and Albany were defeated. All public works issues in Oakland failed of the necessary two-thirds majority.

127,720 EMPLOYED ON NRA HIGHWAY CONSTRUCTION

Public Roads Bureau Reports Contracts Totaling \$188,303,000 Awarded

Public works highways under construction by the states on December 9 were employing directly 127,720 men under the Federal Public Works appropriation provided for in Section 204 of the National Industrial Recovery Act, according to a tabulation of work in progress issued by the Bureau of Public Roads, U. S. Department of Agriculture.

This force of men was divided between contract and day labor projects as follows: 99,341 men on 1,989 projects let by contract and 28,379 men on 564 projects on which the labor is employed directly by the highway authorities.

The estimated cost of work under construction on December 9 was \$141,795,000, of which \$127,898,000 was by contract and \$13,897,000 was by day labor employed directly by the highway authorities.

Awards of 3,699 projects at an estimated total cost amounting to \$188,303,000 have been made out of a total of 4,808 projects advertised for contract involving an estimated expenditure of \$233,989,000.

On December 9, the work advertised for contract or started by day labor employed by the highway authorities involved 54.8 per cent of the \$400,000,000 provided for highways under Section 204 of the National Industrial Recovery Act.

There were 297 projects, involving a total expenditure of \$7,337,000 reported by the Bureau of Public Roads as completed on December 9. Of these, 94 were completed during the week ending December 9.

LOCAL FIRMS LOW ON CANAL WORK

YUMA, Ariz., Dec. 20.—A combination low bid of \$1,198,000 on Schedule 1 of the excavation for the All-American Canal in Arizona and California was submitted to the Bureau of Reclamation today by Henry J. Kaiser, Oakland, John Phillips Co., and Bechtel Bros., San Francisco. On Schedules 2 and 3 the low bids were offered by a combination of Utah Construction Co., Salt Lake City, Morrison - Knudsen Company, Boise, and MacDonald and Kahn, San Francisco. Their bid on Schedule 2 was \$778,668 and Schedule 3, \$793,063.

(A complete list of bids appears in the Advance Report section today.)

FAIRFIELD, Mont., Dec. 20.—Morrison-Knudsen Co., Boise, at \$72,105 submitted low bid to the Reclamation Service here today for earthwork and drainage structures on the Greenfields Division, Sun River project.

Stanislaus county also rejected \$497,000 in two bonds issues to finance a courthouse and an addition to the county hospital.

The proposed Yuba county hospital bond issue of \$55,000 also was defeated.

Bonds for a new high school building, including a swimming pool, were voted by the city of Coalinga, Fresno county.

San Luis Obispo county defeated bonds aggregating \$246,000 providing for a new court house, memorial hall and hospital addition.

OSSIAN CARR ON STATE PWA STAFF

Ossian E. Carr, former city manager of Oakland, has been appointed engineer inspector of all California projects toward which the Public Works Administration has advanced funds. The appointment was made directly by Administrator Harold L. Ickes.

DEMAND RETURN OF \$5,000,000 HIGHWAY FUNDS

Contractors Condemn Diversion of Gas Money From State Treasury

Immediate return of \$5,000,000 in gasoline tax revenues "borrowed" from the state highway funds is demanded in a resolution adopted at the annual meeting of the Northern California Chapter, Associated General Contractors in San Francisco Friday.

The resolution, addressed to the Governor, State Controller, Department of Public Works and Director of Finance states:

WHEREAS, the State Gasoline Tax is a privilege tax paid by motorists for the construction and maintenance of state highways only, and

WHEREAS, during the last year state officials have diverted millions of dollars of this revenue for other purposes against the wishes of our citizens as expressed in the November, 1932 and June 1933 elections, and

WHEREAS, this practice has the effect of retarding State highway construction which would give a great many persons employment in accordance with the President's Recovery Program.

THEREFORE, be it resolved that we, the Northern California Chapter of Associated General Contractors condemn this practice of diverting special funds and demand the immediate return of the five million (\$5,000,000) dollars now diverted from the gasoline tax fund in order that more men may be put to work this winter.

The chapter also adopted a resolution endorsing the policy of Director of Public Works Earl Lee Kelly in opposing the extension of day labor methods.

The text of the resolution follows: WHEREAS, the policy of constructing public works by day labor is extravagant, slow and detrimental to public interest, and

WHEREAS, such governmental competition with private enterprise deprives established business institutions in the construction industry of their specialized business, and

WHEREAS, Mr. Earl Lee Kelly, Director of Public Works has in the public interest opposed all attempts to introduce this system on state highway work;

THEREFORE, be it resolved that we, the Northern California Chapter of Associated General Contractors heartily approve the firm stand which Mr. Kelly has taken for economy and efficiency and

BE IT FURTHER RESOLVED, That on behalf of the Construction Industry we express our appreciation to Mr. Kelly for his defense of the Contract system and that we pledge our support of his policies.

A third resolution commended San Francisco city officials, including Mayor Angelo Rossi, Chief Administrative Officer A. J. Cleary, Director of Public Works W. H. Worden, Manager of Utilities Edward G. Cahill and Nelson A. Eckhart, manager of the water department, for the efficient preparation of projects on which \$20,000,000 in bonds were voted last November.

Three new directors were elected to the chapter board, succeeding three retiring members. The directors-elect are C. V. Isbell of the Isbell Construction Co., Carson City; H. S. Lord, of Lord and Bishop, Oroville, and Warren A. Bechtel, Jr., of W. A. Bechtel Co. They succeed Clyde W. Wood, John Phillips and K. K. Bechtel.

Reviewing the past year in his annual report, Secretary-Manager Floyd O. Booe said:

"As I look through this report of one year ago, we seem to have been worrying a great deal about some matters that have since become somewhat insignificant and the ill effects of which have been eliminated by that magic healer of all things—Time. In this connection I need only refer to one subject at that time was of paramount importance, and that was the state prevailing wage law on public works. How much more drastic and far-reaching, both in manner of regulation and in final effects, comparatively speaking, are the Federal laws and regulations regarding labor, which are now provided under the National Industry Recovery Act than anything we ever dreamed of one year ago and, strange to relate, under the national emergency, most of us have accepted these new developments very calmly, are proceeding with our work thereunder, there have been no ill effects and, incidentally, they have reflected no increase in construction costs, so far as contractors' bid prices are concerned.

ALAMEDA CHAPTER

MEETING TUESDAY

Alameda county chapter, Associated General Contractors, held their annual business meeting December 12.

The retiring president, S. G. Johnson, in his report on the conditions of the last year struck a note of optimism for the outlook for 1934 and highly praised Manager Wm.

E. Hague for his successful activity in promoting a future construction program of such large dimensions that the contractors of the East Bay may now feel assured of an active year for 1934. Among other undertakings President Johnson pointed out that the school building program alone now seems likely to run to over twelve million dollars worth of work. Although the voters have not yet taken action to vote the necessary bonds yet the situation seems favorable for a "yes" vote.

W. E. Lyons, H. J. Christensen and Geo. J. Maurer were unanimously elected directors for the 1934-1935 term. Mr. Maurer is now the vice-president of the chapter and has been taking an active interest in its activities during the past year.

Among the speakers at the Alameda County Chapter annual meeting was Floyd O. Booe, Manager of Northern California chapter. Speaking in an optimistic strain he prophesied that 1934 was certain to prove the best construction year this State has known for several years past.

W. G. Thornally, as chairman of the Building Promotion Committee, pointed out the great need of all lines of contractors pulling together to improve conditions and help the great prospective activity in building to be profitably carried out with fair wages and fair profits for all.



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PERMITS AND CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
886	Hoffner	Todhunter	1000
887	Stradi	Glusti	6000
888	Taylor	Owner	1000
889	Sinton	Jensen	21000
890	Stamer	Young	5000
891	DeBarbieri	Murer	15000
892	Howard	Brueck	1500
893	Segalas	Wengard	1300
895	Congregation	Owner	20000
896	Ghiradini	Johnson	2750

REPAIRS

(886) NO. 211 TWENTY-SEVENTH St. Repair fire damage to dwelling.

Owner—E. Hoffner, Premises.
Architect—Not Given.
Contractor—G. C. Todhunter (Day work). \$1000

STORE

(887) SW WEBSTER and Chestnut; one-story frame store.

Owner—Mrs. M. Stradi, 3249 Webster.
Engineer—W. Adrian, 417 Market St.
Contractor—S. A. Giusti, 200 Green Street. \$4000

ALTERATIONS

(888) 89 URANUS TERRACE; alter dwelling.

Owner—Amy H. Taylor, 79 Uranus Terrace.
Architect—Not Given. \$1000

DWELLING

(889) E DIVISADERA ST. 50 N Pacific Ave. Three-story and basement frame dwelling.

Owner—Mr. and Mrs. Stanley Sinton Jr., % G. P. W. Jensen.
Architect—A. McSweeney, 277 Pine St., San Francisco.
Contractor—G. P. W. Jensen, 320 Market St., S. F. \$21,000

DWELLING

(890) SE TWENTY-FIFTH AVE & Lincoln Way. One-story and basement frame dwelling.

Owner—Mrs. Lilly S. Stamer, 496 Castro St., San Francisco.
Plans by J. H. Devitt, 222 Kearny St., San Francisco.
Contractor—Young & Horstmeyer, 461 Market St., San Francisco. \$5000

APARTMENTS

(891) E POWELL 37 S Greenwich St. Three-story and basement frame apartments.

Owner—Mr. and Mrs. A. De Barbieri, 637 Greenwich St., San Francisco.
Architect—J. Baker.
Contractor—L. Murer, 1274 Quesada St., San Francisco. \$15,000

MILL

(892) N BURROWS 100 W San Bruno Ave. One-story frame mill.

Owner—J. Howard, 114 Burrows St., San Francisco.
Architect—Not Given.
Contractor—M. Brueck, 600 Bayshore Blvd., San Francisco. \$1500

ALTERATIONS

(893) NO. 3746 TWENTY-FOURTH St. Alter apartments.

Owner—Marie Segalas, 3746 24th St., San Francisco.
Architect—Fabre & Hildebrand, 110 Sutter St., San Francisco.
Contractor—Carl Wengard, 546 Sansome St., San Francisco. \$1300

STORE

(894) N CHESTNUT St. 41 W Malcorra Way. One-story Class C store building.

Owner—Martin Stelling Jr., 155 Montgomery St., San Francisco.

Architect—F. E. Lloyd, 360 Pine St., San Francisco.

Engineer—R. S. Chew, 589 Post St., San Francisco.

Contractor—De Luca & Son, Inc., 1745 Filbert St., S. F. \$2500

CHURCH

(895) SW FOURTEENTH AVE AND Clement St. Class C church.

Owner—Congregation Beth Shalom, 340 14th Ave., San Francisco.

Architect—F. W. Dalson, 625 Market St., San Francisco.

Engineer—F. W. Kellberg, 320 Market St., San Francisco. \$20,000

STORE AND DWELLING

(896) SW RUSSIA AND MUNICH. One-story frame store and dwelling.

Owner—G. Ghiradini, 419 Brussels St., San Francisco.

Architect—Not Given.
Contractor—J. F. Johnson, 375 Woodson St., San Francisco. \$2750

ALAMEDA COUNTY

543	Federal	Owner	5344
544	LeProtti	Owner	1000
545	Cordes	Lyons	3500
546	Safeway	Parker	1950

ALTERATIONS

(543) NO. 329 JEFFERSON STREET, OAKLAND. Alterations.

Owner—Federal Emergency Relief Administration, 611 State Bldg., San Francisco.
Architect—Not Given. \$5344

DWELLING

(544) NO. 290 WHITMORE STREET, OAKLAND. One-story two-room dwelling.

Owner—John Le Protti, 4900 Broadway, Oakland.
Architect—Not Given. \$1000

ALTERATIONS

(545) NO. 2310 SHATTUCK AVE., BERKELEY. Alterations and additions.

Owner—T. W. Corder, Inc.
Architect—Not Given.
Contractor—W. E. Lyons, 354 Hobart St., Oakland. \$3500

PLATFORM

(546) E HARRISON ST., bet. First & Second Sts., OAKLAND. Loading platform.

Owner—Safeway Stores.
Engineer—J. Rosenwald, 525 Market St., San Francisco.
Contractor—K. E. Parker Co., 133 South Park, S. F. \$1950

SAN FRANCISCO UNDER \$1000

SIGN, cloth, \$20; 2610 Mission Street; owner, The Shoe Mart, Prem.; contractor, S. B. Daggett, 335 Van Ness Ave.

FLUES, (3), \$75; W 28th Ave. 240 N Cabrillo St.; owner, F. E. Mohler, 751 28th Ave.

SIGN, electric, \$75; 230 Market St.; owner, Market Liquor Store, 230 Market St.; contractor, Elec. Prod Corp., 255 Golden Gate Ave.

ALTER warehouse, \$400; SE Pacific and Montgomery; owner, J. D. Rafken, % Contractor; contractor, Barrett & Hill, 918 Harrison St.

SIGN, electric, \$75; 5408 Geary St.; owner, Atlas Liquor Co., Prem.; contractor, Elec. Prods. Corp., 255 Golden Gate Ave.

ALTER store, \$350; 3674 18th St., owner, J. Salv, 3672 18th St.; contractor, Fracchia & Truffelli, 2450 Chestnut St.

BILLBOARD, \$25; Market, Larkin and Hayes Sts.; owner, Foster & Kleiser Co., 1675 Eddy St.

SIGN, electric, \$145; 79 West Portal; owner, M. Cuneo, 79 West Portal; contractor, Neon Sign Service Co., 1707 Folsom St.

SIGN, electric, \$290; 2689 Mission St.; owner, Jack Bund, Premises; contractor, Neon Sign Service Co., 1707 Folsom St.

REPAIR fire damage to apartments, \$400; 3045 Franklin St.; owner, B. Lercari, % 64 Brady St.; contractor, A. L. Thulin, 63 Brady St.

SIGN, metal, \$20; 710 Montgomery St. owner, Black Cat Cafe, 710 Montgomery St.; contractor, Jay's Sign Studio, 236 Chicago Way.

ALTER store, \$500; 391 29th St.; owner, Kelsey De Fene, 391 29th St.

ALTER store, \$240; 1269-1271 Golden Gate Ave.; owner, M. S. Rose, 1275 Golden Gate Ave.; contractor, Royal Showcase Co., 770 McAllister St.

SIGN, electric, \$125; 3251 Scott St.; owner, J. Pavla, 3251 Scott St.; contractor, Laib, 7th and Folsom.

SIGN, electric, \$90; 444 Clement St.; owner, Park Presidio Bakery, 444 Clement St.; contractor, Laib, 7th and Folsom Sts.

ALTER apartments, \$280; 824 Hyde St.; owner, Virginia and Laura Chaton, 824 Hyde St.; contractor, H. E. Drake, 666 Mission St.

GARAGE, private, one-story frame, \$75; S California 90 W Palm Ave.; owner, H. E. Drake, 666 Mission

SIGN, metal frame, \$17.50; 528 Third St.; owner, Chocolate Sales Corp., Prem.; contractor, Osthoff & Co., Inc., 501 3rd St.

SIGN, electric, \$130; 1441 Taraval St.; owner, K. Ishikawa, Premises; contractor, Neon Sign Service Co., 1707 Folsom St.

ALAMEDA COUNTY UNDER \$1000

ALTERATIONS, \$475; 466 12th St., Oakland; owner, Wm. W. Keller, Roberts Landing Road; contractor, Wiggins & Swanson, 5733 Grisborne Ave.

ALTERATIONS, \$800; 2116 Broadway, Oakland; owner, James Alphas, 2116 Broadway; contractor, Bay City Cabinet Co., 1076 Fifth St.

ALTERATIONS, \$800; 1950 Broadway, Oakland; owner, Elks Lodge, 1950 Broadway; contractor, David Nordstrom, 4150 Emerald St.

CHIMNEY, patent, \$22; 2820 Harrison St., Oakland; owner, Thos. Lock, 2820 Harrison St.

FIRE repairs, \$450; 368 12th St., Oakland; owner, Central Bank, 14th and Broadway; contractor, Willis F. Lynn, 1037 Ashmount Ave.

ALTERATIONS and addition, \$400; 4915 Broadway, Oakland; owner, Colombo Club, Inc., Premises; contractor, M. E. Valente, 5118 Clarke

ALTERATIONS, \$200; 3001 Chapman St., Oakland; owner, Coco Cola Bottling Co., 3001 Chapman St.; contractor, George Windsor, 928 Kingston Ave.

FIRE repairs, \$395; 3843 Grove St., Oakland; owner A. Thomas, 3843 Grove St.; contractor, F. C. Stolfe Co., 3455 Laguna Ave.

ALTERATIONS, \$149; 2701 Woolsey St., Berkeley; owner, Dr. Thomas McGuire, Prem.; contractor, Oakland Star Roof Co., 1737 E-12th St., Oakland.

BUILDING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

1.—Apartments	Offices
2.—Bonds	11.—Ice and Cold Storage Plants
3.—Churches	12.—Power Plants
4.—Factories and Warehouses	13.—Public Buildings, Fire Houses and Jails
5.—Flats	14.—Residences
6.—Garages and Service Stations	15.—Schools
7.—Federal Buildings	16.—Banks, Stores and
8.—Club Buildings	17.—Theatres
9.—Hospitals	18.—Wharves & Docks
10.—Hotels	19.—Misc. Const.
	20.—Misc. Supplies & Materials

1— APARTMENTS

Plans Being Revised.
APARTMENTS Cost, \$25,000
SAN FRANCISCO. NW Montgomery and Alta Streets.
 Three-story and basement frame and stucco apartment building (nine 3-room apartments) composition roof, steam heating system, electric refrigeration, hardwood floors, etc.
 Owner—Crown Development Co.
 Architect—M. J. Rist, Phelan Bldg.
 Bids ran high. Slight revisions will be made in the plans.

Contract Awarded.
APARTMENTS Cost, \$15,000
SAN FRANCISCO. E Powell St. 37 S Greenwich St.
 Three-story and basement frame and stucco apartments.
 Owner—A. DeBarbieri, 673 Greenwich St., San Francisco.
 Plans by J. Baker.
 Contractor—L. Murer, 1274 Quesada St., San Francisco.

Contract Awarded.
ALTERATIONS Cost, \$1500
SAN FRANCISCO. No. 3746 Twenty-fourth Street.
 Alterations to apartments.
 Owner—Marie Segalas, 3746 24th St., San Francisco.
 Architect—Fabre & Hildbrand, 140 Sutter St., San Francisco.
 Contractor—Carl Wengard, 516 Sansome St., San Francisco.

3— CHURCHES

Preparing Working Drawings.
CHURCH Cost, \$25,000
NORTH SACRAMENTO. Sacramento Co., Calif.
 One-story reinforced concrete church (to seat 400).
 Owner—Roman Catholic Archbishop.
 Architect—Harry Devine, California State Life Bldg., Sacramento.
 Father Murphy, Rector of the proposed new church.
 New bids will be asked about January 2.

Plans Completed.
CHURCH Cost, \$30,000
SAN FRANCISCO. Fourteenth Ave. and Clement St.
 One-story reinforced conc. and steel church (to seat 700) felt, gravel and terra cotta tile roof, some tile work, etc.
 Owner—Congregation Beth-Shalom.
 Architect—F. W. Dakin, 625 Market Street.
 Contractor—Not Selected.

4— FACTORIES & WAREHOUSES

Contract Awarded.
BREWERY Cost, \$250,000
SAN FRANCISCO. Tenth and Bryant Streets.
 Stock house, bottling house and enlarging present brewery (Class A steel, concrete and brick construction).
 Owner—Milwaukee Brewing Co., 490 Tenth Street.
 Engineer—W. E. Murray, 908 Hayes.
 Contractor—Cahill Bros., 206 Sansome St., \$14,200.
 As previously reported, structural steel contract awarded to Herrick Iron Works, 18th and Campbell Sts., Oakland.

Plans Being Prepared.
BUILDINGS Cost, \$10,000
ALAMEDA. Alameda Co., Cal. Corporation Yard (North End Grand Street).
 Group of seven reinforced concrete buildings, (sheds, etc.)
 Owner—City of Alameda.
 Engineer—Leo C. Brumm, 1714 Pearl St., Alameda.
 Work will probably be done by local labor.

Contract Awarded.
ADDITION Cost, \$5000
FRESNO. Fresno Co., Cal. No. 2009 East Street.
 Two-story concrete and brick addition to packing plant.
 Owner—Bonner Packing Co., Brix Bldg., Fresno.
 Architect—Charles Butner, 51 Maple St., Salinas, & Cory Bldg., Fresno.
 Contractor—Walter T. Harris, 577 McKinley St., Fresno.
 Electrical work will be done by owner.

HAMILTON FIELD, Marin Co., Cal.
 —Until Dec. 29, 11 A. M., bids will be received by the Constructing Quartermaster, Hamilton Field for the construction of an ordnance warehouse at Hamilton Field. Plans and specifications may be secured from above office upon deposit of \$10. Copy of plans may be seen at Builders' Exchange, 666 Mission St., San Francisco, or at the office of the Constructing Quartermaster, Fort Mason.

MARCH FIELD, Riverside, Calif.—Meyer Bros., 3407 San Fernando Road, Los Angeles, at \$31,084 awarded the contract by War Department for construction of ordnance warehouse at March Field. Recommendation was made that contract be awarded to the low bidder. Will be a one-story structure, 123x65 feet in area, with concrete foundations, asbestos protected metal roofing or steel deck with built-up roofing, hollow tile walls, brick partitions, stucco exterior, steel roof trusses, reinforced concrete floor, steel sash, metal folding doors, metal ventilators, slate work and gas-fired unit heating system.

HAMILTON FIELD, Marin Co., Cal.—Oliver S. Almille, 60 Sussex St., San Francisco, awarded the following sub-contracts for the construction of a one-story reinforced concrete quartermaster's warehouse (160x65) at Hamilton Field.

The contract involves: excavation, filling, grading, concrete piling, reinforced concrete walls, concrete floor slab, tile partitions, steel door frames

and doors, wire mesh partitions, butcher's monorail, steel shelving, tubular steel window and wood door frames, insect screens, copper screen cloth, asbestos protected metal roof, alternate built-up roofing on wood deck, sheet metal, plastering exterior, stucco, gunitite, hardware, painting, glazing, electric water cooler, plumbing, lavatory fixtures, standpipe and fire hose, cold storage room insulation, automatic refrigeration system, cold storage room shelving, metal rack, gas steam heating system with automatic controls, interior lighting, wiring and fixtures.
Roofing—Alta Roofing Co., 976 Indiana St., San Francisco.
Steel Shelving—Fred. Medart Mfg. Co., 7 Front St., San Francisco.
Metal Partitions—The Mills Co., Russ Bldg., San Francisco.
Wire Partitions—Standard Fence Co., 1940 San Bruno Ave., San Francisco.

HAMILTON FIELD, Marin Co., Cal.—Robert E. McKee, 108 W. 6th St., Los Angeles, awarded the structural steel contract to the Consolidated Steel Corporation, Los Angeles, for the operations hangar and double hangars at Hamilton Field. Cost, \$845,000. Other sub-contracts reported December 1st.

Planned.
DISTILLERY Cost, \$100,000
YAKIMA, Washington.
 Industrial alcohol plant (500 gal. daily capacity).
 Owner—Group of Tacoma capitalists.
 Engineer—K. F. Vaughn.
 Excavation of the site will start immediately.

Construction Postponed Indefinitely.
WAREHOUSE Cost, \$9000
VALLEJO, Solano Co., Calif. Pennsylvania and El Dorado Streets.
 Construct new warehouse (garage, meter testing plant and storage unit).
 Owner—Vallejo Electric Light & Power Company.
 Architect—To Be Selected.

Contract Awarded.
MILL Cost, \$1500
SAN FRANCISCO. N Burrows St. 100 S San Bruno Ave.
 One-story frame mill.
 Owner—J. Howard, 114 Burrows St., San Francisco.
 Architect—Not Given.
 Contractor—M. Brueck, 600 Bayshore Blvd., San Francisco.

5— FLATS

Preparing Sketches.
FLATS Cost, \$—
SAN FRANCISCO. Marina District.
 Two-story and basement frame and stucco flats (2 3-room flats); tile and composition roof, gas heating system, hardwood floors, etc.
 Owner—Withheld.
 St., San Francisco.
 Architect—R. R. Irvine, 2048 Market

6— GARAGES & SERVICE STATIONS

Preparing Plans.
ADDITION Cost, \$—
MORGAN HILL. Santa Clara Co., Cal.
 Addition to poultry plant.
 Owner—Withheld.
 Plans by Erickson Bros.
 Contractor—Erickson Bros., 1863 8th Ave., San Francisco.

Plans Being Prepared.
HEADQUARTERS BLDG., ETC.
 VISALIA, Tulare Co., Cal. NE Third and Granite Sts.
 Adobe brick headquarters building and garage (100 feet square).
 Owner—City of Visalia.
 Architect—Not Given.
 Construction will be done under the CWA program.

Preparing Preliminary Plans.
GARAGE Cost, \$7500
 BERKELEY, Alameda Co. Cal. Corporation Yard.
 One-story reinforced concrete and brick garage (25x130 ft.) to house approximately 12 trucks.
 Owner—City of Berkeley.
 Plans by Stanley Koch, Building Inspector, Berkeley.
 Building will be constructed under C. W. A funds.

Contract Awarded.
ALTER GARAGE Cost, \$3000
 SAN JOSE, Santa Clara Co., Cal. First and St. James Streets.
 Alterations to public garage.
 Owner—First National Bank, First and Santa Clara Sts., San Jose.
 Architect—Ralph Wyckoff, San Jose National Bank Bldg., San Jose.
 Contractor—Earl W. Deple, 494 Delmas Ave., San Jose.

7—FEDERAL BUILDING

PEARL HARBOR, T. H.—Bureau of Yards and Docks, Navy Department, rejected all bids for the construction of extension to storeroom at the Naval Fleet Air Base, Pearl Harbor. Specification No. 7085. Complete bids published December 2.

HAMILTON FIELD, Marin Co., Cal.
 Azevedo & Sarmento, 920 O Street, Sacramento, awarded the following sub-contracts for the construction of a one-story concrete and tile mess building at Hamilton Field. Building will include a lounge, card room, refreshment room, dining room, kitchen and loggia.

Masonry—C. H. Waincott, 5309 Folsom Blvd., Sacramento.
Carpentry Work—Azevedo & Sarmento 920 O St., Sacramento.

Plumbing and Heating—J. J. McDermott, 2401 U St., Sacramento.

Electric Wiring—W. K. Jennings, Jr., 907 Lincoln Ave., San Rafael.

Structural Steel—Palm Iron Works, 15th and S Sts., Sacramento.

Reinforcing Steel—Truscon Steel Co., San Francisco.

Steel Sash—Truscon Steel Co., San Francisco.

Roofing—Alta Roofing Co., 976 Indiana St., San Francisco.

Sheet Metal Work—Guilfooy Cornice Works, 1234 Howard Street, San Francisco.

Painting—Patterson Bros., 573 Santa Fe Ave., Berkeley.

Plastering—C. L. Hoskins, 3055 Gough St., San Francisco.

Marble—Clervi Marble Co., 1721 San Bruno Ave., San Francisco.

Tile—Art Tile & Mantel Co., 221 Oak St., San Francisco.

Glass & Glazing—East Bay Glass Co., 621 6th St., Oakland.

Finish Hardware—Shorrock & Smith, 818 J St., Sacramento.

Shades—A. J. Rushman & Co., 441 Golden Gate Ave., San Francisco.

Kitchen Equipment—Dohrmann Hotel Supply Co., 972 Mission St., San Francisco.

Maple Floors—Forsberg & Frise, 1865 49th St., Sacramento.

Mill work and cut stone contracts not yet awarded.

HAMILTON FIELD, Marin Co., Cal.
 —Fred J. Early, Jr., 369 Pine St., San

Francisco, awarded the miscellaneous iron, structural steel and steel door contracts to Independent Iron Works, 821 Pine St., Oakland, in connection with the (1) black powder magazine, (1) demolition bombs magazine; (1) loading building magazine; (1) primers and detonators magazine, (1) pyrotechnics magazine; (1) chemical storage magazine.
 Other awards reported Dec. 12.

FORT LEWIS, Wash.—A. S. Hansen & Co., Seattle, at \$45,000 submitted low bid to Constructing Quartermaster, Fort Lewis, for the medical barracks and at \$23,479 for the bakery, and Brady Const. Co., Seattle, at \$43,970 submitted low bid for the construction of the quartermaster's warehouse, at Fort Lewis.

Medical detachment barracks will be 123 by 38 feet in area, two stories and basement, concrete frame, concrete slab floors, tile roof and brick exterior walls.

Bakery structure will be but one-story in height, 81 by 82 feet, with an "L" 48 by 8 feet, concrete frame, tile roof and exterior brick walls.

Warehouse will be two stories and basement, 128 by 47 feet in area, concrete frame, concrete slab floors, brick exterior and tile roof.

FORT LEWIS, Wash.—S. Christian Erickson, Tacoma, was awarded a contract by War Department at \$140,000 (items 1 and 11), for constructing eight gun sheds at Fort Lewis, Wash. Each shed will cover an area of 230x40 feet and will have brick walls, reinforced concrete floors, steel roof trusses and tile roofing.

PHOENIX, Ariz.—Public Works Administration appropriated \$635,559 this week for the U. S. post office building to be erected in Phoenix. All bids received on April 6 for the erection of the building were rejected and the project will be re-advertised. Foundations and sub-basement walls were constructed last year. Plans on which bids were previously taken contemplate a three-story structure, 195x163 feet; steel frame construction

SAN FRANCISCO.—Hagberg Bros., 494 23rd Ave., at \$95.50 submitted low bid to Material Officer, Marine Hospital, for weatherstripping doors of buildings Nos. 5 and 19 and back porch doors and transoms of buildings Nos. 11, 12, 13, 14 and 15. Following bids received:

Hagberg Brothers \$ 95.50
 Reliable Metal Weatherstrip Co. 117.55
 Chamberlin Metal Weatherstrip 118.50
 Bids held under advisement.

BANDON, Oregon—Until December 29, 2 P. M., bids will be received by Civil Engineer's Office, Government Island, Oakland, for the construction of a new garage and carpenter shop and alterations and additions to dwelling at Coquille River Coast Guard Station, Bandon, Oregon. Plans and specifications available from above office. No deposit required. Appropriation, \$6500.

SACRAMENTO, Cal.—Watson Mfg. Co., Jamestown, at \$4334 awarded contract by Treasury Department, Washington, D. C., for furnishing metal shelves and counters for the Sacramento Post Office.

DENVER, Colo.—John H. Rice, Topeka, Kansas, at \$8236 awarded contract by Treasury Department, Washington, D. C., for painting plaster, etc. in the U. S. Custom House at Denver, Colorado. Complete bids published November 15.

SACRAMENTO, Cal.—Postmaster at Sacramento will ask bids shortly for landscaping and sprinkler system for the Sacramento Post Office.

PEARL HARBOR, T. H.—Until Feb. 8, 11 A. M., bids will be received by Bureau of Yards and Docks, Navy Department, Washington, D. C., for quarters at the Naval Submarine Base, Pearl Harbor, T. H. Specification No. 7526. Work includes concrete piles and frame work glazed vitrified tile, steel windows, hollow metal and metal covered work; built-up roofing and sheet metal work; marble, tile and terrazzo work, lathing and plastering; wood door; frame and finish; plumbing, refrigerating and electrical systems. Plans and specifications available from above office and from Commandant, Fourteenth Naval District, Navy Yard, Pearl Harbor, T. H., and from Commandant, Twelfth Naval District, 100 Harrison St., San Francisco, upon deposit of \$50.

Plans Being Figured—Bids Close Dec. 26, 11 A. M.

BUILDINGS Cost, \$—
ALBROOK FIELD, Canal Zone.
 Construct fire house, guard house, dispensary, garage, warehouse, and headquarters and operations bldg.
 Owner—United States Government.
 Plans by Constructing Quartermaster, Albroom Field, Canal Zone.

Bids will be received and opened by the Constructing Quartermaster, Fort Mason, San Francisco; Constructing Quartermaster, New York City and Department Quartermaster, Quarry Heights, Canal Zone. Plans and specifications will be available from the above mentioned offices.

FORT LEWIS, Wash.—Howard S. Wright & Co., Seattle, Wash., at \$145,678 submitted low bid to Constructing Quartermaster Fort Lewis, to construct eight gun sheds, each to be 230x40 feet of brick construction, reinforced concrete floors, tile roof supported by steel trusses. Structures will be used for the storage of 75 mm. field guns. Following bids received:

Howard S. Wright Co., Seattle, \$145,678
 Emil Pohl, Seattle, 147,840
 Sheble Constr. Co., 151,795
 Western Constr. Co., 161,646
 Carl Johnson, 162,900
 Peder Gjard, 164,218
 Albertson & Cornell Bros., 165,729
 A. F. Mowat, 166,440
 West Coast Constr. Co., 167,460
 A. W. Quist Co., 170,000

SAN PEDRO, Los Angeles Co., Cal.
 —Chas. Montague, 1144 S. Grand Ave., Los Angeles, at \$65,500 awarded contract by Treasury Department to construct U. S. quarantine and detention station on Reservation Point, San Pedro. Will be a two-story office and store building, 41 x 32 feet in area; two-story quarters for medical officers 64 x 35 feet; two-story quarters for junior medical officers, 50 x 43 feet, and a wharf. The buildings will have concrete walls, tile and composition roofing, steel sash, waterproofing materials, architectural terra cotta, ornamental metal, steel medicine cabinets, interior tile work, composition floor tile, holium, dumbwaiter, and two-pipe hot water heating system. The wharf, containing six 10-ft. bays and a 30-ft. approach span, will be constructed of creosoted timber piles, framing timber, and decking.

HAMILTON FIELD, Marin Co., Cal.
 —Frank J. Reilly, 6350 Fulton St., San Francisco, awarded the plumbing contract to Scott Company, 243 Minna St., San Francisco, for plumbing for the six double sets of non-commissioned officers' quarters, type C and fourteen

double sets of non-commissioned officers' quarters, type D at Hamilton Field. Cost, \$242,550.

As previously reported, excavation and grading awarded to Devincenzi Bros., 150 Collins St., San Francisco; steel sash to Detroit Steel Products Co., 111 Sutter St., San Francisco; reinforcing steel to Pacific Coast Steel Co., 20th and Illinois Sts., San Francisco.

MONTEREY, Cal.—Public Works Administration allotted \$82,000 for improvements to the Monterey Presidio. Work includes recreational center, painting all Presidio buildings, construction of a 12 mile road at Gigling Reservation and repair roads and drainage systems at local post. Further details will be announced later.

Award.
DRILL HALL Cont. Price, \$70,315
FORT LEWIS, Washington.
 One-story steel and brick drill hall (204x102 ft) steel roof trusses, brick walls, copper roof, clay floor steel sash, plumbing, electric fixtures.
Owner—United States Government.
Plans by Constructing Quartermaster, Fort Lewis.
Contractor—Howard S. Wright, 2210 Second Ave., Seattle.

8— CLUB BUILDINGS

Planned.
ALTER CLUB HOUSE \$—
LOS GATOS, Santa Clara Co., Cal.
 Alterations and additions to club house (add club rooms, dance floor, etc.)
Owner—La Rinconada Golf and Country Club.
Architect—Not Selected.

Sub-Contracts Awarded.
LODGE BLDG. Cost, \$7000
HOLLISTE, San Benito Co., Calif.
 Sixth and Sally Streets.
 One-story wood frame lodge building (paper roof, maple and pine floors, etc.) lodge room, 40x70 feet; kitchen, banquet rooms, retiring rooms, stage.
Owner—The Union Benefica, de Hollister.
Plans by E. C. Griffin, % Owner.
Contractor—Frank Sparling, South & East Sts., Hollister.
Plumbing—Saufnauer Bros., Hollister
Electric—Ladd Hardware Co., Hollister.

Plans Being Figured.
ALTER CLUB HOUSE, Etc. \$—
MENLO PARK, San Mateo Co., Cal.
 Woodside Road.
 Alterations and additions for club-house (construct concrete retaining wall, beams in ceilings, partition work, mill work, etc.)
Owner—Menlo Country Club, Woodside Road, Menlo Park.
Architect—Gardner Dailey, 210 Post St., San Francisco.

Bids are being received for the following selected list of contractors only:
H. H. Larsen, 64 South Park, San Francisco.
Bessett Building Co., 826 Walnut St., Burlingame.
Young & Horstmeyer, 461 Market St., San Francisco.
Jacks & Irvine, 74 New Montgomery St., San Francisco.
Wells P. Goodenough, 310 Unversity Ave., Palo Alto.

9— HOSPITALS

Loan Granted.
HOSPITAL Cost, \$90,000
REDDING, Shasta Co., Cal.
 Two-story reinforced concrete hospital (24x36 ft.; 50 beds, 3 operating

rooms) tile and composition roof, tile floors, linoleum, steam heating system, cooling system, etc.
Owner—County of Shasta.
Architect—Otto Delchmann, 110 Sutter St., San Francisco.

Shasta county was granted a loan of \$25,000 and bids will be asked immediately for the construction.

MARYSVILLE, Yuba Co., Cal.—Yuba County defeated bond election December 19. Funds in the amount of \$55,000 were to have financed construction of a new county hospital. Chas. Dean, California State Life Bldg., Sacramento, architect.

SAN FRANCISCO.—Until Dec. 29, 3 P. M., bids will be received by T. A. Brooks, Purchaser of Supplies, 270 City Hall, for hospital equipment and furniture for the Health Department. Specifications and proposal blanks on application.

MODESTO, Stanislaus Co., Cal.—County of Modesto defeated bond election held December 19. Bonds in the amount of \$495,000 were to have financed construction of a new courthouse and administration building at the county hospital.

10— HOTELS

Plans Being Prepared.
REMODEL HOTEL Cost, \$—
SAN FRANCISCO. Geary and Taylor Streets.
 Extensive remodeling to hotel (new furnishings, etc.)
Owner—Allied Properties (Clift Hotel), Allan Pollack, Manager.
Architect—G. Albert Lansburgh, 149 New Montgomery St., S. F.
 It is expected to start work shortly after January 1.

12— POWER PLANTS

LOS ANGELES, Cal.—The Geysers Development Co., 417 South Hill St., Los Angeles, has purchased two 1000 K.V.A. generators from the Elliott Co., Jeanette, Pa., for installation in the power plant at the Geysers, and shortly will commence construction of a transmission line to Healdsburg. The company has a contract for supplying electric energy to the City of Healdsburg. Natural steam from the Geysers will be utilized in generating power. Plans provide for additional generators and an extension of the transmission line to other cities in the vicinity. R. E. Bering, President. A. E. Straub, Chief Engineer.

13— PUBLIC BUILDINGS FIRE HOUSES & JAILS

MONTEREY, Cal.—City of Monterey field application for a grant of \$25,000 of federal funds under the Public Works Administration to help finance construction of a new City Hall, jail, restoration of Colton Hall, etc., in Monterey. Approximately \$60,000 is available for the construction under the will of the late Mrs. Agatha Few. W. O. Raiguel, Del Monte Hotel, Del Monte, and C. J. Ryland, Monterey, architects.

YREKA, Siskiyou Co., Cal.—Siskiyou County Civil Works Committee approved the proposal to repair the county courthouse in Yreka. Work involves new roof, painting cornice, stucco exterior, concrete porch, reconstruct and retint portion of the interior, new floor in upper hall felt padding under linoleum, etc. Estimated cost \$7500.

SANTA MARIA, Santa Barbara Co., Cal.—Until 7:30 P. M., January 2, bids will be received, by the Santa Maria city clerk for the construction of a new building in Santa Maria to house city offices, fire station and jail. Plans and specifications may be obtained from Louis N. Crawford, architect, 8 Gibson-Drexler Bldg., Santa Maria, upon deposit of \$10. Separate bids will be taken as follows: (1) general construction; (2) plumbing and sheet metal; (3) electrical work; (4) roofing; (5) heating; (6) painting. Certified or cashier's check or cash in the sum of 5 per cent must accompany each bid. Flora A. Rivers, city clerk. Building will be a reinforced concrete structure with art stone trim, ornamental iron, tile roof, concrete floors, cork tile and linoleum floor covering, vault, intercommunicating telephone system, hot air furnace, steel sash, tile work, etc. Public Works Administration recently allotted a grant of \$12,100 to be applied on the cost of constructing the building, which is estimated at \$50,000.

Plans Being Figured—Bids Close Dec. 27, 7:30 P. M.

ADDITION Cost, \$15,000
WATSONVILLE, Santa Cruz Co., Cal.
 Reinforced conc. and structural steel addition to public library (40x60) composition and shingle roofing and remodel present building.
Owner—City of Watsonville.
Architect—A. W. Story, Pajaro Valley Bank Bldg., Watsonville.
 Plans and specifications available from the architect. Bids will be opened in the Watsonville city hall. The date was originally set for the 25th of December but was put forward one day.

SAN LUIS OBISPO, Cal.—San Luis Obispo county supervisors have applied to the Public Works Administration for loans totaling \$237,000 for the proposed county courthouse, tuberculosis hospital and Veterans' Memorial building would be wood frame and stucco, costing \$25,000. A. R. Walker and P. A. Eisen, 708 Pacific Commerce Bldg., Los Angeles, are the architects for the building.

SAN JOSE, Santa Clara Co., Cal.—San Jose city council is expected to set a bond election date early in February on a proposed \$460,000 civic auditorium. Binder & Curtis, 35 W San Carlos, San Jose, architects.

OAKLAND, Alameda Co., Cal.—County of Alameda defeated bond election December 19. Funds in the amount of \$1,712,000 were to have financed construction of a new county courthouse to replace old structure.

Bonds Voted.
AUDITORIUM Cost, \$400,000
FRESNO, Fresno Co., Calif. Fresno Street.
 Two-story concrete municipal auditorium (to seat 200) stage, dressing rooms, etc.
Owner—City of Fresno.
Architects—W. D. Coates, C. H. Franklin, H. Rafael Lake, E. J. Kump, Fred Swartz and E. W. Peterson, Fresno.

Bonds in the amount of \$375,000 were voted December 19 to finance construction.

14— RESIDENCES

Plans Being Figured.
RESIDENCE Cost, \$—
HILLSBOROUGH, San Mateo Co.
 Two-story and basement frame and stucco residence.
Owner—J. H. P. Howard Jr., 1401 Jones St., San Francisco.

Architect — Willis Polk Co. (Angus McSweeney, Architect), 277 Pine St., San Francisco.

Preliminary Plans Being Prepared.
REPAIR SCHOOL Cost, \$114,000
SAN FRANCISCO. Geary and Scott Streets.

Repair Girls' High School (interior bracing, replace masonry, etc.)
Owner—City and County of San Francisco.

Plans by Bureau of Architecture (C. Sawyer, architect) City Hall.
Architect—H. A. Minton, 525 Market.

Sub-Contracts Awarded.
RESIDENCE Cost, \$20,000
SAN FRANCISCO. Divisadero Street near Pacific Avenue.

Two-story and basement frame and stucco residence.
Owner—Stanley Sinton, 133 Montgomery Street.

Architect—Willis Polk Co. (Angus McSweeney, architect) 277 Pine St.
Contractor—G. P. W. Jensen, 320 Market Street.

Excavation—Louis Sartorio, 2627 Lombard Street.

Reinforcing Steel—Gunn, Carle & Co., 20 Potrero Avenue.

Construction Postponed.
RESIDENCE Cost, \$6000
BURLINGAME, San Mateo Co., Cal. Elm Avenue.

1½-story frame and stucco residence (six rooms, two baths) shake roof, warm air heating system, tiled baths, etc.

Owner—Tom Dick.
Architect—Chester Treichel, 679 Hadson Road, Oakland.

December 18, 1933

Contract Awarded.
RESIDENCE Cost, \$5,113.50
BURLINGAME, San Mateo Co., Cal. 49 Easton Avenue.

One-story and basement frame and stucco residence.
Owner—Domenick Petroni, et al.
Plans by Antone Pianca, 109 Pine Terrace, South San Francisco.

Contractor — Angelo Zangrando, 725 Grand Ave., South San Francisco.

Bids Opened.
ALTERATIONS Cost, \$51,000
HILLSBOROUGH, San Mateo County, Cal. Easton Drive.

Alterations and additions to two-story & basement frame residence (add rooms, new plumbing, heating, wiring, mill work, etc.)

Owner—Paul I. Fagan, Hillsborough.
Architect—Arthur Brown, Jr., 251 Kearny St., San Francisco.

Low Bidder—A. F. Mattock, 212 Clara St., San Francisco.

Following bids received:
(1) job complete;
(2) deduct if game room ceiling is omitted;
(3) deduct if game room roof is reduced.

A. F. Mattock, S. F. (1) \$55,261
..... (2) 3,090
..... (3) 769
Chas. Stockholm, S. F. (1) \$55,400
..... (2) 1,100
..... (3) 2,850

Lindgren and Swinerton, San Francisco (1) \$56,625
..... (2) 778
..... (3) 1,005
Dowsett-Ruhl, S. F. (1) \$59,998
..... (2) 3,510
..... (3) 1,304

Bessett Bldg. Co., Burlingame (1) \$61,601
..... (2) 3,206
..... (3) 1,269
E. W. Yount, S. F. (1) \$62,787
..... (2) 3,479
..... (3) 1,269

Bids held under advisement.

Contract Awarded.
RESIDENCE Cost, \$6000
SAN FRANCISCO. SE Twenty-fifth Ave. and Lincoln Way.
One-story and basement frame and stucco residence (7 rooms); tile roof, gas heating system, hardwood floors and trim, tiled bath, etc.

Owner — Mrs. Lilly S. Stamer, 496 Castro St., San Francisco.
Plans by J. H. Devitt, 22 Kearny St., San Francisco.

Contractor—Young & Horsemeyer, 461 Market St., San Francisco.

15— SCHOOLS

December 19, 1933

Contract Awarded.
JUNIOR COLLEGE Cost, \$22,000
ST. HELENS, Oregon.
One-story frame and brick junior college (42x223 ft.); library, classrooms, offices, social rooms, etc.

Owner—St. Helens Hall.
Architect—Lawrence, Holford & Allyn, Falling Bldg., Portland.

Contractor—Drake, Wynan & Voss, U. S. National Bank Bldg., Portland.

December 19, 1933

Planned.
REPAIR SCHOOL Cost, \$—
KNIGHTS LANDING, Yolo Co., Calif.
Alterations and additions to school (add two rooms, etc.)

Owner—Grafton School District.
Architect—Not Given.

TEHACHAPI, Kern Co., Cal.—The Public Works Administration authorized a loan and a grant totaling \$43,000 to the Tehachapi Valley Union High School District for financing the construction of a second unit at the Tehachapi High School. Edwin J. Symmes, Haberfelde Bldg., Bakersfield is the architect

WOODBIDGE, San Joaquin Co., Calif. — Woodbridge Grammar School was destroyed by fire Dec. 15. The building was a five-room brick structure and damage is estimated at \$60,000. As soon as the insurance is adjusted announcement will be made for rebuilding.

Planned.
SCHOOL Cost, \$50,000
LAKEVIEW, Oregon.
Two-story school building and auditorium.

Ownehr—Lakeview School District.
Architect—Howard R. Perrin, Klammath Falls, Oregon.

PWA funds are being sought to finance construction.

Preparing Preliminary Plans.
LIBRARY Cost, \$45,000
MODESTO, Stanislaus Co., Cal. Junior College.

Library unit for the Modesto Junior College.
Owner—Modesto Junior College Dist. (C. Shakelford, president of the board).

Architect—J. J. Donovan, 950 Parker St., Berkeley.

PIEDMONT, Alameda Co., Cal.—Piedmont School District defeated bond election December 19. Funds in the amount of \$233,000 were to have financed construction of three new elementary school buildings in Piedmont.

ALAMEDA, Alameda Co., Cal.—City of Alameda defeated bond election December 19. Funds in the amount of \$448,000 were to have financed construction of replacement of Longfellow, Mastick and Versailles Schools. Sketches prepared by J. J. Donovan, Architect, 950 Parker St., Berkeley.

ALBANY, Alameda Co., Cal.—City of Albany defeated bond election December 19. Funds in the amount of \$150,000 were to have financed construction of a new high school in Albany. Dragon & Schmidt, 3016 Telegraph Ave., Berkeley, architects.

SAN FRANCISCO.—Until Jan. 19, 2:30 P. M., bids will be received by S. J. Hester, Chief Deputy Director, city hall, for new blackboards in the Redding, Spring Valley, Madison, Argonne, Laguna Honda, Marshall, Monroe, Junipero Serra and Parragut schools. Plans and specifications are available from above office upon deposit of \$10.00. Estimated cost \$20,000.

December 15, 1933

Planned.
IMPROVE SCHOOL Cost, \$—
BERKELEY, Alameda Co., Cal. No. 1775 Rose St. (Garfield School).

Rehabilitate present building (structural frame, replace concrete, metal bath and plaster corridor) replace ten portable classrooms, gymnasium, shops, enlarge auditorium; (reinforced concrete construction).

Owner—Berkeley School District.
Architect—Not Selected.

Auditorium addition to cost \$132,659.
Classroom addition to cost, \$70,348.
Science Building to cost, \$44,129.
New shops to cost, \$102,267.

Gymnasium to cost, \$138,440.
Reconstruction work to cost, \$184,671 (3283) 15

December 15, 1933

Plans Being Figured.—Bids Close Jan. 10th.
SCHOOL Cost, \$10,000
GRASS VALLEY, Nevada Co., Cal.

One-story Class C reinforced concrete shop building for school (3 rooms)
Owner—Grass Valley High School District.

Architect—Frederick H. Reimers, 233 Post St., San Francisco.
Plans available from architect and from high school district at Grass Valley upon deposit of \$10.

To Ask Bids Within Ten Days.
SCHOOL IMPROVEMENT \$10,000
HAYWARD, Alameda Co., Cal.

Revamp girls' dressing rooms, etc., in Hayward High School; work involves adding 50 shower rooms, 90 dressing rooms, 600 metal lockers, plumbing, metal partitions, etc.

Owner—Hayward Union High School District.
Architect — Henry Smith, Humboldt Bank Bldg., San Francisco.

A slight revision was made to plans and as soon as approval is given bids will be asked.

SAN FRANCISCO.—Empire Roofing Co., 261 Silver Ave., at \$1,594 submitted low bid to Department of Public Works for composition roofing of the west wing of the Mission High School, 18th and Church Sts. Metal flashing on roof will be removed and replaced by others. All slump boxes will be repaired or replaced; remove present composition roofing and replace with asphalt "Floatine" or equal. Following bids received:

Empire Roofing Co. \$1,594
Alta Roofing Co. 1,831
Jack Johnson Roofing Co. 1,920
J. W. Bender Roofing Co. 2,039
Malott & Peterson 2,392
Bids held under advisement.

SAN FRANCISCO — City of San Francisco voted bonds in the amount of \$3,000,000 December 19. Funds will be used to finance construction work of the following schools, giving estimated cost of each building:

New Projects
George Washington \$1,200,000

Marina Junior High.....	385,000
Lawton	100,000

Replacements

Glen Park	\$ 300,000
Agassiz	175,000
Sunshine	115,000
Buena Vista	200,000
Visitacion	250,000

Francis Scott Key School will be partially replaced at a cost of \$100,000.

Removal of Top Floor and Offset With New Structures

Starr King	\$ 95,000
I. M. Scott	75,000
Patrick Henry	85,000

The sum of \$420,000 will be expended on sundry structural possible requirements.
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SAN MATEO, Cal.—San Mateo High School and Junior College Districts voted authorization for expenditure of \$90,000 on buildings at the Burlingame and San Mateo Junior College at a special election December 18. It is expected a \$30,000 federal appropriation will be received. Type of improvements to be made will be announced shortly.

16—BANKS, STORES AND OFFICES

Sub-Contracts Awarded.

ALTERATIONS Cost, \$8,000
SALINAS, Monterey Co., Calif. Main Street.

Alter two-story Class C store building. Owner—Montgomery Ward & Co., 125 Monterey St., Salinas.
Plans by Engr. Dept. of Owner, Chicago.

Supt. of Const.—W. H. Cook, % Montgomery Ward & Co., 125 Monterey St., Salinas.

Elevator—Otis Elevator Co., 1 Beach St., San Francisco.

Hardware—Baker, Hamilton & Pacific Co., 700 7th St., San Francisco.

Steel—Soule Steel Co., 1750 Army St., San Francisco.

Metals—American Abrasive Metals Co., Call Bldg., San Francisco.

Painting—I. Burrescia, Salinas.

Flooring—Western Asbestos Magnesite Co., 675 Townsend St., San Francisco.

Electric—Salinas Electric Works, Salinas.

Plumbing and Heating—Phillips Heating — Pumbing Co., Salinas.

Iron—Hellwig's Iron Works, San Jose.

Awnings—Daahl - Thoms Co., 233 1/2 Broadway, Oakland.

Plans Being Prepared.

OFFICE BLDG. Cost, \$40,000
STOCKTON, San Joaquin Co., Cal. NE Center and Rose Sts.

Construct highway office building. Owner—State of California.
Plans by Highway Department, Sacramento.

Contract Awarded.

STORE Cost, \$—
SAN FRANCISCO, Chestnut and Mallorca Streets.

One - story reinforced concrete store bldg. (25x70 ft.) steel sash, aluminum face sash on front, ten-year guaranteed built-up roof.

Owner—Martin Stelling, 155 Montgomery Street.

Architect—Francis Lloyd, 360 Pine St.
Contractor—De Luca & Son, 1745 Filbert Street.

Bids Opened.

STORE Cost, \$6000
OAKLAND, Alameda Co., Cal. Lakeshore Boulevard.

One - story reinforced concrete store building (50x80 feet) wood trusses, tar, gravel and composition roof.

Vitrolite front, metal sash bars.
Owner—L. B. Hoge.

Architect—Ray Keefer, 770 Wesley St., Oakland.

Structural Engineer—V. Poss, 2929 Russell St., Berkeley.

Low Bidder—C. H. Thrans, 28 Home Place, Oakland.

Following bids received:

C. H. Thrans, Oakland.....	\$8,393
A. T. Beckett, Oakland.....	8,650
B. F. Woolley, Oakland.....	8,946
Fred Early, Jr., San Francisco.....	9,608
Dudley DeVelbiss, Oakland.....	9,750
Priest Const. Co., Oakland.....	9,750

Bids held under advisement.

Sprinkler Contract Awarded.

ALTERATIONS Cost, \$2000
OAKLAND, Alameda Co., Cal. 11th and Washington Streets.

Alterations and additions to department store (install sprinkler system, etc.)

Owner—Whitthorne & Swan, Oakland.
Architect—Not Given.

Contractor—Dinwiddie Const. Co., Crocker Bldg., San Francisco.

Sprinkler System—Rockwood Sprinkler Co., 7 Front St., San Francisco.

Sub-Contracts Awarded.

STORE Cost, \$18,000
SAN MATEO, San Mateo Co., Calif. Third Avenue.

One-story reinforced concrete store building (2 stores) tile and composition roof, wood floors, gas steam heating system, etc.

Owner—Martin Stelling, 155 Montgomery St., San Francisco.

Architect—Earl Bertz, Monadnock Bldg., San Francisco.

Contractor—Barrett & Hllp, 918 Harrison St., San Francisco.

Aggregates—Cahalan Co., Burlingame
Cement—Pacific Portland Cement Co., 111 Sutter St., San Francisco.

Lumber—Wisnom Lumber Co., San Mateo.

Terra Cotta—Gladding McBean & Co., 660 Market St., San Francisco.

Plans Being Figured.

MARKET Cost, \$—
SAN FRANCISCO, Vallejo St., bet. Powell and Stockton Sts.

One-story reinforced concrete market Owner—Not Given.

Architect—Louis Mastropasqua, 530 Washington St., San Francisco.

A. Podesto, 1 Montgomery St., is taking charge of the project.

SAN FRANCISCO—Capital Co., 625 Market St., are taking bids for replacing boiler plants in the Transamerica Building, 416 Montgomery Street, and Potter Building, 576 Sacramento St., with new steel boiler and gas-fired equipment. Leland & Haley, 58 Sutter St., San Francisco, Engineers.

SAN BERNARDINO, Calif.—Montgomery Ward & Co.'s engineering department, Chicago, is revising plans for a three-story and basement, Class A store building, 62x164 ft. in area, to be erected at southwest corner of E and Court Sts., San Bernardino. The construction is scheduled to start soon after the first of the year. The building will have reinforced concrete walls partitions and floor and roof slabs, and some structural steel. Cost, \$90,000. An existing structure on the site will be razed.

Planned.

OFFICE BLDG. Cost, \$150,000
OLYMPIA, Washington.

Construction of new state office building.

Owner—State of Washington.
Architect—Not Given.

Prospective Bidders

STORE Cost, \$—
POMONA, Los Angeles Co., Cal.
Two-story and basement and mezza-

nine floor store bldg. (steel frame, wood joists, reinforced concrete footings).

Owner—Montgomery Ward and Co., Oakland.

Plans by Engr. Dept. of Owner.

Following will submit bids on Dec. 26:

C. F. & W. P. Stoner, Claremont.
Campbell Const. Co., Ontario.

C. W. Lynn, Pomona.
Wescott Const. Co., Pasadena.

Clinton Const. Co., Los Angeles.
Baker & Robinson, San Bernardino.

Sheet Metal and Ventilating
Pomona Sheet Metal Works, Pomona.

Zigler Sheet Metal Works, Pomona.
Fred. Bloss, Pomona.

Electric
Eugene M. Cox, Pomona.

J. Oliver Boettcher, Pomona.
Valley Electric Co., Pomona.

Harrison Fitch Elec. Co., Pomona.

Heating and Plumbing
Toner & Brooks, Pomona.

H. C. Case & Son, Pomona.
Winkinson & Son, Pomona.

Geo. N. McCain, Pomona.

Sub-Contracts Awarded.

STUDIO Cost, \$2000
SAN FRANCISCO, Fifth and Market Streets.

One-story hollow tile and steel broadcasting studio on roof of bldg.

Owner—Hale Bros., Fifth and Market Streets.

Architect—Geo. deColmesnil, 111 Sutter Street.

Contractor—Dinwiddie Const. Co., Crocker Bldg.

Hollow Tile—Wm. Rainey, 323 Clementina Street.

Structural Steel—Western Iron Works, 141 Beale Street.

Plastering—Wm. Makin, 2141 Livingston Ave., Oakland.

Roofing—Alta Roofing Co., 976 Indiana Street.

18—WHARVES & DOCKS

SAN FRANCISCO—Healy Tibbitts Constr. Co., 64 Pine St., San Francisco, at \$233,300 awarded contract by War Department to construct extension to Pier No. 3, at Fort Mason, San Francisco. Complete bids published December 8.

December 19, 1933

Planned.

DOCKS Cost, \$799,319
STOCKTON, San Joaquin Co., Cal.

Construct three new docks.

Owner—City of Stockton (Port Commission).

Plans by Port Director B. C. Allin, Stockton.

Application for a federal grant of \$202,477 has been filed with the Public Works Administration. If the grant is approved it is probable that a bond election will be called to finance the construction.

YERBA BUENA ISLAND—Until January 5, 2 P. M., bids will be received by the Superintendent of Lighthouses, H. W. Rhodes, Room 424 Customhouse, San Francisco, under Proposal No. N-62, for 90 ft. by 60 ft. extension to wharf at Yerba Buena Island Lighthouse Depot, San Francisco Bay. The work includes timber piling and laying of railroad track. Alternate bids will be received for the construction as follows:

(1) Wharf and 180 ft. of railroad track

(2) Wharf and 90 ft. of railroad track

(3) Wharf omitting railroad track.

An appropriation of \$8500 is available for the work. Plans and specifications obtainable from above office.

19—MISC. CONSTRUCTION

SUNNYVALE, Santa Clara Co., Cal.—Electrical Products Corp., 255 Golden Gate Ave., San Francisco, at \$7,888 submitted low bid to 12th Naval District, San Francisco, for two indicating systems, neon gas illuminated, signs for the north and south landing fields at the Naval Air Station, Sunnyvale. The work includes concrete footings, reinforcing steel, galvanized steel and iron, anchor bolts, galvanized sheet iron housing for electrical work and forming background for neon tubes, electrical work, neon gas illuminated tubes, and painting.

Following bids received:
 Elec. Prod. Corp., S. F. \$7,888.00
 Wonderlite Neon Co., S. F. 8,879.11
 QRS Neon Corp., S. F. 10,751.79
 Brumfield Elec., S. F. 14,294.60
 Globe Elec. Works, S. F. 20,000.00
 Bids held under advisement.

PEARL HARBOR, T. H.—Hawaiian Dredging Company, Honolulu, at \$1,427,700 submitted low bid to Bureau of Yards and Docks, Navy Department, Washington, D. C., for construction of fleet moorings at Pearl Harbor, T. H. Specification No. 7093.

OAHU, T. H.—Young Engineering Co., Honolulu, at \$34,300 awarded contract by Bureau of Yards and Docks, Navy Department, Washington, D. C., to construct gate houses, two vegetable lockers, two garbage houses, seven hose reel houses, 22 hose shelters, 18 clothes yard enclosures, three tennis courts, two flag poles, one beacon tower, two beacon fixtures installations, sidewalks, road, one cess-pool and one dry well at the Naval Ammunition Depot, Oahu (West Loch) and Luahalei, T. H. Spec. No. 7055.

SAN FRANCISCO.—C. J. Waterhouse Co., 55 New Montgomery St., awarded contract by Port Quartermaster, Fort Mason, at \$895 for (1) repairing and overhauling 16 steel rolling doors, and \$375 (2) for changing method of fastening guides on rolling doors in old portion of Pier Shed No. 2 (Bldg. 47) at Fort Mason. Following bids received:

C. J. Waterhouse Co. (1) \$ 895
 (2) 375
 Price Bldg. Specialty Co. (1) 886
 (2) 390
 Kinnear Mfg. Co. (1) 3,575
 (2) 825
 D. A. Panoast (1) 3,814
 (2) 895

MARE ISLAND, Cal.—Until January 18, 11 A. M., bids will be received by Public Works Officer, Mare Island Navy Yard, for two 200-hp. boilers to furnish steam service for quay wall

at Mare Island. Work involves, boilers, settings, fuel oil pump, feed water pump and appurtenances. Spec. 7588

COALINGA, Cal.—The Coalinga Chamber of Commerce has applied to the CWA for \$14,600 for lighting and improving the Coalinga Community Airport.

LOS ANGELES, Calif.—Youngstown Steel Bar Corp., Niles, Ohio (519 Delta Bldg., Los Angeles) at \$143,169.50 (o.b. Niles, awarded contract by the Metropolitan Water District Dec. 15, for furnishing approximately 1975 tons of liner plates and structural steel ribs for tunnel support for 15-ft. 3-in. and 16-ft. tunnels; Spec. No. 63.

OAKLAND, Calif.—Safeway Stores awarded a contract to K. E. Parker Co., 135 South Park St., San Francisco at \$1950 for the construction of a loading platform on E Harrison St. between First and Second Sts., Oakland. J. Rosenwald, 525 Market St., San Francisco, engineer.

BERKELEY, Alameda Co., Calif.—Berkeley Board of Education is planning to house pupils of the closed Berkeley schools in tents, 35x36 ft., each to care for approximately 40 pupils. It is planned to build fifty under the CWA. Further details will be announced in about one week.

SAN FRANCISCO.—Golden Gate Iron Works, 1541 Howard St., at \$1,300 submitted low bid to the U. S. Forest Service, 85 Second St., for furnishing one 84-ft. steel truss span for the Lausden Bridge, Stanislaus National Forest. Complete bids follow:
 Golden Gate Iron Works, S. F. \$1300
 Independent Iron Works, Oakland 1400
 McClintic Marshall, S. F. 1406
 Schrader Iron Works, S. F. 1550
 Judson Pacific Co., S. F. 1589
 Herrick Iron Works, Oakland 1600
 Moore Drydock Co., Oakland 1680
 Dyer Bros. Golden West Iron Works, S. F. 1860

20—MISC. SUPPLIES AND MATERIALS

SAN FRANCISCO.—K. Von Hacht, 110 Sutter St., at \$1092.50 submitted low bid to U. S. Forest Service, for 775 miscellaneous items of lighting fixtures. Following bids received:
 K. Von Hacht \$1092.50
 Crown Electric Co. 1344.66
 Thomas Day Co. 1554.53
 Boyd Lighting Fixture Co. 1563.51
 Ace Iron Works 1683.40
 Consolidated Specialty Co. 1786.60
 Solar Lighting Fixture Co. 2439.05
 Bids held under advisement.

SAN FRANCISCO.—Union Machine Co., San Francisco, and Joshua Hendy Iron Works (E. J. Behnenman, Receiver), San Francisco, were awarded contracts December 8 by T. A. Brooks, Purchasing Agent, for furnishing cast steel covers, frames and appurtenances for Hetch-Hetchy Project under Bid 1119.

LOS ANGELES, Calif.—Contract awarded by Saul A. Joseph, Purchasing Agent Metropolitan Water District, Dec. 13, for furnishing structural steel under Bid No. 18431 are: Pacific Steel Corp., Item 1 at \$3436.15; Phoenix Iron Co., items 2, 3 and 4 at \$5910.30.

The other bids were:
 Pacific Coast Steel Corp., (1) \$3436.15; (2, 3, 4) \$5922.24.
 Phoenix Iron Co., (2, 3, 4) \$5910.30.
 Columbia Steel Co., (1) \$3575.55; (2, 3, 4) \$5922.24.
 Minneapolis Moline Power Implement Co., (1) \$4625.21; (2, 3, 4) \$7,000.80.

SAN FRANCISCO.—Foucar, Ray & Simon, 512 Folsom St., at \$175.42 submitted low bid to the U. S. Forest Service for furnishing reinforcing steel for Indian Creek bridge, South Fork Indian Creek Bridge, Orleans Bridge No. 1, and Orleans Bridge No. 2. Complete bids follow:
 Foucar, Ray & Simon \$175.42
 W. C. Hauck & Co. 177.54
 Soule Steel Co. 177.54
 Gunn, Carle & Co. 178.00

SAN MATEO, San Mateo Co., Cal.—Identical bids at \$2.10 per ton for crushed rock, \$2.90 per ton for screenings, and \$2.10 per ton for sand were submitted to the San Mateo city council by the following:

H. E. Casey Co., L. C. Smith, San Jose Feed & Fuel Co., Cahills Co.
 The quantities were:
 (1) 300 tons crushed rock, 1-in. to 1/2-inch;
 (2) 50 tons screenings;
 (3) 230 tons sand.

SAN FRANCISCO.—Identical bids were received by T. A. Brooks, City Purchasing Agent, City Hall, for furnishing (a) 260,000 b.f. fir; (b) 84,000 b.f. redwood; (c) 10,000 b.f. spruce (term of Jan. 15 to July 15) from the following firms:

J. H. Kruse, Allen & Dettman Lbr. Co.; Roth Maier Lbr. Co.; Sudden Lbr. Co.; Swift & Co.; Acme Lbr. Co.; Loop Lbr. Co.; Christenson Lbr. Co.; S. F. Lbr. Co.; Smith Lbr. Co.; Spring Valley Lbr. Yard; Van Arsdale Harris Lbr. Co.

The bids quoted deduction from list price as follows:
 (a) \$5.00 per MBF;
 (b) \$8.00 per MBF;
 (c) \$5.00 per MBF;

OAKLAND, Calif.—Sun Tent-Luebert Co., 88 Merchant St., San Francisco and Colorado Tent & Awning Co., Denver, awarded contracts by Supply Officer, Government Island, for 185 wall tents and 185 flies for wall tents.

SAN FRANCISCO.—M. Levin & Son 2225 3rd St., at \$358.50 submitted high bid to T. A. Brooks, Purchasing Agent Room 270 City Hall, for purchase of scrap iron, steel and scrap copper cable, under Sale No. 85. Complete bids follow:

M. Levin & Son, iron \$5.10; steel, \$36.50; cable \$.08; total, \$358.50.
 Daniel R. Buckley & Son, \$5.10; \$2.10 \$.0425; \$316.60.
 H. Krieger, \$5.10; \$27.58; \$.04; \$341.50.
 Pacific Iron & Metal Co., \$2.15; \$; \$.035; \$136.00.
 The material was sold to M. Levin & Son on an oral bid.

Move More Dirt Faster with LE TOURNEAU Equipment

A complete line of grading machinery—designed by a contractor—developed on actual construction jobs—built to stand continuous use under the worst conditions.

ENGINEER'S CONSULTATION FREE

R. G. LE TOURNEAU, INC.

Wilson Way at Roosevelt Stockton, Calif.

MACHINERY & MATERIAL

Bid calls for construction machinery and materials and miscellaneous equipment and supplies purchased by Federal, State, Municipal and other public agencies.

CALIFORNIA STATE

EUREKA, Humboldt Co., Cal.—Until December 29, 2 P. M., bids will be received by W. H. Pierce, Supt. of Equipment, Division of Highways, Department of Public Works, Eureka, for the sale of the following equipment:

- CHC 2833 Truck, Federal 1½-ton to 2-ton chassis, with cab;
- CHC 315 Grader, Austin 8-ft. leaning wheel R. T.;
- CHC 354 Grader, Galion 8-ft. leaning wheel R. T.;
- CHC 135 Asphalt Heating Kettle, 110 gallon;
- CHC 3 Spearswell Scarifier, 9 tooth;
- CHC 10 Crusher No. 2 Aurora, 11x20-in. jaw;
- CHC 43 Crusher, 24-in. Symons Disc type;
- CHC 11 Screen, 8 ft. x 38-in. dia. center shaft with frame;
- CHC 12 Elevator 30-ft. wood frame and Aeme special single line chain with 7x8x6-in. buckets;
- CHC 137 Engine 50-hp. gasoline, on steel skids, Cadillac make;
- CHC 3084 Truck, Chevrolet 1-ton hand dump;
- CHC 3169 Truck, Ford Model AA 1-ton cargo body.

All equipment may be inspected at the Division of Highways' yards at Eureka, from 8:30 a. m. to 4:30 p. m. on any working day with the exception of Crusher CHC No. 10, No. 43 and Elevator No. 12 which are located on Highway Route 20 near Blue Lake, Humboldt County; also CHC 2583 Truck chassis with cab and CHC 135 Asphalt Heating Kettle which may be inspected at the Division of Highways' yards at Willits, Mendocino County, from 8:30 a. m. to 4:30 p. m. on any working day.

SACRAMENTO, Cal.—Until Dec. 29, 2 P. M., bids will be received by R. H. Stalnaker, Equipment Engineer, Division of Highways, Dept. of Public Works, 1805 34th St., Sacramento, for the sale of the following equipment:

- CHC 151 Kettle, 65 Gal. Alco with rubber tires;
- CHC 8 50-hp. Western Electric three-phase 60 cycle electric motor;
- CHC 214 Drill for rock, etc., Roadax portable gasoline;
- CHC 55 Snow Plow Rightway Rotary, with V plow;
- CHC 68 Snow Plow Rightway Rotary with V plow;
- CHC 14 Scarifier, 11-tooth Johnson;
- CHC 8 Bulldozer Atco with pump for use with Caterpillar "30" tractor;
- One tank, steel, 48-in. dia., 96-inches long, 759-gal. capacity;
- One tank, steel, 60-in. dia., 60-inches long, 730-gal. capacity;
- One engine, 5-hp. single cylinder, Pier-son.

OFFICE EQUIPMENT

- 6 Hadley Giant Trays, 11x11-in.;
- 4 Wood top tables, 15-in. high;
- 4 Portable stands for Moon Hopkins Bookkeeping machines;
- 3 Metal (folding type) Typewriter

All equipment may be inspected at the Division of Highways' yards at 1852 34th St., Sacramento, from 9 a. m. to 5 p. m. on any working day.

SAN LUIS OBISPO, Cal.—Until Dec. 29, 12 P. M., bids will be received by R. P. Hamlin, Supt. of Equipment, Di-

vision of Highways, Shop 5, San Luis Obispo, for the sale of the following equipment:

- CHC 1246 Truck 3½-ton Standard, solid tires and 1000 gal. sprinkler tank;
- CHC 96 Trailer, 3-ton, 4-wheel with 800-gal. tank;
- CHC 101 Trailer, 3-ton, 4-wheel Troy with 600-gal. tank;
- CHC 365 Grader, Western 8-ft. with steel wheels, roller bearings;
- CHC 29 P. & H. 1¼-yd. Gas Shovel;
- One only 15-hp. Vertical type tubular boiler, complete with steel stack, injector and gauges.

All equipment may be inspected at the Division of Highways' yards at San Luis Obispo, from 8:30 to 4:30 on any working day, except P&H shovel CHC No. 29, also Western 8-foot Grader which may be inspected at Prison Camp No. 26 near Big Sur, Monterey County.

BISHOP, Cal.—Until Dec. 29, 12 P. M. bids will be received by John A. Stein, Supt. of Equipment, Shop No. 9, Division of Highways, Bishop, for the sale of the following:

- CHC 52 Pump Unit, Hill-Alamo 3-hp. Gas Engine; pump 4x6-in. on iron wheel truck;
- One 1200 gal. tank-sprinkler, for trucks
- Five tanks, 1000-gal. for trucks.

All equipment may be inspected at the Division of Highways' yards at Bishop, from 8 a. m. to 5 p. m. on any working day.

SAN FRANCISCO—Until December 29, 2 P. M., bids will be received by J. W. Grace, Supt. of Equipment, Shop 4, Division of Highways, State Bldg., San Francisco, for the sale of the following equipment:

- CHC 3235 Automobile, Ford Touring, Model A, Engine No. A-7983381.
- CHC 36 Concrete Mixer ½ sack Rex Chain Engine No. 353744.
- CHC 26 Pump, 4-in. x 6-in. Dean 3 plunger Serial No. 70959.
- CHC 30 W & K Street Sweeper Attachment.
- CHC 31 W & K Street Sweeper Attachment.
- One Pump Dean Hill Six Stage (Centrifugal).

The above equipment may be inspected at the Division of Highways yard at 1045 Derby Ave., Fruitvale, Oakland, on any working day, bet. the hours of 8:30 A. M. and 4:30 P. M.

WAR DEPARTMENT

SACRAMENTO, Cal.—Until December 26, 3 P. M., bids will be received by the U. S. Engineer Office, Capt. J. G. Drinkwater, District Engineer, Rm. 208 Post Office Bldg., Sacramento, under Spec. No. 5944, as follows:

- (1) 25 pipe sleeve bands, for 20-inch dredge pipe.
- (2) 3 rough bronze castings to finish 3-in. O.D. x 2¼-in. I.D. x 14-in. long.

Specifications obtainable from above office.

FORT LEWIS, Wash.—Until Dec. 30, 9 A. M., bids will be received by Capt. R. A. Blair, Constructing Quartermaster, Fort Lewis, under Spec. 6105-34-18, for 7625 ft. pipe; 11 valves; 13 tees; 9 L's; 1 reducer; plugs; 11 valve boxes.

Specifications obtainable from above office.

SAN FRANCISCO—Until December 26, 3 P. M., bids will be received by the U. S. Engineer Office, Lt. Col. H. A. Finch, Dist. Engineer, 401 Customhouse, San Francisco, for furnishing and installing 2 power-operated watertight bulkhead doors to replace the existing system of hand-operated doors in the U. S. Seagoing Hopper Dredge, "A. Mackenzie."

Specifications obtainable from the above office.

SAN FRANCISCO CITY

SAN FRANCISCO—Until December 29, 3 P. M., bids will be received by T. A. Brooks, Purchasing Agent, Rm. 270, City Hall, under Bid No. 1130, for furnishing 150 fire hydrants and hydrant parts for the Fire Department. Specifications obtainable from the above office.

SAN FRANCISCO—Until January 5, 3 P. M., bids will be received by T. A. Brooks, City Purchasing Agent, Rm. 270, City Hall, under Bid No. 1131, for brass fittings for the San Francisco Water Department.

Specifications obtainable from the above office.

NAVY DEPARTMENT

BREMERTON, Wash.—Bids will be received by the Supply Officer, Puget Sound, Navy Yard, Bremerton, Wash., as follows:

- CALCIUM - CHLORIDE, technical, granular; 43,000 lbs. Req. 212 NSA; Dec. 29.
- LIME, chlorinated, U.S.P., 12 ounce bottles; 480. Req. 212 NSA; Dec. 29.
- TRISODIUMPHOSPHATE, technical; 16,000 lbs. Req. 212 NSA; Dec. 29.
- OAK, bending, 2-in. x 6-in. up x 8 ft.; 1000 ft. B.M. Req. 8-NSA/3556; Jan. 3.
- OAK, bending, 2-in. x 6-in. up x 16 ft.; 1500 ft. B.M. Req. 8-NSA/3557; Jan. 3.

BREMERTON, Wash.—Bids will be received by the Supply Officer, Puget Sound Navy Yard, Bremerton for miscellaneous supplies and materials as follows:

- DRILLS, twist, high speed steel, straight shank, short set; 1000. Req. 239 NSA. Dec. 29.
- CLOTH, aluminum - oxide, 147,360 sheets (307 reams) Req. 221 NSA; Jan. 4.
- PAPER, flint, Class B; 127 reams (60,960 sheets). Req. 221 NSA; Jan. 4.
- WOOL, steel, Navy grade No. 1, 12,000 lbs. Req. 221 NSA. Jan. 4.

Specifications obtainable from above office.

WASHINGTON, D. C.—Bids will be received by the Bureau of Supplies & Accounts, Navy Department, Washington, D. C., as follows:

- GAGES, water, and spares; east and west yards. Sch. 1425; Dec. 27.
- TRACTOR, with crane attachment; 1. San Diego. Sch. 1418; Dec. 27.
- LAMPS, electric desk, 185; Mare Island. Sch. 1403; Dec. 27.
- PUMPS, close - couple, distiller circulating, motor-driven and spares, 2. Mare Island. Sch. 1414. Jan. 3.
- LATHES, woodworking, motor-driven, 3; Puget Sound. Sch. 1426; Jan. 3.
- MACHINE, tool grinding, motor-driven, San Diego. Sch. 1436; Jan. 3.
- GLUE POTS, electric, 34. Mare Island. Sch. 1452. Jan. 9.

ENGINEERING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

- | | |
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| 21.—Bridges | 30.—Reservoirs and Dams |
| 22.—Dredging, Harbor Works, Excava. | 31.—Pipe Lines and Wells |
| 23.—Irrigation Proj. | 32.—Sewers & Sewage Disposal Plants |
| 24.—St. Light. Systems | 33.—Water Works |
| 25.—Machinery and Equipment | 34.—Parks & Playgrounds |
| 26.—Railroads | 35.—Tunnels |
| 27.—Fire Alarm Sys. | |
| 28.—Fire Equipment | |
| 29.—Streets & Highways | |

21— BRIDGES

PHOENIX, Ariz.—A \$290,000 bond issue to finance the construction of a subway railroad crossing was voted by the City of Phoenix, December 9. The City will apply to the PWA for aid.

December 19, 1933

OREGON STATE.—Until Dec. 29, 9 A. M., bids will be received by the Oregon State Highway Commission, R. H. Baldock, State Highway Engineer, Multnomah Hotel, Portland, for construction of bridges, as follows:

Marion County

Bridge over North Mill Creek on Pacific Highway in City of Salem; National Recovery Project No. NRM 176-B, involving:

- (1) 630 lin. ft. treated trestle piling;
- (2) 95 cu. yds. concrete;
- (3) 29 MFBM treated lumber;
- (4) 130 lin. ft. composite handrail.

Marion County

Bridge over Abiqua river on Cascade Secondary Highway near Silverton; National Recovery Project No. NRS 226, involving:

- (1) 225 cu. yds. struc. excav.;
- (2) 256 cu. yds. concrete;
- (3) 31,450 lbs. metal reinforcement;
- (4) 33 MFBM treated lumber;
- (5) 52,000 lbs. struc. steel;
- (6) 392 lin. ft. composite handrail;
- (7) 8,000 cu. yds. approach excavation
- (8) 50 lin. ft. 12-in. culvert pipe;
- (9) 1,300 cu. yds. gravel surfacing.

Marion County

Bridge over Butte Creek on Woodburn - Mt. Hood Secondary Highway near Woodburn; National Recovery Project No. NRS 225, involving:

- (1) 2,100 lin. ft. treated trestle piling;
- (2) 122 cu. yds. concrete;
- (3) 26,000 lbs. metal reinforcement;
- (4) 27 MFBM treated lumber;
- (5) 34,000 lbs. struc. steel;
- (6) 395 lin. ft. composite handrail;
- (7) 15,000 cu. yds. approach excav.;
- (8) 1,350 cu. yds. rock surfacing.

Marion County

Bridge over Pudding river on Hillsboro - Woodburn Secondary Highway near Woodburn; National Recovery Project No. NRS 227, involving:

- (1) 5,250 lin. ft. treated trestle piling;
- (2) 77 cu. yds. concrete;
- (3) 16,000 lbs. metal reinforcement;
- (4) 22 MFBM treated lumber;
- (5) 58,000 lbs. structural steel;
- (6) 434 lin. ft. treated trestle superstructure;
- (7) 8,800 cu. yds. approach excav.;
- (8) 960 cu. yds. surf. materials.

Prequalification of bidders will not be required for the following projects unless the bid price amounts to \$10,000 or more: Bridge over South Fork Alsea river in Benton County; bridge over North Mill creek in Salem, Marion County; and railroad bridge over Nehalem highway in Washington Co.

Plans and specifications obtainable at the office of State Highway Commission, Room 322, State Office Bldg., Salem, upon deposit of \$5 for each set.

OREGON STATE.—Until Dec. 28, 9 A. M., bids will be received by the Oregon State Highway Commission, R. H. Baldock, State Highway Engineer, Multnomah Hotel, Portland, for construction of bridges, as follows:

Benton County

Bridge over South Fork Alsea river on Alsea-Deadwood Secondary Highway near Alsea; National Recovery Project No. NRS 228. Requires approximately the following items:

- (1) 120 cu. yds. excavation;
- (2) 121 cu. yds. concrete;
- (3) 17,000 lbs. metal reinforcement;
- (4) 8 MFBM treated lumber;
- (5) 45,600 lbs. structural steel;
- (6) 200 lin. ft. composite handrail;

Columbia County

Bridge over Clatskanie river on Columbia river highway at Clatskanie. National Recovery Project No. NRM 221-A, involving:

- (1) 230 cu. yds. struc. excavation;
- (2) 2,500 lin. ft. foundation piling;
- (3) 300 lin. ft. treated trestle piling;
- (4) 311 cu. yds. concrete;
- (5) 30,000 lbs. metal reinf.;
- (6) 10 MFBM treated lumber;
- (7) 116,000 lbs. struc. steel;
- (8) 190 lin. ft. composite handrail;
- (9) 1,400 cu. yds. approach excav.;
- (10) 100 cu. yds. rock surfacing.

Harney County

Bridges over Malheur river and Stinkingwater creek on Central Oregon Highway near Drewsey; National Recovery Project No. NRH 187-B, involving:

- (1) 1,450 lin. ft. treated trestle piling;
- (2) 16 MFBM treated lumber;
- (3) 321 lin. ft. treated trestle superstructure.

Lincoln County

Four bridges between Kernville and Toledo on Siletz Secondary Highway; National Recovery Project No. NRS 224, involving:

- (1) 3,850 lin. ft. treated trestle piling;
- (2) 71 cu. yds. struc. excav.;
- (3) 235 MFBM treated lumber;
- (4) 489 lin. ft. treated lumber;
- (5) 118 cu. yds. concrete;
- (6) 13,000 lbs. metal reinforcement;
- (7) 24,000 lbs. struc. steel;
- (8) 15,000 cu. yds. approach excav.;
- (9) 2,600 cu. yds. gravel topping;

Poik County

Bridges over Rickreall creek and Oak Point Creek on Independence Secondary Highway near Independence; National Recovery Project No. NRS 224, involving:

- (1) 2,950 lin. ft. treated trestle piling;
- (2) 164 cu. yds. concrete;
- (3) 34,000 lbs. metal reinforcement;
- (4) 42 MFBM treated lumber;
- (5) 43,000 lbs. structural steel;

(6) 523 lin. ft. composite handrail.

Washington County

Railroad bridge over Nehalem Secondary Highway near Buxton; National Recovery Project No. NRS 213-C, involving:

- (1) 120 cu. yds. excavation;
- (2) 850 lin. ft. treated trestle piling;
- (3) 90 cu. yds. concrete;
- (4) 10,000 lbs. metal reinforcement;
- (5) 14 MFBM treated lumber;
- (6) 33,500 lbs. struc. steel.

SAN FRANCISCO—Golden Gate Bridge & Highway District Directors have authorized an extension from February 1, 1934 to December 31, 1934, for the Pacific Bridge Co. to complete their contract for construction of the South Pier of the Golden Gate Bridge. The Directors also approved modified plans for the Pier, involving additional foundation excavation of 33 ft. to a depth of 98 ft. below mean low water, the work to be paid for at the unit price of \$10,000 per ft. specified in the Pacific Bridge Co. contract.

LOS ANGELES, Cal.—Until Jan. 2, 2 P. M., bids will be received by the Los Angeles County Supervisors for guniting of right abutments of San Gabriel Dam No. 2 in vicinity of spillway. The items are:

- (1) 700 cu. yds. excavation;
- (2) 9575 sq. ft. place gunite slabs, reinf. with woven wire reinf.;
- (3) 9575 sq. ft. do without reinf.

E. C. Eaton, 202 N Broadway, county flood control engineer. Mame E. Beatty, 501 Hall of Records, clerk of the board.

SANTA BARBARA, Calif.—Merritt-Chapman & Scott Corp., 720 Wilmington Road, San Pedro, has been awarded the contract by the Pacific West Oil Co. (operator of the Spaulding lease) at \$23,351 for the construction of an extension to the oil pier at Ellwood.

Construction will involve steel piling with wood planking, similar to other pier construction at this field. Work will start at once.

LOS ANGELES, Calif.—John Oberg, 3470 E 8th St., Los Angeles, at \$13,637.70 submitted low bid to the Los Angeles county supervisors, Dec. 18, for constructing a reinforced concrete bridge over the spillway at San Gabriel Dam No. 2.

22—DREDGING HARBOR WORKS EXCAVATION

SUTTER COUNTY, Cal.—Until Jan. 3, 3 P. M., bids will be received by the U. S. Engineer Office, Capt. J. G. Drinkwater, District Engineer, Room 208 Post Office Bldg., Sacramento, under Spec. No. 5910, for raising and strengthening an existing levee along the westerly side of Feather river and extending from the levee's intersection with the Southern Pacific R. R., which point is about 2.5 miles north of Yuba City, north for a distance of approximately 8.1 miles, involving the moving of approximately 291,000 cu. yds. of earth and including clearing and grubbing the right of way, and moving, extending or reconstructing such fences, road crossings, irrigation channels, drains, ditches, pipes and appurtenant structures as may be disturbed by the levee construction.

Drawings and specifications may be obtained at either the above office or at the office of the Division Engineer, Pacific Division, 414 Custom House, San Francisco.

CAPITAL CITY TITLE COMPANY

J. C. PALEN,
Manager

914 Seventh Street
Sacramento :: California

PEARL HARBOR, T. H.—Hawaiian Dredging Co., Honolulu, at \$0.65 per cu. yd. submitted low bid to the Bureau of Yards & Docks, Navy Department, Washington, D. C., for dredging 2,900,000 cu. yds. at Pearl Harbor; Spec. No. 7337.

SEATTLE, Wash.—Until Dec. 26, 3 P. M., bids will be received by the U. S. Engineer Office, Col. C. L. Sturdevant, Dist. Engineer, Federal Bldg., Seattle, for removing approx. 550,000 cu. yds. of material from the Willapa river. Specifications obtainable from the above office.

SACRAMENTO, Cal.—O. G. Ritchie, 154 North Eleventh St., San Jose, at \$6575 awarded contract by the War Department, Washington, D. C., for furnishing and placing approximately 2500 tons of riprap stone along the westerly bank of the Sacramento River, about 17 miles upstream from Colusa. Spec. 5869.

LOS ANGELES, Cal.—Merritt, Chapman & Scott Corp., Ltd., 720 Wilmington-Redondo Blvd., Los Angeles, submitted the low bid to the Los Angeles County Supervisors, Dec. 18, on Proposals (1) at \$60,250; (2) \$59,740, and (3) \$73,600, for constructing outlet at Alamitos Bay, San Gabriel River Unit No. 6. The items are:

PROPOSAL NO. 1

- (1) 95,000 cu. yds. excavation;
- (2) 7,500 tons finish and place riprap, district to pay freight;
- (3) construct 10 type A current deflectors.

PROPOSAL NO. 2

- (1) 95,000 cu. yds. excavation;
- (2) 7,500 tons furnish and place riprap, district to pay freight;
- (3) construct 19 type B current deflectors.

PROPOSAL NO. 3

- (1) 95,000 cu. yds. excavation;
- (2) 7,500 tons finish and place riprap, district to pay freight;
- (3) construct 10 type C current deflectors.

PROPOSAL NO. 1

The bidders under Proposal No. 1 were:

- (A) Merritt, Chapman & Scott Corp.
- (B) Ray Schweitzer.
- (C) Geo. K. Thompson.

	(1)	(2)	(3)	Total
(A)	\$25	\$1.38	\$26,150.00	\$60,250.00
(B)	25	1.95	30,962.90	69,337.00
(C)	33	2.00	31,000.00	77,350.00

PROPOSAL NO. 2

The bidders under Proposal No. 2 were:

- (A) Merritt, Chapman & Scott Corp.
- (B) Shannahan Bros., Inc.
- (C) Geo. K. Thompson.
- (D) Ray Schweitzer.

	(1)	(2)	(3)	Total
(A)	\$25	\$1.38	\$26,150.00	\$59,740.00
(B)	26	1.49	25,337.00	60,577.00
(C)	33	2.00	31,000.00	77,350.00
(D)	25	1.95	45,625.00	84,625.00

PROPOSAL NO. 3

The bidders under Proposal No. 3 were:

- (A) Merritt, Chapman & Scott Corp.
- (B) Ray Schweitzer.
- (C) Geo. K. Thompson.
- (D) Herbert M. Baruch Corp., Ltd.

	(1)	(2)	(3)	Total
(A)	\$25	\$1.38	\$26,150.00	\$73,600.00
(B)	25	1.95	39,701.37	78,076.37
(C)	33	2.00	40,000.00	86,350.00
(D)	30	2.67	43,648.00	88,612.00

Type of Equip. to be Used by Bidder
Merritt, Chapman & Scott Corp.—Dragline or suction dredge.

George K. Thompson—Dragline and suction dredge.

Ray Schweitzer—Dragline and suction dredge.

Herbert M. Baruch Corp.—Dredge.
Shannahan Bros.—Dragline, trucks & dredge.

Quarry Locations

Merritt, Chapman & Scott Corp.—

Decezville, Calif.

All other bidders—Ely, Cal.
The bids were referred to the engineer, E. C. Eaton.

23—IRRIGATION PROJ.

TETON COUNTY, Mont.—Morrison-Knudsen Co., Boise, at \$72,105 submitted low bid to the U. S. Bureau of Reclamation, Fairfield, Mont., for construction of earthwork and structures for open drains, Greenfields Division, Sun River Project, Mont.; Spec. 556.

IMPERIAL COUNTY, Cal.—H. J. Kaiser, 1522 Latham Square, Oakland, John Phillips Co., 532 Market St., San Francisco, and Bechtel Bros., 155 Sansome St., San Francisco, at \$1,198,000 (Schedule 1) submitted low bid to the Bureau of Reclamation, Yuma, Ariz., for the construction of earthwork, All-American Canal, Station 1130 to Station 1860, Boulder Canyon Project, Arizona-California-Nevada. The work is located from 6 to 8 miles west of Yuma, Ariz. The Utah Construction Co., Salt Lake City, Utah, Morrison-Knudsen, Boise, Idaho, and MacDonald & Kahn, Financial Center Bldg., San Francisco, submitted low bids at \$778,668 (Schedule 2) and at \$793,963 (Schedule 3). Complete bids follow:

SCHEDULE 1

H. J. Kaiser, Phillips Co. & Bechtel Bros., Oakland and San Francisco, \$1,198,000.

Utah Constr. Co., Morrison-Knudsen and MacDonald & Kahn, \$1,231,418.

W. E. Callahan Co., Dallas, Texas, and Gunther & Shirley, \$1,232,222.

S. S. Magoffin Co., Adrian, Ore., \$1,345,600.

Griffith Co., 502 Los Angeles Railway Bldg., Los Angeles, \$1,373,388.

Hannahan Co., Hobart Bldg., San Francisco, \$1,644,432.

Peterson, Lawler & Maguire, \$1,691,860.

Walsh Constr. Co., 904 Chester Williams Bldg., Los Angeles, \$1,737,760.

Horton-Price Constr. Co., Lake Providence, La., \$2,404,520.

SCHEDULE 2

Utah Constr. Co., Morrison-Knudsen, and MacDonald & Kahn, \$778,668.

A. Guthrie & Co., 1300 Builders Exchange Bldg., St. Paul, Minn., \$845,240.

H. J. Kaiser, Phillips & Co. and Bechtel Bros., \$935,000.

Griffith Co., \$1,003,068.

Walsh Constr. Co., \$1,062,160.

Callahan Co., Gunther & Shirley, \$1,064,404.

H. M. Baruch, 625 S. Olive St., Los Angeles, \$1,264,120.

Horton-Price Constr. Co., \$1,645,600.

SCHEDULE 3

Utah Constr. Co., Morrison-Knudsen and MacDonald & Kahn, \$793,963.

H. J. Kaiser, Phillips, Bechtel, \$900,450.

Callahan Co., Gunther & Shirley, \$949,141.

Griffith Co., \$1,031,182.

Walsh Constr. Co., \$1,087,210.

H. M. Baruch, \$1,193,930.

Horton-Price Constr. Co., \$1,667,500.

24—STREET LIGHTING SYSTEM

SAN FRANCISCO—Globe Electric Works, 1899 Mission St., San Francisco, at \$21,889 awarded contract by the Board of Public Works, S. J. Hester, Deputy Director, Room 251, City Hall, for lighting of Sunset Blvd from South Drive in Golden Gate Park to Skyline Blvd.

ALBANY, Alameda Co., Cal.—Until Dec. 26, 8 P. M., bids will be received by H. W. Brewer, City Clerk

City Hall, Albany, for the installation of a street lighting system on San Pablo Ave., involving:

- (1) 75 tubular steel poles with foundations;
- (2) 75 cast iron ornamental brackets;
- (3) 75 lighting units complete.
- (4) 22,000 lin. ft. No. 6 weatherproof wire;
- (5) 1600 lin. ft. No. 8 standard weatherproof wire;
- (6) 75 cast iron pole tops with special arms, pins and insulators;
- (7) 11 malleable cross arms with pins and insulators.

Specifications available from City Engineer, City Hall, upon deposit of \$2.50.

25—MACHINERY AND EQUIPMENT

SACRAMENTO, Cal.—Following bids received by the State Bureau of Purchases, 323 State Capitol, Sacramento, under Quotation No. 19555, Req. No. 15,659, for furnishing one 1-man motor grader unit, without cab or scarifier: Austin Western Road Machinery Co., San Francisco, \$2699; 2% 30 days.

Spears Wells, Oakland, \$2804.50; 2% 30 days.

Sacramento Tractor & Equipment Co., Sacramento, \$2919; 2% Cash. Jenison Machinery Co., San Francisco, \$2951; 2% 10 days.

Edward R. Bacon, S. Francisco, \$3053.50; 2% 30 days.

Associated Equipment Co., San Francisco, \$3067; 2% 10 days.

LOS ANGELES, Cal.—Bids for furnishing concrete mixers under Bid No. 176, were received by the U. S. Forest Service, 751 S. Figueroa St., December 14, as follows:

Garlinghouse Bros., \$225 each, terms 5% 10 days, 4% 20 days, and 3% 30 days.

Smith-Booth-Usher, \$254.20 each, less \$11.75 each, 10 days after shipping date.

Consolidated Machinery Co., \$240 each, terms 5½% 10 days.

Concrete Machinery Supply Co., \$258 each, net.

SANTA CRUZ, Cal.—The following bids were received by the Santa Cruz Board of Education for furnishing a new school bus. The bids on the chassis of a new 30-passenger bus were: Chevrolet, \$830; Ford, \$887; International, \$1116; Studebaker, \$1230, and Dodge, \$1009.

Bids on the bodies were:

Gibson Co., San Francisco, \$1419; Patchetts & Carstenson, Newman, \$1414; Gillig Bros., San Francisco, \$1295.

The contract will be awarded at a special meeting of the Board to be held December 18.

LOS ANGELES, Calif.—Contracts awarded by Saul A. Joseph, Purchasing Agent, Metropolitan Water Dist., Dec. 15, for furnishing belt conveyers, apron feeders, and vibrating screens under Bid No. 18115 are: Item 5 to Stephens Adamson Mfg. Co., at \$1450; Item 2 to The Conveyor Co., Inc., at \$1222.56; Item 3 to Standard Steel Works at \$2131.11; Item 1 and 4 were rejected.

DENVER, Colorado—Following are the bids received by the Bureau of Reclamation, Denver, Colorado, under Spec. 549, November 17, for furnishing overhead traveling cranes for Boulder power plant:

- (1) 4 300-ton cranes, f.o.b. price;
- (2) Deduction if beams are omitted;
- (3) 1 50-ton crane.

Alliance Mach. Co., Alliance, Ohio (1) \$310,000; (2) \$21,700; (3) \$19,643.

Shaw Box Crane & Hoist Co., Muskegon, Mich., (1) \$288,968; (2) \$12,610; (3) \$24,121.

Harnischfeger Sales Corp., Milwaukee, (1) \$207,868; (2) \$8324; (3) \$17,184. Alternate bids (1) \$232,488, and \$231,830; (2) \$9577 and 9505; (3) 19,008 and 18,970.

Whiting Corp., Harvey, Ill. (1) \$225,370; (2) \$8802; (3) \$17,390.

Morgan Engr. Co., Alliance, Ohio, (1) \$239,595; (2) \$11,335, (3) \$21,480.

Cleveland Crane & Engineering Co., Wickliffe, Ohio, (1) \$288,474; (2) \$9838; (3) \$24,486.

Shepard-Niles Crane & Hoist Corp., Philadelphia, (1) \$245,000; (2) \$11,800; (3) \$18,500.

Mill Engineering & Supply Co., Seattle, Wash., (3) \$19,370.

Euclid-Armington Corp., Euclid, Ohio, (3) \$22,957.

Bedford Foundry & Machinery Co., Bedford, Ind., (3) \$19,880.

MINIDOKA, Ida.—United Iron Wks., 580 Second St., Oakland, Cal., at \$12,003 awarded contract by the Bureau of Reclamation, Denver, for pumping unit and electrical apparatus for new unit No. 2 in south side pumping station No. 3, Minidoka project; Sch. 602-D.

SAN FRANCISCO—Killifer Mfg. Co. Ltd., 574 6th St., at \$1,189.40 submitted only bid to the 12th Naval District, 100 Harrison St., for furnishing one ditcher and pambreaker to be used with a 65-hp. tractor; Sch. No. 9398.

BOULDER CANYON, Nev. Consolidated Steel Corp., Ltd., 6500 E. Slauson Ave., Los Angeles, at \$181,500 awarded contract by the Bureau of Reclamation, Denver, for furnishing eight 100x16-ft. drum gates and control mechanisms for same under Spec. 548.

26—RAILROADS

BONNEVILLE, Ore.—Until December 27, 3 P. M., bids will be received by the U. S. Engineer Office, Major C. F. Williams, District Engineer, 306 Customhouse, Portland, Oregon, under Bid No. 34-319, for relocating and reconstructing a portion of the O-W. R. & N. Co.'s tracks and operating facilities in its station grounds in Bonneville, Oregon, as follows:

ROADBED GRADING

- (1) 3 acres clearing;
- (2) 20,000 cu. yds. excavation, solid rock;
- (3) 3500 cu. yds. excavation, medium.
- (4) 3500 cu. yds. excavation, common
- (5) 200 cu. yds. borrow, medium;
- (6) 200 cu. yds. borrow, common;
- (7) 100,000 sta. yds. overhaul;

TRACK WORK

- (8) 9000 lin. ft. track removal;
- (9) 8000 lin. ft. track laying;
- (10) 2200 cu. yds. ballasting and surfacing;

MATERIALS

- (11) 2000 each cross ties;
- (12) 5 M.F.B.M. switch ties;
- (13) 25 cwt. track spikes;
- (14) 25 cwt. track bolts;
- (15) 5 cwt. nut locks;
- (16) 3 tons steel rails;
- (17) 1 job removing turntable.

Drawings and specifications are on file at Room 341, Pittock Block, Portland, Oregon.

30—RESERVOIRS & DAMS

CACHE COUNTY, Utah.—Terteling & Sons, Boise, Idaho, at \$337,211 submitted low bid to U. S. Bureau of Reclamation, Ogden, Utah, for construction of the Hyrum Dam, Cache Valley Division Salt Lake Basin Project, in Cache County, Utah. Spec. No. 552. The work is located near Hyrum, Utah, on the Oregon Short Line Railroad.

NEVADA COUNTY, Calif.—Nevada County Board of Supervisors have set January 2, 10 A. M., as the time for preliminary hearing on the petition of the Black Rock Placer Mining District to construct a debris dam on the south fork of the Yuba river. The applicants are W. H. Taylor, Arthur W. Hoge and Frank M. Hoge. The district proposes to construct a dam to impound debris resulting from operation of gravel mining properties by the hydraulic method. The proposed dam would be 109-ft. in height, having a reservoir area of 80 acres and storage capacity of 5,000,000 cu. yds. Estimated cost, \$169,000.

A complete description of the proposed project is on file with the Board of Supervisors, Nevada County, Court House, Nevada City.

BONNEVILLE, Oregon—Until December 27, 3 P. M., bids will be received by Major C. F. Williams, Dist. Engineer, U. S. Engineer Office, 306 Customhouse, Portland, Oregon, under Bid No. 34-341 for exploration drilling at Ruckel Slide between Eagle Creek and Cascade Locks, Oregon.

Drawings and specifications obtainable from above office.

An Act to Create a Water Project

Authority empowered to construct the Central Valley Water Project was adopted at a special State election, December 19. The authority is composed of the Attorney General, State Controller, State Treasurer, State Finance Director, State Public Works Director. The project contemplates construction of necessary dams, canals, pumping system, power plants, and transmission lines for the conservation of water and distribution of power in the Sacramento and San Joaquin Valleys. Estimated cost, \$170,000,000. Construction costs are to be met by issuing revenue bonds, principal and interest to be met by water and power revenues. Application will be made to the Federal Public Works Administration for a grant and loan to finance the development.

Principal structures and preliminary cost estimates for the project follow:

- (1) Kennett Dam, reservoir and power plant, Shasta County, \$84,000,000.
- (2) Friant Dam, reservoir and power plant, Fresno County, \$16,000,000.
- (3) Contra Costa County fresh water canal, \$2,500,000.
- (4) San Joaquin Pumping System, San Joaquin, Stanislaus and Merced Counties, \$15,000,000.
- (5) Madera Canal, Fresno and Madera Counties, \$2,500,000.
- (6) San Joaquin-Kern Canal, Fresno, Tulare and Kern Counties, \$27,300,000.
- (7) Magunden Pumping System, Kern County, \$100,000.
- (8) Delta Cross Channel, Sacramento and San Joaquin Counties, \$4,000,000.
- (9) Transmission lines, Kennett to Antioch, \$9,600,000.

31—PIPE LINES & WELLS

ALAMEDA COUNTY, Cal.—The San Francisco Public Utilities Commission announced award of contract for constructing Calaveras pipe line, scheduled to be made December 18, would be postponed several days to give the Commission time for further study of bids.

32—SEWERS & SEWAGE DISPOSAL PLANTS

LOS ANGELES, Cal.—The Massachusetts Bonding Co. has taken bids for the completion of the Gene B. Foster, Inc., contract for the construction of a sewage pumping plant

at Terminal Island and will announce the successful bidder within the next ten days. The contractor stopped work on November 7. The contract amounted to \$21,100.

OXNARD, Cal.—The \$4,000 bond issue to assist in the financing of the \$72,000 sewage treatment plant and enlarging and reconstructing the sewer outfall carried at the election Dec. 11. Application for aid will be made to the CWA office.

The proposed plant will be designed to handle an average of 750,000 gallons per day, using screens and 3 pumps to raise the sewage to the primary clarifier. The clarifier will be 34x17 ft. and 9 feet deep. The digester will have a capacity of 2 cu. ft. per capita with a chamber for collecting the gas which will be used to heat the digester. The dosing tank will have the usual chlorinating equipment. The trickling filter will have a bed 145-ft. in diameter and 7-ft. deep with maximum of 2,000,000 gals. per acre per day. The plant will also include a secondary clarifier.

E. O. Imus, city engineer.

PHOENIX, Ariz.—A \$260,000 bond issue for constructing storm drains was voted December 9. The City will apply to the Public Works Administration for aid.

PHOENIX, Ariz.—A \$340,000 bond issue was voted December 9 to finance extensions to the sewer system. The City will apply to the PWA for aid.

AZUSA, Cal.—Federal Public Works Administration has allotted a loan of \$126,000 and a grant of \$54,000 to the city of Azusa for constructing a sewage treatment plant and sewers. Construction will be undertaken under provisions of the new state law permitting a service charge to users for repayment of the loan. Bids probably will be called about January 15.

OAKLAND, Cal.—\$700,000 in bonds to finance extension to the Oakland sewer system were defeated at the December 19 election.

FRESNO, Cal.—A bond issue of \$35,000 to finance the construction of new storm sewers in the City of Fresno was voted at the December 19 election.

SAN BERNARDINO, Cal.—\$133,000 in bonds to finance the improvement of storm drains, Pioneer Cemetery and park developments, were defeated at the election December 19.

SAN FRANCISCO.—F. W. Snook, 596 Clay St., San Francisco, at \$2,541 submitted low bid to the Board of Public Works, City Hall, for the construction of a sewage effluent disposal pump and pipe line at the San Francisco County Jail, Sneath Ranch, San Mateo County. Complete bids follow:

F. W. Snook	\$2,540.00
E. J. Treacy	2,867.80
H. Lawson	2,912.00
P. L. Burr	2,914.00
Alta Elec. & Mech. Co.	3,074.00
MacDonald & Kahn Co.	3,849.00

All bids held under advisement.

33—WATERWORKS

INGLEWOOD, Calif.—Until Dec. 26, 7:30 P. M., bids will be received by the Inglewood city council for furnishing welded steel pipe, dipped and wrapped, 3/4-in. shell, for use in constructing a line from the lower pump plant to the upper reservoir.

Specifications may be obtained from the city clerk, Otto H. Duellke. A. W. Cory, city engineer.

PHOENIX, Ariz.—A \$200,000 bond issue was voted by the City of Phoenix, December 9, to finance extensions to the existing water system. Application for funds will be made to the Public Works Administration.

EUREKA, Humboldt Co., Calif.—A \$225,000 bond issue to finance the construction of a water supply system for the city was voted by the City of Eureka December 19. The city has applied for a grant of \$209,000 and will offer bonds to the Federal Government as security for a loan for the balance. The work will involve the following:

- (1) construction of a 115 ft. arch type reinf. concrete dam on the Mad River about 18 miles upstream from the city;
- (2) 260 acres clearing at reservoir site;
- (3) 2300 ft. tunnel, 8-ft. dia., concrete lined;
- (4) removal and relocation of existing filter plant;
- (5) 58,000 lin. ft. 22-in. redwood stave pipe;
- (6) 18,500 lin. ft. 21-in. steel pipe, concrete lined, gunita coated;
- (7) 34,700 lin. ft. 24-in. do;
- (8) 1,920 lin. ft. 18-in. do;
- (9) 1,020 lin. ft. 10-in. cast iron pipe;
- (10) one 5,000,000-gal. reservoir in pipe;
- (11) miscellaneous items.

C. C. Kennedy, Call Bldg. San Francisco, consulting engineer.

NAPA, Napa Co., Calif.—Until Dec. 26, bids will be received by the Napa city council for furnishing a miscellaneous lot of fittings and 10,000 ft. of water main for use by the Water Department. The items are:

- (1) 4,000 ft. 8-in. pipe;
- (2) 4, 8-in. crosses;
- (3) 1 8-in. tee;
- (4) 5 8- to 6-in. tees;
- (5) 3 8- to 4-in. reducers;
- (6) 4 8-in. plugs;
- (7) 6,000 ft. 6-in. pipe;
- (8) 9 6-in. crosses;
- (9) 8 6-in. tees;
- (10) 1 6-in. 45-deg. ell;
- (11) 4 6- to 4-in. reducers;
- (12) 8 6-in. plugs.

Specifications obtainable from City Clerk Whitfield Griffiths.

OAKLAND, Cal.—\$245,000 in bonds to finance the extension to the high pressure fire protection system, were defeated December 19.

34—PARKS AND PLAY-GROUNDS

PHOENIX, Ariz.—A bond issue in the sum of \$720,000 to finance park improvements was voted at the election on December 9. Application for funds will be made to the Public Works Administration.

PEARL HARBOR, T. H.—Max W. Moody, Los Angeles, at \$26,550 awarded contract by Bureau of Yards and Docks, Washington, D. C., for landscaping at the Ammunition Depot, Pearl Harbor, T. H. Specification No. 7334.

OAKLAND, Cal.—A bond issue of \$100,000 to finance the construction of a recreation center and baseball fields was defeated at the special election December 19.

29—STREETS AND HIGHWAYS

PIERCE COUNTY, Wash.—All bids received by the Bureau of Public Roads, Portland, October 30, for grading and surfacing 15.5 miles of the White River road on the east side of Mt. Rainier, and stockpiling crushed rock to be used for oiling at a later

date, have been rejected.

Homer G. Johnson, Portland, submitted the low bid at \$101,460.

SAN DIEGO COUNTY, Calif.—Until January 10, 1934, 2 P. M., bids will be received by State Highway Commission, Sacramento, for grading and surfacing with bituminous treated crushed gravel or stone surfacing on about 2.7 miles between San Diego and Point Loma, in San Diego county, involving:

- (1) 143 sta. clear and grub right of way;
- (2) 47,500 cu. yds. rdwy. excav., unclassified;
- (3) 136,000 sta. yds. overhaul;
- (4) 620 cu. yds. struc. excav.;
- (5) 2,260 M. gals. water;
- (6) 8,150 tons crushed gravel or stone bit. treated surfacing;
- (7) 370 tons outback asphalt;
- (8) 90 lin. ft. 8-in. CMP;
- (9) 520 lin. ft. 24-in. CMP;
- (10) 5 each spillway assemblies;
- (11) 10 cu. yds. Class A Port. cement concrete structures;
- (12) 350 lbs. bar reinf. steel struc.;
- (13) 700 lin. ft. laminated timber guard rail;
- (14) 80 each timber guide posts;
- (15) 15 each timber culvert markers;
- (16) 2 each fence gates;
- (17) 50 cu. yds. existing concrete and rubble masonry structures, to be removed and disposed of;
- (18) 950 bbls. heavy fuel oil;
- (19) 143 sta. prepare, mix and shape shoulders;
- (20) 143 sta. finish roadway;
- (21) 75 each monuments complete in place.

Plans and specifications obtainable at above office and are on file at the offices of the District Engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

WASHINGTON STATE—Until January 3, 1934, 10 A. M., bids will be received by Director of Highways, L. V. Murrow, Olympia, Washington, for highway construction, as follows:

WHATCOM COUNTY:

Grading and surfacing with crushed stone about 1.2 mi. of State Road No. 1 (Bellingham to Austin Pass Branch), Bellingham to Nooksack River Revisions. U. S. Public Works Project No. NRS 202-A, involving:

- (1) 6 acres clearing;
- (2) 140,370 cu. yds. excav.;
- (3) 4980 cu. yds. gravel borrow;
- (4) 3340 cu. yds. crushed stone surfacing;
- (5) 4470 lin. ft. cable guard rail Design No. 6;
- (6) 902 lin. ft. of pipe culverts;
- (7) miscellaneous items.

KING COUNTY:

Grading about 1.2 mi. of State Road No. 2, Lower Crossing South Fork Snoqualmie River West Revision, Unit 2 of U. S. Public Works Project No. NRH 142-D, involving:

- (1) 4 acres clearing;
- (2) 46,670 cu. yds. excav.;
- (3) 491 lin. ft. cable guard rail Design No. 5;
- (4) 105 lin. ft. of pipe;
- (5) miscellaneous items of work.

PACIFIC COUNTY:

Grubbing and grading about 2.2 mi. of State Road No. 12, Stuarts Slough to Bruceport, U. S. Public Works Project Nos. NRH 178-A and NRH 178-F, involving:

- (1) 14 acres grubbing;
- (2) 11,470 cu. yds. stripping;
- (3) 178,070 cu. yds. excav.;
- (4) 1,848 lin. ft. pipe culverts;
- (5) miscellaneous items of work.

PACIFIC COUNTY:

Grubbing and grading about 2.4 mi. of State Road No. 12, Bruceport to Bone River, U. S. Public Works Proj-

ect No. NRH 178-F, involving:

- (1) 16 acres grubbing;
- (2) 196,580 cu. yds. excav.;
- (3) 361 cu. yds. concrete;
- (4) 3060 lin. ft. pipe culverts;
- (5) miscellaneous items of work.

OKANOGAN COUNTY:

Grading and surfacing with crushed stone about 1.9 mi. of the Methew Valley Highway, Methew Viinity—Section 1, U. S. Public Works Project No. NRS 195-B, in Okanogan County, involving:

- (1) 103,990 cu. yds. excavation;
- (2) 4760 cu. yds. crushed stone surfacing;
- (3) 369 lin. ft. pipe culverts;
- (4) other items.

Plans and specifications obtainable from above office upon deposit of \$2 per set.

OREGON STATE—Until Dec. 29, 9 A. M., bids will be received by the Oregon State Highway Commission, R. H. Baldoek, State Highway Engineer, Multnomah Hotel, Portland, for highway construction, as follows:

Deschutes County

Band Section of Central Oregon and The Dalles-California Highways; National Recovery Projects Nos. NRM 147-E and NRM 123-D, 3,501 lin. ft. pavement resurfacing, involving 3,920 tons asphaltic concrete.

Malheur County

Ontario Section of Old Oregon Trail, National Recovery Project No. NRM 158-B, 0.99 mile regrading and 8,500 sq. yds. penetration type bituminous macadam, involving:

- (1) 3,500 cu. yds. excavation;
- (2) 4,500 cu. yds. pit run gravel topping;
- (3) 400 cu. yds. crushed gravel shoulders.

Polk County

Brunk's Corner - Oak Point Creek Section of Independence Secondary Highway; National Recovery Project No. NRS 224, 0.86 mile grading and surfacing, involving:

- (1) 33,000 cu. yds. excavation;
- (2) 3,600 cu. yds. pit run gravel topping;
- (3) 1,500 cu. yds. crush. rock or gravel shoulders.

Wasco County

The Dalles Section of Columbia River Highway; National Recovery Project No. NRM 36-B, 0.7 mile grading and surfacing, involving:

- (1) 30,600 cu. yds. excavation;
- (2) 4,700 cu. yds. rock or gravel surf.;
- (3) 3,000 lin. ft. cable guard fence;
- (4) 550 cu. yds. cement rubble masonry.

Yamhill County

Newberg-McMinnville Section West Side Pacific Highway; National Recovery Projects Nos. NRH 122-B, NRH 52, NRH 179-B, NRM 52, and NRM 179-B, 4.16 miles regarding and 3.56 miles Portland cement concrete pavement, involving:

- (1) 16,000 cu. yds. excavation;
- (2) 3,500 cu. yds. pit run gravel;
- (3) 44,000 sq. yds. Portland cem. conc. pavement;
- (4) 7,700 cu. yds. crush. rock or gravel shoulders.

Plans and specifications obtainable at the office of State Highway Commission, Room 322, State Office Bldg., Salem, upon deposit of \$5 for each set.

LANE COUNTY, Ore.—All bids received by Bureau of Public Roads, October 30, for grading 4,553 miles of the Willamette highway, located in the Willamette National Forest, Lane County, have been rejected.

F. C. Dillard, Younker & Weeks, Medford, Ore., submitted the low bid at \$147,190 (metal pipe) and at \$148,490 (concrete pipe).

SOLANO COUNTY, Cal.—Until January 10, 1934, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for grading about 0.63 mi. between 1.3 miles south of Cordelia and 0.7 mile south of Cordelia and construction of two concrete abutments for an undergrade crossing, in Solano County, involving:

- (1) 7 each remove and dispose of trees;
- (2) 22,500 cu. yds. rdwy. excav. unclass;
- (3) 248,000 sta. yds. overhaul;
- (4) 3100 cu. yds. struc. excav.;
- (5) 1137 cu. yds. Class A Port. cem. conc. structures;
- (6) 15 cu. yds. Class A Port. cem. conc. soffit slab;
- (7) 78,300 lbs. bar reinf. steel;
- (8) 252 lin. ft. 18-in. CMP;
- (9) 178 lin. ft. 24-in. CMP;
- (10) 116 lin. ft. 48-in. CMP;
- (11) 600 M. gals. water;
- (12) 44 cu. yds. conc. removed and disposed of;
- (13) 1.12 mi. new property fence;
- (14) 6 each fence gates;
- (15) 34 sta. finish roadway;
- (16) 21 each monuments complete in place;
- (17) 1 lot miscellaneous items of work.

Plans and specifications obtainable from above office, and on file at the offices of the District Engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

29

DOUGLAS COUNTY, Oregon.—R. I. Stuart & Son, Medford, at \$29,132.00 awarded contract by the U. S. Bureau of Public Roads, Portland, for subgrade reinforcement on the Tiller Trail, NR-16-03, E2, F4, Douglas Co. The project is approximately 6.616 mi. long.

29

MODOC COUNTY, Cal.—Until December 28, 2 P. M., bids will be received by the Bureau of Public Roads, C. H. Sweetser, District Engineer, 807 Sheldon Bldg., 461 Market St., San Francisco, for placing a crushed rock base course on Section B of Route 11, the Lava Beds National Forest Highway, Modoc National Forest, Modoc County, involving:

- (1) 1000 cu. yds. cucl. excav.;
- (2) 12,045 mi. fine grading, subgrade and shoulders;
- (3) 2200 M. gals watering;
- (4) 10,000 tons cru. rock base course in place;
- (5) 1300 tons supplm. cru. rock;
- (6) 23,400 tons stockpiling cru. rock base course;
- (7) 23,400 tons placing stockpiled cru. rock base course;
- (8) 63,500 gals. liquid asph. road material.

Plans and specifications obtainable from above office upon deposit of \$10.

SAN FRANCISCO—The Department of Public Works, S. J. Hester, Deputy Director, plans to improve the southerly one-half of Lawton St., between 33rd and 34th Aves. (Expediency). Estimated cost \$1950. The principal items of work are:

- (1) 350 cu. yds. excavation;
- (2) 100 lin. ft. 6-in. V.C.P. side sewers
- (3) 240 lin. ft. unarmored conc. curb;
- (4) 6000 sq. ft. asph. conc. pave. consisting of 6-in. Class F concrete base and a 2-in. asph. concrete wearing surface.

COCONINO COUNTY, Ariz.—Skousen Bros., and Arizona Sand & Rock Co., at \$136,915.50 submitted low bid to U. S. Bureau of Public Roads, 802 Title & Trust Bldg., Phoenix, Ariz., for placing a bituminous treated crushed rock surface course on 15.448 mi. of Sections B and C of Route 4, Ashfork - Flagstaff - Angell National Forest Highway, Tusayan National

Forest in Coconino County, Arizona.

Complete bids follow:

Skousen Bros. and Arizona Sand & Rock Co., Phoenix, Ariz., \$136,915.50.

N. G. Hill & Co., \$162,230.

New Mexico Constr. Co., Albuquerque-New Mexico, \$168,207.50.

Heafey-Moore Co., Oakland and Jack Casson, Hayward, \$179,045.

Award recommended to low bidder. Estimated cost, \$131,505.

APACHE COUNTY, Ariz.—O. F. Fisher, Phoenix, Ariz., at \$69,486.67 submitted low bid to Bureau of Public Roads, C. H. Sweetser, Dist. Engineer, 802 Title & Trust Bldg., Phoenix, Arizona, for grading 6.849 mi. Section K of Route 21, Springerville-Alpine State Line National Forest Highway, Apache National Forest in Apache County. Complete bids follow:

O. F. Fisher, Phoenix, Ariz., \$69,486.67

Roger Bros., Snowflake, Ariz., 72,110.01

Skousen Bros., Albuquerque, New Mexico, \$4,971.05

Estimated cost, 97,275.60

APACHE COUNTY, Ariz.—J. F. Fisher, Phoenix, Ariz., at \$69,486.67 submitted low bid to the Bureau of Public Roads, C. H. Sweetser, Dist. Engineer, 802 Title & Trust Bldg., Phoenix, for grading 6.849 miles Section K of Route 20, the Springerville-Alpine State Line National Forest Highway, Apache National Forest, in Apache County, Arizona. The three low bids follow:

O. F. Fisher, Phoenix, \$69,486.67

Roger Bros., Snowflake, Ariz. 72,110.00

Skousen Bros., Albuquerque, New Mexico, \$4,971.00

Estimated cost, 97,875.00

APACHE AND NAVAJO COS., Ariz.—Until January 2, 10 A. M., bids will be received by the Bureau of Public Roads, 802 Title & Trust Bldg., Phoenix, for placing a crushed gravel base course on Sections A and B1 of Route 1, and all of Route 2, Petrified Forest National Monument Apache and Navajo Counties, Ariz. The work involves:

- (1) 16,450 mi. fine grading, subgrade and shoulders;
- (2) 60,600 tons crushed gravel base course in place;
- (3) 10,000 tons stockpiling do;
- (4) 2200 tons supplemental crushed gravel.

Plans and specifications obtainable from above office upon deposit of \$10. C. H. Sweetser, District Engineer.

SAN FRANCISCO.—Until Dec. 27, 2:30 P. M., bids will be received by Board of Public Works, S. J. Hester, Deputy Director, Room 251, City Hall, for the improvement of Carolina St., 22nd to 23rd Sts., involving:

- (1) 578 lin. ft. unarmored conc. curb;
- (2) 1,650 sq. ft. 1-course conc. sidewalk;
- (3) 3,000 sq. ft. 6-in. Class E concrete pavement;
- (4) 3,462 sq. ft. asph. conc. pavement, 3½-in. asph. conc. base and 1½-in. asph. conc. wearing surface.

Plans and specifications obtainable at the above office.

LOS ANGELES COUNTY, Cal.—The Public Works Administration granted \$406,000 for county bridge and highway work, December 15. Three steel and concrete bridge projects were approved, and thirteen street projects. The total cost of the sixteen projects amounts to approximately \$1,693,837.

OAKLAND, Cal.—The Federal Administration of Public Works allotted a grant of \$4000 to the city of Oakland December 15 toward the cost of

improving portions of 23rd Ave., involving:

- (1) 62,986 sq. ft. grading, including 4-in. rock subgrade;
 - (2) 62,986 sq. ft. concrete or asphaltic pavement;
 - (3) 142 tons asphalt wearing surface.
- Estimated cost, \$15,524. Bids will probably be asked in about 3 weeks.

SAN DIEGO, Cal.—Miracle Co., 4751 Monroe St., San Diego, at \$9590.23 was awarded contract by Navy Department, Washington, D. C., Dec. 15 for improvement of landing field (oiling Area K) at the Naval Operating Base (Air Station) San Diego; Spec. No. 7572.

SAN FRANCISCO.—Until Dec. 27, 2:30 P. M., bids will be received by Board of Public Works, S. J. Hester, Deputy Director, Room 251, City Hall, for the improvement of crossing at Jarboe Avenue and Putnam Street, involving:

- (1) 110 cu. yds. excavation;
- (2) 32 lin. ft. 8-in. VCP sewer in place
- (3) 1 brick manhole, complete;
- (4) 2 brick catchbasins, complete;
- (5) 35 lin. ft. 10-in. VCP culvert, in place;
- (6) 60 lin. ft. armored concrete curb;
- (7) 240 sq. ft. 1-course sidewalk;
- (8) 1,730 sq. ft. asph. conc. pave., 6-in. Class F conc. base and 2-in. asph. conc. wearing surface.

Plans and specifications obtainable at the above office.

SAN FRANCISCO.—Until Dec. 27, 2:30 P. M., bids will be received by Board of Public Works, S. J. Hester, Deputy Director, Room 251, City Hall, for the improvement of Laidley Street, Fairmount to Miguel Sts., involving:

- (1) 1,028 lin. ft. armored conc. curb;
- (2) 305 li. ft. 18-in. armored concrete curb;
- (3) 4,350 sq. ft. one-course concrete sidewalk;
- (4) 12,150 sq. ft. asph. conc. pavement 6-in. Class F conc. base, and 2-in. asph. conc. wearing surface);
- (5) 200 sq. ft. asph. conc. pave., removed and replaced with asphalt conc. pave. (6-in. Class F concrete base and 2-in. asph. conc. wearing surface).

Plans and specifications obtainable at the above office.

SAN FRANCISCO.—Until Dec. 27, 2:30 P. M., bids will be received by Board of Public Works, S. J. Hester, Deputy Director, Room 251, City Hall, for the improvement of Tucker Ave., Alpha to Rutland Sts., involving:

- (1) 125 lin. ft. armored conc. curbs;
- (2) 105 lin. ft. 6-in. VCP side sewer;
- (3) 752 sq. ft. Class E conc. pave.;
- (4) 2,595 sq. ft. asph. conc. pave. (2-in. asph. conc. wearing surface and 6-in. Class F concrete base.

Plans and specifications obtainable at the above office.

PHOENIX, Ariz.—A bond issue in the amount of \$146,281.89 to finance the widening of existing streets in the City of Phoenix was voted December 9. Application for funds will be made to the PWA.

SAN FRANCISCO—Until December 27, 2:30 P. M., bids will be received by Board of Public Works, S. J. Hester, Deputy Director, Room 251, City Hall, for the improvement of Shipley St., southwesterly from Fourth St., involving:

- (1) 275 lin. ft. armored concrete curb;
- (2) 1788 sq. ft. one-course concrete sidewalk.

Plans and specifications obtainable at above office.

GILA COUNTY, Ariz.—J. L. Porter, Amon E. Shelley and J. Edward Shelley, Heber, Arizona, at \$963.10 submitted low bid to the Bureau of Public Works, Phoenix, December 13, for highway construction on Route 12, the Globe-Holbrook National Forest Highway, Section H1, unit 2, Tonto National Forest in Gila County. The work involves:

- (1) 838 cu. yds. unclass. excav.;
 - (2) 0.167 mile finishing earth graded road;
 - (3) 500 lin. ft. protection ditch.
- The total bids were:
- (A) J. L. Porter, Amon E. Shelley, J. E. Shelley, \$963.10;
 - (B) *Leo Frost, Joseph City, Arizona, \$1306.60;
 - (C) *Jas. W. Tretheway, Miami, Ariz., \$2043.90.
 - (D) Engineer's estimate, \$670.00.

Unit bids follow:

	(A)	(B)	(C)	(D)
(1) ...	\$ 1.00	\$ 1.40	\$ 2.25	\$.70
(2) ...	300.00	200.00	200.00	200.00
(3) ...	.15	.20	.25	.10

*Bid contingent upon acceptance of Unit 3 of Project 12-H1 also.
Award recommended to low bidder.

GILA COUNTY, Ariz.—J. L. Porter, Amon E. Shelley and J. Edward Shelley, Heber, Arizona, at \$2483.05 submitted low bid to the Bureau of Public Works, Phoenix, December 13, for highway construction on Route 12, the Globe-Holbrook National Forest Highway, Section H1, unit 3, Tonton National Forest in Gila County. Work involves:

- (1) 3039 cu. yds. unclass. excav.;
 - (2) 0.402 mile finishing earth graded road;
 - (3) 1040 lin. ft. protection ditch.
- The total bids were:
- (A) J. L. Porter, Amon E. Shelley, J. E. Shelley, \$963.10;
 - (B) *Leo Frost, Joseph City, Arizona, \$2271.50;
 - (C) *Jas. W. Tretheway, Miami, Ariz., \$2498.09.
 - (D) Engineer's estimate, \$2311.70.
- *Bid contingent upon acceptance of unit 2 of Project 12-H1, also.

Unit bids follow:

	(A)	(B)	(C)	(D)
(1) ...	\$.70	\$.70	\$.71	\$.75
(2) ...	300.00	100.00	200.00	300.00
(3) ...	.08	.10	.25	.10

Award recommended to low bidder.

YUMA, Ariz.—Until Jan. 4, 2 P. M., bids will be received by Arizona State Highway Commission, T. S. O'Connell, District Engineer, Phoenix, for highway construction in NRM 82-E, Yuma Streets, AFE 532. The work which begins at the south end of the Colorado River bridge at Yuma and extends southwesterly along Penitentiary Avenue to the east property line of Gila St., consists of grading, draining, placing armor coat and widening existing pavement, and is to be completed on or before March 15, 1934. The principal items of work are as follows:

- (1) 2,400 cu. yds. roadway excavation;
- (2) 2,283 cu. yds. imported borow;
- (3) 270 tons armor coat;
- (4) 1,000 tons asph. pave.;
- (5) 6,400 sq. ft. concrete sidewalk, with incidental curbs, gutters & catch-basins;
- (6) other miscellaneous items.

Plans and specifications obtainable from above office.

Funds have been programmed for the construction of this project in the amount of \$15,000. In the event contract unit prices indicate a total cost of the project as planned in excess of the amount of funds programmed for the project, the length of the project will be shortened, if necessary, to keep the cost of the work within the funds allotted thereto.

KLAMATH & DOUGLAS COUNTIES, Ore.—All bids received by the U. S. Bureau of Public Roads, Oct. 30, for surfacing 20,254 miles of the Diamond Lake and Cascade Lakes Highway have been rejected.

Joplin & Eldon, Colonial Blvd. and Peninsular, Portland, submitted the low bid at \$210,016.

OAKLAND, Cal.—\$750,000 in bonds to finance construction of bridge approaches were defeated at the election December 19.

AMADOR COUNTY, Cal.—Until January 10, 1934, 2 P. M., bids will be received by State Highway Commission, Sacramento, for grading and surfacing about 3.4 miles with crushed gravel or stone, between four miles west of Pine Grove and ¼ mile west of Pine Grove in Amador County, involving:

- (1) 15 acres clearing and grubbing right-of-way;
- (2) 74,500 cu. yds. rdwy. excav. unclass.;
- (3) 143,000 sta. yds. overhaul;
- (4) 2000 cu. yds. struc. excav.;
- (5) 6500 cu. yds. untreated, crushed gravel or stone surfacing;
- (6) 350 bbls. light fuel oil;
- (7) 120 bbls. heavy fuel oil;
- (8) 1700 M. gals. water;
- (9) 75 cu. yds. Class A Port. cem. conc. structures;
- (10) 3600 lbs. bar reinf. steel strucs.;
- (11) 272 lin. ft. 8-in. CMP;
- (12) 1248 lin. ft. 18-in. CMP;
- (13) 350 lin. ft. 24-in. CMP;
- (14) 64 lin. ft. 30-in. CMP;
- (15) 52 lin. ft. 36-in. CMP;
- (16) 86 lin. ft. 48-in. CMP;
- (17) 100 lin. ft. 72-in. CMP;
- (18) 46 lin. ft. 96-in. CMP;
- (19) 100 lin. ft. corrugated metal pipe clean and relay;
- (20) 173 lin. ft. salvaging exist. culverts;
- (21) 1105 cu. yds. salvaged surfacing;
- (22) 5 miles new property fence;
- (23) 25 each fence gates;
- (24) 181 sta. finish roadway;
- (25) 88 each monuments complete in place.

Plans and specifications obtainable from above office and on file at the office of the District Engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

December 31, 1933
BIDS WANTED

KERN COUNTY, Cal.—Until January 10, 1934, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for grading and treating with fuel oil about 8.1 miles between Route 140 and Route 58, in Kern County, involving:

- (1) 26,000 cu. yds. excav. unclass.;
- (2) 46,000 sta. yds. overhaul;
- (3) 69,000 cu. yds. import. borrow;
- (4) 13,000 cu. yds. select material;
- (5) 900 cu. yds. struc. excav.;
- (6) 15 cu. yds. remove and dispose concrete in exist. struc.;
- (7) 45 cu. yds. Class A Port. cement concrete structures;
- (8) 1350 lbs. bar reinf. steel strucs.;
- (9) 20 lin. ft. 12-in. CMP;
- (10) 126 lin. ft. 18-in. CMP;
- (11) 420 lin. ft. 24-in. CMP;
- (12) 152 lin. ft. 20-in. CMP;
- (13) 76 lin. ft. 36-in. CMP;
- (14) 24 lin. ft. 60-in. CMP;
- (15) 33 lin. ft. CMP clean and relay;
- (16) 1025 bbls. light fuel oil;
- (17) 3750 bbls. heavy fuel oil;
- (18) 5.0 miles mixing bituminous treat.;
- (19) 100 cu. yds. broken stone bituminous macadam surface;
- (20) 50 bbls. emuls. asph.;
- (21) 4500 M. gals. water;

- (22) 2.4 ml. exist. property fence to be moved and reset;
- (23) 11.0 ml. new property fence;
- (24) 2.0 ml. hog tight property fence;
- (25) 16 each fence gates;
- (26) 140 each timber guide posts;
- (27) 16 each timber culvert markers;
- (28) 423 sta. finish rdwy.;
- (29) 31 each monuments complete in place.

Plans and specifications obtainable from above office and on file at the office of the District Engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

ALAMEDA AND CONTRA COSTA COUNTIES, Cal.—Until January 10, 1934, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for grading and paving about 6.8 miles with asphalt concrete and Portland cement concrete, through Emeryville, Oakland, Berkeley, Albany and El Cerrito in Alameda and Contra Costa Counties, involving:

- (1) 1 lot remove and dispose of palm trees;
- (2) 40,450 sq. yds. rdwy. grading;
- (3) 500 cu. yds. unsuitable subgrade material be removed;
- (4) 8650 tons crusher run base;
- (5) 5310 cu. yds. Class A Port. cem. concrete pavement;
- (6) 1800 cu. yds. Class A Port. cem. conc. plain curb and gutter;
- (7) 640 cu. yds. Class A Port. cem. conc. armored curb and gutter;
- (8) 410 cu. yds. Class A Port. cem. concrete sidewalks and driveways;
- (9) 30 cu. yds. Class A Port. cem. conc. alterations;
- (10) 51,745 lbs. bar reinf. steel strucs. curb and gutter;
- (11) 37,260 sq. yds. heating asph. surf.;
- (12) 10,420 tons asph. conc. level and type A surface;
- (13) 3190 tons asph. conc. type B surf.;
- (14) 46,360 sq. yds. asph. paint binder;
- (16) 5090 lin. ft. granite curbs to be removed and reset;
- (16) 10 lin. ft. 21-in. CMP;
- (17) 10 lin. ft. 24-in. CMP;
- (18) 1320 lin. ft. 24-in. extra struc. reinf. concrete pipe;
- (19) 64 lin. ft. 27-in. extra str. reinf. concrete pipe;
- (20) 490 lin. ft. 12-in. vitrified pipe;
- (21) 620 lin. ft. 15-in. do.;
- (22) 650 lin. ft. 18-in. do.;
- (23) 40 lin. ft. 24-in. do.;
- (24) 220 lin. ft. reinf. conc. box culv.;
- (25) 160 lin. ft. 36-in. x 6-in. part circle CMP culverts;
- (26) 510 lin. ft. part circle CMP culverts to be removed and disposed of;
- (27) 30 each air vents to be removed and replaced;
- (28) 9 each sewer manholes;
- (29) 20 each exist manholes to be adjusted to grade;
- (30) 36 each storm water inlets Type B;
- (31) 8 each storm water inlet sewers;
- (32) 6 each storm water inlet siphons;
- (33) 41 each curb inlets, Albany;
- (34) 7 each reinf. conc. catchbasins;
- (35) 2 each manhole tops and covers for exist catchbasins;
- (36) 13 each drop connections to manholes;
- (37) 10 each new cast-iron handholes;
- (38) 5 each exist. handholes to be removed and reset.

Plans and specifications obtainable from above office and on file at the offices of the District Engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

ARIZONA STATE.—Arizona Sand & Rock Co., Phoenix, at \$22,887.44 were awarded contract by the Arizona State Highway Commission, Phoenix, Dec. 16, for highway construction on the

Phoenix-Tempe highway. The work, which begins at the Phoenix city limits at 16th St. and extends east one mile to 24th St., consists of moving and reconstructing a school overpass and pavement widening with asphalt concrete.

PT. MASON, San Francisco, Cal.—Pacific Pavements Co., Ltd., 85 Barstow St., at \$629.00 submitted low bid to the Port Quartermaster, Pt. Mason, for repairing magazine and battery roads at Port Mason. Complete bids follow:
 Pacific Pavements Co. \$ 629.00
 Theo. Cohn 660.00
 Lowrie Paving Co. 715.00
 E. J. Treacy 763.00
 A. J. Raisch 1083.00

SKAMANIA COUNTY, Wash.—J. C. Papin, Carson, Wash., at \$29,807 (concrete pipe) awarded contract by the U. S. Bureau of Public Roads, Portland, for grading 1.8 miles of the Wind River road near Carson, Skamania Co.

RIVERSIDE COUNTY, Cal.—Until January 10, 1934, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for grading and surfacing about 2 miles with oil treated crushed gravel or stone plant mix, between Cabazon and Whitewater in Riverside County, involving:

- (1) 23,800 cu. yds. rdwy. excav. unclass.
- (2) 2,263,000 sta. yds. overhaul;
- (3) 5000 cu. yds. struc. excav.;
- (4) 14,700 tons cru. gravel or stone surface;
- (5) 3680 bbls. fuel oil surface;
- (6) 585 bbls. fuel oil detour;
- (7) 51 tons asphaltic road oil;
- (8) 405 cu. yds. screenings;
- (9) 212 cu. yds. Class A Port. cement concrete structures;
- (10) 26,500 lbs. bar reinf. steel strues.
- (11) 11,500 sq. yds. asphaltic paint binder;
- (12) 186 lin. ft. solid timber guard rail
- (13) 181 cu. yds. remove and dispose of concrete pavement;
- (14) 560 lin. ft. 24-in. CMP;
- (15) 1428 lin. ft. 36-in. CMP;
- (16) 198 lin. ft. 48-in. CMP;
- (17) 170 each driving piles;
- (18) 5260 lin. ft. furnish piles;
- (19) 87 M.F.B.M. redwood timber dense select allheart struc. gr.;
- (20) 82 M.F.B.M. redwood timber sel. allheart struc. grade;
- (21) 13,200 lbs. struc. metal;
- (22) 108 sta. finish roadway;
- (23) 42 each monuments complete in place.

Plans and specifications obtainable from above office and on file at the office of the District Engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

KLAMATH & DOUGLAS COUNTIES, Ore.—Wren & Greenough and Edward C. Gerber, Portland, at \$169,672 submitted low bid to the Bureau of Public Roads, Portland, for gravel surfacing and bituminous covering on 20.3 miles of Diamond Lake-Cascade Lake Highways in Klamath and Douglas Counties. Complete bids follow:
 Wren & Greenough and E. C. Gerber, Portland \$169,672

A. Milne, Portland 180,748
 F. G. Redmon, Yakima 191,982
 H. G. Johnson, Portland 203,022
 Newport Const. Co., Portland 204,536
 Joplin & Eldon, Portland 208,336

SAN MATEO COUNTY, Cal.—Until January 10, 1934, 2 P. M., bids will be received by State Highway Commission, Sacramento, for grading and paving about 2-mi. with asphalt con-

crete, between Edgemar Road and State Highway Route 2, in San Mateo County, involving:

- (1) 275,000 cu. yds. rdwy. excav. unclass;
- (2) 2,060,000 sta. yds. overhaul;
- (3) 13,000 cu. yds. channel excav.;
- (4) 10,300 cu. yds. struc. excav.;
- (5) 20,500 tons cru. run base;
- (6) 16,000 tons asph. concrete;
- (7) 1250 tons screenings;
- (8) 85 tons emuls. asphaltic road oil;
- (9) 160 cu. yds. Class A Port. cem. conc. pave.;
- (10) 1100 cu. yds. Class A Port. cem. conc. structures;
- (11) 100,900 lbs. bar reinf. steel pave. and strues.;
- (12) 1170 lin. ft. 8-in. CMP;
- (13) 926 lin. ft. 24-in. CMP;
- (14) 130 lin. ft. 36-in. CMP;
- (15) 132 lin. ft. 24-in. base part circle CMP;
- (16) 25 each spillway assemblies;
- (17) 250 lin. ft. 4-in. tile drain;
- (18) 450 lin. ft. 6-in. tile drain;
- (19) 300 lin. ft. 12-in. vitrified clay pipe;
- (20) 1.0 mi. barbed wire fence;
- (21) 0.5 mi. timber fence;
- (22) 2 each timber gates;
- (23) 7700 lin. ft. solid timber guard rail;
- (24) 275 each guideposts;
- (25) 37 cu. yds. rubble masonry wall;
- (26) 15 cu. yds. exist. rubble masonry wall removed and reset;
- (27) 8 each cast steel frames and covers for drop inlets;
- (28) 6 miles traffic stripe;
- (29) 104 sta. finish roadway;
- (30) 60 each monuments complete in place.

Plans and specifications obtainable from above office, and on file at the office of the District Engineer at Los Angeles and San Francisco, and at the district in which the work is situated.

OREGON STATE.—Until Dec. 28, 9 A. M., bids will be received by the Oregon State Highway Commission, R. H. Baldock, State Highway Engineer, Multnomah Hotel, Portland, for highway construction, as follows:

Benton County

Corvallis Section of Corvallis-Newport Highway; National Recovery Project No. NRM 222-A, involving 0.44 mile of Portland cement conc. pavement 20 feet wide.

Clackamas County

Canby-Melalla river section of Pacific Highway; Natona Recovery Projects Nos. NRM 53 and NRH 53, 1.01 mile grading and paving, involving:

- (1) 8,500 cu. yds. excavation;
- (2) 14,000 sq. yds. Portland cement concrete pavement;

Lane County

Gregg Ranch and Cottage Grove Sections of Pacific Highway; National Recovery Projects Nos. NRH 161-B and NRM 161-C, involving:

- (1) 5,700 sq. yds. Port. cem. concrete pavement;
- (2) 3,260 sq. yds. rock shoulders;
- (3) 25 tons asphaltic concrete,

Marion County

Mill City - Gates Section of North Santiam Secondary Highway; National Recovery Project No. NRS 220, grading, involving:

- (1) 97,604 cu. yds. excavation;
- (2) 26,000 cu. yds. roadbed topping;

Multnomah County

Washington County line-Bertha Section of Bertha - Beaverton Highway; National Recovery Project No. NRS 198-A, 2.43 miles of pavement widening, involving:

- (1) 16,500 cu. yds. excavation;
- (2) 27,800 sq. yds. asph. concrete;
- (3) 17,000 sq. yds. rock shoulders.

Polk County

Brunk's Corner-West Salem Section of Salem - Dallas Highway; National Recovery Project No. NRS 18, 5.36 mi.

regrading and penetration type bituminous macadam, involving:

- (1) 3,000 lin. ft. concrete curbs;
- (2) 1,040 sq. yds. concrete sidewalk and driveways;
- (3) 85,600 cu. yds. excavation;
- (4) 47,000 cu. yds. rock or gravel topping;
- (5) 620 tons asphalt.

ARIZONA STATE.—Strong & Grant and A. O. Thorn, Springville, Utah, at \$187,496.99 awarded contract by the Arizona State Highway Commission, Phoenix, Dec. 16, for highway construction on the Ashfork - Kingman Highway. The work which begins at Kingman and extends northeast approximately 23.6 miles to within two miles of the town of Hackberry, consists of the grading and draining and placing base course and is to be completed on or before Oct. 31, 1934.

PIERCE COUNTY, Wash.—A. C. Greenwood & Co., Portland, Ore., at \$177,475 (metal pipe alt.) awarded the contract by the U. S. Bureau of Public Roads, Portland, for grading 2.94 miles of the West Side Highway, Mt. Rainier National Park Road, Pierce County, Wash.

COMPLETE BID LISTING

ARIZONA STATE—Arizona Sand & Rock Co., Phoenix, at \$22,887.44 (as previously reported), submitted low bid to the Arizona State Highway Commission, Phoenix, Ariz., December 13 for highway construction on the Phoenix Tempe Highway, N.R.H. 30. The work, which is to begin at the Phoenix City Limits at 16th St. and is to extend easterly one mile to 24th St., consists of the moving and reconstructing of a school overpass and pavement widening with asphaltic concrete, and is to be completed on or before February 15, 1934, involving:

- (1) 4 cu. yds. struc. excav. unclass;
- (2) 5 cu. yds. Class A conc. (including cement);
- (3) 75 lbs. steel anchor bolts CIP;
- (4) 7 cu. yds. removal of old conc.;
- (5) Lump sum, moving of school overpass;
- (6) 12,157 cu. yds. grading;
- (7) 2759 cu. yds. gravel base course CIP;
- (8) 11,578 sq. yds. asph. conc. surf. CIP;
- (9) 2.01 mi. formation and finish shoulders CIP;
- (10) 2 tons additional asphalt concrete CIP.

Complete bids follow:

- (A) Arizona Sand & Rock Co., Phoenix, \$22,887.44.
 (B) Phoenix-Tempe Stone Co., \$22,988.69.
 (C) New Mexico Constr. Co., \$25,136.30.

Unit bids follow:

	(A)	(B)	(C)
(1).....	\$ 2.50	\$ 1.00	\$ 2.00
(2).....	25.00	20.00	30.00
(3).....	.25	.20	.20
(4).....	8.00	3.00	4.00
(5).....	650.00	1000.00	800.00
(6).....	.40	.40	.30
(7).....	1.25	.99	1.50
(8).....	1.13	1.16	1.40
(9).....	300.00	400.00	50.00
(10).....	15.00	10.00	20.00

SACRAMENTO, Cal.—Following bids received by H. G. Denton, city clerk Sacramento, for approximately 2,000 tons of asphaltic concrete mix:

	Price per ton
McGillivray Const. Co.	\$3.80
Del Paso Rock Products	3.18
A. Telchert & Son	3.75

All bids referred to city manager.

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

LOS ANGELES COUNTY—3.8 Mi. Grade and Pave—(State)

LOS ANGELES COUNTY, Calif.—Jahn & Bressi Const. Co., Inc., Lane Mortgage Bldg., Los Angeles, at \$299,789.25 submitted low bid to the State Highway Commission, Sacramento, for grading and paving about 3.8 miles with Portland cement concrete and asphalt concrete, between Evergreen Avenue and Atlantic Blvd., in Los Angeles County. Complete bids follow:

- (A) Jahn & Bressi Const. Co., Inc., Lane Mortgage Bldg., Los Angeles, \$299,789.25.
 - (B) J. E. Haddock, Pasadena, \$303,819.60.
 - (C) Oswald Bros., Los Angeles, \$314,929.70.
 - (D) Griffith Co., Los Angeles, \$319,894.60.
 - (E) Sander Pearson, Santa Monica, \$326,761.00.
 - (F) United Concrete Pipe Corp., Los Angeles, \$362,630.80.
- Unit items follow:
- (1) 201 sta. clear and grub right-of-way;
 - (2) 270,000 cu. yds. rdwy. excav., unclass.;
 - (3) 174,000 ml. yds. overhaul;
 - (4) 165 tons asph. road oil seal coat;
 - (5) 12,000 cu. yds. struc. excav.;
 - (6) 83,000 sq. yds. subgrade for pave.
 - (7) 8300 aq. yds. asph. paint binder;
 - (8) 17,000 cu. yds. class A Port. cem. concrete pavement;
 - (9) 1250 cu. yds. class A Port. cem. concrete structures;
 - (10) 1200 cu. yds. class A Port. cem. conc. curbs and sidewalks;
 - (11) 462,000 lbs. bar reinf. steel pave and structures;
 - (12) 32,600 lbs. misc. iron and steel structurea;

- (13) 3300 tons asph. concrete;
 - (14) 2300 tons crushed gravel or stone bit. treated surface;
 - (15) 130 tons cutback asphalt;
 - (16) 220 lin. ft. 8-in. CMP;
 - (17) 60 lin. ft. 12-in. CMP;
 - (18) 880 lin. ft. 18-in. CMP;
 - (19) 900 lin. ft. 24-in. CMP;
 - (20) 1600 lin. ft. 36-in. CMP
 - (21) 4 each spillway assemblies;
 - (22) 300 cu. yds. conc. removed from exist. curbs, sidewalks, driveways and strucs. and disposed of
 - (23) 3750 bbls. fuel oil;
 - (24) 3.74 ml. prep. mix. and shaping shoulders;
 - (25) 6800 M gals. water;
 - (26) 0.6 ml. new property fence;
 - (27) 4 each fence gates;
 - (28) 700 lin. ft. solid timber guard rail;
 - (29) 38 each timber culvert markers;
 - (30) 170 each timber guide posts;
 - (31) 12 each moving and resetting electrolers;
 - (32) 100 lin. ft. 8-in. sewer vitrified clay pipe;
 - (33) 90 lin. ft. 8-in. cradled sewer vitrified clay pipe;
 - (34) 105 lin. ft. 8-in. encased sewer vitrified clay pipe;
 - (35) 3100 lin. ft. 6-in. vitrified clay pipe house connections;
 - (36) 345 lin. ft. 6-in. vitrified clay pipe repl. 4-in. line and connection to 4-in. sewer at property line;
 - (37) 2 drop manholes;
 - (38) 20 lin. ft. extensions to brick sewer structures;
 - (39) 18 sewer strucs. adj. to new grade;
 - (40) 1 lot misc. items of work sewer;
 - (41) 201 sta. finish roadway.
- Unit prices were:

	(A)	(B)	(C)	(D)	(E)	(F)
(1)	\$ 5.00	\$ 5.00	\$ 5.50	\$ 12.00	\$ 10.00	\$ 24.80
(2)	.23	.21	.21	.257	.24	.29
(3)	.06	.09	.06	.10	.12	.15
(4)	18.00	26.50	28.00	16.00	18.00	16.00
(5)	.60	.50	.60	.68	1.00	.80
(6)	.07	.07	.06	.09	.09	.10
(7)	.03	.02	.02	.02	.03	.015
(8)	6.60	6.50	7.05	6.85	6.75	7.40
(9)	13.20	15.00	17.00	14.50	14.00	14.00
(10)	12.55	10.50	12.00	9.45	11.00	13.00
(11)	.04	.043	.044	.038	.0425	.05
(12)	.08	.082	.10	.08	.08	.07
(13)	2.55	3.05	2.90	3.00	3.00	2.80
(14)	1.80	2.60	1.95	2.00	2.25	1.80
(15)	14.00	15.00	14.75	13.00	15.00	15.00
(16)	.90	.80	.85	.95	1.00	2.00
(17)	1.25	1.15	1.15	1.20	1.25	2.30
(18)	1.60	1.50	1.55	1.70	1.70	2.60
(19)	2.15	2.25	2.30	2.30	2.50	3.40
(20)	4.25	4.50	4.60	4.50	4.90	5.50
(21)	25.00	13.00	16.00	12.00	14.00	20.00
(22)	2.25	1.50	2.00	1.00	2.00	3.00
(23)	1.50	1.50	1.55	1.40	1.40	1.30
(24)	300.00	650.00	725.00	475.00	350.00	400.00
(25)	.50	.50	.73	.43	.30	.20
(26)	500.00	400.00	450.00	435.00	350.00	500.00
(27)	25.00	25.00	12.00	10.00	20.00	20.00
(28)	1.00	.70	.95	.90	.75	1.00
(29)	2.50	2.00	1.80	1.70	1.00	2.00
(30)	2.50	1.60	1.50	2.00	1.00	3.00
(31)	22.00	60.00	50.00	45.00	40.00	60.00
(32)	1.45	2.75	1.50	1.00	1.50	1.00
(33)	2.00	5.00	3.60	1.50	2.50	1.10
(34)	5.50	5.50	4.60	2.00	3.50	1.50
(35)	.85	.72	1.20	.95	1.40	.90
(36)	.95	.72	1.20	1.10	1.50	1.20
(37)	118.00	150.00	135.00	95.00	250.00	90.00
(38)	6.00	10.00	6.00	6.50	10.00	20.00
(39)	5.00	8.50	1.50	4.00	10.00	15.00
(40)	232.00	50.00	75.00	100.00	40.00	400.00
(41)	7.00	3.00	2.30	5.00	5.00	6.00

BIDS OPENED

APACHE COUNTY, Arizona—O. F. Fisher, Phoenix, Arizona, at \$69,486.67 (as previously reported) submitted low bid to Bureau of Public Roads, C. H. Sweetser, District Engineer, 802 Title & Trust Bldg., Phoenix, for grading 6.849 mi. Section K of Route 20, the Springville-Alpine State Line National Forest Highway, Apache National Forest, in Apache County, Arizona, involving:

- (1) 24 acres clearing;
- (2) 35,000 cu. yds. unclass. excav.;
- (3) 900 cu. yds. unclass. excav. for strucs.;
- (4) 19,800 cu. yds. unclass. excav. for borrow;
- (5) 21,700 sta. yds. overhaul;
- (6) 31.43 M.F.B.M. treat timber in place;
- (7) 310 cu. yds. cement rubble masonry;
- (8) 852 lin. ft. 18-in. CMP in place;
- (9) 130 lin. ft. 24-in. do;
- (10) 32 lin. ft. 30-in. do;
- (11) 246 lin. ft. 36-in. do;
- (12) 506 lin. ft. treat. timber piling in place;
- (13) Extra work—Maintenance;
- (14) 46 each right-of-way monuments
- (15) 191 sq. yds. asph. seal coat for bridge floors;
- (16) 24,900 lin. ft. type I protection ditch;
- (17) 6000 borrow haul;
- (18) 106 lin. ft. remove and salvage or dispose exist. CMP.;
- (19) 444 lin. ft. remove and relay exist. CMP.;
- (20) 23,000 lin. ft. remove and reset fence;
- (21) 18,500 cu. yds. subgrade reinf.

Complete bids follow:
 (A) O. F. Fisher, Phoenix, \$69,486.67.
 (B) Rogers Bros., Snowflake, Ariz., & Lee Frost, Joseph City, Ariz., \$72,110.01.
 (C) Skouson Bros., Albuquerque, New Mexico, \$84,971.
 (D) Heafey-Moore Co. and J. A. Casson, Oakland, \$113,277.50.
 (E) Engineer's Estimate, \$97,875.60.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)
(1)	\$191.00	\$150.00	\$140.00	\$500.00	\$200.00
(2)	.64	.75	.77	1.00	.80
(3)	1.00	1.50	1.50	1.50	1.50
(4)	.22	.25	.40	.25	.50
(5)	.03	.05	.04	.04	.04
(6)	114.00	135.00	125.00	150.00	150.00
(7)	15.00	15.00	16.50	35.00	20.00
(8)	2.21	2.00	2.00	2.50	2.00
(9)	3.11	3.00	3.00	3.50	2.75
(10)	3.83	3.43	4.00	4.00	3.50
(11)	5.57	5.25	5.50	5.50	5.60
(12)	1.50	2.35	3.00	2.50	2.50
(13)	500.00	500.00	500.00	500.00	500.00
(14)	5.00	5.00	4.00	3.50	4.00
(15)	.55	1.10	1.50	1.00	1.00
(16)	.08	.05	.08	.25	.10
(17)	.30	.20	.45	.25	.25
(18)	1.00	1.25	1.00	1.30	1.00
(19)	1.15	1.25	1.20	2.00	1.50
(20)	.06	.06	.03	.03	.08
(21)	.92	.85	1.25	1.50	1.60

COMPLETE BID LISTING

COCONINO COUNTY, Ariz.—Skousen Bros. and Arizona Sand & Rock Co. at \$136,915.50 (as previously reported) submitted low bid to the U. S. Bureau of Public Roads, 802 Title & Trust Bldg., Phoenix, for placing a bituminous treated crushed rock surface course on 15.448 miles of Sections B and C of Route 1, Ashfork-Flagstaff-Angell National Forest Highway, Tusayan National Forest, in Coconino County.

Complete bids follow:

- (A) Skousen Bros. and Arizona Sand & Rock Co., Phoenix, \$136,915.50;
- (B) N. G. Hill & Co., Phoenix, \$162,230.00;
- (C) New Mexico Const. Co., Albuquerque, \$168,207.50;
- (D) Heafey-Moore Co. and J. A. Casson, Oakland, Cal., \$179,045.00.
- (E) Engineer's estimate, \$131,505.00.

Quantities follow:

- (1) 1,600 M. gals. watering;
- (2) 13,500 tons crushed rock for leveling course;
- (3) 6,600 tons bit, treated crushed rock;
- (4) 1,600 tons suppl. crushed rock;
- (5) 18,000 tons crush. rock for shoulders;
- (6) 1,500 tons suppl. crushed rock do;
- (7) 45,500 gals. apply Govt. furnished asph. material, prime coat;
- (8) 75 tons do, seal coat;
- (9) 39,000 lin. ft. type 1 protection ditch
- (10) extra work cleanup right of way;
- (11) 20,000 tons stockpiling crushed rock;
- (12) 20,000 tons mix and place stockpiled crushed rock.

Award recommended to low bidder. Unit prices follow:

	(A)	(B)	(C)	(D)	(E)
(1)	\$ 4.00	\$ 4.00	\$ 3.50	\$ 3.00	\$ 3.00
(2)	1.16	2.50	1.90	2.75	2.10
(3)	3.31	3.20	2.95	3.25	2.40
(4)	1.10	2.35	1.95	2.50	2.00
(5)	0.90	1.40	1.70	1.50	1.25
(6)	0.85	1.30	1.50	1.40	1.00
(7)	.024	.03	.025	.04	.03
(8)	5.50	4.00	7.00	10.00	10.00
(9)	.12	.08	.13	.25	.10
(10)	1500.00	1500.00	1500.00	1500.00	1500.00
(11)	1.64	1.80	1.45	.10	1.30
(12)	1.67	1.40	2.20	3.35	1.50

BIDS OPENED

- SAN BERNARDINO COUNTY, Cal.—Griffith Co., 502 Los Angeles Railway Bldg., Los Angeles, at \$57,207.70 submitted low bid to State Highway Commission, Sacramento, for grading and paving with asphalt concrete, about 2.1 mi. between Pomona and Ontario in San Bernardino County, involving:
- (1) 113 sta. clearing and grub right-of-way;
 - (2) 35 each move and replant palm trees;
 - (3) 2100 cu. yds. rdwy. excav. unclass.
 - (4) 7000 cu. yds. import borrow;
 - (5) 1690 cu. yds. struc. excav.;
 - (6) 8000 sq. yds. subgrade for pave.;
 - (7) 32,000 sq. yds. asph. paint binder
 - (8) 13,250 tons asps. concrete;
 - (9) 356 cu. yds. Class A Port. cem. conc. struc.;
 - (10) 3 cu. yds. Class A Port. cement conc. railing;
 - (11) 43,000 lbs. bar reinf. steel strucs.
 - (12) 178 lin. ft. 24-in. CMP;
 - (13) 6 lin. ft. 30-in. CMP;
 - (14) 138 lin. ft. 36-in. CMP;
 - (15) 62 lin. ft. CMP clean and relay;
 - (16) 980 bbls. heavy fuel oil;
 - (17) 2.1 mi. mixing fuel oil & shoulder material;
 - (18) 22 tons asph. road oil;
 - (19) 170 tons screenings;
 - (20) 171 cu. yds. conc. removed from exist. pave and strucs. and disposed of;
 - (21) 142 lin. ft. temporary timber guard rail and wheel guards;
 - (22) 113 sta. finish rdwy.;
 - (23) 40 each monuments complete in place.

Complete bids follow:

- (A) Griffith Co., Los Angeles, \$57,207.50.
- (B) United Concrete Pipe Corp., Los Angeles, \$57,304.50.
- (C) Oswald Bros., Los Angeles, \$57,753.80.
- (D) Imperial Rock Corp. and Orange Rock Co., Los Angeles County Rock Co., Los Angeles, \$76,908.56.

Unit prices follow:

CALAVERAS PIPE LINE — (CITY)

ALAMEDA COUNTY, Calif.—W. A. Bechtel Co., 155 Sansome Street, San Francisco, at \$223,623.00 (Proposal A) and W. J. Tobin, 3701 Balfour Ave., Oakland, at \$195,642.40 (Proposal B) and at \$192,261.50 (Proposal C) submitted low bid to San Francisco Public Utilities Commission, City Hall, San Francisco, for constructing a 44-inch diameter welded steel pipe line from Calaveras Dam, about 8½ miles southerly from the town of Sunol, Alameda County, to the Alameda Creek Siphon, on the Hetch Hetchy Aqueduct, a distance of approximately 70,000 feet. Estimated cost, \$350,000.00.

The work includes also the construction of an eight-foot diameter horse-shoe shaped concrete lined tunnel, trestle bents and piers to support the pipe above ground and across creeks, structures appurtenant to the pipe line, and certain permanent roads.

Alternate tunnel locations are provided for in three separate proposals, as follows:

(Proposal A) A tunnel approximately

1,060 feet long and on a grade of 6.7%;
 (Proposal B) A tunnel approximately 520 feet long and on a grade of 7.9%;
 Proposal C) A tunnel approximately 450 feet long and on a grade of 0.9%.

Complete bids follow:

- (1) W. A. Bechtel Co., San Francisco, (A) \$223,623; (B) \$197,736; (C) \$193,690.
- (2) W. J. Tobin, 3701 Balfour Ave., Oakland, (A) \$227,287.20; (B) \$195,642.40; (C) \$192,261.50.
- (3) MacDonald & Kahn Co., Ltd., San Francisco, (A) \$258,488.50; (B) \$233,831.25; (C) \$235,037.00.
- (4) American Concrete & Steel Pipe Co., Oakland (A) \$278,213.80; (B) \$256,735.60; (C) \$253,470.00.
- (5) S. H. Palmer, San Francisco (A) \$309,654.50; (B) \$273,246.00; (C) \$268,825.50.
- (6) W. A. Kettlewell and W. B. Mead, 9135 San Leandro St., Oakland, (A) \$333,080; (B) \$305,480 (C) \$293,980

Estimated Quantities Follow:

Item	Unit	(A)	(B)	(C)
(1) removing and relaying portions of existing 44-in. pipe, not buried:				
(a) removing & relaying in trench....	lin. ft.	27,100	27,000	27,050
(b) removing & relaying on trestle, bents or piers	lin. ft.	3,000	3,500	3,600
(c) removing & relaying in tunnel....	lin. ft.	1,060	520	450
(2) removing buried portion of existing 44 in. pipe	lin. ft.	1,200	1,200	1,200
(3) removing portions of 36-in. pipe not buried	lin. ft.	600	600	600
(4) furnish and install pipe specials, bevelled courses				
(a) elbows		455	450	455
(b) other specials	lin. ft.	70	70	70
(5) removing valves and fittings from existing line:				
(a) misc. fittings and valves 8-in. or smaller	pound	16,000	16,000	16,000
(b) valves, tapers and flanges larger than 8-in.	pound	28,000	28,000	28,000
(6) installing fittings, valves & Venturi meter furnished by city or removed from existing line:				
(a) misc. fittings and valves 8-in. or smaller	pound	12,000	12,000	12,000
(b) valves larger than 8-in. and Ventura meter tapers & flanges....	pound	32,000	32,000	32,000
(7) furnish and install cast steel saddles, nozzles and flanges.....	pound	3,200	3,200	3,200
(8) furnish & install 6-in. gate valves	each	5	5	5
(9) furnish & install 8-in. gate valves	each	5	5	5
(10) furnish & install 6-in. vac. valves	each	5	5	5
(11) furnish & install air release valv.	each	15	15	15
(12) furnish & install misc. metal work:				
(a) cast iron pipe and fittings.....	pound	15,000	15,000	15,000
(b) wrought iron & misc. pipe and fittings	pound	5,000	5,000	5,000
(c) galv. corrugated culverts.....	pound	2,000	2,000	2,000
(d) reinf. plates, stiffeners and miscellaneous steel work	pound	4,000	4,000	4,000
(13) trench & misc. excavation:				
(a) earth and gravel	cu. yds.	45,000	45,000	45,000
(b) rock	cu. yds.	1,000	1,500	1,500
(14) screenings material for backfill....	l. f. trench	9,000	9,000	9,000
(15) hauling material for backfill.....	l. f. trench	8,000	8,000	8,000
(16) concrete: (a) Class A.....	cu. yd.	320	350	360
(b) Class B	cu. yd.	100	100	100
(17) reinforcing steel in place.....	pound	28,000	31,000	32,000
(18) tunnel excavation	cu. yd.	3,500	1,700	1,400
(19) tunnel lining	cu. yd.	2,000	1,000	800
(20) cast - in - place concrete piles for pier footings	lin. ft.	400	400	400
(21) grouting under pier footings.....	sacks cem.	1,000	1,000	1,000
(22) furnish & install structural steel trestle bents	pound	110,000	160,000	160,000
(23) excav. for permanent roads:				
(a) earth and gravel.....	cu. yd.	3,500	3,500	3,500
(b) rock	cu. yd.	500	500	500
(24) transporting mtl. for road fills....	cu. yd.	400	400	400
(25) construct road 26+00 to 34+00....	lin. ft.	800	800	800
(26) Misc. timber structures:				
(a) Douglas fir	M.B.M.	20	20	20
(b) Redwood	M.B.M.	8	8	8

Unit prices follow:

PROPOSAL A

	(1)	(2)	(3)	(4)	(5)	(6)
(1)	\$ 1.50	\$ 1.30	\$ 2.15	\$ 2.18	\$ 2.74	\$ 2.60
(a)	1.50	1.30	2.15	2.18	2.74	2.60
(b)	1.80	1.55	2.90	2.95	2.95	2.90
(c)	2.29	1.87	3.40	3.18	4.20	4.50
(2)	1.50	1.00	.80	3.63	4.00	4.50
(3)	.75	.35	.80	1.55	1.00	2.00
(4a)	50.00	45.00	27.25	22.80	55.50	50.00
(b)	50.00	20.00	47.85	29.40	60.00	25.00
(5a)	.20	.01	.095	.08	.06	.11
(b)	.15	.01	.07	.07	.05	.06
(6a)	.20	.02	.075	.09	.10	.11
(b)	.10	.015	.0625	.08	.04	.06
(7)	.20	.15	.30	.22	.23	.25
(8)	50.00	35.00	51.70	60.00	77.00	40.00
(9)	75.00	45.00	80.00	80.00	93.00	60.00
(10)	200.00	200.00	254.00	220.00	250.00	190.00
(11)	40.00	40.00	47.25	45.00	60.00	38.00
(12a)	.12	.10	.20	.15	.11	.11
(b)	.20	.10	.26	.15	.10	.10
(c)	.20	.15	.13	.15	.14	.12
(d)	.20	.10	.25	.18	.20	.20
(13a)	.55	1.00	.90	1.10	.60	1.50
(b)	2.50	3.00	4.00	5.00	3.00	4.00
(14)	.40	.23	.25	1.10	1.00	.30
(15)	.40	.17	.30	1.00	.50	.27
(16a)	25.00	50.00	36.00	27.50	36.00	30.00
(b)	24.00	18.00	36.00	22.00	28.00	28.00
(17)	.06	.05	.10	.055	.04	.06
(18)	9.75	6.50	9.00	9.00	12.00	12.55
(19)	16.50	26.00	14.50	15.00	21.00	19.50
(20)	16.00	1.50	15.00	10.00	20.00	12.00
(21)	1.10	1.50	1.80	2.75	3.00	2.00
(22)	.07	.075	.10	.08	.11	.15
(23a)	.55	.40	.60	1.00	.56	1.00
(23b)	1.50	1.50	4.00	2.50	2.60	2.00
(24)	.55	.75	.40	.60	.20	.60
(25)	1.50	1.50	2.00	6.00	6.00	2.00
(26a)	100.00	70.00	72.00	108.00	60.00	80.00
(26b)	120.00	90.00	84.00	145.00	70.00	100.00

PROPOSAL B

Unit prices by each bidder were identical with those of Proposal A with the following exceptions:

(1c)					6.00	
(18)	11.00	7.10	11.00	10.00	14.00	14.55
(19)	17.50		14.50	16.00	21.00	21.59

PROPOSAL C

Unit prices by each bidder were identical with those of Proposal A with the following exceptions:

(18)	11.00	7.25	11.00	11.00	14.00	14.05
(19)	18.00		14.50	17.00	14.00	2.50

A special meeting of the Public Utilities Commission will be held Monday, December 18, at 3 P. M., to award the contract.

HUMBOLDT COUNTY—CONCRETE BRIDGE—(STATE)

HUMBOLDT COUNTY, Cal.—Theodor Johanns, 2020 15th St., San Francisco, at \$10,985 submitted low bid to State Highway Commission, Sacramento, for construction of a reinforced concrete girder bridge across Dean Creek about 5.0 mi. north of Garberville consisting of three 44-ft. spans with reinforced concrete piers and abutments in Humboldt County, involving:

- (1) 1 only remove and dispose of exlet. bridge;
- (2) 240 cu. yds. struc. excav.;
- (3) 51 cu. yds. class A Port. cement concrete footing blocks;
- (4) 293 cu. yds. class A Port. cement conc. struc.;

- (5) 8 cu. yds. Class A Port. cement concrete railing;
- (6) 53,400 lbs. bar reinf. steel;
- (7) 1510 lbs. cast steel;
- (8) 1 lot misc. items of work.

Complete bids follow:
(A) Theodor Johanns, San Francisco, \$10,985.

(B) Mitty Bros., Los Angeles, \$11,197.50.

(C) Baldwin & Butler, Berkeley, \$11,774.60.

(D) John Carcano, San Rafael, \$12,742.50.

(E) Fred J. Maurer & Sons, Eureka, \$13,930.

(F) J. W. Halterman, Willows, \$13,954.18.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)
(1)	\$1000.00	\$1000.00	\$1160.00	\$900.00	\$1800.00	\$1700.00
(2)	3.00	1.50	2.00	4.00	4.00	3.50
(3)	7.50	18.00	12.00	20.00	15.00	20.00
(4)	20.00	18.00	21.00	22.00	21.00	22.50
(5)	40.00	30.00	50.00	40.00	35.00	57.00
(6)	.045	.0575	.045	.05	.05	.0482
(7)	.10	.20	.16	.15	.20	.18
(8)	148.50	300.00	325.00	200.00	1000.00	500.00

	(A)	(B)	(C)	(D)
(1)	\$ 8.00	\$ 10.00	\$ 6.00	\$ 17.00
(2)	20.00	18.00	50.00	65.00
(3)	.25	.35	.28	.50
(4)	.50	.40	.48	.64
(5)	.60	.60	.70	.95
(6)	.10	.10	.09	.09
(7)	.02	.02	.02	.015
(8)	2.67	2.75	2.56	3.54
(9)	16.00	14.00	13.00	24.50
(10)	80.00	90.00	70.00	70.00
(11)	.05	.05	.04	.046
(12)	2.50	2.50	2.50	2.45
(13)	3.50	4.00	5.00	3.70
(14)	5.00	5.00	5.00	4.60
(15)	.60	3.00	.75	.75
(16)	1.60	1.50	1.70	1.54
(17)	400.00	350.00	350.00	460.00
(18)	21.00	22.00	24.00	21.72
(19)	2.00	2.00	4.35	4.00
(20)	3.00	3.00	4.30	6.10
(21)	1.50	1.00	1.50	1.50
(22)	4.00	5.00	2.50	4.00
(23)	2.00	3.00	2.75	2.00

BIDS OPENED

SHASTA COUNTY, Cal.—E. B. Bishop, Forum Bldg., Sacramento, at \$41,150 submitted low bid to the U. S. Bureau of Public Roads, 461 Market St., San Francisco, for placing crushed rock subgrade reinforcement on 4.488 miles of Section A of Route 75, Marzanita Lake National Forest Highway, Lassen National Forest, Shasta County. Complete bids follow:

- (A) E. B. Bishop, Sacramento, \$41,150.
(B) Hemstreet & Bell, Marysville, \$56,380.00.

(C) Engineer's estimate, \$37,870.

Unit quantities follow:

- (1) 1000 cu. yds. unclass. excav.;
- (2) 2000 tons subgrade reinf.;
- (3) 1000 tons suppl. do.;
- (4) 600 M. gals. watering;
- (5) 24,000 gals. liquid asph. road material;
- (6) 10,000 tons stockpiling subgrade reinf.;
- (7) 10,000 tons placing do.

The unit prices were:

	(A)	(B)	(C)
(1)	\$.75	\$1.00	\$.75
(2)	2.65	4.00	2.10
(3)	2.50	3.70	2.10
(4)	2.00	2.00	1.90
(5)	.10	.08	.07
(6)	2.15	3.30	1.55
(7)	.75	.75	.75

All bids held under advisement.

BIDS OPENED

STANISLAUS CO., Calif.—Heafey-Moore Co., 344 High St., Oakland, at \$57,774 submitted low bid to the State Highway Commission, Sacramento, for paving with asphalt concrete about 1.3 miles at Modesto, in Stanislaus County, involving:

- (1) 50 each trees to be removed and disposed of;
- (2) 1,095 cu. yds. remove and dispose of exist. curbs, gutters and pave.;
- (3) 19,400 sq. yds. grade and subgrade prep. pave., curbs, gutters and approaches;
- (4) 1,580 cu. yds. Class A Port. cem. conc. curbs, gutters and pave. approaches;
- (5) 35,800 sq. yds. asph. paint binder;
- (6) 8,900 tons asphalt concrete.

Complete bids follow:

(A) Heafey-Moore Co., Oakland, \$57,774.00;

(B) Valley Paving & Const. Co., Fresno, \$59,918.00;

(C) A. Teichert & Son, Sacramento, \$66,051.00.

(D) Willard & Blasotti, Stockton, \$71,867.75.

Unit prices follow:

	(A)	(B)	(C)	(D)
(1)	\$10.00	\$10.00	\$20.00	\$15.00
(2)	2.60	4.00	3.00	2.25
(3)	.22	.20	.35	.35
(4)	10.00	13.00	13.50	12.00
(5)	.025	.01	.02	.03
(6)	3.76	3.40	3.70	4.70

ARIZONA — 23.6 MILES GRADING — (STATE)

ARIZONA STATE.— Strong & Grant and O. A. Thorn, Springville, Utah, at \$187,496.99 (Alt., \$187,860.99, as previously reported) submitted low bid to the Arizona State Highway Commission, Phoenix, Dec. 13, for highway construction on the Ashfork-Kingman Highway (NRH 80-G; AFE 6626). The work which begins at Kingman and extends northeasterly approximately 23.6 miles to within two miles of the town of Hackberry, consists of the grading and draining and placing of base course, and is to be completed before October 31, 1934.

The work involves:

ROADWAY

- (1) 11,400 cu. yds. stripping pits;
- (2) 68,413 cu. yds. rdwy. excav., unclass.;
- (3) 554 M. gals. sprinkling CIP;
- (4) 17,442 cu. yds. drainage excav., unclass.;
- (5) 15,100 lin. ft. grader ditches;
- (6) 2,707 cu. yds. struc. excav., unclass.;
- (7) 132,822 cu. yds. borrow do;
- (8) 21,493 sta. yds. earthwork over-haul;
- (9) 609 cu. yds. mi. earthwork haul;
- (10) 30,208 cu. yds. agg. base course;
- (11) 86,706 cu. yds. mi. do haul;

- (12) 1,328 cu. yds. Class A concrete (including cement);
 - (13) 7 cu. yds. Class B do;
 - (14) 169,826 lbs. reinf. steel bars CIP;
 - (15) 5,068 lin. ft. 24-in. CMP (including bands);
 - (16) 778 lin. ft. 36-in. do;
 - (17) 25 cu. yds. plain riprap CIP;
 - (18) 2 each Type A cattle guards;
 - (19) 194 each right of way markers CIP;
 - (20) 1,820 lin. ft. cable road guard type A CIP;
 - (21) 136,400 lin. ft. standard line fence CIP;
 - (22) 250 lin. ft. rail bank protection, type A;
- Structures Over 20 ft Clear Span
- (23) 18,738 cu. yds. drainage excav., unclass.;
 - (24) 2,155 lin. ft. struc. excav., unclass.;
 - (25) 184 cu. yds. agg. base course;
 - (26) 616 cu. yd. mile agg. base course, haul;
 - (27) 2,982 cu. yds. Class A conc. (including cement);
 - (28) 210,990 lbs. reinf. steel bars CIP;
- ALT (Sub. Steel Plate Guard Rail)
- (20-A) 1,820 lin. ft. steel plate road guard CIP.

Total bids follow:

- (A) Strong & Grant and O. A. Thorn Springville, Utah \$187,496.99; Alt. \$187,860.99.
- (B) Pierson & Dickerson and Martin Bros. Trucking Co., Phoenix, \$189,725.21; \$189,180.21.
- (C) Hodgman & MacVicar and H. L. Royden, Flagstaff, \$189,622.24; \$159,905.24.
- (D) Skousen Bros., Albuquerque, N. M., \$203,300.18.
- (E) Armstrong & Armstrong, Roswell, N. M., \$207,471.53; \$207,471.53.
- (F) J. E. Haddock, 357 N Chester Ave., Pasadena, Cal., \$209,600.45; \$209,782.47.
- (G) N. G. Hill & Co. Phoenix, \$213,436.75; \$213,709.75.
- (H) Packard & Tanner, Phoenix, \$213,884.94; \$214,066.94.
- (I) New Mexico Const. Co., Albuquerque, \$214,990.50; \$215,172.50.
- (J) Olds Bros. Lumber Co. and All-Arizona Engr. Co., Clifton, Ariz., \$215,186.23; \$215,409.23.
- (K) Orr & L. C. Lashmet, P. O. Box 177, Bisbee, Arizona, \$218,016.49; \$218,744.49.
- (L) H-user, Garnett and Fleming, Glendale, Cal., \$250,890.42; \$251,254.42.

Unit prices follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)
(1)	.17	.16	.20	.15	.15	.20	.20	.19	.28	.17	.17	.28
(2)	.17	.26	.20	.27	.27	.24	.25	.25	.29	.34	.35	.25
(3)	3.50	2.75	2.50	2.50	3.00	3.00	4.00	3.00	3.60	4.00	3.00	3.00
(4)	.17	.27	.20	.28	.20	.26	.25	.25	.27	.25	.30	.27
(5)	.04	.02	.02	.04	.03	.05	.06	.05	.04	.05	.03	.05
(6)	1.00	.75	.90	1.00	.80	.75	1.00	1.50	1.00	1.00	1.10	2.00
(7)	.17	.19	.20	.18	.20	.22	.25	.19	.22	.22	.25	.28
(8)	.04	.02	.02	.03	.03	.04	.04	.03	.04	.06	.04	.05
(9)	.50	.40	.50	.40	.25	.50	.50	.40	.20	.30	.50	.60
(10)	.45	.45	.40	.50	.50	.52	.45	.55	.50	.50	.50	.60
(11)	.11	.11	.09	.11	.11	.13	.09	.12	.10	.11	.11	.10
(12)	20.00	18.00	20.50	22.50	22.00	21.00	23.00	21.00	21.50	21.00	21.00	26.00
(13)	20.00	18.00	20.50	25.00	25.00	21.00	21.00	23.00	24.00	21.00	21.00	26.00
(14)	.05	.0475	.055	.05	.05	.055	.05	.055	.05	.05	.05	.06
(15)	2.70	2.50	2.50	2.50	3.00	2.50	3.10	3.00	3.10	2.80	2.40	3.00
(16)	5.00	5.00	5.00	5.00	5.50	5.00	6.10	5.50	6.20	5.50	4.80	6.00
(17)	5.00	3.00	3.00	5.00	4.00	4.00	3.00	3.00	2.00	4.00	4.00	5.00
(18)	250.00	300.00	350.00	250.00	200.00	200.00	200.00	250.00	250.00	200.00	200.00	200.00
(19)	2.00	1.50	2.00	.50	2.50	3.00	2.00	2.50	3.00	3.00	2.00	3.00
(20)	.80	.60	.80	.90	.80	.75	.70	1.00	.75	.85	.80	.80
(21)	.06	.06	.06	.05	.055	.07	.055	.07	.05	.06	.058	.06
(22)	3.00	1.50	2.50	5.00	3.50	3.00	2.00	5.00	5.20	3.00	2.50	3.00
(23)	.17	.27	.20	.25	.22	.26	.25	.25	.27	.25	.30	.27
(24)	1.00	.75	.90	1.00	.80	.75	1.00	1.50	.85	1.00	1.10	2.00
(25)	.45	.45	.40	.50	.50	.52	.45	.55	.50	.50	.50	.60
(26)	.11	.11	.09	.11	.11	.13	.09	.12	.10	.11	.11	.10
(27)	20.00	18.00	20.00	21.00	22.00	21.00	21.00	21.00	21.00	21.00	21.00	26.00
(28)	.05	.0475	.05	.046	.05	.055	.05	.055	.05	.05	.05	.06
(20A)	1.00	.85	.95	1.00	.80	.85	.85	1.10	.85	1.00	1.20	1.00

MONTEREY COUNTY — TIMBER BRIDGES — (STATE)

MONTEREY COUNTY, Cal.—Bodenhamer Constr. Co., 354 Hobart Street, Oakland, at \$78,096 submitted low bid to State Highway Commission, Sacramento, for the construction of three timber bridges between 52 and 56 mi. south of Monterey, in Monterey County as follows: (1) Bridge across Anderson Canyon, consisting of one 76-ft. truss span and twenty 19-ft. stringer spans; (2) bridge across Buck Creek, consisting of one 57 ft. truss span and fourteen 19 ft. stringer spans, and (3) bridge across Lime Creek, consisting of ten 19ft. stringer spans, involving:

- (1) 600 cu. yds. stripping;

- (2) 1,800 cu. yds. struc. excav.;
 - (3) 153 cu. yds. Class A Port. cement concrete;
 - (4) 385 cu. yds. Class A do;
 - (5) 24,000 lbs. bar reinf. steel;
 - (6) 60,300 lbs. struc. metal;
 - (7) 102 MFBM redwood timber dense select all-heart struc. grade;
 - (8) 190 MFBM redwood timber select all-heart struc. grade;
 - (9) 1 lot misc. items of work.
- Complete bids follow:
- (A) Bodenhamer Constr. Co., Oakland, \$78,096.
 - (B) Eaton & Smith and A. J. Grier, San Francisco, \$79,983.

- (C) Geo. K. Thompson, Los Angeles, \$80,534.
- (D) M. E. McGowan, San Francisco, \$81,968.
- (E) F. O. Bohnett and N. M. Bell, Campbell, \$84,800.
- (F) Lindgren & Swinerton, San Francisco, \$86,376.
- (G) W. J. Tobin, Oakland, \$89,816.
- (H) Theo. M. Malno, San Luis Obispo, \$92,136.15.
- (I) Inch-Cannon Engineering Co., Los Angeles, \$96,495.
- (J) R. H. Travers, Los Angeles, \$98,754.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)
(1)	\$ 1.15	\$.50	\$ 2.00	\$ 1.25	\$ 1.20	\$ 1.90	\$ 1.30	\$ 2.90	\$ 1.00	\$ 2.80
(2)	2.25	1.50	3.00	2.50	3.00	2.50	4.00	2.80	3.00	2.80
(3)	26.00	23.00	30.00	24.00	23.00	30.00	27.00	27.30	35.00	24.00
(4)	21.00	20.00	28.00	18.00	22.00	25.00	22.00	25.30	30.00	24.00
(5)	.055	.06	.08	.05	.06	.057	.06	.054	.06	.06
(6)	.07	.08	.08	.075	.07	.06	.06	.06	.08	.075
(7)	91.00	100.00	85.00	96.00	100.00	99.00	106.00	108.35	113.00	120.00
(8)	93.00	100.00	85.00	114.00	107.00	110.00	111.00	108.35	110.00	118.00
(9)	1500.00	300.00	1500.00	141.50	500.00	1377.00	475.00	2382.00	1000.00	2500.00

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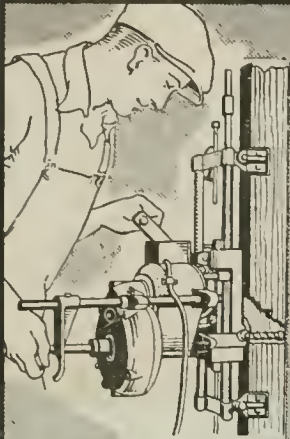
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Building Permits, Advance Reports of
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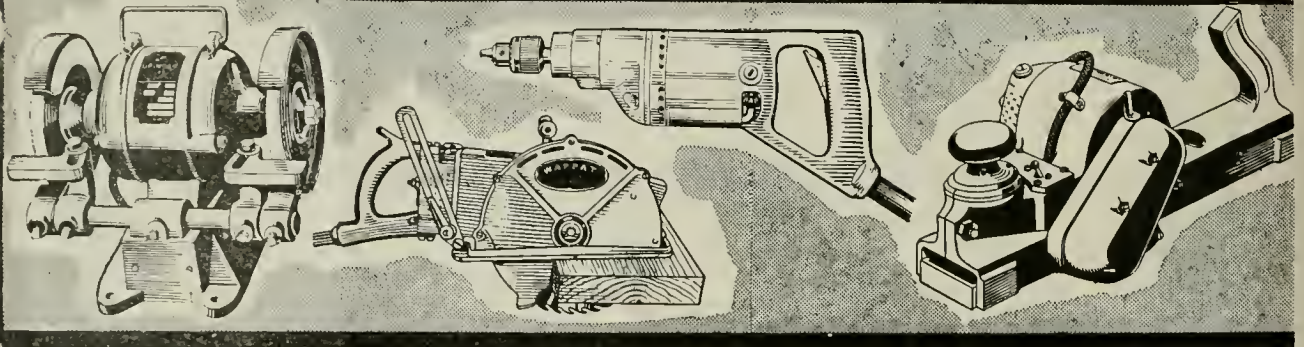
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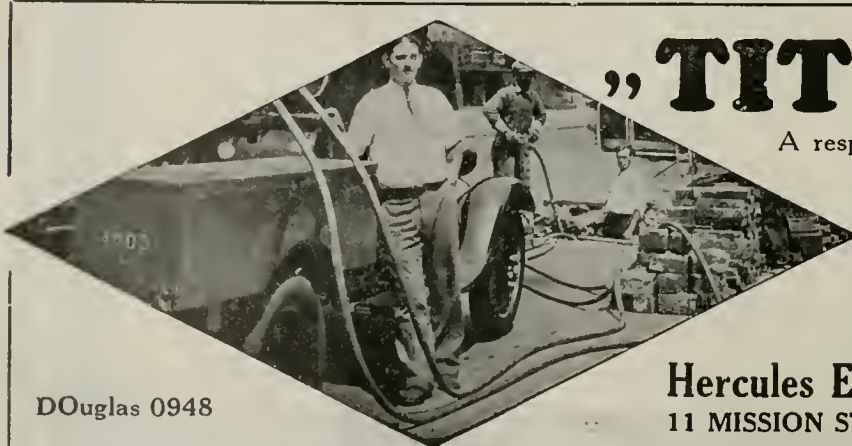
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SAN FRANCISCO, CALIF., DECEMBER 30, 1933

No. 50

STATE LEAGUE PREPARING FOR NRA BASIC CODE

**Organization to Incorporate
Expecting Approval of
New Regulations**

Word of approval of the NRA code for the construction industry is expected hourly by local agencies sponsoring the national code which is now in the hands of President Roosevelt.

Preparatory to announcement of the code the Construction League of California is being incorporated. William E. Hague, member of the code committee, announced yesterday. The California league organization will be modeled after that of the Construction League of the United States.

Mr. Hague said:

"Steps have been taken to incorporate the Construction League of California preparatory to the expected early approval of the pending code for the construction industry of the United States.

"Last Saturday President Roosevelt announced he would consider signing the Construction Industry Code this week and his final signature and approval is expected any day.

"We are informed that the Code finally approved will be that substantially proposed by the Construction League of the United States after many conferences between its member associations and also between a specially appointed committee which met with representatives of labor to confer principally on hours and wages.

"It is understood that this code now meets with as general approval from the various units of the construction industry as might be expected at this time when there is a great lack of effective organization largely caused by lacks of funds owing to the hard times.

"Some supplemental codes for leading professions and crafts of the industry are expected to be signed at the same time and are in conformity with the Master Code for the construction industry.

"Charles F. B. Roeth is president of the Construction League of California, and Floyd O. Booe is secretary."

COMPENSATION RATES INCREASE ON JANUARY 1

**General Level to be Two Per
Cent Higher, Broker
Reports**

Compensation insurance rates effective January first in the building trades will show an average increase of about two percent over 1933 figures, according to a tabulation compiled by R. G. Guyett, insurance broker

The increases are due to heavier losses experienced by the casualty companies during the past year, Guyett said. The upward trend has been due to larger awards, increased medical charges and prolonged periods of disability, rather than because of greater accident ratio in the trades affected.

The rates listed below are those approved by the insurance commissioner for 1934, compared with the current rates:

	1933	1934
Cabinet work	3.23	3.41
Carpentry (shop only).....	3.23	3.41
Carpentry (N.O.C.)	6.63	7.09
Cement Mfg. (excluding quarrying).....	1.85	1.82
Concrete Const. (N.O.C.)	6.61	7.09
Chimney Const., stone or brick	6.61	8.93
Cement work, sidewalks, floors, etc.	2.45	2.62
Electrical wiring, within buildings	2.79	2.83
Lumber yards	3.55	3.48
Millwork (N.O.C.)	4.76	4.97
Millwright w'k (N.O.C.)	4.54	4.62
Painting, decorating and paperhanging	4.52	4.90
Plastering	7.32	7.20
Plumbing	2.50	2.62

FIX SCALE FOR WATER PROJECT

A wage scale has been fixed by the Fresno city commissioners for laborers employed on the water system for which the Public Works Administration has granted \$25,500. The scale approved follows:

Pipe layers, 70 cents an hour; pipe layers' helpers, 60 cents; supply car drivers, 60 cents; laborers, 50 cents; concrete laborers, 60 cents; hot asphalt workers, 60c.

MATERIAL PRICES CONTINUE GAIN DURING NOV.

**Group Up One Per Cent From
Preceding Month; Further
Advance in December**

Building materials registered the second largest advance in average price during November compared with October, the United States Bureau of Labor Statistics reports. Farm products showed the largest increase of any group.

Building materials advanced one percent during the month. Brick and tile, lumber, paint and paint materials and other building materials shared in the upward movement. Average prices for plumbing and heating materials moved downward while cement and structural steel remained at the same level as for October.

The index at the end of the month stood at 84.9 compared 83.9 in October and 70.7 for November, 1932.

The prices will show an almost equal advance during December from indications for the first two weeks. On December 16 the index was at 85.3.

San Francisco wholesale prices remained unchanged this week, but an increase in cement and ready-mix concrete is scheduled effective next week, according to local dealers. The new prices will be announced January 2.

Following is a comparison of principal material price levels for November and October as reported by the Bureau of Labor Statistics:

	Nov.	Oct.
Brick and tile	84.7	84.6
Cement	91.2	91.2
Lumber	86.5	84.2
Paint & paint materials.....	76.3	76.1
Plumbing and heating.....	73.7	74.7
Structural steel	86.8	86.8
Other bldg. materials.....	88.4	87.1

NEW ADMINISTRATOR OF CWA APPOINTED

Capt. Edward Macauley of Hillsborough, formerly relief director in San Mateo county, has been appointed Civil Works Administrator for the state of California. Capt. Macauley succeeds R. C. Branion, CWA administration in order to devote his time to relief work. who asked to be relieved of the

Summary of PWA Allotments

Public works allotments to November 18, 1933, are shown in the following table:

Farm Credit Bureau (statutory).....	\$100,000,000
Federal Departments (physical improvements not specified).....	25,910,000
Administrative expenses (PWA; NRA; etc.).....	8,419,731
Naval Construction.....	238,000,000
Construction in Alaska and Insular Possessions.....	4,849,920
Highways, secondary highways, forest roads and trails, street imp.	492,608,604
Tennessee Valley Authority.....	50,000,000
Irrigation, reclamation, forest service, conservation, parks.....	527,951,397
Rivers and harbors, flood control, dams, etc.....	218,463,108
Bridges.....	51,339,687
Tunnels (one project).....	37,500,000
Sewers—storm and sanitary (79 projects).....	43,937,745
Dock and Sewer (one project).....	21,000
Sewer and Water Supply (three projects).....	240,000
Incinerators (two projects).....	229,000
Water Supply Systems (80 projects).....	40,415,543
Water and Natural Gas (one project).....	290,256
Natural gas plant (one project).....	72,000
Electric Power Plants (seven projects).....	16,772,100
Street Lighting (one project).....	63,600
Lighthouses.....	5,378,734
Coast defense and coast guard improvements.....	31,530,035
Navy yards and docks.....	25,284,137
Residential buildings: Army housing.....	57,935,940
Low-cost housing (16 projects).....	48,215,958
Hospital dormitories (three projects).....	2,581,000
Subsistence homesteads (statutory).....	25,000,000
Schools, colleges and libraries (43 projects).....	17,135,896
Hospitals and institutions (29 projects).....	16,233,476
Border and quarantine stations (15 projects).....	1,005,171
Post offices (41 projects).....	46,885,433
Miscellaneous public buildings (35 projects).....	12,343,080
Federal Departments for specified physical improvements.....	33,062,117
Terminal market and docks (one project).....	250,000
Stock farms (two projects).....	13,500
Loans for steel rails and fastenings.....	51,000,000
Loan to Pennsylvania R. R. for electrification.....	84,000,000
Civil Works Administration.....	400,000,000
TOTAL.....	\$2,714,875,173

NAME SUPERVISORS OF SURVEY WORK

Engineers interested in obtaining employment on the local control surveys of the U. S. Coast and Geodetic Survey should apply to state supervisors in their locality for information. Following is a list of supervisors appointed in the western states:

Arizona: Dean G. M. Butler, University of Arizona, Tucson.

California: John S. Bates, 3134 Eton Ave., Berkeley.

Idaho: Prof. Ivan C. Crawford, University of Idaho, Moscow.

Montana: L. D. Conklin, Montana State College, Bozeman.

Nevada: L. H. Taylor, University of Nevada, Reno.

Oregon: R. H. Baldock, State Highway Engineer, Salem.

Utah: Prof. T. C. Adams, University of Utah Salt Lake City.

Washington: Prof. C. E. Magnusson, University of Washington, Seattle.

CALIFORNIA MAN ON NATIONAL COMMITTEE

Dr. Herbert E. Bolton of the University of California, is named as one of those selected by the director of national parks, buildings and reservations to a national advisory committee which will direct the survey of historic American buildings to be undertaken by architects.

Four members of the committee of seven were selected by the American Institute of Architects and are Dr. Leicester B. Holland, chief of the fine arts division of the Library of Congress; John Gav Meem, Santa Fe, N. M.; William G. Perry, Boston, and Albert Simons, Charleston, S. C.

The other three members, selected by the director of parks, are Dr. Bolton, Miss Harlean James, executive secretary of the American Civic Association, and Dr. Waldo G. Leland, executive secretary of the American Council of Learned Societies.

STEEL INDUSTRY TO GET WORKS BENEFIT IN 1934

Institute Reviews Allocation of PWA Funds To Recent Date

Some relief to unemployment in the farcated structural steel industry is expected during 1934 from the appropriations already "earmarked" for expenditure by the Public Works Administration, according to a statement issued by V. G. Iden of the American Institute of Steel Construction. From the nature of the allocation of funds so far made something like a half a billion every three months of next year will be going out for construction.

A movement is on foot to have Congress increase the appropriation for public works to \$5,000,000,000 thereby adding at least \$1,700,000,000 to the amounts previously authorized. In order to give a better picture of what is to be done with the money so far allocated, a tabulation of the sums is appended herewith. In addition to the \$2,714,875,179 covered in this tabulation, Secretary Ickes has allotted \$400,000,000 to the Civil Works Administration and probably \$200,000,000 to other projects, thereby "earmarking" practically all of the first appropriation.

If the increased appropriation is made by Congress it seems assured that new public works will be starting next year to a total of at least \$2,000,000,000. This assumption is based upon the expected lag between the time of making the allotment and the actual work on the project which varies from five to six months. Therefore the full effect of this great drive for new construction will be continued in industry for at least the next two years, during which time there should be a revival in private financing of private building projects.

NEWS-RECORD ISSUE ON BOULDER PROJECT

The current issue of "Engineering News-Record" (December 21) is devoted to articles on Boulder Dam construction. The group of contributors includes Dr. Elwood Mead, commissioner of reclamation, R. F. Walter, chief engineer, and Byram W. Steele, designing engineer on dams. Every phase of the project construction is discussed, reviewing progress particularly during the past twelve months.

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Real Property Survey Will Employ 11,000 Under CWA Appropriation

More than 11,000 men and women will be taken from the unemployment rolls throughout the country within the next few days in carrying out the work involved in the real property inventory recently authorized by the Civil Works Administration.

Plans are well under way for this project which must be completed by February 15, according to an announcement by Willard L. Thorp, Director, Bureau of Foreign and Domestic Commerce, who will supervise the work.

The first objective of the plan is to afford work for a large number of unemployed professional and technical men and women embraced in the "white collar" class throughout the country. It is expected that the program now being started will furnish jobs for 11,000 of these workers in more than 60 cities in the country.

In addition to putting to work immediately a large number of persons, there are many sound reasons for the immediate initiation of such a real property inventory on a national scale, in Mr. Thorp's opinion. It will determine clearly the present condition and adequacy of our housing facilities. This in turn will aid in the program of stimulation of the construction industries.

A special organization composed of technical men of wide experience has been organized in Washington to handle the project. The Bureau of the Census is undertaking the organization of the field work, drawing men from the unemployment rolls in the cities in which the inventory is to be conducted.

"The maintenance of balance in employment," said Mr. Thorp, "is the most important problem facing the country today; it is difficult to accomplish this end without detailed information on the many aspects of our economic system.

Business men must be able to act on knowledge as far as possible and not speculate about the steps they are about to take. In the real estate and building fields this is glaringly illustrated in many parts of the country, where there have been periodic phases of over-building, with no definite planning, no information as to whether or not there was a market for the buildings, whether population trends favored, or whether wages and salary totals were sufficient. As a consequence, we have often proceeded to a point far out of balance. This happened in enough communities to affect the entire country, a most important contributing factor to the depression."

Continuing Mr. Thorp stated that the real property inventory will go a long way towards remedying past difficulties, for it will afford actual knowledge of local conditions in detail, before any group of men embark upon a campaign of building or real estate development.

"This will be of equally great importance to the government in en-

deavoring to dispel the depression, he said. The great good to be derived from such a program will be lasting, and it is in line with the policy of the government to plan carefully for the future. It will enable private initiative, guided by real property inventories, to save itself from disastrous errors. The Government is very much interested in pooling of vital information as a safeguard and guide to all businesses, for real property is the largest class of capital investment in the nation."

The schedules covering the complete range of information to be collected in this inventory have been practically completed and will be in the hands of the local enumerators within a few days. This information covers a wide range of subjects dealing primarily with residential property.

Included in the information will be data showing the condition of the property with regard to repairs and improvements, the number of vacant properties of both houses and apartments, the number of families that have doubled up because of the depression, the physical character of the structures, the equipment installed, and information of a similar character.

It will also show the average current rental which can then be compared with census data for 1929. The range of basic facts and figures is wide and is believed essential in establishing for the guidance of the public, the building industry, and the Government, the exact status of the housing situation as it exists in this country today.

Among the cities that so far are included in the real property inventory are the following:

ARIZONA: Phoenix.

CALIFORNIA:

San Diego, Metropolitan Dist.

Sacramento, Metropolitan Dist.

COLORADO: Pueblo.

IDAHO: Boise.

MONTANA: Butte.

NEVADA: Reno.

NEW MEXICO:

Albuquerque.

Santa Fe.

OREGON:

Portland, Metropolitan Dist.

UTAH: Salt Lake City, Metropolitan District.

WASHINGTON:

Seattle, Metropolitan Dist.

WYOMING: Casper.

SENATOR TO SPONSOR HIGHWAY AID BILL

Senator Hayden of Utah, has prepared a bill for introduction at the next Congress providing for continuation of federal aid for state highways in the amount of \$125,000,000 for the years 1934-35. The bill provides that one-half the amount allotted to the states need not be matched by them, and also provides no deduction shall be made for amounts previously advanced to the states.

CODE AUTHORITY TO STANDARDIZE LUMBER MARKING

Association Will Designate Quality Under Uniform Regulations

The Lumber Code Authority, in compliance with the lumber code, is undertaking to bring about the marking of all lumber and timber products in such a way as to indicate the quality grade of each product, designation of the association responsible for the grading, the designation of the manufacturer, the species and dimensions, and condition with respect to dryness. The organized lumber industry has long sought to universalize grade and trade marking of lumber. A provision in the lumber code requires such practice.

The Lumber Code Authority, whose Control Committee is now in session at Portland, Ore., has submitted to its administrative agencies for criticism a "Proposed Plan for the Marking and Certification of Lumber and Timber Products." The Control Committee will consider the plan in the light of the solicited criticisms.

The suggested regulations specify that each piece—or bundle in the case of bundled products—be marked with a symbol or name indicating the standard grade, and including designation of the association under whose published rules the grading is made, the manufacturer's identification mark or number, the species, and the condition of dryness. The rules prescribe the commercial name which may be applied to each botanical species, declare that "no quality mark shall be used indicating any grade which is not described in the published grading rules applying thereto," and enumerate the following four conditions of dryness: kiln dried, air dried, surface or shipping dry, green.

Standard dimensions for softwoods must be in accordance with American Lumber Standards for softwood lumber and timber published by the U. S. Bureau of Standards in the current edition of Simplified Practice Recommendations R-16 or for hardwood lumber published by the Central Committee on Lumber Standards July 1, 1926.

In addition to branding or marking each piece or bundle, every domestic shipment shall be accompanied by a certificate from the originating shipper showing the name or number of the originating mill, name of purchaser, name of carrier and car number or name of boat, number of pieces and board measure (except that piece tally is to be made for material not tallied on stock sizes), the extent of seasoning, and the name of official inspector and of the manufacturers' association whose rules govern.

Factory and shop lumber, both hardwood and softwood, are specifically excepted from the necessity of marking as to species, grade, standard or substandard dimensions, and condition of dryness.

PERMITS AND CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt
897	Hjul	Driscoll	5000
898	California	Mullen	2500
899	Schosser	Krafft	50000
900	Merlelbach	McSheehy	1000
901	Fadoff	Owner	3000
902	Associated	Owner	1800
903	Lari	Star	2000
904	Lari	Star	2000
905	Tjogas	Owner	2500

ALTERATIONS

(897) NO. 1454 MARKET ST. Alter store.
Owner—J. H. Hjul, % 128 Russ St., San Francisco.
Architect—Not Given.
Contractor—T. H. Driscoll, 128 Russ St., San Francisco. \$5000

ALTERATIONS

(898) NO. 231 POST ST. Alter store.
Owner—California Optical Co., 181 Post St., San Francisco.
Architect—Not Given.
Contractor—Mullin Mfg. Co., 60 Rausch St., S. F. \$2500

STORES & OFFICES

(899) N 16th St. 60 W Mission; Class A stores and offices.
Owner—W. F. Schosser, % architect.
Architect and Engineer—J. E. Krafft, Phelan Bldg. \$50,000

REPAIRS

(900) 1961-1669 SUTTER ST.; repair fire damage to hotel.
Owner—Mrs. Elizabeth Merlelbach, 1367 44th Ave.
Architect—Not Given.
Contractor—J. B. McSheehy, 137 Clifford Terrace. \$1000

DWELLING

(901) W DE HARO 391 S Twentieth St. One-story and basement frame dwelling.
Owner—Peter Fadoff, 890 DeHaro St., San Francisco.
Architect—Not Given. \$3000

ALTERATIONS

(902) SE MARKET AND DOLORES Sts. Alter service station.
Owner—Associated Oil Co., 79 New Montgomery St., San Francisco.
Architect—Not Given. \$1800

ALTERATIONS

(903) NE CORTLAND AND GATES. Alter store and flat.
Owner—Ida Lari, 203 Gates St., San Francisco.
Architect—Not Given.
Contractor—Star Concrete Co., 101 France St., San Francisco. \$2000

ALTERATIONS

(904) NE CORTLAND AVE AND GATES St. Alter store and flats.
Owner—Ida Lari, 203 Gates St., San Francisco.
Architect—Not Given.
Contractor—Star Concrete Co., 101 France Ave., San Francisco. \$2000

DWELLING

(905) N JAMESTOWN ST., bet. Jennings and Third Sts. One-story and basement frame dwelling.
Owner—S. Tjogas, 3238 Jennings St., San Francisco.
Architect—Not Given. \$2500

ALAMEDA COUNTY

No.	Owner	Contractor	Amt.
549	MacKenzie	Sexton	4000
550	Holchu	Urch	4900
551	Lyon	Owner	3200

DWELLING

(549) 353 OLIVE ST., PIEDMONT; one-story 5-room dwelling and garage.
Owner—A. MacKenzie, 1441 Franklin St., Oakland.
Architect—Not Given.
Contractor—J. Sexton, 6100 Taft Ave. Oakland. \$4000

DWELLING

(550) NO. 907 GLENDOME CIRCLE, OAKLAND. Two-story 7-room dwelling.
Owner—Miss E. M. Holchu, 4763 El Centro Ave., Oakland.
Architect—Not Given.
Contractor—Ernest W. Urch, 1924 50th Ave., Oakland. \$4900

DWELLING

(551) NO. 18 VETERAN WAY, OAKLAND. Two-story 5-room dwelling and one-story garage.
Owner—C. D. Lyon, 6501 Buena Ventura Ave., Oakland.
Architect—Not Given. \$3200

BUILDING CONTRACTS

SAN FRANCISCO COUNTY

No.	Owner	Contractor	Amt.
195	Stamer	Young	7500
196	Regents	Dehn	672
197	Segalas	Wengard	1494

DWELLING

(195) SE TWENTY-FIFTH AVE & Lincoln Way, being Lot 41-A Blk 1726. All work for one-story and basement frame dwelling.
Owner—Lily S. Stamer.
Architect—Not Given.
Contractor—Young & Horstmeyer, 461 Market St., San Francisco.
Filed Dec. 23, '33. Dated Dec. 16, '33.
Roof and walls enclosed.....\$1875
Brown Coat plaster on interior 1875
Completed and accepted..... 1875
Usual 35 days..... 1875
TOTAL COST, \$7500
Bond, \$——. Surety, American Bonding Co. of Baltimore. Limit, forfeit.

VENETIAN BLINDS

(196) UNIVERSITY OF CALIFORNIA, San Francisco. All work for Venetian blinds for Dental Clinics Areas, Medical Bldg.
Owner The Regents of the University of California, Berkeley.
Architect—W. P. Stephenson, University of California, Berkeley.
Contractor—E. C. Dehn, 921 Hearst Bldg., San Francisco.
Filed Dec. 26, '33. Dated Dec 23, '33.
When completed..... 75%
Usual 35 days..... 25%
TOTAL COST, \$672
Bond, \$350. Surety, Fidelity & Deposit Co. of Maryland. Limit, 45 days. Forfeit, none. Plans and specifications filed.

ALTERATIONS

(197) NE TWENTY-FOURTH AND Chattanooga Sts. All work for alterations to entrance and plastering fronts of building.
Owner—Marie Segalas, 3746 24th St., San Francisco.

Architect—Fabre & Hildebrand, 110 Sutter St., San Francisco.
Contractor—Carl T. Wengard, 546 Sansome St., San Francisco.
Filed Dec. 26, '33. Dated Dec. 15, '33.
2nd coat cement plaster on.....\$300
Work completed..... 620
Usual 35 days..... 374
TOTAL COST, \$1494
Bond, \$747. Sureties, Chas. Monson and Carl D. Langer. Limit, 30 days. Forfeit, none. Plans and specifications filed.

SAN FRANCISCO UNDER \$1000

SIGN, electric, \$50; 22 Montgomery St.; owner, Pot Kettle, Premises; contractor, Elec. Prods. Corp., 255 Golden Gate Ave.
SIGN, electric, \$90; 1307 Hayes St.; owner, Harding Grill, 1307 Hayes St.; contractor, Laib, 7th and Folsom Sts.
SIGN, electric, \$75; 4427 Geary St.; owner, Frank Hesse, 4427 Geary St.; contractor, Wonderlite Neon Sign Co., 170 Otis St.
SIGN, electric, \$150; 651 Clement St.; owner, T. E. Weiman, Premises; contractor, QRS Neon Sign Corp., 690 Potrero Ave.
SIGN, electric, \$200; 706 Stanyan St.; owner, A. Mathews, Premises; contractor, Golden Gate Neon Co., 355 8th St.
SIGN, electric, \$290; 260 West Portal; owner, Jay's Motor Co., 200 West Portal; contractor, Brumfield Elec. Sign Co., 965 Folsom St.
SIGN, electric, \$400; 956 Market St.; owner, Empire Vintage Co., Prem. contractor, Brumfield Elec. Sign Co., 965 Folsom St.
SIGN, electric, \$300; 3200 Geary St.; owner, Meader's French Laundry, Premises; contractor, Q.R.S. Neon Corp., Ltd., 690 Potrero Ave.
SIGN, electric, \$60; 66 Seventh St.; owner, Emporium Co.
SIGN, electric, \$400; 1456 Broadway; owner, A. H. Lamb, Premises; contractor, Golden Gate Neon Sign Co., 355 8th St.
ALTER store, \$150; 432 Clay St.; owner, T. Mihaya, 1417 Laguna St.; contractor, S. Handa, 1773 Post.
SIGN, electric, \$400; 500 San Bruno Ave.; owner, J. Kambic, 500 San Bruno Ave.; contractor, Brumfield, 965 Folsom St.
ALTER dwelling, \$200; 420 Vallejo; owner, O. Sesonolo, 420 Vallejo; contractor, C. Shirappa, 1109 Montgomery St.

ALAMEDA COUNTY UNDER \$1000

ALTERATIONS, \$165; 1919 Cedar St.; owner, G. A. Macomber, Vallejo; contractor, Bay Cities Asbestos Co., 188 10th St., Oakland.
ALTERATIONS, \$150; 908 The Alameda, Berkeley; owner, W. J. Funado, Premises; contractor, R. R. Shepard, 908 The Alameda.
ALTERATIONS, \$100; 809 Murray St., Berkeley; owner, John Ambrose, 801 Folger Ave.
GARAGE, one-story, \$75; 3830 Park Blvd., Oakland; owner, John Gillis 3830 Park Blvd.
SIGN, electric, \$100; 13th and Webster Sts., Oakland; owner, Hotel Menlo; contractor, QRS Neon Corp., 690 Potrero Ave., S. F.
ALTER dwelling, \$150; 2622 12th Ave., Oakland; owner, L. Klinghofer, 2015 Linden St.
FIRE repairs, \$100; 673 38th St., Oakland; owner, Elynore Gilcrest, 6000 Claremont Ave.; contractor, C. Merrill Greenlaw.

BUILDING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

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| 1.—Apartments | Offices |
| 2.—Bonds | 11.—Ice and Cold Storage Plants |
| 3.—Churches | 12.—Power Plants |
| 4.—Factories and Warehouses | 13.—Public Buildings, Fire Houses and Jails |
| 5.—Flats | 14.—Residences |
| 6.—Garages and Service Stations | 15.—Schools |
| 7.—Federal Buildings | 16.—Banks, Stores and |
| 8.—Club Buildings | 17.—Theatres |
| 9.—Hospitals | 18.—Wharves & Docks |
| 10.—Hotels | 19.—Misc. Const. |
| | 20.—Misc. Supplies & Materials |

1— APARTMENTS

To Ask Bids In About One Week.
APARTMENTS Cost, \$25,000
SAN FRANCISCO. NW Montgomery and Alta Streets.
 Three-story and basement frame and stucco apartment building (nine 3-room apartments) composition roof steam heating system, electric refrigeration, hardwood floors, etc.
 Owner—Crown Development Co.
 Architect—M. J. Rist, Phelan Bldg.
 Bids will be asked in about 1 week on revised plans.

3—CHURCHES

Contract Awarded.
SILOS Cost, \$100,000
STOCKTON, San Joaquin Co., Calif.
 Construct ten silos (reinforced concrete construction) 50 ft. in height and 24 ft. in diameter; small packing plant in connection.
 Owner—Santa Cruz Portland Cement Co., Crocker Bldg., San Francisco.
 Plans by Engineering Dept. of Owner.
 Contractor—Dinwiddie Const. Co., Crocker Bldg., San Francisco.

Plans Being Figured.
CHURCH Cost, \$30,000
SAN FRANCISCO. Fourteenth Ave. and Clement St.
 One-story reinforced conc. and steel church (to seat 700) felt, gravel and terra cotta tile roof, some tile work, etc.
 Owner—Congregation Beth-Shalom.
 Architect—F. W. Dakin, 625 Market Street.
 Contractor—Not Selected.

4— FACTORIES & WAREHOUSES

Planned.
BREWERY Cost, \$—
SANTA ROSA, Sonoma Co., Cal Junction of College Ave. and N. W. P. R. R.
 Construct brewery and brew house (100 barrel per day capacity).
 Owner—Sonoma Valley Brewing Corp. (Mr. Hanrahan in charge) 217 Exchange Bank Bldg., Santa Rosa.
 Architect—Not Given.

Roofing Contract Awarded.
MILK PLANT Cost, \$10,000
SAN JOSE, Santa Clara Co., Cal. 401 block east of Empire Street.
 One-story brick mill processing plant (bottling room, cooling room, bottle washing room, etc.)
 Owner—Golden State Co., Ltd., 400 N First St., San Jose.
 Designer—Engineering Dept. of Owner

Mgr. of Const.—E. Perkins, % Owner.
Roofing—California Roofing Co., 72 N 4th St., San Jose.
 Plastering and electrical contracts will be awarded within a few days. Other awards previously reported.

Sub-Contracts Awarded.
SHOP Cost, \$11,000
SAN FRANCISCO. W Russ St. 100 & Howard Street.
 One-story and mezzanine floor Class C shop building.
 Owner—Amalgamated Laundries, 385 Eighth Street.
 Engineer—Ellison and Russell, Pacific Building.
 Contractor—Barrett & Hilp, 918 Harrison Street.
Glass—Crowe Glass Co., 675 Golden Gate Avenue.
Roofing—Malott & Peterson, 20th and Harrison Streets.
Concrete—Bode Gravel Co., 235 Alabama Street.
Stairs—L. S. Peirano, 60 13th St.
Miscellaneous Iron—Star Orna. Iron Co., 1271 Folsom St.
Mill Work—Brannan Street Planing Mill, 560 Brannan St.
Sheet Metal—Morrison & Co., 74 Du-boce Avenue.
Miscellaneous Steel—Fair Mfg. Co. 617 Bryant Street.
 Other awards reported Dec. 13.

Sub-Contracts Awarded.
MFG. PLANT Cost, \$500,000
ELMHURST, Alameda Co., Cal. Jones Avenue.
 Group of 1- 2- and 3-story steel frame and brick buldings for manufacturing plant (tile roof, steel sash).
 Owner—Standard Brands, Inc., 555 Madison Ave., New York City.
 Architect—Bliss and Fairweather, Balboa Bldg., San Francisco.
 Local Engineer—L. H. Nishkian, 252 Market St., San Francisco.
 Engineer—G. J. Patitz, 595 Madison Ave., New York City.
 Contractor—Barrett & Hilp, 918 Harrison St., San Francisco.
Excavation—Ariss-Knapp Co., 961 41st St., Oakland.
Terra Cotta Wall Units—Krafft Co.
Reinf. Steel—Truscon Steel Co., Call Bldg., San Francisco.
Plastering—P. H. Donnelly, 3957 Oakmore Road, Oakland.
Structural Steel—Herrick Iron Works, 18th and Campbell Sts., Oakland.
Brick—White and Gloor, Monadnock Bldg., San Francisco.
Steel Rolling Doors—Acme Partition Co., 3535 Peralta St., Oakland.

Sub-Contracts Awarded.
BREWERY Cost, \$250,000
SAN FRANCISCO. Tenth and Bryant Streets.
 Stock house, bottling house and enlarging present brewery (Class A steel, concrete and brick construction).
 Owner—Milwaukee Brewing Co., 490 Tenth St., San Francisco.
 Engineer—W. E. Murray, 908 Hayes St., San Francisco.
 Contractor—Cahill Bros., 206 Sansome St., San Francisco.
Reinforcing Steel—Soule Steel Co., 1750 Army St., San Francisco.
Lumber—McCallum Lumber Co., 718 Bryant St., San Francisco.

As previously reported, structural steel contract awarded to Herrick Iron Works, 18th and Campbell Sts., Oakland.

COCO SOLO, Canal Zone—Following have procured plans for the purpose of submitting bids to the Bureau

of Yards and Docks, Navy Department, Washington, D. C., on January 17, for the construction of steel hangars at Coco Solo, Spec. No. 7351.
 Crane Co., 1225 I St., N. W., Washington, D. C.
 H. B. Nelson Constr. Co., Red Rock Bldg., Atlanta, Ga.

SAN FRANCISCO—K. E. Parker Co., 135 South Park, at \$104,630 awarded contract by Constructing Quartermaster, Fort Mason, for the construction of a two-story steel and concrete shed and utilities (concrete walls, steel floor and roof) at Pier No. 1, Fort Mason, San Francisco. Complete bids published December 15.

5— FLATS

Sub-Contracts Awarded.
ALTERATIONS Cost, \$2982
SAN FRANCISCO. No. 1160-62 Filbert Street.
 Alterations to two-story frame flats. Owner — Grace Goodyear, 2164 Hyde St., San Francisco.
 Architect—Henry H. Gutterson, 526 Powell St., San Francisco.
 Contractor—Clinton Stephenson Construction Co., Ltd., 559 Montgomery St., San Francisco.
Concrete—Readymix Concrete Co., Carolina and Mariposa Sts.
Plumbing—W. E. Trousdale, 422 Turk St., San Francisco.
Electric—Aptos Electric Constr. Co., 1104 Mission St., San Francisco.
Mill Work—Balboa Mill & Lumber Co., 100 Havelock St., San Francisco.
Lumber—Roth Maier, 2800 Third St.
Ornamental Iron—Industrial Ornamental Iron Works, 552 Noe St.

Preparing Working Drawings.
FLATS Cost, \$—
SAN FRANCISCO. Marina District.
 Two-story and basement frame and stucco flats (2 5-room flats and 2 baths); tile and composition roof, steam heating system, hardwood floors, etc.
 Owner—Withheld.
 Architect—R. R. Irvine, 2048 Market St., San Francisco.

6—GARAGES & SERVICE STATIONS

Contract Awarded.
SERVICE STATION Cost, \$6000
OAKLAND, Alameda Co., Calif. 3631 Piedmont Avenue.
 One-story steel super service station.
 Owner—Union Oil Company.
 Architect—Not Given.
 Contractor—Independent Iron Works, 821 Pine Street.

7—FEDERAL BUILDING

MARE ISLAND, Cal.—C. N. Swenson Co., 355 Stockton Ave., San Jose, awarded following sub-contracts for the construction of eight smokeless powder magazines and relocation of quarters A-51 at the Ammunition Depot, Navy Yard, Mare Island, Specification No. 7342:
Excavation—Willard & Blasotti, 40 W Clay St., Stockton.
Sheet Metal—Edgar W. Anderson, 3103 San Pablo Ave., Oakland.
Reinforcing Steel—Gunn, Carle & Co., 20 Potrero Ave., San Francisco.
Structural Steel—Judson Pacific Co., 609 Mission St., San Francisco.
Glass—W. P. Fuller & Co., 301 Mission St., San Francisco.

HAMILTON FIELD, Marin Co., Cal.—Until January 16, 11 A. M. (date postponed from Jan. 3) bids will be received by the Constructing Quartermaster, Hamilton Field, for the construction of Bachelor Officers' quarters at Hamilton Field. Plans and specifications available from the above office upon deposit of \$10. Copy of the plans may be seen at the Builders' Exchange, 666 Mission St., San Francisco, and at the office of the Constructing Quartermaster, Fort Mason, San Francisco.

SAN FRANCISCO—Moe Bridges Co. Milwaukee, Wis., at \$3,036 awarded contract by Treasury Department for furnishing and installing interior fixtures at the U. S. post office and court house in San Francisco.

Sub-Contracts Awarded.
FEDERAL BLDG. Cost, \$2,513,000
SAN FRANCISCO. Civic Center.

Five-story, attic and basement reinforced concrete Federal Building (face brick exterior facing, steam heating system, etc.)

Owner—United States Government.
Architect—Arthur Brown Jr., 251 Kearny St., San Francisco.

Contractor—Great Lakes Constr. Co., 333 N. Michigan Ave., Chicago.
Structural Steel—McClintic-Marshall Corp., 20th and Illinois Sts., San Francisco.

Reinforcing Steel—Truscon Steel Co., Call Bldg., San Francisco.

Rolling Reinforcing Steel—Judson-Pacific Co., 609 Mission St., San Francisco.

Cement—Santa Cruz Portland Cement Co., Crocker Bldg., San Francisco.

FORT LEWIS, Wash.—Until Jan. 8, 11 A. M., bids will be received by Constructing Quartermaster, Fort Lewis, for the construction of stables and gun sheds for 155 mm. guns, including the utilities at Fort Lewis, Wash. Plans and specifications available from above office upon deposit of \$15.00 for the gun sheds and \$15 for the stables.

ALBROOK FIELD, Canal Zone.—Until January 30 bids will be received by Army Department, Construction Division, Washington, D. C., for construction of a gasoline fueling system at Albroom Field. Estimated cost, \$61-675.00.

PEARL HARBOR, T. H.—Following have procured plans for the purpose of submitting bids to the Bureau of Yards and Docks, Navy Department, Washington, D. C., on February 8 for construction of quarters at Pearl Harbor; Spec. No. 7526:

E. F. Guth, 2615 Washington Blvd., St. Louis.

General Electric Co., Schenectady, New York.

W. P. Thurston Co., Richmond, Va.
Westinghouse Electric & Mfg. Co., Washington, D. C.

HAMILTON FIELD, Marin Co., Cal.—William Spivock, Hobart Bldg., San Francisco, low bidder on the construction of five double sets of non-commissioned officers' quarters at Hamilton Field, announced that he will award the following sub-contracts, contingent upon award of general contract, expected shortly:

Concrete—Basalt Rock Co., 900 Eighth St., Napa.

Masonry—Kroll Co., Oakland.

Dampproofing and Roofing—Alta Roofing Co., 976 Indiana St., San Francisco.

Steel Sash & Screens—Michel & Pfeiffer Iron Works, Inc., 10th and Harrison Sts., San Francisco.

Kalamein—Edgar W. Anderson Co., 3103 San Pablo Ave., Oakland.

Millwork—Davis Hardwood Co., 359

Bay St., San Francisco.
Plastering—John Shimmom & Co., 26 Fairfield Way, San Francisco.
Miscellaneous Iron—Kortick Mfg. Co., 335 First St., San Francisco.
Bronze Work—Braun-Steeple Co., Ltd., 636 Potrero Ave., San Francisco.
Medicine Cabinets—M. E. Hammond Co. (Chas. Christensen Co.) 557 Market St., San Francisco.
Reinforcing Steel—Gunn, Carle & Co., 20 Potrero Ave., San Francisco.
Sheet Metal—Edgar W. Anderson Co., 3103 San Pablo Ave., Oakland.
Stairs—Atlas Stair Bldg. Co., San Francisco.

Hardwood Floors—Ideal Floor Co.
Insulation—McCormick Supply Co., 461 Market St., San Francisco.

Hardware—Sargent and Co. (Marshall Newell) Spear and Mission Streets, San Francisco.

Painting—D. Zelinsky & Son, 165 Grove St., San Francisco.

Glass—W. P. Fuller & Co., 301 Mission St., San Francisco.

Plumbing—Scott Co., 243 Minna St., San Francisco.

Heating—Frank Edwards, 2401 Ninth St., Oakland.

Cast Stone—Henry Gregoire, 355 12th St., San Francisco.

LONGVIEW, Wash.—Interior Steel Equipment Co. at \$140.50 awarded contract by Supply Department, Washington, D. C., for metal shelving in the Longview Post Office.

SAN FRANCISCO—Following bids received by Treasury Supply Division, Washington, D. C., for metal shelving for San Francisco Post Office Building:

Jamestown Metal Equip. Co.	\$31.88
Penn Metal Co.	50.39
Metal Office Furniture Co.	55.52
Lyon Metal Products Co.	58.34
General Fireproofing Co.	58.82
Interior Steel Co.	59.91
Electric Service Supply Co.	62.14
Worley & Co.	85.15

Bids under advisement.

OREGON CITY, Oregon—Following bids received by Treasury Supply Division, Washington, D. C., for metal shelving in the Oregon City Federal Building:

Jamestown Metal Equip. Co.	\$132.61
Lyon Metal Products Co.	257.79
Metal Office Furniture Co.	257.69
Interior Steel Equip. Co.	258.50
Penn Metal Co.	268.84
Electric Service Supply Co.	269.02
Worley & Co.	349.05

9— HOSPITALS

MADERA, Madera Co., Calif.—Madera county voted bonds in amount of \$70,000 to finance construction of a new county hospital and almshouse in Madera.

SAN DIEGO, Calif.—San Diego defeated a proposal at the December 19 election to vote bonds in the sum of \$250,000 for constructing county warehouse; also a proposal to vote bonds in the sum of \$400,000 for constructing a tuberculosis hospital.

CAMARILLO, Ventura Co., Calif.—Louis A. Geisler, 6212 Middleton St., Huntington Park, reports subcontracts for the erection of Units 2, 3 and 4, State Hospital, Camarillo, awarded as follows: Cement to Blue Diamond Co.; ornamental iron to Abbey Ornamental Iron Co.; lumber to Ventura Lumber Co.; roofing to Pasadena Roof Co.; rock and sand to Santa Clara Sand & Gravel Co. Plans for the buildings were prepared by State Architect Geo. H. McDougall, Sacramento.

SAN FRANCISCO—Regents of the University of California awarded con-

tract to E. C. Dehn, Hearst Bldg., at \$672 for furnishing venetian blinds for the dental clinic areas in the Medical Bldg., First Ave. and Parnassus.

WILLOWS, Glenn Co., Cal.—Glenn County doctors will discuss the advisability of a new \$60,000 county hospital early in January and will make a report to the County Board of Supervisors. If project is approved it will be submitted to the people in August as a bond issue.

12— POWER PLANTS

INYO AND MONO COUNTIES, Cal.—The Railroad Commission has authorized the Southern Sierras Power Co. to sell to the City of Los Angeles and the Los Angeles Water and Power Department properties in Inyo and Mono counties, including lands, water rights and two electric generating plants, including a transmission and telephone line. Purchase price is \$2,024,967.75. Cost of properties to seller, \$1,646,373.10.

WEAVERVILLE, Trinity Co., Cal.—A proposition to form a public utility district in Weaverville was carried by a vote of 150 to 56 at a special election held in Weaverville Dec. 21. Another election will be held shortly to name officers of the district. It is proposed to purchase the properties of the Weaverville Electric Co. at an estimated cost of not more than \$30,000.

13— PUBLIC BUILDINGS FIRE HOUSES & JAILS

SANTA ANA, Orange Co., Cal.—Santa Ana affirmed a \$70,000 bond issue on December 19, proceeds to be used for financing construction of a new city hall in Santa Ana. The ballot carried a provision that the bonds will not be sold unless the Federal government guarantees to grant \$30,000 on the project. W. Horace Austin and H. C. Wildman, Spurgin Bldg., Santa Ana, architects.

LOS ANGELES, Cal.—Architect G. B. Kaufmann, 610 Union Bank Bldg., and Architect Edwin Bergstrom, 1136 Citizens' National Bank Bldg., were appointed by Los Angeles county supervisors as supervising architects for all county buildings erected with funds received from the government under the CWA or PWA programs. Architects to design the various buildings proposed under these programs will probably be appointed by the board at the December 26 meeting.

SAN LUIS OBISPO, Cal.—San Luis Obispo County voters defeated a \$237,000 bond issue on December 19, proceeds from which were to have been used for financing the construction of a new county courthouse, tuberculosis hospital and Veterans' Memorial building. A. R. Walker and P. A. Eisen, 708 Pacific Commerce Bldg., Los Angeles, architects.

FRESNO, Fresno Co., Cal.—Fresno city voters defeated bond election December 19. Funds in the amount of \$77,500 were to have financed construction of a new fire engine house.

SIGNAL HILL, Los Angeles Co., Cal.—McClintic Marshall Co., 11,100 S. Central Ave., Los Angeles, submitted low bid to Signal Hill City Council at \$100 per ton, for furnishing and erecting 110 tons of structural steel for the new city hall at Hill St. and Cherr Ave., Signal Hill. The bids, which were taken under advisement are:

McClintic Marshall Co., (1) \$100 per ton for furnishing, fabricating and erecting 110 tons steel; (2) \$82 per ton

for furnishing, fabricating and delivering steel on the site.

Consolidated Steel Corp., Ltd., (1) \$101; (2) \$84.50.

Minneapolis Moline Power Implement Co., (1) \$116; (2) \$99.50.

Kyle Steel Construction Co., (1) \$116 (2) \$95.

Pennsylvania Iron & Steel Co., (1) \$130; (2) \$100.

LOS ANGELES, Cal.—Pacific Crane & Rigging Co., 6800 S Alameda Street, submitted the low bid to Los Angeles supervisors at (A) \$58,850; (B) \$59,000 for demolition of old County Court House at Broadway and Temple St. Bids as follows:

(A) lump sum bid for the dismantling and removal work complete, the salvageable steel and cast iron to be stacked on court house lot.

(B) lump sum bid for the dismantling and removal work complete, the salvageable steel and cast iron to be transported to county shops, unloaded and stacked.

Cleveland Wrecking Co. submitted the only other bid at (A) \$82,300; (B) \$83,200. Low bids held under advisement.

Plans Completed.

MEMORIAL Cost, \$8000
SACRAMENTO, Cal. South Side Park. Seventh and T Streets.

One - story reinforced concrete memorial (combination bandstand & outdoor theatre, stage 60x40).

Owner—South Side Improvement Club. Architect—Harry Devine, California State Life Bldg., Sacramento.

An application will be filed with the CWA for an appropriation to cover cost of labor in building and the balance to be raised by subscriptions. Building will be constructed in honor of the late Robert E. Callahan, veteran member of the county board of supervisors.

RENO, Nevada — Washoe County Board of Commissioners filed application for a \$235,000 federal loan to help finance construction of alterations and additions to the Courthouse and reconstruction of the county jail. Courthouse improvements is estimated at \$150,000 and jail work will cost \$85,000. Further details will be announced at a later date.

Application Filed.

HALL OF RECORDS Cost, \$400,000
FRESNO, Fresno Co., Cal. Van Ness Ave. and Tulare St.

Three-story Class A steel frame and concrete Hall of Records; concrete floors and walls, etc.

Owner—County of Fresno. Architect — W. D. Coates, C. H. Franklin, H. Rafael Lake, E. J. Kump and E. W. Petersen, Fresno

Fresno County Supervisors filed an application for a grant of \$120,000 to be used with the bond issue fund of \$280,000, to finance construction of the proposed building.

14— RESIDENCES

To Ask Bids About January 2.

REMODEL RESIDENCE Cost, \$2500
SAN FRANCISCO. Sixteenth Avenue and Lake Street.

Remodel residence (two-story frame and stucco structure) work involves: new entrance, brick steps, wrought iron railing, new kitchen equipment, new plumbing fixtures, add one new bath room, linoleum and canvas in baths, complete painting and decorating, warm air gas heating system, living room to be done in pine.

Owner—Sheldon Potter. Architect—Mario Corbett, 683 Sutter St., San Francisco.

Sub-Contracts Awarded.

ALTER RESIDENCE Cost, \$4000
SAN FRANCISCO. No. 1 Francisco Way.

Alterations to residence (millwork, plumbing, wall refinishing, painting, fixtures and flooring).

Owner—M. C. Morgensen, Premises. Architect—Hugh C. White, 915 Hillcroft Circle, Oakland.

Contractor—Larsen & Larsen, 629 Bryant St., San Francisco.

Millwork—Lannom Bros. Mfg. Co., 5th and Magnolia Sts., Oakland.

Painting—Rafael Co., 270 Tehama St., San Francisco.

Plumbing—J. O'Mara, 2720 McAllister St., San Francisco.

Fixtures — Incandescent Supply Co., 726 Mission St., San Francisco.

Additional Sub-Contracts Awarded.

RESIDENCE Cost, \$8500
PIEDMONT, Alameda Co., Cal. Piedmont Pines.

Two - story and basement frame and stucco residence.

Owner—Wm. H. Green, 1242 Trestle Glen Road, Oakland.

Designer—F. L. Confer, 2812 Russell St., Berkeley.

Contractor—F. W. Confer, 2800 Shasta Road, Berkeley.

Painting—Joseph O'Neill.

Screens—Bates-Carpenter & Co., 557 Market St., San Francisco.

Glazing—W. P. Fuller & Co., 259 10th St., Oakland.

Contract Awarded.

RESIDENCE Cost, \$5,113
BURLINGAME, San Mateo Co., Calif. Carter Street.

One - story and basement frame and stucco residence.

Owner—D. Petroni.

Architect—Not Given.

Contractor—A. Zangrandt, 725 Grand Ave., South San Francisco.

Plans Being Completed.

RESIDENCE Cost, \$—
SANTA CRUZ, Santa Cruz Co., Calif. Two-story and basement frame, brick veneer, stucco residence (8 rooms and 3 baths) split shake roof, gas hot air heating system, steel sash, hardwood floors, etc.

Owner—Dr. and Mrs. S. B. Randall, % architect.

Architect—W. W. Wurster, 260 California St., San Francisco.

Bids will be asked shortly.

Preparing Working Drawings.

RESIDENCE Cost, \$30,000
BEVERLY HILLS, Los Angeles Co., Calif.

Two - story and basement frame and brick veneer residence (12 rooms and 5 baths) unit gas heating system, hardwood floors and trim, tiled baths, etc.

Owner—Mrs. Floyd Bekins.

Architect—F. Eugene Barton, Crocker Bldg., San Francisco.

Plans Being Figured.

RESIDENCE Cost, \$6000
BERKELEY, Alameda Co., Cal. North Cragmont.

Two - story and basement frame and stucco residence.

Owner—R. V. Winquist, 2445 Virginia St., Berkeley.

Architect—W. E. Schirmer, Financial Center Bldg., Oakland.

Bids will be asked shortly.

Bids Rejected.

RESIDENCE Cost, \$—
ROSS, Marin County, Calif.

One - story and basement frame residence (six rooms and two baths) rustic type, redwood exterior, wood sash, gas hot air heating system, tiled baths, etc.

Owner—Mr. and Mrs. G. J. Seebe, % architect.

Architect—W. W. Wurster, 260 California St., San Francisco.

Bids have all been rejected and construction postponed until spring.

Sub-Contracts Awarded.

RESIDENCE Cost, \$5000
OAKLAND, Alameda Co., Cal. No. 4123 Oakmore Road.

One-story and basement frame and stucco residence (6 rooms).

Owner—F. P. Hesslering, 316 17th St., Oakland.

Architect—Not Given.

Contractor—Leo J. Dolan, 316 17th St., Oakland.

Lumber—Bay City Lumber Co., 48th Ave. and E-12th St., Oakland.

Roofing—Camisa Bros., 1217 Central Ave., Alameda.

Electric—Diamond Electric Co., Oakland.

Tile—Richard Orcutt, 902 E-24th St., Oakland.

Plastering—Walter Nelson.

Brick—Paul Breittkopf, 2145 E-23rd St., Oakland.

Furnace—Atlas Heating & Ventilating Co., 1451 32nd St., Oakland.

Flooring—Ability Hardwood Floor Co., 1807 40th Ave., Oakland.

Painting—Earl Gustad, Oakland.

Preparing Preliminary Plans.

RESIDENCES \$3000 to \$5000
PENINSULA, San Mateo Co., Cal.

Group of modern residences.

Owner—Withheld.

Architect—Douglas Stone, 110 Sutter St., San Francisco.

Contract Awarded.

RESIDENCE Cost, \$—
BERKELEY, Alameda Co., Cal. Wellesley Ave. near Arlington.

One-story frame and stucco residence (4 rooms); shingle roof, steel sash, hot air heating system, hardwood floors, etc.

Owner—Not Given.

Architect—F. W. Confer, 2812 Russell St., Berkeley.

Contractor—F. W. Confer, 2800 Shasta Ave., Berkeley.

Construction To Start In One Week.

RESIDENCE Cost, \$5500
PIEDMONT, Alameda Co., Cal. Piedmont Pines.

One-story and basement frame and stucco residence (five rooms); tile roof, gas heating system, tiled bath, hardwood floors and trim, etc.

Owner and Builder—Paul Haller, 1825 Curtis St., Berkeley.

Architect—F. W. Confer, 2812 Russell St., Berkeley.

To Be Done By Day's Work.

RESIDENCE Cost, \$4000
OAKLAND, Alameda Co., Calif. 18 Veteran Way.

Two-story frame and stucco residence (five rooms).

Owner—C. D. Lyon, 6501 Buena Ventura Ave., Oakland.

Architect—Not Given.

Contract Awarded.

RESIDENCE Cost, \$4,000
PIEDMONT, Alameda Co., Calif. 353 Olive Street.

One - story and basement frame and stucco residence (5 rooms).

Owner—A. Mackenzie, 1441 Franklin St., Oakland.

Architect—Not Given.

Contractor—J. Sexton, 6100 Taft Ave., Oakland. 14

Sub-Contracts Awarded.

RESIDENCE Cost, \$4500
OAKLAND, Alameda Co., Cal. Idora Park Tract.

One-story frame and stucco residence (5 rooms and sleeping porch) tile roof, gas heating system, hardwood floors, etc.

Owner—Harry Stone, 1072 61st Street, Oakland.
 Plans by W. W. Dixon, 1914 5th Ave., Oakland.
 Contractor—Leo J. Dolan, 770 Wesley Ave., Oakland.
 Millwork—Pacific Mfg. Co., 1315 7th St., Oakland.
 Plumbing—Minoggio Bros., 2316 Telegraph Ave., Oakland.
 Brick—Paul Bretkopf, 2145 E-23rd St., Oakland.
 Electric—Dimond Electric Co., 2100 Hopkins St., Oakland.

FRESNO, Cal.—Taylor & Wheeler, Fresno, at \$4750 submitted low bid to Department of Agriculture, Washington, D. C., to construct residence in Fresno. Following bids received:

Taylor & Wheeler, Fresno.....	\$4750
W. T. Harris, Fresno.....	4934
Jolly & Harrington, Fresno.....	5443
Fisher & McNulty, Fresno.....	5682
Pacific Home Systems, L. A.....	5824
J. D. Shorb, Fresno.....	5899
Paul Bourzac, Fresno.....	6326

Bids held under advisement.

Contract Awarded.
 RESIDENCE Cost, \$5000
 OAKLAND, Alameda Co., Calif. 907 Glendome Circle.
 Two-story frame and stucco residence (7 rooms).
 Owner—Miss E. M. Holchu, 4763 El Architect—Not Given.
 Centro Ave., Oakland.
 Contractor—Ernest W. Urch, 1924 50th Ave., Oakland.

15—SCHOOLS

PASADENA, Los Angeles Co., Cal.—The Pasadena Board of Education applied to the Public Works Administration for a loan of \$60,000 to strengthen the Lincoln elementary school in Pasadena, Parker O. Wright, architect.

LONG BEACH, Los Angeles Co., Cal.—Long Beach Board of Education applied to Public Works Administration for loans and grants in the following amounts: James Russell Lowell School, loan and grant of \$31,860, E. L. Mayberry, Architect; Naples School, loan of \$10,162 and grant of \$2154, W. L. Hawk, Architect; Horace Mann School, loan of \$113,438 and grant of \$28,403, W. L. Hawk, architect.

COALINGA, Fresno Co., Cal.—Coalinga School District affirmed a \$150,000 bond issue on December 19, proceeds to be used for financing the construction of a new senior high school building, swimming pool and tennis courts in Coalinga. W. D. Coates Jr., Rowell Bldg., Fresno, architect.

HAYWARD, Alameda Co., Calif.—Hayward Union High School buildings will be surveyed for earthquake weakness. N. P. Nielsen, president of the board of trustees, Henry Smith, Humboldt Bank Bldg., San Francisco, architect.

PASAENA, Cal.—Pasadena board of education has authorized S. A. Cook, superintendent of buildings & grounds to negotiate with the Civil Works Administration for a grant of \$46,500 to be used in demolishing the Pasadena Junior college auditorium.

ANAHEIM, Orange Co., Cal.—Anaheim Union High School District defeated a \$275,000 bond issue on December 18, proceeds from which were to have been used for repairing and replacing high school buildings in Anaheim. School board members are considering a plan to submit a new bond issue of \$125,000, omitting the

new auditorium project which was included in the original plan. In addition to the auditorium it had been planned to spend \$43,772 for work on the administration building, \$30,635 for the shop and gymnasium and \$35,000 on the old auditorium to be used for classrooms. T. C. Kistner & Co., 814 Architects' Bldg., Los Angeles, architects.

RIVERSIDE, Cal.—Riverside City School District applied to the Public Works Administration for a grant of \$13,500 to be used in financing construction of a new school building on site of old Grant School in Riverside. Cost, \$45,000. G. Stanley Wilson, Riverside, architect.

SAN DIMAS, Los Angeles Co., Cal.—San Dimas Elementary School District applied to the Public Works Administration for a loan of \$31,000 to finance the construction of an auditorium, cafeteria and restroom building at the San Dimas School, Mars-ton & Maybury, Pasadena, architects.

SAN FRANCISCO.—Empire Roofing Co., 261 Silver Ave., at \$1,594 awarded contract by Department of Public Works for composition roofing on the west wing of the Mission High School, 18th and Church Sts. Complete bids published December 21.

BEVERLY HILLS, Los Angeles Co., Cal.—J. & B. Const. Co., 5572½ Valley Blvd., Los Angeles, awarded general contract by Beverly Hills school district at \$24,816 for strengthening and rebuilding the Beverly Vista administration building, located at 200 S Elm Drive, Beverly Hills. The plans were prepared by Engineers Holmes & Narver, 1400 Los Angeles Stock Exchange Bldg., Los Angeles. Work will consist of building a reinforced concrete wall inside the building, which is of brick construction.

LOS ANGELES, Cal.—The Los Angeles board of education has been allotted an additional \$100,000 of R.F.C. funds to be used in repairing earthquake damage to Los Angeles city schools. This makes a total of \$1,100,000 that has been allotted to the Los Angeles district.

Plans Being Figured.
 SCHOOL Cost, \$120,000
 BAKERSFIELD, Kern Co., Cal. F. St., bet. 31st and California Sts.
 Two-story high school building (21 classrooms) Class A steel frame and reinforced concrete constr.
 Owner—Kern County Union High School District.
 Architect—Charles H. Biggar, Habersfelde Bldg., Bakersfield.

Preliminary Plans Completed.
 SCHOOL Cost, \$30,000
 PORTOLA, Plumas Co., Cal.
 One-story frame and stucco grammar school (five classrooms and recreation room).
 Owner—Portola Grammar School District.

Architect—Harry Devine, California State Life Bldg., Sacramento.
 Bonds in the amount of \$19,000 were voted at an election on Dec. 20 to help finance construction; \$7,000 is available from the school district and federal aid will be asked.

SAN MATEO, San Mateo Co., Cal.—Harold Hammill, 381 Bust Street, San Francisco, commissioned to prepare sketches for improvements at the Burlingame and San Mateo Junior College, etc. Approximately \$120,000 will be expended. Type of work to be done will be announced shortly.

Steel Bids Wanted—To Close Jan. 9, 2 P. M.

SCHOOL Cost, \$25,000
 RICHMOND, Contra Costa Co., Calif.
 Rebuilding & reinforcement of Roosevelt Junior High School (work involves steel girders, new entrances concrete stairways, etc.)

Owner—Richmond Union High School District.
 Architect—Louis Stone, 98 Ramona St. Piedmont and 354 Hobart St., Oakland.

Inspector—E. J. Freethy, 1301 Roosevelt Ave., Richmond.
 Plans and specifications available from Architect Louis Stone, Room 201, Builders' Exchange, 354 Hobart St., Oakland, upon deposit of \$20.00.

Construction Started.
 GYMNASIUM Cost, \$15,000
 WEAVERVILLE, Trinity Co., Calif.
 One-story frame gymnasium (52x112) steel trusses, composition roof, maple floors, stage, showers, etc.
 Owner—Trinity Union High School District.

Architect—Jens C. Petersen, 826 26th St., Sacramento.
 Work has been started under CWA. Materials will be purchaser locally.

Work Under Way.
 ALTERATIONS, ETC. Cost, \$—
 PALO ALTO, Santa Clara Co., Cal. No. 50 Embarcadero Road.
 Alterations and additions to high school shop.
 Owner—Palo Alto High School Dist. Architect—Not Given.
 Work is being done under CWA.

SANTA MONICA, Los Angeles Co., Cal.—Public Works Administration allotted \$3,000 to the Santa Monica High School District to aid in the reconstruction and strengthening of the girls' gymnasium building in Santa Monica.

Plans Being Figured—Bids Close Jan. 2, 7:30 P. M.
 SCHOOL Cost, \$150,000
 VANCOUVER, Washington.
 Four-story reinforced concrete and brick school building, 150x150 feet (15 classrooms, auditorium, 90x100 feet, gymnasium, cafeteria, laboratories, etc.)

Owner—Vancouver High School Dist. Architect—W. F. Higgins, Terminal Sales Bldg., & Donald J. Stewart of Seattle.
 Plans and specifications obtainable from architects or from the administration offices of the Vancouver School Board.

16—BANKS, STORES AND OFFICES

OAKLAND, Alameda Co., Cal.—The Weber Showcase & Fixture Co., Inc., 1101 Broadway, Oakland (Holliday 9228) is taking bids for the owner for alterations to store building at 13th and Broadway, Oakland, for the Marvel Drug Company, George A. Nichols, Proprietor. Bids will be received on marble work, plastering, painting, cement work, electric wiring plumbing, sheet metal, lumber, mill work, hardware, linoleum, awnings, etc.

SAN DIEGO, Calif.—San Diego defeated a \$1,000,000 bond issue on Dec. 19, proceeds of which were to have been used for financing the construction of a new city-county office bldg. in San Diego. Charles Quayle, 601 Spreckles Bldg., San Diego, architect.

Excavation Started.
 STORE Cost, \$15,000
 VALLEJO, Solano Co., Calif. Sonoma Street near Georgia Street.
 Two-story brick, terra cotta and cement store with steel columns and

beams (five stores) tar and gravel and part hand-made tile roof.
 Owner—Thomas B. Jones, Vallejo.
 Architect—F. H. Slocombe, 3830 Harrison St., Berkeley.
 Excavation is now under way by the owner. Work will be done on a segregated bid basis. Bids are in and will be awarded shortly.

Contract Awarded.
STORE & RESIDENCE Cost, \$3000
 SAN FRANCISCO. SW Russia and Munich Streets.
 One-story frame store and residence.
 Owner—G. Ghiradini, 419 Brussels St. son Street.
 Architect—Not Given.
 Contractor—J. F. Johnson, 375 Wood-

Contract Awarded.
ALTERATIONS Cost, \$5000
 SAN FRANCISCO. No. 1454 Market Street.
 Alterations to store building.
 Owner—J. H. Hjul, 122 Russ St., San Francisco.
 Engineer—J. H. Hjul, 128 Russ St., San Francisco.
 Contractor—T. H. Driscoll, 128 Russ St., San Francisco.

Contract Awarded.
ALTER STORE Cost, \$3000
 SAN FRANCISCO. 231 Post Street.
 Alterations to store building.
 Owner—California Optical Co., 181 Post Street.
 Architect—Not Given.
 Contractor—Mullen Mfg. Co. 60 Rausch Street.

Contract Awarded.
STORE Cost, \$13,500
 SAN JOSE, Santa Clara Co., Calif. Santa Clara St. bet. 12th and 13th.
 One-story reinf. concrete store bldg. (50x100 feet) concrete floors, ten-year guaranteed built-up roof.
 Owner—Safeway Stores.
 Architect—Chas. McKenzie, T w o h y Bldg., San Jose.
 Contractor—John Lannin, San Jose.

Sub-Contracts Awarded.
STORE Cost, \$18,000
 SAN MATEO, San Mateo Co., Calif. Third Avenue.
 One-story reinf. concrete store bldg. (two stores) tile and composition roof, wood floors, gas steam heating system, etc.
 Owner—Martin Stelling, 155 Montgomery St., San Francisco.
 Architect—Earl Bertiz, Monadnock Bldg., San Francisco.
 Contractor—Barrett & Hilp, 918 Harrison St., San Francisco.
Sheet Metal—Guilfoy Cornice Works, 1234 Howard St., San Francisco.
Mill Work—J. A. Hart Mill & Lumber Co., Jerrold and Napoleon Streets, San Francisco.

Electric—R. G. Linville, Burlingame.
Roofing—Malott & Peterson, 20th and Harrison Sts., San Francisco.
Plumbing—H. I. Lander, San Mateo.
Steel Sash—Michel and Pfeffer Iron Works, Harrison and Tenth Sts., San Francisco.

Permit Applied For.
STORES & OFFICES Cost, \$—
 SAN FRANCISCO. Sixteenth St. bet. Mission and Valencia Sts.
 Two-story, basement and mezzanine floor Class A steel frame and reinforced concrete stores and offices (2 stores, 14 offices) asphalt and gravel room, steam heating system, ventilating, electrical work, wood and tile floors, etc.
 Owner—William F. Schosser.
 Architect and Engineers—J. E. Krafft & Sons, Phelan Bldg.

PASADENA, Cal.—S. Mitchell, 370 S Los Robles Ave., Pasadena, has the contract and Architect Mark Ellsworth 2575 N Raymond Ave., Pasadena, preparing plans for a one-story professional building to be built at the corner of Walnut Ave. and El Molino St., Pasadena, for E. E. Betts and associates. Construction will probably be reinforced concrete, linoleum covered floors, mahogany trim, air conditioning, etc. Est. cost, \$40,000.

Contract Awarded.
ALTERATIONS Cost, \$1494
 SAN FRANCISCO. NE 24th and Chattanooga Streets.
 Owner—Marie Segalas, 3746 24th St.
 Architect—Fabre and Hildebrand, 110 Sutter Street.
 Contractor—Carl T. Wengard, 546 Sansome Street.

Planned.
STRENGTHEN WALLS Cost, \$—
 SAN FRANCISCO. No. 1028 Market Street.
 Structural changes to parapet walls of building.
 Owner—Not Given.
 Consulting Engineers—Ellison & Russell, Pacific Bldg., San Francisco.
 Mgr. of Constr.—Frederick Whitton, 369 Pine St., San Francisco.

Planned.
REMODEL CAFE Cost, \$—
 MORGAN HILL, Santa Clara Co., Calif. Monterey Street.
 Remodel for cafe and restaurant painting, decorating, linoleum, etc.
 Owner—Joseph Sparacino, Morgan Hill.
 Architect—Not Given.

Contract Awarded.
ALTER STORE Cost, \$—
 OAKLAND, Alameda Co., Cal. 13th St. and Broadway.
 Alterations to store building (new fixtures, cabinet work, tile, marble,

plastering, painting, etc.
 Owner—Marvel Drug Co. (Mr. Nichol, in charge).
 Architect—Not Given.
 Contractor—Weber Showcase & Fixture Co., 988 Mission St., San Francisco.

Prospective Bidders.
STORE Cost, \$—
 SAN JOSE, Santa Clara Co., Cal. No. 160-164 S-First Street.
 One-story and basement fire proof store building (51x275 feet); concrete and steel construction.
 Owner—Montgomery Ward & Co., Oakland.
 Plans by Engr. Dept. of Owner.
 Following have secured plans. Bids open January 8, 12 Noon. in the Oakland and Chicago offices.

General Contractors
 Cahill Bros., 206 Sansome St., San Francisco.
 K. E. Parker Co., 135 South Park, San Francisco.
 Clinton Constr. Co., 923 Folsom St., San Francisco.
 H. H. Larsen, 64 South Park, San Francisco.
 H. A. Bridges, 1398 Lincoln Ave., San Jose.
 W. J. Ochs, American Trust Bldg., San Jose.
 Carl N. Swenson, 355 Stockton Ave., San Jose.

Electric
 Alta Electric & Mechanical Co., 938 Howard St., San Francisco.
 Central Electric Co., 179 Minna St., San Francisco.
 Scott-Buttner Electric Co., 19 Grand Ave., Oakland.
 Doerrs Garden City Electric Co., 44 San Fernando St., San Jose.
 Gilbert Bros., 286 W-Santa Clara St., San Jose.

Mechanical Work
 Alta Electric & Mechanical Co., 938 Howard St., San Francisco.
 J. A. Nelson, Tenth and Howard Sts., San Francisco.
 Chas. A. Merritt, 584 S-First St., San Jose.
 A. J. Peters, 455 E-Washington St., San Jose.
 F. W. Snook, 596 Clay St., San Francisco.
 Ace Sheet Metal Works, 444 Clementina St., San Francisco.

Contract Awarded.
ALTER STORE Cost, \$5000
 SALINAS, Monterey Co., Cal. Main Street.
 Alterations to store building (new plate glass front, vitrolite tile entrance, etc.)
 Owner—A. D. H. Company.
 Architect—Chas. Butner, 51 Maple St., Salinas.
 Contractor—Fred Carlsen, 336 Lincoln St., Salinas.

19—MISC. CONSTRUCTION

LOS ANGELES, Cal. — Architects John Parkinson and Donald B. Parkinson, 808 Title Insurance Bldg., have been commissioned to prepare plans for the new Los Angeles union passenger station to be erected on the Plaza site by the Santa Fe, Southern Pacific and Union Pacific railroads. Three alternate schemes for the design of the building will be submitted by the architects within a few weeks, when a decision will be made by the railroads as to which scheme will be adopted. Structure will cost approximately \$1,000,000. Estimated cost is \$8,500,000.

SAN FRANCISCO—For Furnace Co., 1123 Harrison St., San Francisco, at \$1819.08 submitted low bid to the U. S. Forest Service, 85 Second St., for 18 complete heating plants, cold air

Move More Dirt Faster with LE TOURNEAU Equipment

A complete line of grading machinery—designed by a contractor—developed on actual construction jobs—built to stand continuous use under the worst conditions.

ENGINEER'S CONSULTATION FREE

R. G. LE TOURNEAU, INC.

Wilson Way at Roosevelt Stockton, Calif.

return, consisting of combination coal and wood furnaces for delivery to the Officer of the U. S. Forest Service in Central and Northern California and Nevada.

Following is a complete list of bids. (A) all or none; (B) if award is split. Fox Furnace Co., San Francisco (A) \$1819.08; (B) \$1909.08. Payne Furnace & Supply Co., San Francisco. (A) \$2034; (B) \$2196. Geo. T. Gerhardt Co., Ltd., San Francisco, (A) \$2214; (B) \$2394. Fraser & Johnston Co., San Francisco (A) \$2250; (B) \$2358. Atlas Heating & Ventilating Co., San Francisco, (A) \$2547; (B) \$2569.50. Phillips Heating, Ventilating & Mfg. Co., Los Angeles (A) \$3150; (B) \$3499.22. Grady Sheet Metal Works, Berkeley, (A) \$3415.50; (B) \$3756.96; (Alt.) (A) \$3024; (B) \$3175. Under advisement.

LOS ANGELES, Calif. — Architects M. P. Wilkinson, Hollywood Security Bldg., is preparing plans for a new motion picture studio to be erected on the old Metropolitan lot at Romaine and Las Palmas Avenues for General Service Studios; J. M. Ridge, president. Construction will be carried on under the supervision of Mr. Wilkinson and will probably be under way shortly after January 1. The studio will consist of five stages of concrete and wood frame construction, four bungalows and an administration building to cost approximately \$450,000. Sound equipment to cost \$125,000 will be installed in the buildings. Old stages now on the site are to be razed. Dr. Geo. Burgess is the engineer in charge of acoustics.

PEARL HARBOR, T. H. — Industrial Piping & Engineering Co., Baltimore, Md., at \$153,900 awarded contract by the Bureau of Yards and Docks, Navy Department, Washington, D. C., for improvement of fuel oil system at Pearl Harbor, T. H. Spec. No. 7136.

To Ask Bids Within A Few Days.
ADDITION Cost, \$—
SEATTLE, Wash. Foot of Massachusetts Street.

Construct twenty large concrete storage bins (100 feet in height) bins to be supported by concrete capped piling, 60 piles to a bin. Owner—Albert Bros. Milling Co., Foot of Massachusetts St., Seattle. Plans by John S. Metcalf Co., Ltd., (grain elevator designers), Vancouver, B. C.

NEVADA CITY, Nevada Co., Cal.—Nevada City Council authorized the purchase of six tracts of land in Nevada City for the proposed municipal swimming pool.

SAN FRANCISCO.—Alta Electric & Mechanical Co., Inc., 767 O'Farrell St. at \$4875 submitted low bid to the Board of Public Works, City Hall, for furnishing and installing an electric indicating device for cell doors at the San Francisco County Jail, Sneath Ranch, San Mateo County. Pacific Electric Mfg. Corp., submitted only other bid at \$5810. 19

MARCH FIELD, Riverside Co., Cal.—Bennett & Taylor, 1978 S. Los Angeles St., Los Angeles, awarded a contract by War Department at \$9364. for construction of additions to the gasoline fueling system at March Field. Work will consist of installing four additional 25,000-gallon storage tanks with necessary fittings, concrete work, and a filling shelter.

HAMILTON FIELD, Marin Co., Cal.—DeLuca & Son, 1745 Filbert St., San Francisco, at \$8974 awarded con-

tract by War Department for construction of the A.C. oil distribution system and oil house at Hamilton Field.

LOS ANGELES, Calif. — Whiting Wrecking Co., 2260 E. Vernon Avenue, awarded contract for razing old buildings on the site of the new Los Angeles union passenger terminal, a 15-acre site bounded by Macy, Aliso and Alameda streets and a point approximately 300 feet east of Alameda St. The contract was awarded by the Los Angeles Union Terminal, 726 N. Alameda St., an organization formed by the railroads for the purpose of building the new terminal. A. J. Barclay, construction superintendent, will direct all work in connection with the project.

BERKELEY, Alameda Co., Calif.—Daahl - Thoms Co., 2335 Broadway, Oakland, at \$97.50 per unit awarded contract by Berkeley Board of Education for canvas tents to accommodate pupils from schools closed for survey. There will be about 50 tents, each to care for approximately 40 pupils. The lumber bids were rejected and material will be purchased in the open market.

HAYWARD, Cal.—City of Hayward has filed an application with the Public Works Administration for a federal loan of \$75,000 to help finance construction of a natatorium.

Plans Being Prepared.
MAUSCLEUM & COLUMBARIUM
Total Cost, \$1,000,000
LAWDALE, San Mateo Co., Calif. Reinforced concrete mausoleum and columbarium (5000 crypts) granite facing, bronze and marble, etc. Owner—Woodlawn Memorial Park Association (Wm. P. Filmer, president), Phelan Bldg., San Francisco. Architect—B. J. S. Cahill, 711 Grand Ave., Alameda.

It is expected to start work on the first unit, estimated to cost \$200,000, in four to six months.

ALAMEDA COUNTY, Cal. — Until January 23, 10:30 A. M., bids will be received by Alameda County Board of Supervisors, Alameda County Courthouse, Oakland, for furnishing and installing electric equipment complete under Spec. 1041 in connection with the bridge (Spec. 1040).

Plans and specifications available from the County Clerk upon deposit of \$50.

CURRY COUNTY, Ore.—J. C. Compton, McMinnville, Ore., at \$55,917 submitted low bid to U. S. Bureau of Public Roads, 316 New Postoffice Bldg. Portland, for applying oil macadam on Oregon Coast Highway Proj. NR-10-A1, B1, D, National Forest Road Project, located within the Siskiyou National Forest, Curry County, Ore. The length of the project is approximately 19.35 miles. Complete bids follow:

J. C. Compton, McMinnville, Oregon, \$55,917.00.
Newport Const. Co., Portland, \$58,467.00.
A. Milne, Portland, \$58,962.00.
Northwest Roads Co., Portland, \$59,193.00.
F. J. Kernan, Faloma, \$60,763.00.

20—MISC. SUPPLIES AND MATERIALS

ARIZONA STATE.—Virginia Bridge & Iron Co., 5225 Wilshire Blvd., room 420, Los Angeles, at \$2818.75 (f.o.b. McNary) and at \$2530.00 (f.o.b. Holbrook, alternate) submitted low bid to Ari-

zona State Highway Commission at Phoenix for furnishing and delivering structural steel to either Holbrook or McNary, Ariz., for the White River Bridge, A.F.E. No. 3401.

Midwest Steel & Iron Works submitted the second low bid at \$3069; alternate \$2775.50.

SAN FRANCISCO.—National Lead Co., Sherwin Williams Co., W. P. Fuller & Co. and General Paint Corp. awarded contract by Purchasing Department to furnish linseed oil, shellac, turpentine, lead, litharge and

SAN MATEO, San Mateo Co., Cal.—L. C. Smith, 235 Third Ave., San Mateo, at \$.082 per gallon submitted low bid to city council to furnish 15,000 gallons emulsified asphalt. Only other bid was by Shell Oil Co., San Francisco, at \$.086375 for 7,000 gals. and at \$.076375 for 8,000 gals.

SAN DIEGO and Mare Island, Cal.—Paraffine Co., San Francisco, submitted the low bid to Bureau of Supplies & Accounts, Navy Department, on December 12, at \$26,390 (\$26,250 f.o.b. works) for furnishing 25,000 sq. yds. of linoleum for San Diego and Mare Island; Schedule 1246 C. & R., Lot 1057A.

SAN FRANCISCO—T. A. Brooks, Purchasing Agent, City Hall, awarded contracts to the following firms under Bid No. 1108, for furnishing pipe and fittings:

Marshall Newell Supply Co., Pacific Plumbing & Heating Supply Co., General Machinery & Supply Co., Crane Co., Gilmore Steel & Supply Co., Steam & Plumbing Service Corp., Tay Holbrook Company, Baker-Hamilton & Pacific Co., Dunham Carrigan & Hayden Co., Richmond Sanitary Co., United Pipe & Supply Co., Mueller Co., Dalziel-Moller Co. and Walworth-California Co.

ARIZONA STATE.—American Bitumous Co. submitted a bid of \$2525.40 for emulsified asphalt only, and five oil companies submitted complete identical bids at \$5858 on both emulsified asphalt and road oil, to the Arizona State Highway Commission, Phoenix, in connection with Project No. 80-E and F, Ashfork-Kingman Highway.

Identical bids at \$5858 were from the following:

Arizona Oil Company;
Gilmore Oil Company;
W. C. McDuffie for Richfield Oil Co.
Shell Oil Company;
Union Oil Company.

SAN FRANCISCO.—Pacific Iron and Metal Co., 375 Seventh St., submitted high bid at \$510 to A. T. Brooks, Purchasing Agent, City Hall, for the sale of (1) 10 Matteson End Dump Ore cars; (2) 10 tons of 16-lb. relaying steel rail. Complete bids follow:

Pacific Iron & Metal Co., (1) \$30.75; (2) \$20.25; total \$510.00.
Fulcher Industrial Equip. Co., (1) \$22.50; (2) \$20.00; total \$425.00.

United Commercial Co., (1) \$25.25; (2) \$15.00; total, \$402.50.
Joshua Hendy Iron Works, (1) \$25; (2) no bid; total, \$250.00.

J. E. Knapp Co., (1) \$25.00; (2) no bid; total \$250.00.

The contract was awarded to high bidder, Pacific Iron & Metal Co.

SACRAMENTO, Cal.—Peerless Machinery Co., 2020 E 12th St., Oakland, at \$224.00 submitted low bid to State Purchasing Department, Sacramento, for furnishing an asphalt kettle for the highway department. Following bids received:

Peerless Machinery Co., Oakland.....\$224
Harron, Rickard & McCone, S. F..... 252
A. L. Young Mch Co., S. F..... 297
Spears-Wells Co., Oakland..... 375

MACHINERY & MATERIAL

Bid calls for construction machinery and materials and miscellaneous equipment and supplies purchased by Federal, State, Municipal and other public agencies.

LOS ANGELES CITY

LOS ANGELES, Cal.—Until February 5, 11 A. M., bids will be received by A. J. Holm, Los Angeles City Purchasing Agent, 107 City Hall, for furnishing to the Water & Power Department f.o.b. shipping points designated below, hydrogen cooled, outdoor type, synchronous condensers, complete, including tools and spare parts, under Spec. 3267. The items are:

- (1) 3 condensers having capacity of 50,000 Kvs. leading and 20,000 Kva. lagging;
 - (a) f.o.b. Los Angeles.
 - (b) f.o.b. cars bidder's shipping point with full freight allowed to Los Angeles.
 - (c) f.o.b. cars bidder's shipping point.
- (2) 4 condensers, same as furnished under item (1) above;
 - (a), (b) and (c) same as above.
- (1-Alt.) 3 condensers having a rating of 50,000 kva. 0% power factor leading and a minimum rating of 30,000 kva. 0% power factor;
 - (a), (b) and (c) same as above.
- (2-Alt.) 4 condensers, same as furnished under (1-Alt.) above.
 - (a), (b) and (c) same as above.

MARIN COUNTY

TOMALES, Marin Co., Calif.—Until January 11, 10 A. M., bids will be received by the Board of Trustees of the Tomales Joint Union High School District, Tomales, for furnishing one 40-passenger school bus. No bid in excess of \$2500 will be considered. Bidders to furnish description of material, design, make, etc., of equipment to be furnished.

Certified check, 10%. R. L. Smith, clerk of the Board of Trustees.

U. S. INDIAN SERVICE

PHOENIX, Ariz.—Until Jan. 8, 2 P. M., bids will be received by the Indian Bureau, Department of the Interior, 4100 Rhoads Circle, Phoenix, C. H. Skinner, Supt., for furnishing one Zeolite water softener, to be of double unit type, capacity of each unit to be 9500 gals. between regenerations and 1500 gals. per hour peak; 19,000 gals. bet. regenerations and 3,000 gals. per hour peak capacity when both of the units are operated together.

Specifications obtainable from the above office.

TULARE COUNTY

TULARE CO., Cal.—Until Jan. 2, 10 A. M., bids will be received by the Board of Supervisors of Tulare County, Courthouse, Visalia, for supplies and materials for the erection of a detention home, involving:

Electrical wiring and fixtures;
Plumbing;
Heating;
Lumber and mill work;
Hardware;
Cement, rock, brick and sand;
Roofing;
Paints.

Specifications obtainable from above office. Gladys Stewart, clerk of the board.

CANAL ZONE

PANAMA CANAL ZONE—Until December 29, 10:30 A. M., bids will be received by the General Purchasing Officer, Panama Canal Zone, Washington, D. C., under Schedule 2926 for the following:

Sewage pumps, power lawn mower, wire rope, check valves, brass screws, coil chain, door locks, hinges, sash pulleys, truck casters and rubber matting.

Specifications obtainable from above office, from the office of the Assistant Purchasing Agent, The Panama Canal, Fort Mason, San Francisco, and on file at the office of the Daily Pacific Builder, A. L. Flint, General Purchasing Officer.

PANAMA CANAL ZONE.—Until Jan. 4, 10:30 A. M., bids will be received by A. L. Flint, General Purchasing Officer, The Panama Canal, Washington, D. C., under Schedule 2927 for electrical materials and hardware for the Madden Dam, including the following:

Copper bars, bus and clamp insulator supports, porcelain wall bushings, copper ground clamps, connectors, couplers, floor flanger, porcelain insulators, strain insulator assemblies, potheads, switches, contactor, magnetic switches, switch hooks, terminals, seamless copper tubing, machine bolts, eye belts, eye nuts, turnbuckles, cable racks, brass wood screws, machine screws and screw-anchor plugs.

Specifications obtainable from above office and from the office of the Assistant Purchasing Agent, The Panama Canal, Fort Mason, San Francisco, and on file at the office of the Daily Pacific Builder.

PANAMA CANAL ZONE.—Until January 5, bids will be received by the General Purchasing Officer, A. L. Flint, The Panama Canal, Washington, D. C., under Schedule 2928, for miscellaneous supplies and materials including the following: spring steel, drill steel, nails, spikes, sheet aluminum, copper tubing, lamp chimneys, tackle blocks, resistors, water hose, car seat webbing, braided cotton line, sheet celluloid, paraffin, black enamel red enamel, ochre, and mineral.

Specifications obtainable from the above office.

NAVY DEPARTMENT

BREMERTON, Wash.—Bids will be received by the Supply Officer, Puget Sound Navy Yard, as follows:

ROSIN, grade-D, lump; 2660 lbs. Req. No. 232 NSA; Jan. 8.
ROSIN, grade-D lump; 3000 lbs. Req. NSA-8/7141; Jan. 8.
ROSIN, grade-D, powdered, 220 lbs. Req. NSA-8/1742.
LUMBER, hardwood, ash (white); 20,000 F.B.M. Req. 373 NSA; Jan. 10.

BREMERTON, Wash.—Bids will be received by the Supply Officer, Puget Sound Navy Yard, Bremerton, as follows:

CALCIUM CARBIDE, nut, 100 lb. drums; 55,000 lbs. Req. 170 NSA; Dec. 27.
BUCKETS, deck and general purpose, steel, galvanized; 2000. Req. 181 NSA; Jan. 3.

WASHINGTON, D. C.—Bids will be received by the Bureau of Supplies and Accounts, Navy Department, Washington, D. C., for miscellaneous supplies and materials as follows:

WIRE ROPE, 51,600 ft.; Mare Island. Sch. 1486-R; Jan. 3.

OAKUM, spun, 1000 lbs., San Diego; 9000 lbs., Mare Island; 7000 lbs., Puget Sound. Sch. 1450; Jan. 9.

FACINGS, brass boat, 3550 lbs., San Diego; 12,200 lbs., Mare Island; 9150 lbs., Puget Sound. Sch. 1455; Jan. 9.

SCREWDRIVERS, Eastern and Western Yards. Sch. 1456; Jan. 9.

STAMPING FIGURES and letters; Eastern and Western Yards. Sch. 1458; Jan. 9.

CANVAS, cotton; 40,000 lin. yds., Mare Island. Sch. 1476; Jan. 9.

U. S. FOREST SERVICE

GOVERNMENT ISLAND, Cal.—Until January 8, 2 P. M., bids will be received by Frank Haynie, Supply Officer, Forest Service Supply Depot, Government Island, Oakland, for portable compressors, as follows:

- (1) 9 compressors of not less than 142 C.F.D. at standard rated R.P.M.
- (2) 7 compressors of not less than 210 C.F.D. at standard rated R.P.M.
- (3) 1 compressor of not less than 240 C.F.D. at standard rated R.P.H.
- (4) 2 compressors of not less than 120 C.F.D. at standard rated R.P.M.

Specifications under Bid 659 obtainable from above office.

MET. WATER DISTRICT

LOS ANGELES, Cal.—Until Feb. 13 11 A. M., bids will be received by A. J. Holm, Los Angeles City Purchasing Agent, 107 City Hall, for furnishing and delivering to Water & Power Department, f.o.b. shipping points designated below, 287,500-volt, 1200-ampere, 3-pole, single throw, floor mounted, outdoor type oil circuit breaker, complete, including all necessary oil and spar parts, under Spec. No. 3266.

Bids will be taken as follows:

(1) 8 oil circuit breakers designed to interrupt all capacities above 25% of rating up to their full rating in not more than 0.083 second after the protective relay contacts have been closed;

(a) f.o.b. cars, bidder's shipping point;

(b) f.o.b. cars, Los Angeles.

(1 Alt.) 8 oil circuit breakers designed to interrupt all capacities above 25% of rating up to their full rating in not more than 0.5 second after the protective relay contacts have been closed;

(a) f.o.b. cars, bidder's shipping point;

(b) f.o.b. cars, Los Angeles.

The Department desires options to purchase not less than four nor more than 10 additional oil circuit breakers as described above, under same terms, conditions, etc., within 120 day period.

ENGINEERING NEWS

NEWS INDEX

For convenient reference, news reports in this section are classified as follows:

- | | |
|---|-------------------------------------|
| 21.—Bridges | 30.—Reservoirs and Dams |
| 22.—Dredging, Harbor Works, Excave. Proj. | 31.—Pipe Lines and Wells |
| 23.—Irrigation Proj. | 32.—Sewers & Sewage Disposal Plants |
| 24.—St. Light. Systems | 33.—Water Works |
| 25.—Machinery and Equipment | 34.—Parks & Playgrounds |
| 26.—Railroads | 35.—Tunnels |
| 27.—Fire Alarm Sys. | |
| 28.—Fire Equipment | |
| 29.—Streets & Highways | |

21— BRIDGES

VENTURA COUNTY, Calif.—State Highway Commission, Sacramento, has announced that bids for construction of an overhead crossing over the tracks of the Southern Pacific Company near Ventura, in Ventura County, have been cancelled and will be readvertised at a later date.

The previous date was Jan. 3, 1934.

ALAMEDA COUNTY, Cal.—Until January 23, 10:30 A. M., bids will be received by the Alameda County Bd. of Supervisors, Alameda County Court House, Oakland, for the construction of a modern electrically operated double leaf bascule highway bridge complete with approaches, over the tidal canal at Park St., Oakland.

The design is a double-leaf, through truss bascule, providing a 44-ft. roadway and two 6-ft. sidewalks. The span will be 288 ft. between trunnions and have an overall length of 433 ft. with approaches. The work involves:

- (1) Lump sum—excavation, cofferdams, etc.;
- (2) 10,000 lin. ft. steel piles;
- (3) 10,000 lin. ft. timber piles;
- (4) 1040 cu. yds. Tremie concrete;
- (5) 7400 cu. yds. struc. concrete;
- (6) 390 cu. yds. counterweight conc.;
- (7) 1,120,000 lbs. reinf. steel;
- (8) 90,000 lbs. silicon steel;
- (9) 2,060,000 lbs. carbon steel;
- (10) 28,000 lbs. anchor bolts;
- (11) 460,000 lbs. machinery;
- (12) 1000 lin. ft. elec. fillet weld;
- (13) Lump sum—2 operators' houses;
- (14) 71 MFBM creosoted timber;
- (15) 13,700 lin. ft. creosoted timber piles;
- (16) 2 drainage pumps and motors;
- (17) Lump sum—Conduits across estuary;
- (18) Lump sum—remove existing bridge and clear site;

Bruce Jameyson, Bridge Engineer, Alameda County Court House, Oakland. Specification 1040 and plans available from County Clerk upon deposit of \$100.

SONOMA-MENDOCINO COUNTIES—All bids received by the Board of Directors of Joint Highway District No. 19, Supervisor Chambers, County Court House, Santa Rosa, for construction of a steel bridge to replace the existing bridge over the Russian River at Monte Rio, have been rejected. The work will proceed immediately by force account.

Nevis & Harp, 891 Harrison St., Santa Clara, submitted low bid December 8, at \$108,812. J. B. Piatt, District Engineer, will be in charge of construction.

LEWIS COUNTY, Wash.—Until January 9, 1934, 2 P. M., bids will be received by Director of Highways, L. V. Murrow, Olympia, Wash., for construction of a reinforced girder bridge 123 feet long over Silver Creek and grading and surfacing with crushed stone about 0.7 mi. of approaches, on State Road No. 5, U. S. Public Works Project No. NR11 143-B, in Lewis County, involving:

- (1) 5 acres clearing;
- (2) 29,500 cu. yds. excavation;
- (3) 1700 cu. yds. crushed stone surf.;
- (4) 141 lin. ft. pipe culverts;
- (5) Miscellaneous items of work.

Plans and specifications obtainable from above office upon a deposit of \$2.00 for each set.

LAKE COUNTY, Cal.—Thomas J. Doyle, 1527 17th Ave., San Francisco, at \$16,757 awarded contract by the State Highway Commission, Sacramento, for constructing a reinforced concrete slab bridge across St. Helena Creek, 0.3 mi. north of Middletown, Lake County.

KING COUNTY, Cal.—Until January 9, 10 A. M., bids will be received by the Director of Highways, L. V. Murrow, Olympia, Washington, for construction of a viaduct 2301.67 feet long over the tracks and right-of-way of the N. P. Railway, Puget Sound Electric Ry., Pacific Coast Ry., and the O. W. R. R. & N. Companies, on State Road No. 1, 4th Avenue South in the City of Seattle, unit 3 of U. S. Public Works Project No. NRM 150-D, in King County, consisting of 1074.5 lineal feet of steel girder spans and 1227.16 lineal feet of treated timber trestle.

SONOMA - MENDOCINO COS., Cal.—Associated General Contractors, Northern California Chapter, have filed a protest with Joint Highway District No. 19, Santa Rosa, and with State Director of Public Works Earl Lee Kelly, against construction of the Monte Rio bridge under force account. Floyd O. Dooe, Secretary-Manager of the Chapter, said he would file suit if necessary to restrain the district from proceeding with the project by other than a contract led by competitive bidding. District directors voted to reject bids received December 8 (as previously reported) due to the fact that the low bid exceeded preliminary estimate.

VERDE PROJECT, Ariz.—Bids will be advertised for shortly by Bureau of Reclamation for diamond drilling at the Camp Verde dam site, preparatory to awarding contracts for construction of the dam and appurtenant work. R. B. Williams, Phoenix, is the resident engineer for the re-

clamation service. Plans for the Camp Verde dam are being prepared in Denver under direction of Walter, chief engineer. Construction of the dam is scheduled to start in May of 1934.

BURLINGAME, San Mateo Co., Cal.—Burlingame city council has approved plans for a sewer and storm drain system for North Burlingame, estimated to cost \$26,824. The plans provide for completion of El Camino and Mills Ave. culvert and pipe line and Mills Creek pipe line and canal line and a dike. The council will petition Public Works Administration for approval of the project as supplementary to other work for which funds are asked. Plans prepared by City Engineer Chas. Thomas. Estimated cost of materials, \$8,210. Approval of the project for CWA labor will be asked.

LOS ANGELES COUNTY, Cal.—Until January 17, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for construction of a reinforced concrete girder bridge on State Street across Ramona Blvd., in the city of Los Angeles, consisting of two spans approximately 44-ft. in length as an extension of the existing bridge, involving:

- (1) remove and dispose of portions of existing structures;
- (2) 4,700 cu. yds. rdwy. excav., unclassification;
- (3) 770 cu. yds. struc. excav.;
- (4) 833 cu. yds. Class A Port. cem. conc. struc.;
- (5) 25 cu. yds. Class C Port. cement concrete;
- (6) 194 lin. ft. ornamental concrete railing;
- (7) 113,400 lbs. bar reinf. steel;
- (8) 115 tons asph. conc. wearing surf.;
- (9) 1 lot lighting equipment;
- (10) 1 lot storm drains;
- (11) 1 lot sanitary sewers.

Plans and specifications obtainable at above office and are on file at the offices of the district engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

ALAMEDA COUNTY, Cal.—Following have procured plans for the purpose of submitting bids to the County Board of Supervisors on January 23 for the construction of the Park St. Bridge, Oakland:

W. A. Bechtel Co., 155 Sansome St., San Francisco.

Union Metal Co., 7 Front St., San Francisco.

Koetitz & Koetitz, 1424 Fountain St. Alameda.

MacDonald & Kahn, Financial Center Bldg., San Francisco.

Healy-Tibbitts Co., 64 Pine St., San Francisco.

Judson-Pacific Co., foot of Park Avenue, Oakland.

ONTARIO, Ore.—Until January 15, 2 P. M., bids will be received by Bureau of Reclamation, Denver, under Spec. No. 558, for furnishing and delivering f.o.b. cars at the factory shipping point or at Dunaway, Ore., the following:

Welded Plate-Steel Pipe, 10-ft. 6-in. and 9-ft. in diameter for the Snivley and Owyhee river siphons, respectively, together with supporting brackets, roller assemblies, expansion joints, manholes, drain connections and other appurtenant parts.

Three-Span Through-Truss Bridge, about 515 ft. in length, to carry the plate-steel pipe and a road for the Owyhee river siphon over the river.

CAPITAL CITY TITLE COMPANY

J. C. PALEN,
Manager

914 Seventh Street
Sacramento :: California

The above materials are all for the North Canal, Mitchell Butte division, Owyhee project, Oregon-Idaho. The pipe and bridge will be installed by the Government. No charge for specifications and drawings to prospective bona fide bidders; to others, \$2.00, not returnable. For further information, address the Bureau of Reclamation, Denver, or Washington, D. C. Elwood Mead, commissioner.

MONTEREY COUNTY, Cal.—Until January 17, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for construction of four bridges between 32 and 36 mi. north of San Simeon; one across Pre-witt creek, consisting of eight 19-foot timber stringer spans; one across Wild Cattle Creek, consisting of one 10-ft. and three 19-ft. timber stringer spans, one 40-ft. steel stringer span; one across Mill Creek, consisting of two 57-ft. 3-in. and one 56-ft. 6-in. steel beam spans; and one across Kirk Creek, consisting of eleven 19-ft. timber spans, in Monterey county, involving:

- (1) 1,550 cu. yds. struc. excav.;
- (2) 565 cu. yds. Class A Port. cement concrete;
- (3) 335 cu. yds. Class B do;
- (4) 130 cu. yds. rubble masonry;
- (5) 84,900 lbs. reinf. steel;
- (6) 158,000 lbs. struc. steel;
- (7) 450 lbs. cast steel;
- (8) 184 MFBM redwood timber, dense select all-heart struc. grade;
- (9) 105 MFBM redwood timber, select all-heart struc. grade;
- (10) 1 lot misc. items of work.

Plans and specifications obtainable at above office, and are on file at the offices of the district engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

LOS ANGELES COUNTY, Cal.—Until January 17, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for construction of an extension to the existing bridge about 1 mile East of Los Angeles, consisting of one 39-ft. 6-in. reinforced concrete girder span on concrete piers, in Los Angeles County, involving:

- (1) 1000 cu. yds. stripping;
- (2) 1 lot shoring;
- (3) 1500 cu. yds. struc. excav.;
- (4) 110 cu. yds. conc. removed and disposed of;
- (5) 1 only detour bridge;
- (6) 490 cu. yds. Class A Portland cement concrete;
- (7) 72,000 lbs. bar reinf. steel;
- (8) 730 lbs. bronze expansion plated;
- (9) 74 lin. ft. ornamental conc. railing;
- (10) 575 lbs. pipe handrail;
- (11) 120 lin. ft. pipe drain;
- (12) 1 lot lighting equipment;
- (13) 1 lot miscellaneous items of work

Plans and specifications obtainable from above office and on file at the offices of the District Engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

VENTURA COUNTY, Cal.—Until January 17, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for construction of an overhead crossing over the tracks of the Southern Pacific Company near Ventura, consisting of nine 40 ft. and two 57 ft. 7 9/16-in. reinforced concrete hider spans and one 94 ft. 10 1/2-in. steel span, in Ventura County, involving:

- (1) 2700 cu. yds. struc. excav.;
- (2) 3025 cu. yds. Class A Portland cement concrete struc.;
- (3) 35 cu. yds. Class A Port. cement concrete railing;
- (4) 518,000 lbs. bar reinf. steel;
- (5) 125,000 lbs. struc. steel;
- (6) 3200 lbs. cast steel;
- (7) 1 lot guniting;

- (8) 125 tons oil treat. crushed gravel or stone detour;
- (9) 500 lin. ft. laminated timber guard rail;
- (10) 540 lin. ft. temporary railing;
- (11) 1 lot miscellaneous items of work.

Plans and specifications obtainable from above office and on file at the offices of the District Engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

CLARK COUNTY, Nevada—Dodge Constr. Co., Inc., Fallon, Nevada, at \$20,620.50 submitted low bid and was awarded contract by S. C. Durkee, State Highway Engineer, Carson City, Nevada, for constructing an overhead crossing at Meapa, Clark County. N. R. S. No. 124. James J. Burke Co., Salt Lake City, Utah, at \$23,989.10 submitted second low bid. Complete bids will be published shortly.

HUMBOLDT COUNTY, Cal.—Theo. Johanns, 2020 15th St., San Francisco, at \$10,985 awarded contract by State Highway Commission, Sacramento, for construction of a reinforced concrete girder bridge across Dean Creek about 5.0 mi. north of Garberville, in Humboldt County.

MONTEREY COUNTY, Cal.—Bodenhamer Constr. Co., 354 Hobart St., Oakland, at \$78,096 awarded contract by State Highway Commission, Sacramento, for construction of three timber bridges between 52 and 56 miles south of Monterey, in Monterey Co.

22—DREDGING HARBOR WORKS EXCAVATION

SEATTLE, Wash.—General Const. Co., 3840 Iowa St., Seattle, submitted only bid to The Seattle Board of Public Works for construction of a seawall and improvement of Railroad Ave. The lowest bid of the company on one of 14 alternate proposals was \$1,516,131. The engineer's estimate, \$1,396,000. Bids have been referred to the city council.

SACRAMENTO, Calif.—Lord and Bishop, Native Sons Bldg., Sacramento, at \$24,875 (\$2.75 per ton) awarded contract by the U. S. Engineer Office, Sacramento, for furnishing and placing 12,500 tons of riprap stone along the banks of the Sacramento river in the vicinity of Knights Landing; Spec. No. 5808.

NEWPORT BEACH, Cal.—The \$640,000 harbor bond issue carried at the Orange County election, December 19. The federal government will provide an additional \$1,195,000. The project calls for the extension of the two jetties at the harbor entrance; the west one 760 ft. and the east one 920 ft. The entrance channel will be dredged 500 ft. wide and 20 ft. deep at low tide, this depth to be continued to the county-owned frontage and dock at the Arches in a channel 200 ft. wide. 35 acres fronting the Newport Harbor Yacht Club will be dredged to a depth of 15 ft. at low tide to provide anchorage for pleasure craft. All other harbor areas will be deepened to 10 ft. to eliminate shoals and other hidden obstructions. A turning basin from 600 to 1200 ft. wide will be provided.

R. L. Patterson, city engineer of Newport, has estimated the amount of work as follows:

- (1) 7 692,000 cu. ft. dredging;
- (2) 190,000 tons rock.

GOVERNMENT ISLAND, Cal.—Until January 5, 2 P. M., bids will be received at U. S. Coast Guard Headquarters, Washington, D. C., for the construction under one general con-

tract, of a steel sheet pile bulkhead approximately 2320 ft. in length, anchorages, a reinforced concrete pavement 6-in. thick by 12-ft. wide by approximately 1473 ft. long, and bollard piles and accessories, at U. S. Coast Guard Base Eleven, Government Island, Oakland.

Plans and specifications obtainable from Commander, Base Eleven, U. S. Coast Guard, Government Island; Associate Civil Engineer Andre Fourchy, C. & R., U. S. Coast Guard, 219 Administration Bldg., Government Island, and from Commandant, U. S. Coast Guard, Washington, D. C.

PEARL HARBOR, T. H.—The W. P. Thurston Co., Richmond, Va., at \$473,000 submitted a late low bid and was awarded the contract by the Bureau of Yards & Docks, Navy Department, Washington, D. C., for the construction of fleet moorings under Spec. No. 7093 at Pearl Harbor. The award was made under Item 7 omitting twelve designated moorings. Only other bid submitted was that of the Hawaiian Dredging Co., Honolulu, at \$1,427,700 for the work complete.

BAKER BAY, Wash.—Bid No. 34-299 for dredging in Baker Bay, Columbia River, near Ilwaco, Wash., to have been opened December 21 as previously reported, was not opened as scheduled because from the date of the invitation for bids to the date fixed for opening them, weather at the site of the work was so stormy some prospective bidders were unable to conduct necessary investigation and examination to entable them to bid. The work will be readvertised at a later date. Major C. F. Williams, district engineer.

LOS ANGELES, Cal.—The Los Angeles county supervisors rejected all but the low bid submitted by Merritt, Chapman & Scott Corp., 720 Wilmington - Redondo Blvd., San Pedro, on Proposals (1) at \$60,250; (2) \$59,740, and (3) \$73,600 (as previously reported) for constructing outlet at Alamos Bay, San Gabriel River Unit No. 6.

HAMILTON FIELD, Cal.—Dutton Dredging Co., Mills Bldg., San Francisco, at \$23,175 awarded contract by the War Department, Office of the Constructing Quartermaster, Washington, D. C., for dredging a channel and turning basin in San Pablo Bay, at Hamilton Field.

23—IRRIGATION PROJ.

IMPERIAL COUNTY, Cal.—The Imperial Irrigation District has announced that it will file with the President a protest opposing the award of contracts for excavation on 13.8 miles of the All-American Canal on grounds that the work can be done by force account for \$1,100,000, less than the aggregate of the low bids submitted to the Bureau of Reclamation at Yuma December 20.

Commissioner Elwood Mead has previously stated that the work must be done by contract and that the department will not change its views on this question. 23

ROSEVILLE, Placer Co., Cal.—Roseville city council has authorized Baar & Cunningham, Portland, consulting engineers, to prepare plans and specifications for construction of a municipal water supply system. Bids will be asked as soon as the plans are completed. A bond issue of \$250,000 recently was authorized at a special election for purchase of the local system owned by Public Utilities Consolidated Corporation or construction of a new system. The corporation has failed to accept an offer of \$140,000

made by the council for the existing plant.

TETON COUNTY, Montana—Morrison-Knudsen Co., Boise, Idaho, at \$72,105 (as previously reported), submitted low bid to the U. S. Bureau of Reclamation, Fairfield, Montana, for construction of earthwork and structures for open drains, Greenfields Division, Sun River Project, Montana. Specifications No. 556. Complete bids follow:

- Morrison-Knudsen Co., Boise, Idaho, \$72,105.
Whitmas, Borg, Carlson, Bovey, Minnesota, \$81,569.
Lease Leigland, Great Falls, \$82,515.
Tomunson Aukwright Co., Great Falls, Montana, \$85,395.
Crick & Kuney Co., Spokane, Wash., \$83,440.
S. H. Newell & Co., Portland, Oregon, \$89,665.
Barnard-Curtiss Co., Minneapolis, \$93,240.
Nolan Bros., Minneapolis, Minn., \$125,300.
Engineer's Estimate, \$82,750.

24—STREET LIGHTING SYSTEM

BIDS OPENED

ALBANY, Alameda Co., Cal.—A. Soda & Son, 1077 65th St., Oakland, at \$11,111 submitted low bid to the City Council of Albany for the installation of a street lighting system on San Pablo Avenue, involving:

- (1) 75 tubular steel poles with foundations;
(2) 75 cast iron ornamental brackets;
(3) 75 lighting units complete;
(4) 22,000 lin. ft. No. 6 weatherproof wire;
(5) 1600 lin. ft. No. 8 standard weatherproof wire;
(6) 75 cast iron pole tops with special arms, pins and insulators;
(7) 11 malleable cross arms with pins and insulators.

Complete bids follow:

- (A) A. Soda & Son, Oakland, \$11,111.
(B) Central Electric Co., San Francisco, \$11,360.
(C) G. M. Gest, Oakland, \$11,575.

Unit bids follow:

Table with 4 columns: Unit, (A), (B), (C). Rows include items like poles, brackets, lighting units, wire, pole tops, and cross arms.

All bids held under advisement until January 2.

25—MACHINERY AND EQUIPMENT

SAN FRANCISCO. — Following bids received by U. S. Engineer Office, Custom House, for furnishing and installing power - operated bulkhead doors, to replace the existing systems on the U. S. seagoing hopper dredges "A. Mackenzie" and "Culebra." Bids were taken as follows:

- (A) General Engr. & Drydock Co., San Francisco.
(B) Moore Drydock Co., Oakland.
(C) Bethlehem Shipbuilding Corp. Ltd, San Francisco.

- (A-1) 4 hydraulic doors for "Culebra."
(A-2) 4 electrical doors for "Culebra."
(B-1) 2 hydraulic doors for "A. Mackenzie."
(B-2) 2 electrical doors for "A. Mackenzie."

Table with 5 columns: Unit, (A-1), (A-2), (B-1), (B-2). Rows include hydraulic and electrical doors.

No bids were received for pneumatic equipment. All bids held under advisement.

SACRAMENTO, Cal.—Following bids received by State Purchasing Department, Sacramento, for 3 8-ft. leaning wheel solid rubber-tired graders with scarifier attachment, for Division of Highways, Shop 11 f.o.b. San Diego. Quotation No. 20514:

- Associated Equipment Co., 355 Fremont St., S. F., \$1343; (Alternate) \$1603.
Smith Booth Usher, Los Angeles, \$1353.
J. D. Adams Co., Los Angeles (no sales tax), \$1353.
Concrete Machinery Co., Los Angeles, \$1418.
Austin Western Road Machinery Co., Los Angeles, \$1418.
San Diego Tractor & Equipment Co., San Diego, \$1460.
Hulse Anderson Co., \$1460.

YERBA BUENA ISLAND—General Engineering & Drydock Co., San Francisco, at \$554 for necessary items and \$1818.50 for optional items submitted low bid to Supt. of Lighthouses Customhouse, for repair of Lighthouse 76 at Yerba Buena Island. Following is a complete list of bids. (1) Necessary Items; (2) Optional Items: General Engineering & Drydock Co., San Francisco (1) \$554; (2) \$1818.50 Moore Drydock Co., Oakland (1) \$583 (2) \$2007.50. Bethlehem Shipbuilding Corp., Ltd., San Francisco, (1) \$608; (2) \$1905.30.

SAN FRANCISCO—Following bids received by the Superintendent of Lighthouses, Customhouse, for the conversion of the Lightship No. 83 at Yerba Buena Island from a coal burner to an oil burner. Bids were taken as follows.

- (1) and (1-A) Fuel Oil Tanks; (2) and (2-A) Boiler: Moore Drydock Co., Oakland (1) \$20,990; (2) \$35,220; (1-a) \$22,248; (2-a) \$39,930.

Alternate bids as follows: (1) \$17,849 (2) \$29,000; (1-a) \$17,344; (2-a) \$28,283.

- General Engineering & Drydock Co., San Francisco, (1) \$18,810; (2) \$30,675.

All bids were referred to the Bureau of Lighthouses, Washington, D. C.

SEATTLE, Wash. — Stacy Schmidt Mfg. Co., York, Pa., at \$29,975 submitted low bid to the U. S. Engineer Office, Federal Bldg., Seattle, for furnishing six gate opening machines for the Lake Washington ship canal.

Complete bids follow:

- Stacy Schmidt, York, Pa., \$29,975
Foote Bros. Gear & Machine Co., Chicago, 30,000
Thomas Spacing Machine Co., Pittsburgh, 30,531
Hillard Newbold Co., Georgetown Pennsylvania, 32,118
Joshua Hendy Iron W'ks, S. F., 32,976
Washington Iron W'ks, Seattle, 33,060
Earl Gear & Machine Co., Philadelphia, 33,240
Pacific Car & Foundry Co., Seattle, 34,250
Pacific Iron & Steel Co., Tacoma, 34,800
Willamette Iron & Steel Corp., Portland, 34,980
Commercial Iron W'ks, Portland, 35,490
Hardie Tines Co., Birmingham, 35,880
Bethlehem Shipbuilding Co., S. F., 37,170
Whiting Corp., Harvey, Ill., 44,500
H.R.L. Motor Co., Seattle, 46,833

MARE ISLAND, Cal.—The following submitted low bids to the Bureau of Yards and Docks, Navy Department, Washington, D. C., under Spec. No. 7540, for two 10-ton hammerhead cranes at the Navy Yard, Mare Island:

- (1) 2 Cranes complete.
(2) 1 Crane complete.

Lakeside Bridge & Steel Co., Milwaukee, (1) \$46,454; (2) \$26,600.

Harnischfeger Sales Corp., Milwaukee, (1) \$46,780; (2) \$24,650.

Judson Pacific Co., San Francisco, (1) \$59,819; (2) \$31,839.

R. W. Kaltenback Corp., Bedford, O., (1) \$58,000; (2) \$29,750.

26—RAILROADS

NILES-SAN FRANCISCO, Cal.—The Western Pacific Railroad Co. has abandoned all plans for the construction of a railway line between Niles and San Francisco, via Redwood City.

30—RESERVOIRS & DAMS

BONNEVILLE, Ore.—Until Jan. 3. 3 P. M., bids will be received by the U. S. Engineer Office, Major C. F. Williams, District Engineer, 306 Customhouse, Portland, under Bid No. 34-349 for the construction of the initial portion of the side dame at Bonneville dam site, involving:

- (1) 3,000 lin. ft. furnish and place 3-in. grout pipe;
(2) 3,000 lin. ft. drilling grout holes;
(3) 200 bbls. cement grouting;
(4) 30 bbls. cement do contraction joints;
(5) 9,700 cu. yds. concrete, Class A;
(6) 59,000 cu. yds. concrete, Class B;
(7) 4,600,000 lbs. reinf. steel;
(8) 30,000 lbs. struc. steel;
(9) 450 lin. ft. electrical conduit;
(10) 3,440 lin. ft. copper water stops;
(11) 6,000 lin. ft. caulking joints;
(12) 440 each grout box units;
(13) 150 MFBM stop logs;
(14) 133,000 cu. yds. backfill between buttresses;
(15) 1,680 sq. ft. expansion joint filler.

Plans, drawings and specifications obtainable from the above office.

VALE, Oregon—Until January 16, 10 A. M., bids will be received by the Bureau of Reclamation, Vale, Oregon, under Spec. No. 560, for the construction of the Agency Valley Dam, Vale project, Vale, Oregon, involving:

- (1) 35,000 cu. yds. stripping for embankments;
(2) 2800 cu. yds. tunnel and shaft excav.;
(3) 626,900 cu. yds. excav. in open cut
(4) 2500 cu. yds. backfill about struc.;
(5) 480,000 cu. yds. earth fill embankment;
(6) 105,000 cu. yds. riprap and rock fill;
(7) 1020 cu. yds. conc. in tunnels and shafts;
(8) 5,000 cu. yds. conc. in other struc.
(9) 5000 cu. ft. pressure grouting;
(10) Placing 385,000 lbs. reinf. bars;
(11) Placing 2750 lin. ft. drain piping;
(12) Installing 302,370 lbs. metal work;

Plans and specifications obtainable from above office. R. H. Newell, Construction Engineer.

BONNEVILLE, Ore.—Bids for cofferdams, excavation and roadway for power house and navigation locks, Bonneville Power and Navigation Dam under Bid No. 34-305, to have been opened December 22 as previously reported, were not opened as scheduled because foundation borings in progress indicate that it may be desirable to make a slight shift in location of the powerhouse which would involve a decided change in the character of the materials to be excavated. The work will be re-advertised at a later date.

- Following is a list of contractors and others who had procured copies of the plans and specifications:
Utah Const. Co., San Francisco.
Guy F. Atkinson, Portland.
Guthrie-McDougal, Portland.
Morrison-Knudsen, Spokane.
P. L. Crooks, Portland.
United Contract Co., Portland.
J. A. Terteling & Sons, Boise, Ida.

Meyer Contract Co., Portland.
 Von der Hellen & Pierson, Medford.
 Kern & Kibbe, Portland.
 Parker-Schram, Portland.

31—PIPE LINES & WELLS

ONTARIO, Oregon—Until January 18, 10 A. M., under Spec. No. 559, bids will be received by the Bureau of Reclamation, Ontario, Oregon, for the construction of the Owyhee River and Snivley siphons and concrete bench flume, North Canal, Mitchell Butte division, Owyhee project, Oregon-Idaho, involving:

- (1) 15,000 cu. yds. all classes open-cut excav.;
- (2) 2400 cu. yds. backfill;
- (3) 3700 cu. yds. concrete in struc.;
- (4) 600 cu. yds. riprap;
- (5) 400 cu. yds. dry-rock paving;
- (6) Placing 412,000 lbs. reinf. bars;
- (7) Erecting 1,800,000 lbs. welded plate-steel siphon pipe;
- (8) Erecting 864,000 lbs. struc. steel in bridge and approaches;
- (9) Erecting 90,000 F.B.M. timber in bridge and approaches;
- (10) Installing 13,000 lbs. misc. metal work.

Plans and specifications obtainable from above office. R. H. Newell, Construction Engineer.

32—SEWERS & SEWAGE DISPOSAL PLANTS

PETALUMA, Sonoma Co., Calif.—The Petaluma city council has authorized an application to the Federal Public Works Administration for a grant of 30% of the cost of a proposed sewage disposal system involving pumping plant filtering plant, pipe lines, etc.

Estimated cost, \$150,000. L. H. Nishkian, 525 Market St., San Francisco, and Prof. Chas. Hyde, University of California, Berkeley, Project Engineers.

PLACERVILLE, Calif.—Placerville City Council has voted to proceed immediately with application to Federal Public Works Administration for funds for construction of a sewage disposal plant. A straw ballot indicated that voters would favor a bond issue for the improvement. A public hearing set for December 29 has been postponed until a report is received on the PWA application.

BURBANK, Cal.—\$90,000 in bonds to finance the construction of a new sewer system in Burbank were defeated at the election December 19.

SAN FRANCISCO — Frederick W. Snook Co., 596 Clay St., San Francisco, at \$2540 awarded contract by Board of Public Works, City Hall, for the construction of a sewage effluent disposal pump and pipe line at the San Francisco County Jail, Sneath Ranch, San Mateo County.

33— WATERWORKS

CENTERVILLE, Alameda Co., Cal.—The State Railroad Commission has ordered improvements in the Centerville Water Co. System (Alameda Co.) that will provide a working pressure of 35 lbs. per sq. in. static. The additional pressure required may be obtained either through installation of additional storage space having a higher elevation than the existing storage tank or otherwise. Improvements must be completed before April 1, 1934.

SUMMERLAND, Santa Barbara Co., Calif.—The Railroad Commission has authorized the Montecito Oil Placer Mine, a utility supplying water to the

town of Summerland in Santa Barbara County, to make a number of improvements on their system as follows:

- (1) Provision for supplying additional water adequate in quantity to properly supply consumers with the amounts reasonably required by them;
- (2) A storage tank of not less than 25,000 gals. capacity;
- (3) An oil separating device or baffle box of a capacity of not less than 180 cu. ft. and with at least 30 sq. ft. of baffle area.

SACRAMENTO, Calif.—Sacramento Municipal Utility Directors have asked Public Works Administration to cancel, temporarily, an allocation of \$11,700,000 to the District for the Silver Creek Water Supply Project. The directors expect to apply for funds on a revised plan at an early date.

SAN LUIS OBISPO COUNTY, Cal.—San Luis Obispo County Water District No. 3 in the vicinity of Cambria, has petitioned the Board of Supervisors for immediate dissolution of the district. A bond issue of \$18,000 to finance contemplated improvements was authorized about a year ago but the bonds have not been sold.

MADERA, Madera Co., Cal.—Peerless-Bean Sales & Service, Fresno, at \$492.00 awarded contract by the Madera Board of Trustees for furnishing one set of turbine pump bowis which are to be used at Well No. 6, Madera. Complete bids follow:

Peerless-Bean, Fresno	\$452.00
Wintroath Pumps, Fresno	420.00
Kimball-Krogh Pump, L. A.	424.75
Layne Pump Co.	477.00
Byron-Jackson Co., Berkeley	552.00
Fairbanks-Morse Co., S. F.	650.00

OCEANO, San Luis Obispo Co., Cal.—The Board of Supervisors of San Luis Obispo County has denied a petition of the residents of Oceano to form a water district. Estimated cost, \$34,000 to \$36,000.

PORTERVILLE, Cal.—Until Jan. 2, 3 P. M., bids will be received by the City of Porterville for repairs to the Triplex pumping plant at Third and Harrison Sts., Porterville.

Specifications on file at the office of D. P. Kinney, city manager.

PITTSBURGH, Contra. Costa County, Cal.—Pittsburgh city council plans to expend \$15,000 from Water Department funds for improvement of the existing system following an election at which voters rejected plans to obtain a new source of supply. The voters opposed a plan to contract with the California Water Service Corp. for a supply from Chenery reservoir and also opposed construction of a municipal reservoir to be filled from the San Joaquin river.

HUNTINGTON PARK, Los Angeles Co., Calif.—The Huntington Park city council has rejected all bids received Dec. 18 for furnishing cast iron water pipe, valves and fittings. The city will buy the material on the open market. Vaughn Wood, water superintendent.

ALAMEDA, Cal.—Until January 2, 8 P. M., bids will be received by D. Elmer Dyer, City Clerk, for furnishing and installing one 10-h. p. deep well turbine pump, 50-60 gallon p. m. capacity and one 1000-gallon hydro-pneumatic steel tank at Franklin Park, Alameda. Plans and specifications obtainable from City Engineer, Alameda.

NAPA, Napa Co., Calif.—American Cast Iron Pipe Co., Sharon Bldg., San Francisco, at \$7,356.55 submitted low

bid to the Napa city council for furnishing a miscellaneous lot of fittings and 10,000 ft. of water main. Complete bids follow:

American C. I. Pipe Co.	\$756.55
U. S. Pipe & Foundry Co., S. F.	750.10
Pacific States C. I. Pipe Co., S. F.	7720.20

All bids held under advisement until January 2.

34—PARKS AND PLAY-GROUNDS

BEVERLY HILLS, Los Angeles Co., Cal.—All bids received by the Beverly Hills city council December 5, for fencing around three West Hollywood plants and plants south of Pico Blvd. for the Water Department, were rejected and the consulting engineers, Salisbury, Bradshaw & Taylor, 714 W 10th St., Los Angeles, were authorized to buy on the open market.

29—STREETS AND HIGHWAYS

SAN FRANCISCO.—Until January 3, 1:30 to 1:45 P. M., (date postponed from Dec. 27, previously reported) informal bids will be received by the Board of Public Works, Room 251, City Hall, for constructing a macadam sidewalk on the west side of Van Ness Ave. between Beach St. and Port Mason.

LANE COUNTY, Ore.—Heller and Gillgannon, Portland, at \$11,170 submitted low bid to U. S. Bureau of Public Roads, 316 New Postoffice Bldg., Portland, for clearing the Willamette Highway Project, NR-21-F, National Forest Road Project, located within the Willamette National Forest, Lane County. The length of the project is approximately 2.738 miles.

Complete bids follow:
 Heller & Gillgannon, Portland, \$11,170.00.

Smith, Erickson & Smith, Naches, Wash., \$11,709.00.

E. L. Gates, McCredie Springs, Ore. \$12,560.00.

F. C. Dillard, Medford, Ore., \$18,240.00.

LANE & DOUGLAS Counties, Ore.—F. J. Kernan, Faloma, Ore., at \$78,690 submitted low bid to U. S. Bureau of Public Roads, 316 New Postoffice Bldg., Portland, for applying oil macadam on Oregon Highway Project NR-5-D3, E2, E2, J1 (Lane county line to Berry Creek) and NR-5-G3, H1, H1 (Glenada to Gardiner), National Forest Road Project, located within the Siuslaw National Forest, Lane and Douglas counties. The length of the project is approximately 32.521 miles. Complete bids follow:

(F. J. Kernan, Faloma, Ore., \$78,690.00.

Northwest Roads, Portland, \$80,105.

A. Milne, Portland, \$80,640.

J. C. Compton, McMinnville, \$81,360.00.

Newport Const. Co., Portland, \$82,700.00.)

STANISLAUS COUNTY, Cal.—Heafey-Moore Co., 344 High St., Oakland, at \$57,774 awarded contract by State Highway Commission, Sacramento, for paving with asphalt concrete about 1.3 mi. at Modesto, in Stanislaus County.

LOS ANGELES COUNTY, Cal.—Jahn & Bressi Constr. Co., Inc., Lane Mortgage Bldg., Los Angeles, at \$299,644 awarded contract by State Highway Commission, Sacramento, for grading and paving about 3.8 mi. between Evergreen Avenue and Atlantic Blvd., in Los Angeles County.

SAN BERNARDINO COUNTY, Cal.—Griffith Co., 502 Los Angeles Railway Bldg., Los Angeles, at \$57,207 awarded contract by State Highway Commission, Sacramento, for grading and paving with asphalt concrete about 2.1 mi. between Pomona and Ontario in San Bernardino County.

SAN FRANCISCO—E. J. Treacy, Call Bldg., San Francisco, at \$442 awarded contract by Treasury Department, Washington, D. C., for construction of roadway to Laboratory Bldg., at the U. S. Marin Hospital, San Francisco.

SAN FRANCISCO—John S. Heilmann, 2703 21st St., San Francisco, at \$18,695 awarded contract by the Treasury Department, Washington, D. C., for retaining walls, roadway, etc., at the U. S. Marine Hospital, San Francisco.

SAN FRANCISCO—M. J. Lynch, 1435 Church St., at \$397.82 submitted the only bid to the Board of Public Works, City Hall, for improvement of Shipley St. southwest from Fourth St., involving:

- (1) 275 lin. ft. armored conc. curb;
- (2) 1,788 sq. ft. 1-course conc. sidewalk.

The unit bids were: (1) \$0.90; (2) \$0.14.

BENTON COUNTY, Wash.—March Construction Co., 1925 W. Second Ave., Spokane, Wash., at \$23,769.50 for surfacing about 14.3 mi. of the Maryhill to Plymouth Road, Carley to Paterson in Benton County, was awarded the contract by State Director of Highways, Olympia, Washington.

COWLITZ COUNTY, Wash.—R. O. Dail, 2717 Simpson Ave., Aberdeen, Wash., at \$12,485 awarded contract by State Director of Highways, Olympia, Wash., for stockpiling about 16,700 cubic yards of 5 inch crusher run ballast for about 4 mi. of State Road No. 12, Longview to Coal Creek Slough, in Cowlitz County.

KING COUNTY, Wash.—Northwest Construction Co., 3950 6th Ave. N. E., Seattle, Wash., at \$93,000.38 awarded contract by State Director of Highways, Olympia, Wash., for grading and paving with Portland cement concrete about 3.9 mi. of the Seattle-Bothell Highway, Lake Forest Park to Bothell, U. S. Public Works Proj. No. NRM 91-B and NRM 91-C, in King County.

CLARK COUNTY, Wash.—Kern and Kibbe, 42 SE Salmon St., Portland, at \$49,394.51 awarded contract by the State Director of Highways, Olympia, for paving with portland cement concrete about 0.4 mile on Washington and 18th Sts., and widening about 1.2 miles on Main Street, State Road No. 1, in the city of Vancouver; U. S. Public Works Project No. NRM 147-E in Clark County.

PIERCE COUNTY, Wash.—Joslin & McAllister Co., Spokane, at \$63,702.00 submitted low bid to U. S. Bureau of Public Roads, W. H. Lynch, district engineer, 316 New Postoffice Building, Portland, for resurfacing the White River Road Project Nos. NR-2 B1, B2, B3 and applying oil rock on the Mt. Rainier National Park Road Project, Nos. NR-3A, B1, B2, B3, located within the Mt. Rainier National Park, Pierce County. The length of the project is approximately 15.515 miles.

Complete bids follow:

Joslin & McAllister, Spokane, \$63,702.50.

Homer G. Johnson, Portland, \$63,774.00.

March Const. Co., Portland, \$65,692.

Edlofson-Weygandt, Portland, \$69,588.70.

L. Romano Engr. Co., Seattle, \$72,811.00.

A. Milne, Portland, \$74,829.50.

F. G. Redmond, Yakima, \$86,118.35.

SNOHOMISH COUNTY, Wash.—J. D. Harms, 24 W. Mercer St., Seattle, at \$38,246.10 awarded contract by the U. S. Bureau of Public Roads, Portland, Oregon, for grading the South Fork Stillaquamish Project, NR-7-E, National Forest Road Project, Snoqualmie National Forest, Snohomish County, Washington.

SANTA CLARA COUNTY, Calif.—Until January 17, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for paving with asphalt concrete about one mile at Gilroy, in Santa Clara county, involving:

- (1) 1,000 cu. yds. rdwy. excav., unclassified;
- (2) 50 cu. yds. existing Port. cement conc. pave. to be removed and disposed of;
- (3) 31,000 sq. yds. existing asph. conc. surf. do;
- (4) 750 tons crusher run base;
- (5) 31,000 sq. yds. asph. paint binder;
- (6) 5,300 tons asphalt concrete;
- (7) 50 cu. yds. Class A Port. cement conc. pavement patches.

Plans and specifications obtainable at above office and are on file at the offices of the district engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

KING COUNTY, Wash.—Northwest Constr. Co., 3950 6th Ave. N.E., Seattle, Wash., at \$112,558.01 awarded contract by State Department of Highways, Olympia, Wash., for paving with Portland cement about 4.1 mi. of State Road No. 2, Renton to Seattle, U. S. Public Works Proj. No. NRM 142-H & NRM 142-H, in King County.

CHELAN COUNTY, Wash.—Myers & Goulter, 3227 First Ave., South, Seattle, Wash., at \$79,651.10 awarded contract by State Director of Highways, Olympia, Wash., for grading about 3.2 mi. of State Road No. 15, Old Cascade Tunnel to Berne, U. S. Public Works Project No. NRH 190-A, in Chelan County.

SAN GABRIEL, Cal.—E. L. Yeager, care W. E. Hall, 905 Westminster St., Alhambra, at \$6,129.85 awarded contract by the city council for improving portions of Longden Ave. and Pine St., under cash contract. Grading will be done by CWA labor. The items are:

- (1) 36,193 sq. ft. 2-in. asph. concrete;
- (2) 18,770 sq. ft. 4-in. asph. concrete;
- (3) 28,186 sq. ft. 6-in. asph. concrete.

Chas. N. Wright, city engineer, Pacific Electric Bldg., Los Angeles. Ira H. Steuffer, city clerk.

SPOKANE AND PEND OREILLE COUNTIES, Wash.—D. A. Sullivan & Co., Inc., and Materne Bros., P. O. Box 47, Spokane, Wash., at \$66,131 awarded contract by State Director of Highways, Olympia, Wash., for grading and surfacing about 6.3 mi. of State Road No. 6, Rogers Pass to West Branch Revision, and West Branch Revision to Bear Creek Revision, in Spokane and Pend Oreille Counties.

KITTITAS COUNTY, Wash.—Rumsey & Co., 3321 Airport Way, Seattle, Wash., at \$116,269.02 awarded contract by State Director of Highways, Olympia, Wash., for grading about 7.7 mi. of State Road No. 7, Alkali Lakes to Rock Canyon, in Kittitas County.

KING COUNTY, Wash.—Thomas Scalzo, 1829 Lane St., Seattle, Wash.,

at \$19,703.75 awarded contract by State Director of Highways, Olympia, Wash., for grading about 1 mile of State Road No. 5, Kent Bridge Approaches, in King County.

SKAGIT COUNTY, Wash.—L. J. Dowell, Inc., 1437 Elliott Ave., W., Seattle, Wash., at \$29,343.10 awarded contract by State Director of Highways, Olympia, Wash., for grading about 2.7 mi. of State Road No. 1 (Lake Samish Branch), Burlington North in Skagit County.

SKAGIT & WHATCOM COS., Wash.—Doolittle Bros., Inc., Woodinville, Wash., at \$32,767.20 awarded contract by State Director of Highways, Olympia, for surfacing about 9.2 miles of State Road No. 1 (Lake Samish Road Branch) between end of pavement and Lake Samish, Unit 3 of U. S. Public Works Project No. NRS 191-A, in Skagit and Whatcom counties.

LEWIS CO., Wash.—Hendricks and Co., Chehalis, at \$25,217.55 awarded contract by State Director of Highways Olympia, for grading and surfacing with crushed stone, and constructing a standard frame trestle 80 ft. long on about 3.9 miles of the county road between Riffe and Morton, U. S. Public Works Project No. NRS 198-A, in Lewis County.

CHELAN COUNTY, Wash.—James Coyle, 901 Westlake N., Seattle, Wash., at \$85,669.70 awarded contract by State Director of Highways, Olympia, Wash., for grading about 2.2 mi. of State Road No. 15, Berne East Extension in Chelan County.

SAN FRANCISCO—Eaton & Smith, 715 Ocean Ave., at \$2345.20 submitted only bid to Board of Public Works, City Hall, for improvement of Tucker Ave. between Alpha and Rutland Sts. Unit bids follow:

125 lin. ft. armored conc. curbs \$0.01

105 lin. ft. 6-in. VCP side sewer..... 0.01

752 sq. ft. Class E conc. pave..... 0.70

2595 sq. ft. asph. conc. pave..... 0.70

HUMBOLDT CO., Nev.—Utah Construction Co., Ogden, at \$107,965.13 submitted low bid and was awarded contract by the Department of Highways, Carson City, for constructing 15.14 miles of the state highway system in Humboldt County between 15 miles north of Orovida and the Nevada-Oregon state line. Geo. French, Jr., Stockton, Cal., at \$116,763.63 submitted second low bid. Complete bids will be published shortly.

NYE COUNTY, Nev.—Dodge Const. Co., Inc., Fallon, at \$84,287.42 submitted low bid and was awarded the contract by the Department of Highways Carson City, for constructing 14.19 miles of the state highway system in Nye county, between 7 miles northeast of Lockes and Callaways, Route 4, Section D-2. Utah Const. Co., Ogden, submitted second low bid at \$87,130.14. Complete bids will be published shortly.

SHASTA CO., Cal.—C. H. Sweetser, District Engineer, U. S. Bureau of Public Roads, 461 Market Street, San Francisco, has recommended that all bids received December 19 by the Bureau for placing crushed rock subgrade reinforcement on 4.488 miles of Sec. A of Route 75, Manzanita Lake National Forest Highway, Lassen National Forest, Shasta County, be rejected. The project probably will be re-advertised next spring.

E. B. Bishop, Forum Bldg., Sacramento, at \$41,150 submitted low bid.

WASHINGTON STATE.—Until Jan. 9, 1934, 10 A. M., bids will be received by Director of Highways, L. V. Morrow, Olympia, for highway construction, as follows:

King County

Grading about 1.0 mile of State Rd. No. 1, 4th Ave. south in the City of Seattle; Unit 1 of U. S. Public Works Proj. No. NRM 150-D, in King County, involving:

- (1) 80,210 cu. yds. special borrow;
- (2) 141 lin. ft. of pipe culverts;
- (3) miscellaneous items of work.

King County

Paving with portland cement concrete, 40 ft. width, about 1.5 miles of State Road No. 1, 4th Avenue south in the City of Seattle, Unit 2 of U. S. Public Works Project No. NRM 150-D, in King County.

Spokane County

Grading and paving with portland cement concrete or surfacing with crushed stone about 1.6 miles of State Road No. 2, Spokane west, in and adjoining the City of Spokane, U. S. Public Works Project No. NRH 156-C and NRM 156-D in Spokane County, involving:

- (1) 6 acres clearing;
- (2) 154,800 cu. yds. excavation;
- (3) 3,740 cu. yds. crushed stone surf.;
- (4) 19,630 sq. yds. pavement;
- (5) miscellaneous items of work.

Whitman County

Grading and surfacing with crushed stone about 6.8 miles of the Pullman to Moscow Road, Pullman to Idaho State line; U. S. Public Works Project No. NRS 204-A, in Whitman Co., involving:

- (1) 14.5 acres clearing;
- (2) 129,450 cu. yds. excavation;
- (3) 39,640 cu. yds. crushed stone surf.;
- (4) 257 cu. yds. concrete;
- (5) 2,012 lin. ft. pipe culverts;
- (6) 2 pile and timber trestles with a total length of 145 lin. ft.;
- (7) miscellaneous items of work.

Lincoln and Spokane Counties

Grading and surfacing about 6.1 mi. of State Road No. 11, Sprague to Cheney Revisions; U. S. Public Works Project No. NRH 133-D and NRH 20, in Lincoln and Spokane counties, involving:

- (1) 126,420 cu. yds. excav. and gravel borrow;
- (2) 15,580 cu. yds. crushed stone surf.;
- (3) 700 lin. ft. cable guard rail;
- (4) 1,222 lin. ft. pipe culverts;
- (5) miscellaneous items of work.

Plans and specifications obtainable from above office upon a deposit of \$2.00 for each set.

TRINITY COUNTY, Cal.—Hemstreet & Bell, 501 Eleventh St., Marysville, at \$111,523 awarded contract by State Highway Commission, Sacramento, for grading and treating with fuel oil about 2.3 mi. between 1.8 mi. west of Burnt Ranch and McDonald Creek, in Trinity County.

TEHAMA COUNTY, Cal.—Hein Bros. Basalt Rock Co., P. O. Box 162, Petaluma, at \$46,771 awarded contract by the State Highway Commission, Sacramento, for grading and paving with Portland cement concrete and bituminous treated crushed gravel or stone surfacing about 0.8 mile at Red Bluff, Tehama County.

APACHE & NAVAJO COS., Ariz.—Everly & Allison, Albuquerque, N. M., at \$46,682.50 awarded contract by the Bureau of Public Roads, Phoenix, for grading Section B-1 of Route 1, for grading all of Route 2, and for performing miscellaneous construction on Section A of Route 1, Petrified Forest National Monument, Apache and Navajo counties.

OAKLAND, Cal.—Oakland Board of Port Commissioners has applied to the CWA for \$306,500 to finance extensions and improvements of facilities at the Oakland municipal airport. The work involves resurfacing 850 acres, rock surface on part new unsurfaced, drainage, filling land, electrical work, etc.

MARICOPA AND PINAL COS., Arizona—Heafey-Moore Co. and J. A. Casson, Oakland, and Westward-Ho Hotel, Phoenix, second low bidders, have been awarded the contract by the Arizona State Highway Commission, Phoenix, at \$270,597 for highway construction on 25.8 mi. in Maricopa and Pinal Counties, Arizona.

The low bidders, Gogo & Rados, Los Angeles, were awarded the contract November 25, at \$239,239.90, but failed to furnish bond.

MONTEREY COUNTY, Cal.—Force Constr. Co., 70 Bellevue Ave., Piedmont, at \$136,965 awarded contract by State Highway Commission, Sacramento, for grading 3.1 miles between Big Sur and 1.6 miles south of Molears Ranch in Monterey County.

SAN MATEO COUNTY, Calif.—As previously reported, bids will be received until January 2, 2 P. M., by the Department of Public Works, Division of Highways, John H. Skeggs, Highway Engineer, Dist. No. IV, State Bldg., San Francisco, for grading, surfacing with crusher run base and applying bituminous treatment on about 0.26 mile in Daly City between School St. and Market St. The work involves:

- (1) 3000 cu. yds. rdwy. excav., unclassified;
- (2) 2150 tons crusher run base in place
- (3) 300 cu. yds. concrete, remove from existing sidewalks, curbs, floors;
- (4) 350 tons screenings in place;
- (5) 25 tons emulsified asphalt road oil in place;
- (6) 8 drop inlet or manhole covers and frames, remove and reset;
- (7) 1 drop inlet complete in place;
- (8) 100 cu. yds. Class A Portland cem. concrete in place (curbs, sidewalks).

Plans and specifications obtainable from above office.

MARCH FIELD, Riverside, Calif.—Mattich Bros., Elsinore, and George Gardner & Son, 45 E Cypress Avenue, Redlands, at \$44,980.90 submitted low bid to the Constructing Quartermaster, March Field, for oiling and grading additional area to Flight Mat, March Field. Specifications and plans No. W 6694-QM-34-17.

Complete bids follow:
 Mattich Bros. and Geo. Gardner & Son\$44,980.90
 Geo. F. Thompson, L. A. 48,583.64
 Miracle Co., L. A. 49,194.00
 P. J. Akmadzich, L. A. 51,100.10
 The contract was recommended for award to low bidder.

WASHINGTON STATE.—Until Jan. 9, 1934, 2 P. M., bids will be received by Director of Highways, L. V. Morrow, Olympia, for highway construction, as follows:

Pierce County

Widening with portland cement concrete about 4.1 miles of State Road No. 5, Pacific Ave., in the city of Tacoma; U. S. Public Works Project No. NRM 159-C, in Pierce County, involving:

- (1) 17,520 cu. yds. excavation;
- (2) 38,336 sq. yds. pavement;
- (3) 2,558 lin. ft. sewer and culvert pipe
- (4) miscellaneous items of work.

Grays Harbor County

Paving with portland cement con-

crete and/or retopping the existing pavement with an asphaltic surface, about 1.7 miles of State Road No. 9 in the city of Aberdeen; U. S. Public Works Project No. NRM 54-B and NRH 54-C, in Grays Harbor county, involving:

- (1) 22,100 cu. yds. excavation;
- (2) 18,251 sq. yds. pavement;
- (3) 4,632 lin. ft. cable guard rail, Design No. 5;
- (4) 1,095 tons asphaltic surfacing;
- (5) 868 lin. ft. sewer and culvert pipe;
- (6) miscellaneous items of work.

Cowlitz County

Paving with portland cement concrete about 1.9 miles of State Road No. 12, Longview west, in the city of Longview; U. S. Public Works Project No. NRH 167-G and NRM 167-H, in Cowlitz county.

Thurston County

Grading about 6.4 miles of State Rd. No. 1, Olympia to Nisqually, in Thurston county, involving:

- (1) 58 acres clearing;
- (2) 316,426 cu. yds. excavation;
- (3) 62 cu. yds. concrete;
- (4) 1935 lin. ft. pipe culverts;
- (5) miscellaneous items of work.

Yakima County

Grading about 12.7 miles of State Rd. No. 5, Oak Flat to Nelson's bridge in Yakima county, involving:

- (1) 354,810 cu. yds. excavation;
- (2) 1,188 cu. yds. concrete;
- (3) 10,200 cu. yds. rock riprap;
- (4) 10,044 lin. ft. pipe culverts;
- (5) miscellaneous items of work.

Plans and specifications obtainable from above office upon a deposit of \$2.00 for each set.

LOS ANGELES COUNTY, Cal.—Griffith Co., 502 L. A. Railway Bldg., Los Angeles, at \$129,445 awarded contract by State Highway Commission, Sacramento, for paving with asphalt concrete about 1.5 mi. in Grahm, Los Angeles County. 29

LOS ANGELES COUNTY, Cal.—Until January 17, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for grading and paving with asphalt concrete about 8.6 miles between Saugus and Williams Ranch in Los Angeles County. The work involves:

- (1) 455 sta. clear and grub right of way;
- (2) 23,000 cu. yds. rdwy. excav., unclassified;
- (3) 350,000 sta. yds. overhaul;
- (4) 3,500 cu. yds. imported borrow;
- (5) 500 cu. yds. struc. excav.;
- (6) 10,500 sq. yds. subgrade for pave.
- (7) 17,000 sq. yds. asph. paint binder;
- (8) 12,000 tons asph. concrete;
- (9) 4,050 bbls. fuel oil;
- (10) 8.61 miles prepare, mix and shape shoulders;
- (11) 10 cu. yds. Class A Port. cement concrete struc.;
- (12) 300 lbs. bar reinf. steel struc.;
- (13) 120 lin. ft. 18-in. CMP;
- (14) 24 lin. ft. 24-in. CMP;
- (15) 60 lin. ft. 30-in. CMP;
- (16) 100 cu. yds. conc. removed and disposed of;
- (17) 400 lin. ft. laminated timber guard rail;
- (18) 10 each culvert markers;
- (19) 455 sta. finish roadway.

Plans and specifications obtainable at above office and are on file at the offices of the district engineers at Los Angeles and San Francisco.

HUMBOLDT COUNTY, Cal.—Hemstreet & Bell, 501 Eleventh St., Marysville, at \$32,238 awarded contract by State Highway Commission, Sacramento, for grading and surfacing with screened gravel about 0.7 mi. between Smith Point and Twin Tree Bridge, Humboldt County.

UNIT BID SUMMARY

Compiled from the Daily News Service of Pacific Constructor

NON-COMM. OFFICERS' QTRS.—HAMILTON FIELD

HAMILTON FIELD, Marin Co., Cal.—William Spivoek, Hobart Bldg., San Francisco, at \$68,000 submitted low bid to Constructing Quartermaster, Hamilton Field for the construction of five double sets of non-commissioned officers' quarters at Hamilton Field. Complete bids follow:

- (A) William Spivoek, San Francisco, \$68,800.
- (B) Frank J. Reilly, San Francisco, \$73,415.
- (C) San Francisco Constr. Co., San Francisco, \$74,920.
- (D) H. L. Petersen, San Francisco, \$74,935.
- (E) John Moore, Oakland, \$77,484.
- (F) N. H. Sjoberg, San Francisco, \$78,140.

Alternate proposals follow:

- (1) Work complete for fire double seth of N. C. O. quarters Type "C" including all utilities;
- (2) If one set of N. C. O. quarters is added or omitted;
- (3) If textured finish plaster in double sets of N. C. O. quarters is omitted and in lieu is installed Gypsum Plaster, deduct;
- (4) If tile wainscot and accessories

for baths in double quarters are omitted and in lieu is installed tile base, Keene cement plaster wainscot and chromium plated accessories, deduct;

- (5) Excavation (unclass.), per cu. yd.
- (6) Overhaul beyond free haul of 300 ft. per sta. yd.;
- (7) Concrete (type "A" incl. forms), per cu. yd.;
- (8) Concrete (Type "B" incl. forms), per cu. yd.;
- (9) Reinforcing steel, per ton;
- (10) Brick in walls, 4-in. thick, per sq. ft.;
- (11) Brick in walls, 8-in. thick, per sq. ft.;
- (12) 4-in. partition tile, in place, per sq. ft.;
- (13) 8-in. partition tile, in place, per sq. ft.;
- (14) linoleum floors (installed) per sq. ft.;
- (15) Sound insulation board (installed), per sq. ft.;
- (16) Roofing tile (in place) per 100 sq. ft.;
- (17) Concrete stops (7 riser and 1 tread, incl. reinf. steel, in place) per lin. ft.

	(A)	(B)	(C)	(D)	(E)	(F)
(1).....	\$68,800.00	\$73,415.00	\$74,920.00	\$74,935.00	\$77,484.00	\$78,140.00
(2).....	13,900.00	14,000.00	15,284.00	14,987.00	15,497.00	15,220.00
(3).....	20.00			50.00	10.00	10.00
(4).....	110.00	25.00	100.00	30.00	90.00	115.00
(5).....	.30	.30	1.00	.50	.45	.65
(6).....	.05	.01	.02	.50	.015	.05
(7).....	12.00	16.00	12.50	10.50	15.00	14.00
(8).....	12.50	18.00	14.50	12.00	16.00	15.00
(9).....	80.00	90.00	84.00	85.00	84.00	90.00
(10).....	.30	.24	.22	.22	.22	.25
(11).....	.55	.46	.41	.41	.41	.50
(12).....	.20	.18	.16	.16	.16	.20
(13).....	.38	.34	.31	.31	.34	.40
(14).....	1.90	2.50	1.50		2.25	2.50
(15).....	.07	.10	.08	.12	.03	.075
(16).....	22.00	26.00	21.00	19.00	20.00	18.50
(17).....	1.25	3.00	1.00	.90	.60	1.00

BIDS OPENED

MENDOCINO COUNTY, Cal.—Nevis & Harp, 891 Harrison St., Santa Clara, at \$46,766.20 submitted low bid to the State Highway Commission, Sacramento, for construction of a steel through truss bridge across South Fork Eel River, 65 miles north of Willits (1-Men-1-K), consisting of two 183-ft. spans founded on the pier and abutments of an existing bridge in Mendocino County, involving:

- (1) 5000 cu. yds. roadway excav.;
 - (2) 24 M.B.F.M. timber (detour bridge);
 - (3) 1 only remove exist. bridge;
 - (4) 110 cu. yds. remove concrete;
 - (5) 95 cu. yds. Class A Port. cement concrete;
 - (6) 4400 lbs. bar reinf. steel;
 - (7) 554,000 lbs. struc. steel;
 - (8) 5210 lbs. cast steel;
 - (9) 65 M.B.F.M. redwood timber, dense select, all-heart struc. grade;
 - (10) 1 lot miscellaneous items of work
- Complete bids follow:
- (A) Nevis & Harp, Santa Clara, \$46,766.20.
 - (B) M. B. McGowan, San Francisco, \$47,958.
 - (C) W. J. Tobin, Oakland, \$50,871.60.
 - (D) Lynch-Cannon Engineering Co., Los Angeles, \$52,256.

Unit bids follow:

	(A)	(B)	(C)	(D)
(1) \$	.40	.50	.30	.60
(2)	60.00	70.00	55.00	75.00
(3)	1250.00	3500.00	1100.00	3000.00
(4)	5.00	10.00	12.00	5.00
(5)	15.00	25.00	28.00	25.00
(6)	.065	.06	.065	.06
(7)	.06	.05	.063	.0615
(8)	.12	.10	.16	.10
(9)	70.00	100.00	100.00	95.00
(10)	1400.00	1818.00	450.00	500.00

BIDS OPENED

MENDOCINO COUNTY, Cal.—Hein Bros. Basalt Rock Co., P. O. Box 162, Petaluma, at \$67,627.30 submitted low bid to State Highway Commission at Sacramento for grading and surfacing with crushed run base and untreated crushed gravel or stone surfacing and treat with fuel oil about 0.7 mile at Rattlesnake Creek in Mendocino county.

Complete bids follow:

- (A) Hein Bros. Basalt Rock Co., Petaluma, \$67,627.30.
- (B) W. J. Tobin, Oakland, \$69,243.25.
- (C) Hemstreet and Bell, Marysville, \$72,968.45.
- (D) Coats Const. Co., and M. A. Jenkins, Sacramento, \$78,945.00.
- (E) Union Paving Co., San Francisco \$94,114.50.

Quantities follow:

- (1) 7 acres clear and grub right of way;
- (2) 44,800 cu. yds. rdwy. excav., unclassified;
- (3) 128,200 sta. yds. overhaul;
- (4) 1,930 cu. yds. struc. excav.;
- (5) 770 cu. yds. backfill cribs;
- (6) 500 cu. yds. backfill trenches;
- (7) 4,460 cu. yls. crusher run base;
- (8) 1,530 cu. yds. untreated crushed gravel or stone surfacing;
- (9) 105 bbls. heavy fuel oil;
- (10) 310 cu. yds. screenings stockpiles;
- (11) 825 M. gals. water;
- (12) 37 cu. yds. Class A Port. cement concrete struc.;
- (13) 70 cu. yds. Class B Port. cement concrete bridge;
- (14) 3,920 lbs. bar reinf. steel, struc.;
- (15) 80 lin. ft. 8-in. CMP;
- (16) 386 lin. ft. 18-in. CMP;
- (17) 96 lin. ft. 24-in. CMP;

CALAVERAS COUNTY — TWO BRIDGES — (STATE)

CALAVERAS COUNTY, Cal.—C. A. Baker and J. W. Hoopes, 5140 14th St., Sacramento, at \$21,346 submitted low bid to the State Highway Commission, Sacramento, for constructing two bridges between 6 and 7 miles south of San Andreas; one across San Antonio Creek consisting of five 30-ft. steel stringer spans on concrete piers and abutments, and the other across San Domingo Creek, consisting of five 30-ft. steel stringer spans on concrete piers and abutments, involving:

- (1) 275 cu. yds. struc. excav.;
- (2) 95 cu. yls. Class A Port. cement concrete footing blocks;
- (3) 475 cu. yds. Class A Portland cement concrete;
- (4) 57,000 lbs. bar reinf. steel;
- (5) 110,000 lbs. struc. steel;

- (6) 1,200 lbs. cast steel;
- (7) 685 lin. ft. solid timber railing;
- (8) 150 cu. yds. light riprap;
- (9) 1 lot misc. items of work.

Complete bids were:

- (A) C. A. Baker and J. W. Hoopes, Sacramento, \$21,346.
- (B) Poulson & McEwen, Sacramento \$22,511.
- (C) F. O. Bohnett, Campbell, \$22,791.
- (D) Fredrickson & Watson, Oakland, \$23,124.
- (E) Baldwin & Butler, Berkeley, \$23,273.50.
- (F) M. B. McGowan, San Francisco, \$23,427.00.
- (G) Nelson & Wallace, Escalon, \$24,695.50.
- (H) Holdener Const. Co., Sacramento \$25,608.00.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
(1)	\$ 2.20	\$ 1.50	\$ 2.50	\$ 2.50	\$ 2.00	\$ 2.60	\$ 2.50	\$ 3.50
(2)	13.00	12.50	15.00	15.50	11.50	10.00	14.00	18.00
(3)	15.25	20.25	18.00	20.00	20.00	19.00	21.00	22.60
(4)	.048	.045	.05	.047	.05	.05	.05	.05
(5)	.052	.051	.05	.05	.0525	.058	.055	.0525
(6)	.22	.13	.25	.20	.17	.20	.14	.25
(7)	.85	1.25	1.10	1.00	1.00	1.20	1.00	1.30
(8)	5.00	2.50	3.00	3.00	2.50	3.00	6.00	3.00
(9)	650.00	200.00	775.00	410.00	667.00	255.00	400.00	360.00

- (18) 750 lin. ft. 8-in. perf. metal pipe underdrain;
- (19) 24 lin. ft. C.M.I. clean and relay;
- (20) 550 lin. ft. 8-in. perf. metal pipe, remove and salvage;
- (21) 4 each spillway assemblies complete in place;
- (22) 75 each timber guide posts and culvert markers comp. in place;
- (23) 43 MFBM dense select all-heart struc. grade redwood timber truss;
- (24) 100 MFBM do, timber superstruc.
- (25) 25 MFBM select all-heart struc. grade redwood timber cribs;
- (26) 36.5 MFBM do, timber cribs;
- (27) 6,225 lbs. cast steel;
- (28) 1 lot misc. items of work, bridge;
- (29) 36 sta. yds. finish roadway;
- (30) 24 each monuments complete in place.

Unit prices follow:

	(A)	(B)	(C)	(D)	(E)
(1)	\$195.00	\$125.00	\$150.00	\$300.00	\$300.00
(2)	.36	.29	.50	.55	.80
(3)	.006	.01	.01	.01	.01
(4)	1.60	2.00	2.00	1.50	2.00
(5)	1.50	.80	1.00	1.00	.60
(6)	2.40	.80	2.00	2.60	.60
(7)	2.60	2.40	2.00	2.60	2.85
(8)	2.36	2.60	3.00	2.75	3.30
(9)	4.95	5.00	4.50	3.50	4.50
(10)	4.00	3.10	4.60	3.00	3.60
(11)	1.50	1.50	1.50	2.00	3.40
(12)	26.75	23.00	27.50	19.00	29.00
(13)	25.90	23.00	20.00	16.00	27.00
(14)	.06	.07	.07	.055	.08
(15)	1.00	1.00	1.00	1.00	1.10
(16)	1.90	1.90	1.65	1.70	2.00
(17)	2.70	2.50	2.40	2.70	3.00
(18)	1.10	1.10	1.10	1.00	1.30
(19)	.50	.55	1.00	1.00	1.10
(20)	.50	.30	1.00	1.00	.40
(21)	15.00	18.00	20.00	15.00	23.00
(22)	2.00	1.50	2.50	2.00	2.80
(23)	110.00	160.00	100.00	160.00	134.00
(24)	96.00	125.40	100.00	90.00	92.00
(25)	88.00	94.00	100.00	97.00	101.00
(26)	68.00	89.00	70.00	70.00	81.00
(27)	.14	.15	.15	.12	.14
(28)	150.00	447.00	300.00	600.00	350.00
(29)	5.00	11.00	5.00	10.00	12.00
(30)	3.00	3.00	3.00	3.00	3.00

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BIDS OPENED

SAN FRANCISCO.—Eaton & Smith 715 Ocean Ave., at \$998.50 submitted low bid to Board of Public Works, City Hall, for improvement of crossing at Jarboe Ave. and Putnam St., involving:

- (1) 110 cu. yds. excavation;
- (2) 32 lin. ft. 8-in. VCP sewer in place
- (3) 1 brick manhole, complete;
- (4) 2 brick catchbasins, complete;
- (5) 35 lin. ft. 10-in. VCP culvert in place;
- (6) 60 lin. ft. armored conc. curb;
- (7) 240 sq. ft. 1-course sidewalk;
- (8) 1,739 sq. ft. asph. conc. pave.

Complete bids follow:

(A) Eaton & Smith.....	\$ 998.50
(B) E. J. Treacy.....	1111.00
(C) C. L. Harney.....	1162.25

Unit bids follow:

	(A)	(B)	(C)
(1)	\$.50	\$ 1.00	\$ 1.00
(2)	1.50	1.00	2.00
(3)	80.00	75.00	100.00
(4)	80.00	70.00	100.00
(5)	1.50	1.50	1.75
(6)80	1.00	1.00
(7)15	.15	.20
(8)30	.35	.30

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BIDS OPENED

SAN FRANCISCO.—Eaton & Smith 715 Ocean Ave., at \$2287.64 submitted low bid to Board of Public Works, for improvement of Carolina Street, 22nd to 23rd Sts., involving:

- (1) 578 lin. ft. unarmored conc. curb;
- (2) 1,650 sq. ft. 1-course conc. sidewalk;

- (3) 3,000 sq. ft. 6-in. Class E concrete pavement;
 - (4) 3,462 sq. ft. asph. conc. pave.
- Complete bids follow:
- | | |
|------------------------|-----------|
| (A) Eaton & Smith..... | \$2287.64 |
| (B) E. J. Treacy..... | 2691.96 |
- Unit bids follow:
- | | (1) | (2) | (3) | (4) |
|-----------|--------|--------|--------|--------|
| (A) | \$1.00 | \$0.12 | \$0.25 | \$0.22 |
| (B) | 1.00 | 0.15 | 0.15 | 0.33 |

BIDS OPENED

SAN FRANCISCO.—Eaton & Smith 715 Ocean Ave., at \$4172.60 submitted low bid to Board of Public Works, City Hall, for improvement of Laidley St. between Fairmount and Miguel Sts., involving:

- (1) 1,028 lin. ft. armored conc. curb;

- (2) 305 lin. ft. 18-in. armored conc. curb;
 - (3) 4,350 sq. ft. 1-course conc. sidewalk;
 - (4) 13,150 sq. ft. asph. conc. pave.;
 - (5) 290 sq. ft. asph. conc. pave., removed.
- Complete bids follow:
- | | |
|-----------------------------|-----------|
| (A) Eaton & Smith..... | \$4172.60 |
| (B) E. J. Treacy..... | 4230.86 |
| (C) Fay Improvement Co..... | 4469.27 |
| (D) C. L. Harney..... | 4855.54 |
| (E) M. J. Lynch..... | 5111.70 |
- Unit bids follow:
- | | (A) | (B) | (C) | (D) | (E) |
|-----------|--------|--------|--------|--------|--------|
| (1) | \$.70 | \$.72 | \$.61 | \$.75 | \$.90 |
| (2) | .80 | .60 | .90 | 1.00 | .90 |
| (3) | .12 | .095 | .12 | .16 | .13 |
| (4) | .20 | .215 | .222 | .24 | .25 |
| (5) | .25 | .30 | .25 | .30 | .25 |

LOS ANGELES COUNTY — BRIDGE — (STATE)

LOS ANGELES COUNTY, Cal. — Joseph Maiser, 1241 W. 97th St., and D. J. Reed, 6348 Colgate Ave., Los Angeles, at \$27,458 submitted low bid to State Highway Commission, Sacramento, for constructing a bridge across Ramona Blvd. at Corneww St. (VII-L.A.-26-L.A.), in Los Angeles City, consisting of two reinforced concrete slab spans approximately fifty feet in length and two timber spans approximately nineteen feet in length and grading and surfacing the roadway approach with crushed rock and oil, involving:

- (1) remove and dispose of portions of existing bridge;
- (2) 2,250 cu. yds. rdwy. excav., unclassification;
- (3) 750 cu. yds. struc. excavation;
- (4) 855 cu. yds. Class A Portland cement concrete struc.;
- (5) 14 cu. yds. do. sidewalks;
- (6) 17 cu. yds. do. curbs and gutters;
- (7) 50 cu. yds. Class C Portland cement concrete;

- (8) 20 cu. yds. Class E Portland cement concrete orna. railing;
- (9) 162,000 lbs. bar reinf. steel;
- (10) 6.5 MFBM salvaged timber;
- (11) 9.5 MFBM cressed Douglas fir timber;
- (12) 105 tons rock and oil surface;
- (13) 73 tons asphalt concrete, type A surface;
- (14) 1 lot sanitary sewers;
- (15) 1 lot storm drains.

Complete bids follow:

- (A) Joseph Maiser and D. J. Reed, Los Angeles, \$27,458.
- (B) Andy Sordal, Long Beach, \$28,489.67.
- (C) Jerome K. Doolan, Pasadena, \$28,612.50.
- (D) R. H. Travers, Los Angeles, \$31,035.
- (E) Everts & Dunn, Los Angeles, \$31,895.50.
- (F) Herbert M. Baruch Corp., Los Angeles, \$32,445.

Unit bids follow:

	(A)	(B)	(C)	(D)	(E)	(F)
(1)	\$1000.00	\$1124.00	\$715.00	\$350.00	\$3350.00	\$1000.00
(2) .....	.35	.42	.65	.45	.27	1.00
(3)	1.00	1.06	2.50	1.50	1.00	2.00
(4)	17.00	16.00	17.60	20.00	19.00	20.10
(5)	10.00	16.30	12.00	12.00	12.00	9.00
(6)	10.00	16.30	30.00	12.00	13.00	18.00
(7)	8.00	10.80	10.00	18.00	9.00	6.00
(8)	50.00	63.00	35.00	70.00	60.00	47.00
(9) .....	.038	.044	.035	.04	.04	.04
(10)	40.00	36.41	20.00	25.00	35.00	42.00
(11)	80.00	73.50	87.00	95.00	95.00	114.00
(12)	3.25	3.35	4.40	3.50	3.00	5.60
(13)	3.50	3.66	4.00	6.00	4.00	4.50
(14)	600.25	885.72	500.00	300.00	500.00	190.00
(15)	500.00	339.16	200.00	350.00	400.00	180.00

ROADS, CURBS, ETC.—GOVT.—FORT MASON

FORT MASON, Cal.—E. J. Treacy, Call Bldg., San Francisco, at \$5999 submitted low bid to the Constructing Quartermaster, Fort Mason, for constructing roads, curbs, walls, gates, etc., at the San Francisco National Cemeery, Presidio of San Francisco.

Complete bids follow:

- (A) E. J. Treacy, San Francisco, \$5999
- (B) Pacific States Constr. Co., San Francisco, \$6200.
- (C) Theo. Cohn, San Francisco, \$6347.
- (D) A. J. Raisch, San Francisco, \$7233
- (E) Fay Improvement Co., San Francisco, \$7298.
- (F) Ariss-Knapp Co., Oakland, \$9450.

- I Job complete;
- II Deduction if the U. S. performs the grading, removal of walls, curbs, and trees;

III Unit prices;

- (1) per sq. ft. asph. conc. pave. inc 8-in. sub-base and 3/4-in. pave.;
- (2) per sq. ft. emulsified asph. wearing coat;
- (3) per lin. ft. concrete curb;
- (4) per cu. yd. conc., inc. forms;
- (5) per cwt. reinforcement;
- (6) per lin. ft. 6-in. T. c. sewer pipe;
- (7) per lin. ft. do.;
- (8) per lin. ft. 3-in. galv. steel pipe.

	(A)	(B)	(C)	(D)	(E)	(F)
(1)	\$5999.00	\$6200.00	\$6347.00	\$7233.00	\$7298.00	\$9450.00
(II)	75.00	325.00	200.00	780.00	665.00	1100.00
(III) (1) .....	.12	.145	.15	.15	.12	.15
(2) .....	.0375	.035	.04	.035	.04	.05
(3) .....	.50	.50	.55	.50	.58	.50
(4)	15.00	18.00	16.00	20.00	18.00	13.00
(5)	4.00	5.50	5.00	5.00	5.00	.045
(6) .....	.75	.45	.75	1.00	.75	.85
(7)	1.00	.54	1.00	1.00	.90	.95
(8) .....	.30	.50	1.00	1.00	1.00	.15

BIDS OPENED

LOS ANGELES COUNTY, Calif.—Byerts & Dunn, 7908 Santa Monica Blvd., Los Angeles, at \$77,486 submitted low bid to State Highway Commission, Sacramento, for grading and paving about 0.6 mile with Portland cement concrete in Los Angeles between State Street and Pickett St., (VIII-L.A.-26-L.A.):

- Complete bids follow:
 (A) Byerts & Dunn, Los Angeles, \$77,486.00.
 (B) Southern California Roads Co., Los Angeles, \$83,077.50.
 (C) Griffith Co., Los Angeles, \$86,109.
 (D) Oswald Bros., Los Angeles, \$125,343.25.

- Unit quantities follow:
 (1) 34 sta. clear and grub right-of-way;
 (2) 58,000 cu. yds. rdwy. excav. unclassified;
 (3) 14,500 sq. yds. subgrade for pave.;
 (4) 3050 cu. yds. Class A Port. cem. concrete pavement;
 (5) 550 cu. yds. Class A Port. cem. concrete curbs, gutters, sidewalks and pier guards;
 (6) 275 cu. yds. Class A Port. cement concrete drain ditch;
 (7) 55,000 sq. ft. gunitite ditch lining;
 (8) 90,000 lbs. bar reinf. steel pave. strucs., curbs and gutters;
 (9) 1650 lin. ft. 6-in. plain conc. or vitrified clay pipe;
 (10) 1150 lin. ft. 8-in. plain conc. or vitrified clay pipe;
 (11) 50 lin. ft. 12-in. plain cons. do;
 (12) 24 lin. ft. 15-in. plain do;
 (13) 375 lin. ft. 18-in. plain do;
 (14) 130 lin. ft. 24-in. centrifugally cast concrete pipe;
 (15) 700 tons broken stone or gravel;
 (16) 8 each curb special catchbasins;
 (17) 8 each curb drainage openings;
 (18) 5 each sub-drain outlet boxes;
 (19) 100 bbls. light fuel oil subgrade treatment;
 (20) 25 tons asphaltic road oil subgrade treatment;
 (21) 450 bbls. heavy fuel oil shoulders
 (22) 1 only existing electric sub-station to be demolished and disposed of;
 (23) 3100 lin. ft. eable guard rail;
 (24) 34 stations finishing roadway.

Unit prices follow:

	(A)	(B)	(C)	(D)
(1).....	\$ 15.00	\$ 5.00	\$ 10.00	\$ 30.00
(2).....	.20	.36	.45	.80
(3).....	.15	.09	.10	.10
(4).....	6.75	7.20	7.20	8.19
(5).....	15.00	13.00	11.60	12.50
(6).....	15.00	11.00	11.40	17.70
(7).....	.17	.23	.21	.26
(8).....	.045	.05	.04	.05
(9).....	.50	.30	.48	.45
(10).....	.70	.35	.62	.55
(11).....	1.25	1.50	1.15	1.35
(12).....	1.50	1.50	1.25	1.75
(13).....	2.00	2.00	1.90	2.15
(14).....	5.00	4.00	3.75	4.50
(15).....	2.50	2.75	2.20	2.70
(16).....	50.00	70.00	47.50	200.00
(17).....	10.00	12.00	5.00	18.00
(18).....	30.00	25.00	9.00	50.00
(19).....	2.00	2.20	1.95	2.30
(20).....	20.00	18.00	17.00	24.00
(21).....	3.00	2.30	2.35	3.00
(22).....	6000.00	1500.00	1500.00	7000.00
(23).....	1.00	1.00	1.10	1.65
(24).....	5.00	4.00	6.00	4.50

BIDS OPENED

MODOC COUNTY, Cal.—A. Milne, 1853 E. Broadway, oruand, Oregon, at \$84,806.75 submitted low bid to the Bureau of Public Roads, 807 Sheldon Bldg., San Francisco, for placing a crushed rock base course on Section B of Route 11, the Lava Beds National Forest Highway, Modoc National Forest in Modoc County, involving:

- (1) 1000 cu. yds. unclassified;
 (2) 12,045 ml. fine grading, subgrade and shoulders;
 (3) 2200 M. gals watering;
 (4) 10,000 tons crushed rock base course in place;

- (5) 1300 tons supplem. cru. rock;
 (6) 63,500 gals. liquid asph. rd. material;
 (7) 23,400 tons stockpiling cru. rock base course;
 (8) 23,400 tons placing stockpiled cru. rock base course.

Complete bids follow:
 (A) A. Milne, Portland, Ore., \$84,806.75
 (B) Hlemstreet & Bell, Marysville, \$85,604.
 (C) Larsen Bros., Sacramento and Hein Bros. Basalt Rock Co., Petaluma, \$95,509.
 (D) Engineer's Estimate, \$84,798.50.

Unit prices follow:

	(A)	(B)	(C)	(D)
(1).....	\$.75	\$.40	\$.50	\$.65
(2).....	150.00	200.00	200.00	300.00
(3).....	3.00	2.00	3.50	2.00
(4).....	2.00	2.00	2.20	1.80
(5).....	2.00	1.90	2.10	1.70
(6).....	.08	.07	.10	.07
(7).....	1.65	1.60	1.60	1.30
(8).....	.40	.60	.70	.90

Award recommended to low bidder, C. H. Sweester, District Engineer.

TULARE COUNTY, Cal.—Until January 17, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for grading and paving with asphalt concrete about 8.1 miles between Visalia and Merryman, in Tulare County, involving:
 (1) Clearing and grubbing;
 (2) 20,000 cu. yds. rdwy. excav.;
 (3) 105,000 cu. yds. import. borrow;
 (4) 3500 cu. yds. struc. excav.;
 (5) 15,000 sta. yds. overhaul;
 (6) 24,000 tons crusher run base;
 (7) 29,500 tons asphalt concrete;
 (8) 4200 sq. yds. asph. paint binder;
 (9) 430 cu. yds. Portland cem. conc. Class A strucs.;

- (10) 460 cu. yds. remove and dispose of Portland cem. conc. and brick in pavement and strucs.;
 (11) 20 cu. yds. drainage sumps;
 (12) 32,000 lbs. bar reinf. steel;
 (13) 0.2 ml. new property fence;
 (14) 8.0 mi. resent property fence;
 (15) 60 each culvert markers;
 (16) 110 each guide posts;
 (17) 9 each concrete joints;
 (18) 4700 bbls. heavy fuel oil shoulders
 (19) 600 bbls. light fuel oil tack coat;
 (20) 45 each gates;
 (21) 5000 M. gals. water;
 (22) 430 sta. mix. oil on detours and shoulders;
 (23) 975 lin. ft. conc. pipe slean and relay;
 (24) 540 lin. ft. laminated timber guard rail;
 (25) 24 lin. ft. CMP clean and relay;
 (26) 1346 lin. ft. 12-in. CMP;
 (27) 784 lin. ft. 18-in. CMP;
 (28) 20 lin. ft. 24-in. CMP;
 (29) 124 lin. ft. 24-in. CMP siphon close riveted and soldered;
 (30) 72 lin. ft. 30-in. CMP siphon close riveted and soldered;
 (31) 144 lin. ft. 36-in. CMP;
 (32) 932 lin. ft. part circle culverts;
 (33) 430 sta. finish rdwy.;
 (34) 48 each monuments complete in place.

Plans and specifications obtainable from above office and on file at the offices of the District Engineers at Los Angeles and San Francisco, and at the district in which the work is situated.

SANTA BARBARA CO., Calif.—Until January 17, 2 P. M., bids will be received by the State Highway Commission, Sacramento, for grading and paving with asphalt concrete on a Portland cement concrete base about 2.7 miles between Mission Street and Hollister Ave. in Santa Barbara, involving:

- (1) 68 sta. clear and grub right of way;
 (2) 121,450 cu. yds. rdwy. excav., unclassified;
 (3) 1,280,100 sta. yds. overhaul;

- (4) 21,000 cu. yds. select material;
 (5) 2,665 cu. yds. struc. excav.;
 (6) 46,850 sq. yds. subgrade for pave.
 (7) 49,200 sq. yds. asph. paint binder;
 (8) 8,200 cu. yds. Port. cem. conc. pavement;
 (9) 7,675 tons asph. conc.;
 (10) 480 tons crusher run base;
 (11) 250 tons broken stone bit. macadam;
 (12) 15 tons asph. road oil bit. macadam;
 (13) 647 cu. yds. Class A Port. cement concrete struc.;
 (14) 61,100 lbs. bar reinf. steel;
 (15) 168 lin. ft. 8-in. CMP;
 (16) 904 lin. ft. 18-in. CMP;
 (17) 66 lin. ft. 24-in. CMP;
 (18) 170 lin. ft. 36-in. CMP;
 (19) 5 each drop inlet frames and covers complete in place;
 (20) 8 each spillway assemblies;
 (21) 423 sq. yds. paved gutters and inlet aprons;
 (22) 68 cu. yds. conc. remove and dispose of;
 (23) 5,065 lin. ft. laminated timber guard rail;
 (24) 113 each timber guide posts;
 (25) 21 each timber culvert markers;
 (26) 4.7 miles property fences;
 (27) 18 each fence gates;
 (28) 1,170 M. gals. water;
 (29) 1,915 bbls. fuel oil;
 (30) 145 sta. prepare, mix and shape shoulders;
 (31) remove existing bridge;
 (32) 141 sta. finish roadway;
 (33) 61 each monuments complete in place.

Plans and specifications obtainable at above office, and are on file at the office of the district engineers at Angeles and San Francisco, and at the district in which the work is situated.

WILLOW GLEN, Cal.—Until Jan. 2, 7:30 P. M., bids will be received by the city council of Willow Glen for constructing Portland cement concrete curbs and gutters, together with driveways and sidewalks on both sides of Lincoln Avenue, involving approximately 4,000 lin. ft. of concrete curbs and gutters.

Plans and specifications on file at the office of the city clerk, Dana Thomas, H. N. Bishop, city engineer.



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RAY MAXWELL, Manager

HOTEL PLAZA
 POST STREET AT STOCKTON
 SAN FRANCISCO

CACHE COUNTY, UTAH — HYRUM DAM — (GOVT.)

CACHE COUNTY, Utah.—Terteling & Sons, Boise, a \$337,211 (as previously reported) submitted low bid to U. S. Bureau of Reclamation, Ogden, for the construction of Hyrum Dam, Cache Valley division, Salt Lake Basin Project, in Cache County; Spec. No. 552. The work is located near Hyrum, Utah on the Oregon Short Line R. R.
Complete bids follow:

- (A) J. A. Terteling & Sons, Boise, \$337,211.00.
 - (B) Utah Const. Co., Ogden, \$377,013.25.
 - (C) The Hinman Bros. Const. Co., Denver, \$378,143.00.
 - (D) Max J. Kuncy, Spokane, \$395,067.00.
 - (E) Hanrahan Co. and Gist & Bell, San Francisco, \$436,462.00.
 - (F) Broderick & Gordon, Denver, \$436,891.00.
 - (G) Olof Nelson, Logan, Utah, \$485,230.50.
 - (H) Fredrickson & Watson Const. Co. and The Kaiser Co., Oakland \$487,451.15.
 - (I) Edward Peterson, Omaha, and L. T. Lawler, Butte, \$549,253.50.
- Unit items follow:
- (1) lump sum diversion and care of river during construction & unwatering foundations;
 - (2) 35,000 cu. yds. stripping for embankments;
 - (3) 750 cu. yds. excavation in open cut for tunnel inlet and outlets;
 - (4) 3,000 cu. yds. excav. for tunnels and shaft;
 - (5) 4,000 cu. yds. excavation for toe drains and cut-off trench;

- (6) 250 cu. yds. excav. for concrete cut-off wall;
- (7) 40,000 cu. yds. excav. for spillway;
- (8) 4,000 cu. yds. excav. for road.
- (9) 1,000 cu. yds. backfill about struc.
- (10) 380,000 cu. yds. excav., common, in borrow pits;
- (11) 40,000 excav. rock in borrow pits;
- (12) 350,000 cu. yds. earth fill in embankments;
- (13) 62,000 cu. yds. rock fill on downstream slope of dam;
- (14) 10,500 cu. yds. dumped riprap on upstream slopes of dam and dike
- (15) 30,000 cu. yds. gravel sluiced into riprap and rock fill;
- (16) 1,990 cu. yds. gravel on downstream slope of dike;
- (17) 300 screened gravel under spillway floor;
- (18) 450 lin. ft. construct 12-in. dia. clay pipe drains;
- (19) 3,500 lin. ft. const. 8-in. do;
- (20) 300 lin. ft. const. 6-in. do;
- (21) 200 lin. ft. const. 4-in. do;
- (22) 160 lin. ft. const. 6-in. dia. cast-iron pipe drains;
- (23) 300 lin. ft. const. wooden V drains about gate chamber;
- (24) 1,250 lin. ft. drilling grout holes;
- (25) 600 lbs. install grout pipe and fittings;
- (26) 600 cu. ft. pressure grouting;
- (27) 600 cu. yds. concrete in cut-off wall;
- (28) 50 cu. yds. concrete in trash rack struc. and transition;
- (29) 130 cu. yds. reinf. conc. in circular tunnel;
- (30) 320 cu. yds. plain conc. in circular tunnel;
- (31) 535 cu. yds. concrete in horse-

- shaped tunnel.
- (32) 150 cu. yds. conc. in gate chamber
- (33) 155 cu. yds. conc. in tunnel outlet
- (34) 13 cu. yds. conc. in control house;
- (35) 210 cu. yds. conc. in parapet and curb walls;
- (36) 1,600 cu. yds. concrete in spillway upstream from Sta. 2;
- (37) 2,300 cu. yds. conc. in spillway downstream from Sta. 3;
- (38) 10 cu. yds. concrete in road struc.
- (39) 400,000 lbs. place reinf. bars;
- (40) 52,800 lbs. furnish and install steel tunnel liner plates;
- (41) lump sum construct control house except concrete;
- (42) 46 lin. ft. lay 3-in. dia. cast iron pipe to outlet float wells;
- (43) 200 cu. yds. rubble conc. paving;
- (44) 225 sq. yds. grouted paving;
- (45) 125 lin. ft. placing 18-in. diameter corr. metal pipe;
- (46) 780 cu. yds. gravel road surf.;
- (47) 114 sq. yds. lay asph. wear. surf. on floor of spillway bridge;
- (48) 2,250 lin. ft. construct timber gd. rails;
- (49) 55,000 lbs. install radial gates and operating mechanisms;
- (50) 65,000 bs. install high pressure hydraulically operated gates and metal conduit linings;
- (51) 80,000 lbs. install outlet pipes;
- (52) 22,000 lbs. install metal walkway and stairways;
- (53) 15,000 install trash rack metal work;
- (54) 12,000 install standard pipe, fittings and valves;
- (55) 2,000 lin. ft. install elec. conduits;
- (56) lump sum install do.

Unit prices follow:

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
	\$2000.00	\$3000.00	\$7500.00	\$4000.00	\$4500.00	\$5766.00	\$2000.00	\$8000.00	\$3000.00
(1).....	.30	.45	.60	.50	1.10	1.50	1.00	1.10	1.50
(2).....	.75	1.00	.75	.50	1.00	1.00	1.00	1.10	1.50
(3).....	4.00	5.00	7.50	8.00	7.00	5.00	10.00	7.50	13.00
(4).....	.40	.50	1.00	1.00	2.00	2.00	1.50	.30	1.50
(5).....	2.00	5.00	7.00	3.00	6.50	3.00	1.50	4.50	6.00
(6).....	.25	.25	.30	.20	.35	.60	.50	.50	.60
(7).....	.25	.30	.30	.25	.22	.15	.30	.37	.35
(8).....	.25	.40	.75	.75	.75	1.50	.50	1.00	1.50
(9).....	.325	.30	.33	.15	.32	.32	.20	.33	.35
(10).....	.60	.60	.75	.60	.40	.89	.60	.65	1.00
(11).....	.09	.10	.11	.28	.21	.11	.30	.14	.05
(12).....	.20	.30	.10	.50	.30	.19	.40	.22	.80
(13).....	.30	.90	.20	.60	.40	.30	.40	.30	.80
(14).....	.15	.30	.35	.40	.10	.35	.50	.20	1.00
(15).....	.20	.40	.50	.40	.25	1.50	.50	.22	1.25
(16).....	1.00	1.25	2.50	1.00	2.25	2.00	1.00	1.50	2.00
(17).....	.50	.50	2.00	1.00	.50	3.00	.50	.45	.75
(18).....	.50	.30	.75	.50	.40	.40	.30	.45	.60
(19).....	.50	.30	.40	.50	.30	1.00	.20	.45	.60
(20).....	.50	.30	.60	.50	.30	1.00	.20	.45	.60
(21).....	.50	.50	.60	1.00	1.00	1.50	.50	.45	.60
(22).....	.50	.25	.25	1.00	.30	1.50	.20	.45	.50
(23).....	.50	.50	2.00	1.00	1.50	.25	1.00	.60	1.20
(24).....	.20	.10	.50	.25	.10	.05	.50	.15	.20
(25).....	1.00	1.00	2.00	4.00	1.00	.75	1.00	3.00	1.50
(26).....	8.75	10.00	8.00	10.00	12.00	10.00	14.00	18.00	13.50
(27).....	11.00	20.00	13.00	15.00	20.00	16.00	15.00	26.00	20.00
(28).....	12.50	16.00	13.00	21.00	14.50	16.18	25.00	18.00	15.00
(29).....	12.00	15.00	13.00	20.00	13.00	16.18	25.00	18.00	13.50
(30).....	12.00	14.00	13.00	21.00	12.00	16.18	25.00	18.00	15.00
(31).....	20.00	20.00	13.00	15.00	20.00	15.14	20.00	18.00	20.00
(32).....	12.00	16.00	13.00	15.00	12.00	15.14	15.00	18.00	17.50
(33).....	20.00	40.00	13.00	20.00	25.00	30.00	15.00	32.00	25.00
(34).....	14.00	12.00	14.00	15.00	10.00	20.00	15.00	22.50	17.50
(35).....	10.50	15.09	10.00	10.00	16.00	12.58	15.00	21.00	15.00
(36).....	7.50	10.00	8.40	10.00	10.00	7.43	15.00	21.00	13.00
(37).....	18.00	20.00	15.00	15.00	15.00	12.00	15.00	22.50	20.00
(38).....	.015	.0175	.0125	.01	.015	.02	.02	.015	.025
(39).....	.15	.06	.06	.10	.10	.02	.07	.12	.12
(40).....	400.00	250.00	50.00	500.00	200.00	1000.00	500.00	600.00	1000.00
(41).....	.50	.75	.50	2.00	.75	1.00	.50	.15	1.50
(42).....	2.00	7.00	6.00	5.00	5.00	20.00	10.00	7.50	15.00
(43).....	1.00	3.00	2.50	2.00	2.00	3.00	4.00	4.50	5.00
(44).....	.50	.45	.60	1.00	.50	.50	.50	.37	.50
(45).....	.50	.69	.50	.70	.70	.75	1.00	.60	1.50
(46).....	2.00	1.30	.50	1.00	1.00	.75	1.00	1.50	2.00
(47).....	.30	.35	.10	.30	.30	.25	.50	.60	.50
(48).....	.03	.04	.025	.02	.02	.03	.025	.02	.05
(49).....	.08	.06	.025	.02	.03	.03	.025	.03	.05
(50).....	.06	.03	.025	.02	.02	.03	.025	.03	.05
(51).....	.03	.08	.025	.02	.03	.05	.02	.03	.05
(52).....	.02	.03	.025	.02	.03	.03	.025	.02	.05
(53).....	.06	.08	.08	.03	.05	.10	.03	.075	.05
(54).....	.20	.20	.30	.10	.10	.25	.15	.15	.15
(55).....	500.00	500.00	500.00	200.00	150.00	400.00	1500.00	750.00	1000.00

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